

Comodo Endpoint Manager

Software Version 6.25

Administrator Guide

Guide Version 6.25.121918

Comodo Security Solutions 1255 Broad Street Clifton, NJ 07013

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1. Introduction to Endpoint Manager

Endpoint Manager (EM) lets you manage, monitor and secure devices which connect to your network.

- Admins must first add users to EM then enroll devices/endpoints for those users. Supported operating
 systems include Android, iOS, Mac OS, Windows and Linux.
- Once a device has been added, admins can apply profiles which determine the device's network access
 rights, security settings and other features.

Endpoint Manager		≡ Audit	License Optior	is 두	ා දී Logout (her	culespopular22@gm	ail.com)
DASHBOARD	~					<u> </u>	
Audit						💥 Cus	tomize
Compliance		Operating System		0	Device Types		O II
Valkyrie	~						
Reports Notifications	0		O Android	2		O Smartphone	1
Audit Logs		42.9%	O ios	0	71.4%	O Tablet	1
DEVICES	>	42.9%	O Windows	3	71.4%	O PC	5
A USERS	>		O macOS	1		O Windows Serve	er O
	>		O Linux	1		O Unknown	0
APPLICATION STORE	>						
APPLICATIONS	>						
SECURITY SUB-SYSTEMS	>	Ownership Types		0	Security Client Ver	sion (Windows)	O II
SETTINGS	>						
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Each license covers one device per user. You will need additional licenses for each device you add for a user.

Guide Structure

This guide will take you through the configuration and use of Endpoint Manager and is broken down into the following sections:

Introduction to Endpoint Manager - High level overview of the service which introduces the features and concepts that are discussed later in the guide.

The Administrative Console

The Dashboard

Users and User Groups

- Manage Users
 - Create New User Accounts
 - Enroll Users Devices for Management
 - View Details of a User
 - Assign Configuration Profile(s) to Users' Devices
 - Remove a User



- Manage User Groups
 - Create a New User Group
 - Edit a User Group
 - Assign Configuration Profiles to a User Group
 - Remov a User Group
- Configure Role Based Access Control for Users
 - Creat a New Role
 - Manage Permissions and Assigned Users of a Role
 - Remove a Role
 - Manage Roles Assigned to a User

Devices and Device Groups

- Manage Device Groups
 - Create Device Groups
 - Edit a Device Group
 - Assign Configuration Profiles to a Device Group
 - Remove a Device Group
- Manage Devices
 - Add New Devices
 - Manage Windows Devices
 - Manage Mac OS Devices
 - Manage Linux Devices
 - Manage Android / iOS Devices
 - View User Information
 - Remove a Device
 - Remote Management of Windows and Mac OS Devices
 - Remotely Browse Folders and Files on Windows Devices
 - Remotely View and Manage Processes Running on Windows Devices
 - Apply Procedures to Windows Devices
 - Remotely Install and Update Packages on Windows Devices
 - Remotely Install Packages on Mac OS Devices
 - Remotely Install Packages on Linux Devices
 - Install Apps on Android / iOS Devices
 - Generate an Alarm on a Device
 - Lock / Unlock Selected Devices
 - Wipe Selected Devices
 - Assign Configuration Profile to Devices
 - Set or Reset Screen Lock Passwords
 - Update Device Information
 - Send Text Messages to Devices
 - Restart Selected Windows Devices
 - Change a Device's Owner
 - Change Device Ownership Status
 - Generate Device List Report
- Bulk Enrollment of Devices

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- Enroll Windows and Mac OS Devices by Installing the EM Communication Client Package
- Enroll the Android and iOS Devices of Active Directory Users
- Download and Install the Remote Control Tool

Configuration Templates

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- Create Configuration Profiles
 - Profiles for Android Devices
 - Profiles for iOS Devices
 - Profiles for Windows Device
 - Profiles for Mac OS Devices
 - Profiles for Linux Devices
- View and Manage Profiles
 - Export and Import Configuration Profiles
 - Clone a Profile
- Editing Configuration Profiles
- Manage Default Profiles
- Manage Alerts
 - Create a New Alert
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- Manage Procedures
 - View and Manage Procedures
 - Create a Custom Procedure
 - Combine Procedures to Build Broader Procedures
 - Review / Approve / Decline New Procedures
 - Add a Procedure to a Profile / Procedure Schedules
 - Import / Export / Clone Procedures
 - Change Alert Settings
 - Directly Apply Procedures to Devices
 - Edit / Delete Procedures
 - View Procedure Results
- Manage Monitors
 - Create Monitors and Add them to Profiles
 - View and Edit Monitors

Applications

- View Applications on Android and iOS Devices
 - Blacklist and Whitelist Applications
- Patch Management
 - Install OS Patches on Windows Endpoints
 - Install 3rd Party Application Patches on Windows Endpoints
- View and Manage Applications Installed on Windows Devices
 - Uninstall a Windows Application from Selected Devices
 - Uninstall a Windows Application from All Devices
- **Application Store**
 - iOS Apps



- Add iOS Apps and Installing them on Devices
- Manage iOS Apps
- Android Apps
 - Add Android Apps and Install them on Devices
 - Manage Android Apps
- Windows Apps
 - Install Windows Apps on Devices

Security Sub-Systems

- Security Dashboards
 - View Security Events by Time
 - View Events by File
- View Contained Applications
- Manage File Trust Ratings on Windows Devices
- View list of Valkyrie Analyzed Files
- Antivirus and File Rating Scans
 - Run Antivirus and/or File Rating Scans on Devices
 - Handle Malware on Scanned Devices
 - Update Virus Signature Database on Windows and Mac OS Devices
- View and Manage Identified Malware
- View and Manage Quarantined Items
- View Threat History
- View History of External Device Connection Attempts

Manage Certificates Installed on Devices

Configure Endpoint Manager

- Email Notifications, Templates and Custom Variables
 - Configure Email Templates
 - Configure Email Notifications
 - Create and Manage Custom Variables
 - Create and Manage Registry Groups
 - Create and Manage COM Groups
 - Create and Manage File Groups
- Endpoint Manager Portal Configuration
 - Import User Groups from LDAP
 - Add Apple Push Notification Certificate
 - Configure the EM Android Client
 - Configure EM Windows Client
 - Manage Endpoint Manager Extensions
 - Configure Endpoint Manager Reports
 - Integrate with Sectigo Certificate Manager
 - Set-up Administrator's Time Zone
- View and Manage Licenses
 - Upgrade or Add a License

Viewing Version and Support Information

Appendix 1a: Endpoint Manager Services - IP Nos, Host Names and Port Details - EU Customers Appendix 1b: Endpoint Manager Services - IP Nos, Host Names and Port Details - US Customers Appendix 2: Pre-configured Profiles

1.1.Key Concepts

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Mobile Device - For the purposes of this guide, a mobile device is any Android or iOS smart phone or tablet that is allowed to connect to the enterprise network. Endpoint Manager allows network administrators to remotely configure device access rights, security settings, general preferences and to monitor and manage the device. Mobile devices may be employee or company owned.

User - An employee or guest of the enterprise whose device(s) are managed by the EM console. Users must be created before their devices can be added. Users can be added manually or by importing user groups from an AD server.

Device Group - An admin-defined grouping of Android, iOS, Linux, MAC or Windows devices. Configuration profiles applied to a device group will be deployed to all devices in the group.

Quarantine - Malware found on managed networks can either be deleted or isolated in a secure environment known as 'quarantine'. Files moved to quarantine are encrypted so they cannot be executed. Admins can review quarantined items and delete or release the files. Quarantined files can also be added to the local whitelist and submitted to Comodo as a potential false-positive.

Configuration Profile - A configuration profile is a collection of settings applied to managed devices which determines their network access rights, overall security policy, antivirus scan schedule, and other preferences. Profiles are operating system specific and can be applied to individual devices, device groups, users or user groups. Endpoint Manager ships with a 'default' profile for each supported operating system (iOS, Android, MAC, Linux and Windows). The default profile is automatically applied to a user/device *if* no custom profile exists.

Comodo Client Security - Comodo Client Security (CCS) is the remotely managed endpoint security software installed on managed Windows devices. It offers complete protection against internal and external threats by combining a powerful antivirus, an enterprise class packet filtering firewall, an advanced host intrusion prevention system (HIPS) and Containment feature that runs unknown and unrecognized applications in an isolated environment at the endpoints. Each component of CCS can be configured to offer desired security level by applying configuration profiles.

 CCS can be white-labelledwith your own company branding and UI texts. You can customize the company name, company logo, product logo and more.

Default Profile - Default profiles are immediately applied to a device when it is first enrolled into Endpoint Manager. Default profiles are split into four types - iOS default profiles, Mac OS default profiles, Android default profiles and Windows default profiles. Multiple default profiles can be created and applied to a device or group of devices.

Communication Client (a.k.a EM Agent) - The communication client (CC) is an agent which needs to be installed on all devices so they can be managed by Endpoint Manager. The client is responsible for receiving and executing tasks. Tasks include implementing configuration profiles, fetching device details, running antivirus scans, adding or removing apps and wiping the device.

 CC can be white-labeled with your own company branding and UI texts. You can customize the company name, company logo, product logo and more. You can also specify your support email, support website and support email in the CC 'About' dialog.

Notifications - Notifications are generated if a threat is found on a device, or if an app is installed or removed. You can choose to send notifications to admins only, to a mailing list, or to specific users. Threat notifications are also shown in the Endpoint Manager dashboard.

Patch Management - The patch management module lets you monitor and install updates for Windows and 3rd party software on Windows devices.

Valkyrie - Valkyrie is a cloud-based file verdicting service that tests unknown files with a range of static and behavioral checks in order to identify those that are malicious. CCS on managed Windows computers can

automatically submit unknown files to Valkyrie for analysis. The results of these tests produce a trust verdict on the file which can be viewed from the EM interface.

Active Directory - Endpoint Manager allows administrators to add multiple Lightweight Directory Access Protocol (LDAP) accounts for the purpose of importing user groups and users.

1.2. Best Practices

1. 'Default' profiles are automatically applied to a device if no custom profile exists for the device. Endpoint Manager ships with default profiles for each supported operating system, but you can also mark any custom profile as 'default' if you wish.

See Manage Default Profiles for more information.

2. Though it is possible to save all settings in a single profile, an option worth considering is to create separate profiles dedicated to the implementation of a single setting group. You can apply multiple profiles at once to a device or group. For example, you could name a profile 'Android_passcode_profile' and configure only the passcode rules. You could create another called 'Android_VPN_settings' and so on. Adding or removing a profile from a device would let you quickly troubleshoot if a particular setting is causing issues.

See Create Configuration Profiles for more details.

3. Each license allows you to enroll one mobile device or one Windows / Mac / Linux endpoint for a single user. You will need additional licenses for each device you add for a user. We encourage admins to evaluate the average number of devices per user and to set max. enrollments accordingly.

See Enroll Users' Devices for Management for more details.

4. Creating a group of devices is a great time-saver if the policies applied to them are going to be the same.

See Manage Device Groups for more details.

- 5. The first level of defense on any device is to set a complex passcode policy. Endpoint Manager allows you specify passwords which are a combination of numbers, letters, special symbols and of a minimum length set by you. You can also set passcode lifetimes, reuse policy and define whether data should be automatically wiped after a certain number of failed logins.
- 6. Decide what restrictions are required for *your* company and *your* users. For example, disabling cell-phone cameras might be expected and mandatory in certain corporate environments but could be seen as a savage affront to liberties in more relaxed offices. Endpoint Manager offers flexible restrictions for Android devices over items such as Wi-Fi, packet data, bluetooth connectivity and use of camera. iOS restrictions are much more granular and also include App purchases, game center, voice dialing and more.

See Profiles for Android Devices and Profiles for iOS Devices for more details.

7. Keeps an eye on the apps you allow in your organization. Apps can be useful and productive to your employees but some may pose a malware or data-leak risk for your organization. EM provides you the ability to blacklist and whitelist apps, to govern how apps behave and to determine whether users are allowed to install apps from 3rd party vendors. You can also remotely uninstall unwanted applications from Windows devices.

See Applications for more details.

- Keeping enrolled devices free from malware is vital to your organization's security. It is advisable to run antivirus scans on devices regularly per your company's needs. EM allows you to create a scheduled antivirus scan profile that automates the process of AV scans. If needed, AV scans can also be run instantly for selected devices or all enrolled devices.
- 9. You can create custom roles for users which determine their permissions within Endpoint Manager. See **Configure the Role-Based Access Control for Users** for more details.
- 10. Keep on top of your devices. Check device status regularly for compliance with deployed profiles, and take

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advantage of Endpoint Manager's detailed reporting system. See **The Dashboard** and **Manage Devices** and **Security Dashboards** or more details.

1.3. Quick Start

This tutorial explains how to add users and devices, create device groups and deploy configuration profiles.

- Step 1 Enrollment and Configuration
- Step 2 Configure EM Communications
- Step 3 Add Users
- Step 4 Enroll User Devices
- Step 5 Create Groups of Devices (optional)
- **Step 6 Create Configuration Profiles**
- Step 7 Applying profiles to devices or device groups

Note - Endpoint Manager needs to communicate with Comodo servers and managed devices in order to send commands and run updates. You need to configure your firewall accordingly to allow these connections. Required IPs, host-names and ports are provided in **Appendix 1**.

Step 1 - Enrollment and Configuration

Existing Comodo One and ITarian customers

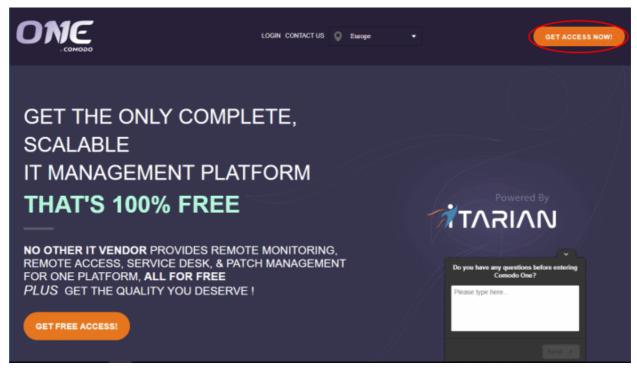
- Log in to your Comodo One / ITarian account
- Click 'Licensed Applications' > 'Endpoint Manager'.

New customers

You can subscribe for Endpoint Manager from Comodo One or ITarian. The enrollment steps are similar for both.

Comodo One:

Visit https://one.comodo.com/





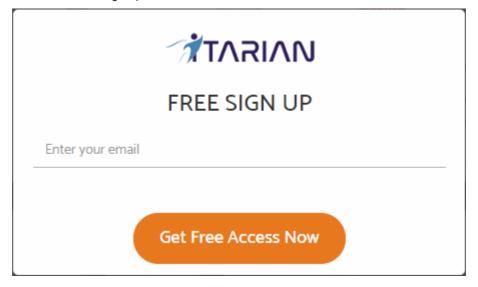
- Select your region and click 'Get Access Now'
- You will be taken to the sign-up wizard.

ITarian:

Visit https://www.itarian.com/



- Select your region and click 'SignUp' on the top right
- You will be taken to the sign-up wizard:

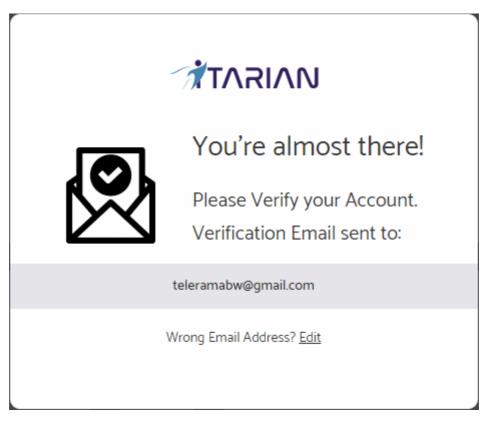


- Enter your email address and click 'Get Free Access Now'
- Next, complete the short registration form:

100%	6 Free -	No Payn	nent
teleramabw@gm	ail.com		
Password *			()
Phone *			

- Email This is pre-populated with the address you provided in the previous step. Enter a new email address if you wish to change it. You will receive the verification link to this email address.
- **Password** Create a password for your C1 or ITarian account. Password rules:
 - At least eight characters long
 Contain a mix off lower case and upper case letters
 - Contain at least one numeral
 Contain at least one of the following special characters '("!#\$%^&*")'
- Telephone Number Primary contact number
- End User License Agreement: Read the EULA fully by clicking the 'terms and conditions' link.

Click 'Get Started Now'.



- A confirmation screen appears. If you want to change the email address, click 'Edit' and enter a new address. The verification email will be sent to the new address.
- You will receive a confirmation email to verify your account:



Hello,

Thank you for signing up to ITarian. Please click on the link below to verify your email address and activate your account.

Verify my email

Thank you for joining The ITarian Community!

The ITarian Team

Please do not reply to this email as this email address is not monitored.

ITarian Technical Support Call: 833-579-3572 Email:<u>support@itarian.com</u> Forum: <u>https://forum.itarian.com</u>

• Click the 'Verify my email' button in the mail to activate your account:

You will be taken to the C1 / ITarian login page after successful verification:

Great to hav	ve you back!
 Welcome to Comoo login with your em 	
Username	
Password	
Remember Me	Forgot password?
SIGN	N IN
New here? <u>Cre</u>	ate an account
Available on the Apple Store	Android App on GOOGLE PLAY

- Enter your email address and password and click 'Sign In'.
- You need to complete account registration after your first-login:

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Setup Account Details	ເ⇒ <u>Logout</u>
Business Type * (Compare Business Types)	
Managed Service Provider	
 Enterprise 	
Your custom	support URL for your end-users: ACME.servicedesk.comodo.com
	Submit

• **Business Type** - Choose the version of Comodo One / ITarian you require. The modules offered with each version are as follows:

MSP	Enterprise			
Modules included in the Base package				
Service Desk	Service Desk			
Endpoint Manager (EM)	Endpoint Manager (EM)			
Dome Shield	Dome Shield			
Modules that can be add	ded to the base package			
Acronis Cloud Backup	Acronis Cloud Backup			
Quote Manager	Quote Manager			
Customer Relationship Management (CRM)	Customer Relationship Management (CRM)			
cWatch	cWatch			
Comodo Dome Secure Web Gateway	Comodo Dome Secure Web Gateway			
Comodo Dome Antispam MSP	Comodo Dome Data Protection			
Comodo Dome Firewall Central Manager	Comodo Dome Firewall Central Manager			
Comodo Dome Firewall Virtual Appliance	Comodo Dome Firewall Virtual Appliance			
cWatch EDR	Comodo Dome Antispam			
	cWatch EDR			

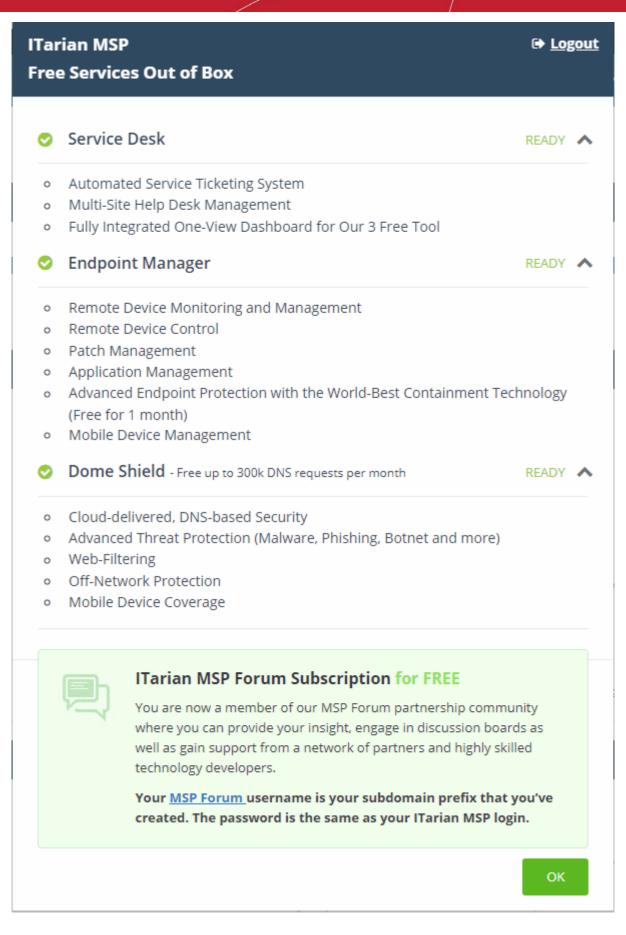
 More details on C1 modules - https://help.comodo.com/topic-289-1-716-8478-Introduction-to-Comodo-One-MSP.html.



- More details on ITarian https://help.comodo.com/topic-452-1-946-13050-Introduction-to-ITarian.html.
- **Subdomain** The sub-domain forms part of the unique URL you use to access EM. For example, if you enter the sub-domain 'dithers' then you will access EM at https://dithers.cmdm.comodo.com
- Click 'Submit'

The next screen shows a summary of your active services:

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- Click 'OK' to finish setup. You will be taken to the Comodo One / ITarian Dashboard
- Click 'Licensed Applications' > 'Endpoint Manager' to open the EM console



- This account will be given master 'Account Admin' privileges and cannot be deleted. You will be able to create administrators and staff under this account
- Admins/users who enrolled via C1 / ITarian can login at https://one.comodo.com/app/login
- Admins/users created in EM can login at https://<company name>.cmdm.comodo.com/

Step 2 - Configure EM Communications

You need to install an Apple Push Notification (APN) certificate and a Google Cloud Messaging (GSM) token on your portal so Endpoint Manager can communicate with managed devices.

The following sections explain how to:

- Add an APN Certificate
- Add a GCM Token

Add Apple Push Notification certificate

- You need to install an Apple Push Notification (APN) certificate on your EM instance if you wish to manage iOS or Mac devices.
- You can enroll for an APN certificate using your Apple account. If you do not have an Apple account then please create one at https://appleid.apple.com. A free account is enough.
- The certificate is valid for one year. Endpoint Manager will remind you when your certificate is nearing expiry. It is free to renew the certificate each year.
- Follow the steps below to obtain and install an APN certificate:

Step 1- Generate your PLIST

- Click 'Settings' > 'Portal Set-Up'
- Click the 'APNs Certificate' tab.

Endpoint Manager	Portal Set-Up / APNs Certificate / Generation
DASHBOARD	
DEVICES	Active Directory APNs Certificate Android Client Configuration
<u>A</u> USERS	
	APNs certificate is not installed.
	Click "Create APNs Certificate" to proceed.
APPLICATIONS	Create APNs Certificate
SECURITY SUB-SYSTEMS	
	·
System Templates	
Portal Set-Up	
Subscriptions	
Support	

Click the 'Create APNs Certificate' button to open the APNs application form.

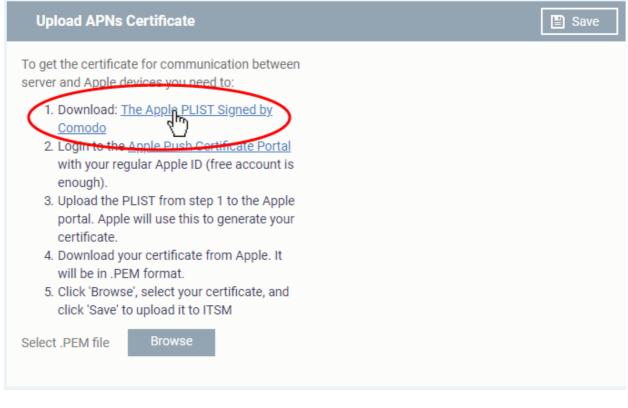
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The fields on this form are for generating a Certificate Signing Request (CSR):

Generation of APNs Certificate	×
Country name *	
India	Ŧ
Apple ID *	
herculespopular22@gmail.com	
State or province name *	
Tamilnadu	
Locality name (e.g, city) *	
Chennai	
Organization name *	
Saddle and Pedals	
Organizational unit *	
Sales	
Organizational Unit Name (e.g, section)	
Common name *	
herculespopular22.com	
(e.g., server FQDN or YOUR name)	
Create	Reset

- Complete all fields marked with an asterisk and click 'Create'. This will send a request to Comodo to sign the CSR and generate an Apple PLIST.
- You need to submit this to Apple in order to obtain your APN certificate:

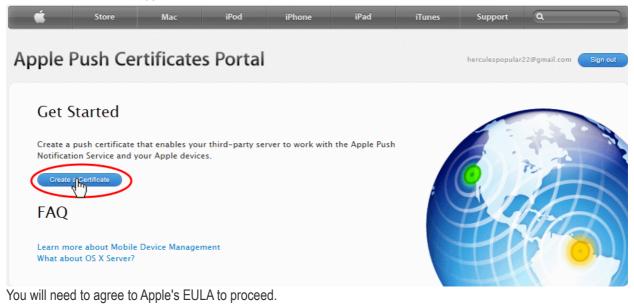
COMODO Creating Trust Online



Download your Apple PLIST from the link in step 1. This is a file with a name similar to 'COMODO_Apple_CSR.csr'. Please save this to your local drive.

Step 2 -Obtain Your Certificate From Apple

- Login to the 'Apple Push Certificates Portal' with your Apple ID at https://identity.apple.com/pushcert/.
- If you do not have an Apple account then please create one at https://appleid.apple.com.
- Once logged in, click 'Create a Certificate'.



<section-header><page-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text>

 On the next page, click 'Choose File', navigate to the location where you stored 'COMODO_Apple_CSR.csr' and click 'Upload'.

Accept

herculespopular22@gmail.com Sign out
1
COLLER S
HUG

Apple servers will process your request and generate your push certificate. You can download your certificate from the confirmation screen:

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Apple Push Certificates Portal	herculespopular22@gmail.com
Confirmation 🧭	
You have successfully created a new push certificate with the following information	on:
Service Mobile Device Management Vendor COMODO GROUP LTD. Expiration Date Jul 23, 2019 Manage Certificates	

 Click the 'Download' button and save the certificate to a secure location. It is a .pem file with a name similar to 'MDM_COMODO GROUP LTD._Certificate.pem'

Step 3 - Upload your certificate to EM

- Return to EM, click 'Settings' > 'Portal Set-Up' > 'APNs Certificate'
- · Click the 'Browse' button, locate your certificate file and select it.

Upload APNs Certificate

To get the certificate for communication between server and Apple devices you need to:

- 1. Download: <u>The Apple PLIST Signed by</u> <u>Comodo</u>
- Login to the <u>Apple Push Certificate Portal</u> with your regular Apple ID (free account is enough).
- Upload the PLIST from step 1 to the Apple portal. Apple will use this to generate your certificate.
- Download your certificate from Apple. It will be in .PEM format.
- Click 'Browse', select your certificate, and click 'Save' to upload it to ITSM

MDM_ COMODO GROUP LTD._Certifica...

Browse

• Click 'Save' to upload your certificate.

The APNs Certificate details interface will open:

Save

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ctive Directory	APNs Certificate	Android Client Co	onfiguration	Windows Client Configuration	Exte
PNs Certifica	ate				
Certificate Details	📝 Renew	Delete	Addition	nal Info	
Country name India			Activation 2018/07/2	date 3 11:56:51 AM	
Locality name Chennai			Expiry date 2019/07/2	a 3 11:56:51 AM	
Organization name Saddle and Pedals					
Organization unit Sales	name				
Common name herculespopular22	2.net				
Email herculespopular22	2@gmail.com				

Endpoint Manager can now communicate with iOS and Mac OS devices. You can enroll iOS devices and Mac OS devices for management.

- The certificate is valid for 365 days. EM will remind you when your certificate is due to expire.
- We advise you renew your certificate at least 1 week before expiry. If it is allowed to expire, you will need to re-enroll all your iOS and Mac devices.
 - Click 'Renew' in the APNs certificate details interface to renew the cert:

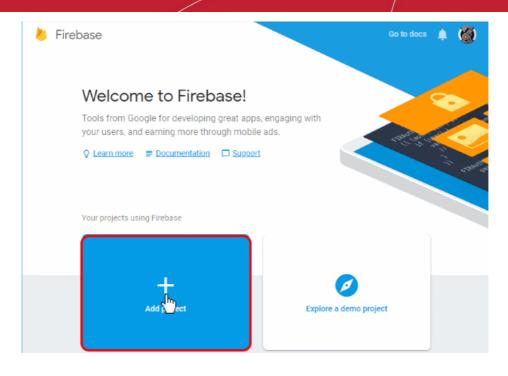
Active Directory	APNs Certificate	Android Client Cor	nfiguration Wind
APNs Certific	ate		
Certificate Details	Renew	Delete	Additional Im
Country name India			Activation date 2018/07/23 11:5:
Locality name Chennai			Expiry date 2019/07/23 11:55
Organization nam Saddle and Pedal			
Organization unit Sales	name		
Common name herculespopular2	2.net		
Email herculespopular2	2@gmail.com		

· Click 'Delete' only if you wish to remove the certificate so you can generate a new APNs certificate

Add Google Cloud Messaging (GCM) Token

- Endpoint Manager requires a Google Cloud Messaging (GCM) token in order to communicate with Android devices.
- Endpoint Manager ships with a default token, but you can also generate a unique GCM token if required.
- To get a token, you must first create a project in the Google Developers console.
- Please follow the steps below to create a project and upload a token.
- Step 1 Create a New Project
 - Login to the Google Firebase API console at https://console.firebase.google.com, using your Google account.

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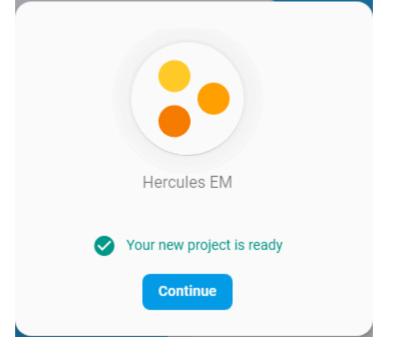
Click 'Add Project'



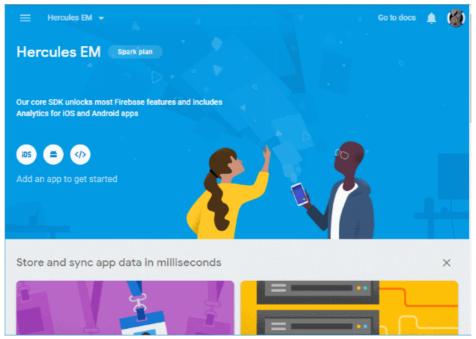
Add a project	×
Project name	≚ + i05 + >
Hercules EM 👻	Tip: Projects span apps across platforms ⑦
Project ID ②	
hercules-em 🧨	
Locations ②	
United States (Analytics) us-central (Cloud Firestore)	
✓ Use the default settings for sharing Google	Analytics for Firebase data
 Share your Analytics data with Google to improvide the second seco	le technical support le Benchmarking
✓ I accept the <u>controller-controller terms</u> . This	s is required when sharing
Analytics data to improve Google Products	and Services. Learn more
 I agree that I am using Firebase services in my ap the applicable <u>terms</u>. 	op and I agree to
Ca	ancel Create project
• Type a name for the new project in the 'Project name	ne' field

- Click the pencil icon beside the 'Locations' field. Select your country and the Firestore server closest to you.
- 'Use default settings for sharing Google Analytics for Firebase data' Leave this selected.
- Agree to the terms and conditions then click 'Create Project'.

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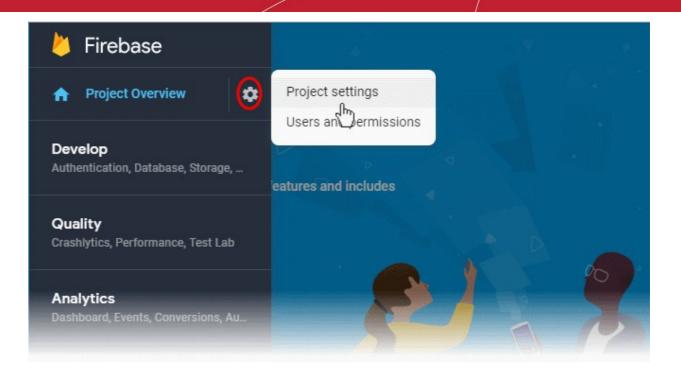


Click 'Continue' to go to the project dashboard



• Step 2 - Obtain GCM Token and Project number

- Click the hamburger button at top-left
- · Click the gear icon beside 'Project Overview' and choose 'Project settings':



- The 'Settings' screen for the project will open.
- Click the 'Cloud Messaging' tab:

•

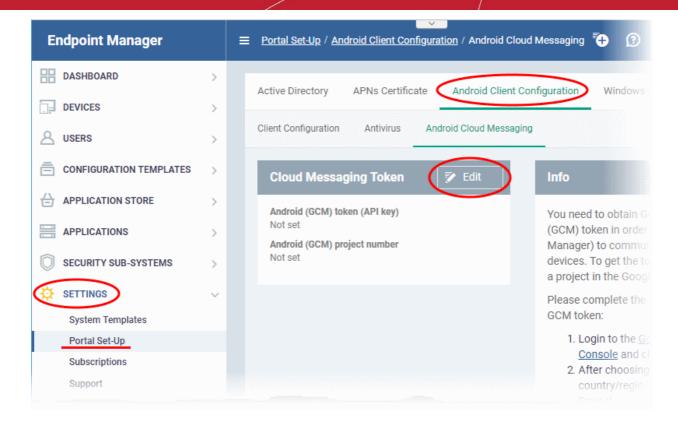
eral Cloud Messagin	g Integrations	Service accounts	Data privacy	Users and permissions
ect credentials				
Key	Token			Add server k
(0)	Token			
Server key	jSZ-HSU37_atF-w	PA91bFkf_isHDMdwz-M KFGPwQvnCFpX0tYEbZ hqgmxgCg02Co10QKJv	hCJ7SCNgBHPLVL	
Server key Legacy server key ⊘	jSZ-HSU37_atF-w GEQ2DqbsW0pUl	KFGPwQvnCFpXOtYEbZ	hCJ7SCNgBHPLVL /-UvXQ8D	

• Copy the server key and sender ID

Step 3 - Enter GCM Token and Project number

- Login to Endpoint Manager
- Click 'Settings' > 'Portal Set-Up' > 'Android Client Configuration' and choose 'Android Cloud Messaging' tab

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Edit

Click the edit button **Example** at the top right of the 'Cloud Messaging Token' column, to view the GCM token and project number fields

Cloud Messaging Token	😒 Cancel 📳 Save	
Android (GCM) token (API key)		1
	/	
Android (GCM) project number		1

- Paste the 'Server key' into 'Android (GCM) Token' field.
- Paste the Sender ID into 'Android (GCM) Project Number' field.

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Cloud Messaging Token	😣 Cancel 📔 Save
Android (GCM) token (API key)	
AAAA8457TLo:APA91bFkf_isHDMdwz-	A
MGtxOdddhH0wqPoXBbyvFqCX8LjSZ-H	SU37_atF-
wKFGPwQvnCFpXOtYEbZhCJ7SCNgBHF	PLVLeTVwIz9gIB3GEQ2Dq
Android (GCM) project number	//
1046067498170	

Click 'Save'.

Your settings will be updated and the token/project number displayed in the same interface.

Endpoint Manager can now use the token to communicate with Android devices.

Step 3 - Add Users

You can add users and staff via the C1 / ITarian console, or add them directly in Endpoint Manager (EM).

- Staff added in Comodo One/ITarian are universal to the platform. They will be available in Endpoint Manager and other platform applications like Service Desk, CRM and Quote Manager.
- Users directly added to Endpoint Manager are only available in Endpoint Manager.

You can add new accounts using any of the following methods:

- Manually add users. Add individual users to EM. You need to specify their name, email address, the company they belong to and their EM role.
- Import users from a CSV file. Bulk import users from a comma separated values file.
- Import users from Active Directory (AD) . Click here to see the help page on this method.

Manually Add Users

- Click 'Users' > 'User List'
- Click the 'Create User' button
 - or
- Click the 'Add' button O
 on the menu bar and choose 'Create User'.

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Endpoint Manager	≡ User List	License Options
DASHBOARD >	\frown	دreate User 🖌
DEVICES >	두 (옥)	
USERS ~	Enroll Device Creat ^(m) Iser Mai	
User List	NAME	
User Groups		
Role Management	🗌 🕒 admin	
CONFIGURATION TEMPLATES	Avanti	

The 'Create new user' form will open.

Create New User	×
User Name*	
Oxford	
Email*	
mmoxford@yahoo.com	
Phone Number	
9876543210	
Company*	
Default Company	~
Assign Role	
Users	~
Sub	mit

- Type a login username (mandatory), email address (mandatory) and phone number for the user
- Choose user's company (mandatory)
 - Comodo One MSP and ITarian MSP customers can add users from Companies/Organizations enrolled in their account.
 - Comodo One Enterprise, ITarian Enterprise and EM stand-alone customers can only add users to the default company.

- Choose a role. A 'role' determines user's permissions within Endpoint Manager. The product ships with four default roles:
 - Account Admin Can login to EM and access all management interfaces. You cannot assign
 account admin to a user. The role is automatically assigned to the person who opened the C1 or
 ITarian account. This role is not editable.
 - Administrators Can login to EM and access all management interfaces. This role can be edited as required.
 - **Technician** Can login to EM and access all management interfaces. The technician role has fewer privileges than the administrator role. This role can be edited as required.
 - Users Cannot login to EM. If required, you can change role permissions to have access to the admin console. See Configure Role Based Access Control for Users for more details.

You can create custom roles which grant access to selected areas of EM. These roles can be assigned to users as required. All roles created in EM and C1 or ITarian will appear in the 'Assign Role' drop-down when adding a new user. See **Configure Role Based Access Control for Users** for more details.

Click 'Submit' to add the user to EM.

The user is added to list in the 'Users' interface. The user's devices can be enrolled to EM for management.

• Repeat the process to add more users.

If you add a user with admin role then an account activation mail will be sent to their registered email address.

Import Users from a CSV File

Process in brief

- Create a CSV file containing the list of users you want to add.
- The file should contain the following, separated values: 'Username' (mandatory), 'Email address' (mandatory) and 'Phone number' (optional).
- The file should not contain column headers and each line should contain a single user.
- Click 'Users' > 'User List' > 'Import User' in the Endpoint Manager console.
- Browse to your CSV file.
- Select a company and a role for the imported users.
- Click 'Import users from the list'.
- The users will be imported and enrolled to EM.

Requirements for .csv file

There are two mandatory fields and one optional field per user account:

- Username (mandatory)
- Email address (mandatory)
- Phone number (optional)
- Each line in the CSV file should contain one user entry
- The CSV file should not contain column headers

Example:

"james", "james@ditherscons.com", "9876543210"

To import users from a list

• Click 'Users' > 'User List' > 'Import User'

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Endpoint Manager	≡ User List	License Options	Logout (herculespopular22)			
DASHBOARD	>					
DEVICES	, 📮 원	É) X	영 당 🛱			
USERS	Enroll Device Create Use	r Manage Profiles Send Password Recovery Email	Delete User Impoli User Export			
User List	NAME	EMAIL PHONE NUM	MBER # OF DEVICES LAST			
User Groups						
Role Management	🔲 🕚 admin	herealespopular N/A	0 Not 8			
CONFIGURATION TEMPLATES	> Ava	avantistude@g N/A	2 Not in			
Uploading status: Rea	ıdy	from a user Important:	je to import multiple users list in CSV format. omma (,) as a field delimiter;			
CSV file *		- use only co	omma (,) as a field delimiter; names in the 1st column and			
Browse Customer *	Role *		resses in the 2nd column (both atory), 3rd column is for phone			
Customer	Role		umn headers.			
Do not send any enrollment notifications Import users from list						

- Click 'Browse' to locate and open the CSV file you want to import
- Choose user's company (mandatory)
 - Comodo One MSP and ITarian MSP customers can add users from Companies/Organizations enrolled in their account.
 - Start entering first few letters of the company name and select the company from the options
 - Comodo One Enterprise, ITarian Enterprise and EM stand-alone customers can only add users to the default company.
 - Enter 'Default Company' in the Company field
- Choose user role. See **above** if you need a recap on roles.
 - Type the first few letters of the role label and select from the suggestions.
- Click 'Import users from List'
- Imported users are added to the 'Users' interface. You can now add devices for the user.
- Users will receive an account activation mail if they are assigned a role that has access to the admin console. This includes the standard 'Administrator' and 'Technician' roles.
 - Tip Enable 'Silent mode' in the import screen if you do not want to send these mails.



Step 4 - Enroll User devices

The next step is to enroll user devices for management.

- Each Endpoint Manager device license covers one mobile device or one Windows / Mac / Linux endpoint per user.
- If you add more than one device for a single user then an additional license is required. Admins can
 purchase additional licenses from the Comodo website or C1 / ITarian purchase page. See View and
 Manage Licenses for more details.

To enroll devices

- Click 'Users' > 'User List' on the left
- Select users for whom you want to enroll devices and click the 'Enroll Device' button above the table Or
- Click the 'Add' button the menu bar and choose 'Enroll Device'.

Endpoint Manager	≡ User List	License Options
DASHBOARD >		La Create User
DEVICES	도 <u>옥</u>	Encoll Device
(A USERS)	Enroll newice Create User	_
User List	NAME ▼	
User Groups	\sim	
Role Management	Wile	
CONFIGURATION TEMPLATES >	ssgalia@yahk	

The 'Enroll Devices' dialog opens:

Enroll Devices	×
Please choose the device owner(s) Wile(frontfork) ×	
Show enrollment instructions	Email enrollment instructions

- **Choose device owners** This is pre-populated with the users you selected in the 'User List' interface. You can add more users by typing the few letters of their name.
- Show enrollment instructions Displays instructions on how to add devices to Endpoint Manager. This is useful for admins who want to enroll their own devices, or who just want to see an overview of the process.



 Email enrollment instructions - Sends an email to target users with instructions on how to enroll their device. Users should open the mail on the target device itself.

You will see a confirmation message as follows:

Enroll Devices		×
Instruction email has been sent to selected u a device that is going to be enrolled.	user(s). The user should navigate to t	the link on
An oxample mail is shown below:	Show enrollment instructions	Ok

An example mail is shown below:



Endpoint Manager

Welcome to Endpoint Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.

Note:

 Make sure you select the procedure appropriate for your device type i.e. macOS, Windows, Linux, iOS or Android and complete the necessary steps from the phone, tablet or desktop machine. This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.

Device Enrollment:

Click this link to enroll your device

Sincerely, Endpoint Manager team.

The link takes the user to a page which lets them download the communication client/profile:

Welcome to Endpoint Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.

NOTE:

Make sure that you selected the operating system of the device that you want to enroll.

This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.

FOR WINDOWS DEVICES

Enroll using this link:

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enroll/windows/msi/token/e34983dd628b4/d8c192414c628c 01e2

FOR MACOS DEVICES

1) Open the following link on the browser of the device you want to enroll

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enrolVapple/index/token/e34983dd628b4ltd8c192414c628c 01e2

 When you have installed itsm.mobileconfig file, use this link to download and install Communication Client application: https://dl.cmdm.comodo.com/download/itsmagent-installer.pkg

FOR IOS DEVICES

1) Open the following link on the browser of the device you want to enroll

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enroli/apple/index/token/e34983dd628b4fd8c192414c628c 01e2

2) When your profile has been enrolled, you will be requested to install Communication Client application. Upon completion of the installation, there will be a green icon labeled "Nun after installation" shown just like a new application. Tap the green icon and follow on-screen instructions to complete enrollment process.

FOR ANDROID DEVICES

Download and install Communication Client by tapping the following link:

https://play.google.com/store/apps/details?id=com.comodo.mdm

Upon completion of the installation, enroll using this link: https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enrolVandroid/index/token/e34963dd626b4fd8c192414c626 c01e2

A FOR LINUX DEVICES

Download and install Communication Client by tapping the following link:

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enrol/linux/run/token/e34983dd628b4fd8c192414c628c01e

Use the same link for manual enrolment if required.

1) Change installer mode to executable:

	od +x {\$insta	illation f	ile\$}		
2) Run	installer with r				

\$ sudo ./{\$installation file\$}

💥 MANUAL ENROLLMENT

Use the following settings

Host saddle_and_pedals-herculespopularmsp.cmdm.comodo.com Port 443 Token: e34983dd628b4fd8c192414c628c01e2

Sincerely, Endpoint Manager team.

The user should open the mail on the device you want to enroll. They should click the enrollment link suitable for their device.

Enroll Android Devices

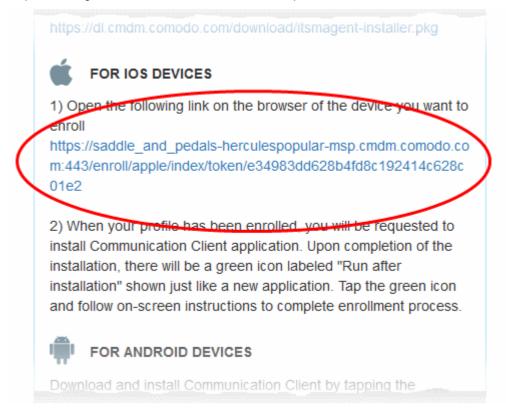
The device enrollment page contains two links. The first to download the Android app and the second to enroll the device:

Instructions to complete enrorment process.
FOR ANDROID DEVICES
Download and install Communication Client by tapping the
following link:
https://play.google.com/store/apps/details?id=com.comodo.mdm
Upon completion of the installation, enroll using this link.
https://frontfork-frontfork-msp.dmdemo.comodo.com:443/enroll/and
roid/index/token/1460571ef0c184504c02a9587c67ba36
Download and install Communication Client by tapping the

- 1. User opens the enrollment page on the target device and taps the 1st link to install the EM communication client.
- 2. After the client has been installed, the user clicks the 2nd link to enroll their device to EM. The client will connect to EM then request the user to tap 'Activate' to enroll the device.

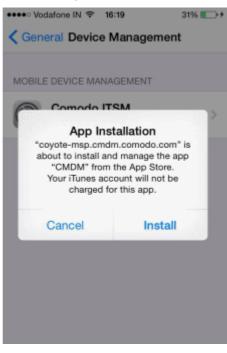
Enroll iPhones and iPads

The device enrollment page contains an enrollment link under 'FOR IOS DEVICES'. Users should tap this link to install the Endpoint Manager client authentication certificate and profile.



Note: The user must keep their iOS device switched on at all times during enrollment. The enrollment process may fail if the device auto-locks or enters standby.

- After the profile has been installed, the client app installation will begin.
- The app is required so that EM can manage the remote device:



- The app will be downloaded and installed from the iTunes store. End-users may need to login with their Apple ID.
- After installation, users should tap the green 'Run After Install' icon on the home screen to complete registration:



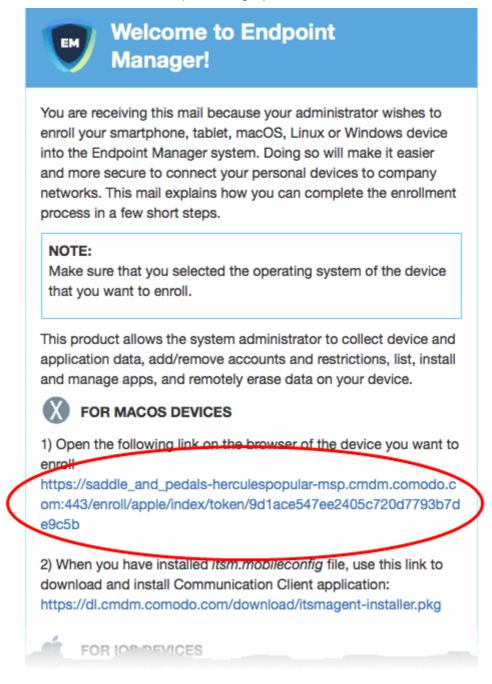
The device will be enrolled and connected to EM.

Enroll Mac OS Devices



Step 1 - Install the EM Configuration Profile

- Users should open the first link in the 'FOR MAC OS DEVICES' section.
- This will download and install the Endpoint Manager profile:



After installation, the profile will be added to the 'Device Profiles' list on the device:

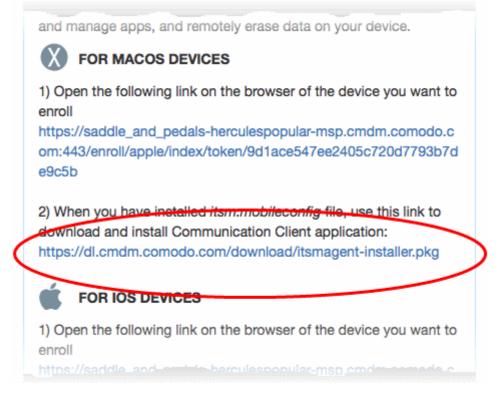


evice Profiles Comodo Endpoint Mana 2 settings	Comodo Endpoint Manager COMODO GROUP LTD. Verified
	Description Configuration Endpoint Manager Signed *.cmdm.comodo.com Installed 18-Dec-2018 at 2:36 PM
	Settings Mobile Device Management SCEP Enrollment macOS, 9459F3BD0FC1877BC6A9BA5A42163550EF 01DC4C, hertriumph@gmail.com
	DETAILS
	Mobile Device Management
	Description COMODO GROUP LTD.

The next step is to install the EM communication client:

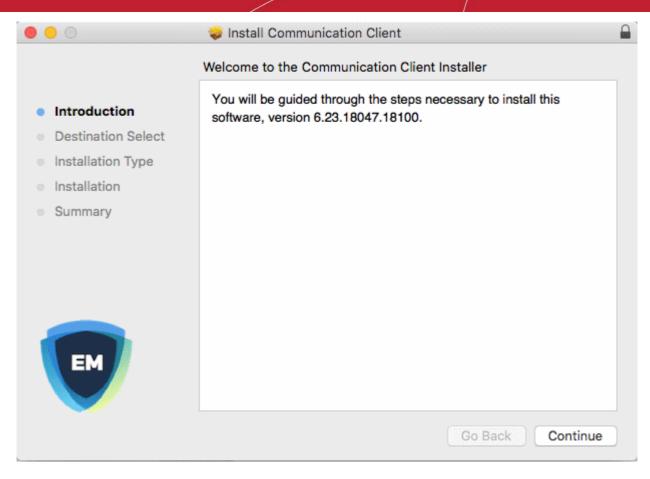
Step 2 - Install Communication Client

- Next, the user should go back and click the 2nd link in the 'FOR MAC OS DEVICES' section.
- This will install the Mac communication client:



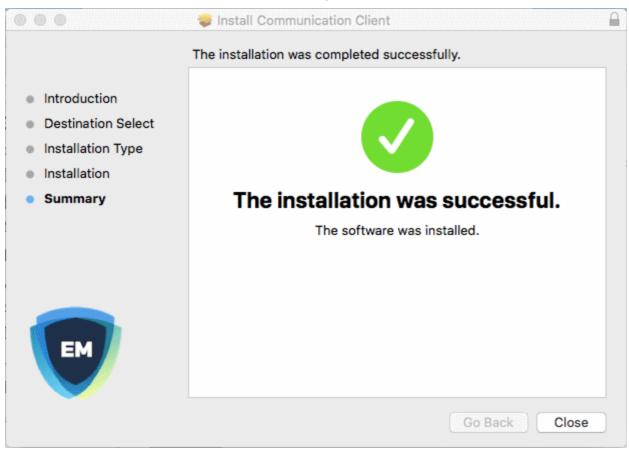
The communication client setup package gets downloaded and the installation wizard starts.





The user follows the wizard and completes the installation.

Once installation is complete, the client starts communicating with the EM portal.



Enroll Windows PCs

The device enrollment page contains a single enrollment link under 'For Windows Devices'.

Welcome to Endpoint Manager!
You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.
NOTE: Make sure you select the procedure appropriate for your device type i.e. mac OS, Windows, Linux, iOS or Android and complete the necessary steps from the phone, tablet or desktop machine.
This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.
FOR WINDOWS DEVICES
Enroll using this link: https://frontfork-frontfork-msp.dmdemo.comodo.com:443/enroll/win dows/msi/token/1460571ef0c184504c02a9587c67ba36

The user clicks this link to download the EM communication client. Once installed, the client will enroll the device into EM.

You can check whether the devices are successfully enrolled from the 'Devices' > 'Device List' interface.

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Ŀ	Gro	up Management	Device I	Management					
Ŀ	1		20	≣□	Ē	Þ	C	0	
Enroll D)evice	Remote Control	Remote tools	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Information	Reboot	More
Q	Searc	h for devices						()	o v
	OS	NAME v	AC	TIVE COMPONEN	TS PATCH S	TATUS COMP	ANY OWNER	۲ I	LAST ACTIVITY
	1 <u>225</u> 1	samsun	A	AV		Defaul	t Com Dyanor	a :	2018/08/13 11:
		LENOVO	A	AV		frontfo	ork Avanti	:	2018/08/13 11:
		DESKTO		3	0	Saddle	and Herald	2	2018/08/13 11:
		DEOLETO							

Enroll Linux Devices

The device enrollment page contains a single enrollment link under 'For Linux Devices'.

Dowr	nload and install Communication Client by tapping the
follov	ving link.
-	://frontfork-frontfork-msp.dmdemo.comodo.com:443/enroll/lint
v/run	/token/1460571ef0c184504c02a9587c67ba36
Ise t	the same link for manual enrollment if required
Use t	the same link for manual enrollment if required.
	the same link for manual enrollment if required. nange installer mode to executable:
1) Cł	
1) Ch \$ c	nange installer mode to executable:

• Click the enrollment link under 'For Linux Devices' and save the file.

The communication client setup file will be downloaded.

You can install the client on the Linux device by completing the following:

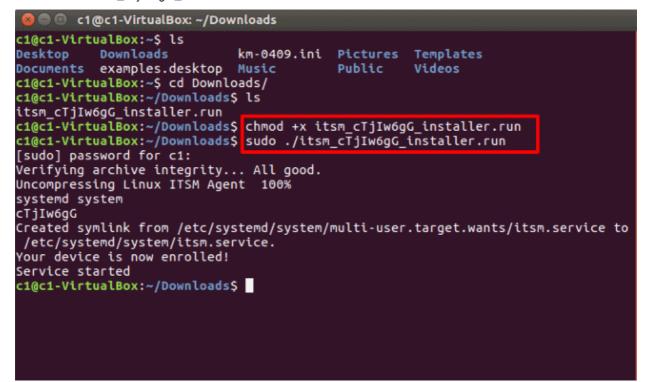
- Change installer mode to executable enter the following command: \$ chmod +x {\$installation file\$}
- Run installer with root privileges enter the following command: \$ sudo ./{\$installation file\$}



For example:

chmod +x itsm_cTjlw6gG_installer.run

sudo./itsm_cTjlw6gG_installer.run



• After installation, the client will connect to EM and enroll the device.

Step 5 - Create Groups of Devices (optional)

- You can create groups of Android, iOS, Windows, Mac OS and Linux devices to view, manage and apply policies to large numbers of devices. Dedicated configuration profiles can be created for each group.
- Each group can contain devices of different OS types. OS specific profiles which are applied to a group will be deployed appropriately.
 - C1 MSP / ITarian MSP customers can create separate device groups for each Company/Organization in their account.
 - C1 Enterprise / ITarian Enterprise and EM stand-alone customers can only create groups under the 'Default Company'.

To create a device group

- Click 'Devices' > 'Device List'
- Click the 'Group Management' tab
 - C1 MSP / ITarian MSP customers should choose a company in the middle pane
- Click the 'Create Group' button
 - Alternatively place your mouse over the company name and click the '+' sign that appears:

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Ø Search group name	Group Management	O Search group name
C All Devices	<u>&</u> (*)	1 All Devices
💿 🖶 ABC TV Services ^	Create Group Manage Profiles	+ 🖶 ABC TV Services
+ 🖶 Chennai IT Services	\smile	+ 🖶 Chennai IT Services
– 🖶 Coyote		– 🖶 Coyote
— 😳 Default Group - Coyote	Default Group - Deer Co	— 🔁 Default Group - Coyote
— 🖾 Default Group	Innotek PCs	— 😳 Default Group
🗆 😳 Sales	Default Group	- 🔁 Sales
🗕 🖶 Deer Company		- 🖶 Deer Company
Default Group - Deer	Results per page: 20 🗸	- Default Group - Deer 🖑 Resu
		— 🖻 Default Group

The 'Add Group' interface will open:

Add Group	×
Name *	
Name	
Company *	
Deer Company	
Devices	
Type device name to search among devices	
	Add

- You now have to name the group and choose the device(s). Enter a name in the 'Name' field. Type the first few letters of the device name in the Devices field and choose the device from the drop-down that appears. Repeat the process to add more devices.
 - You can also add devices after the group is created. Click on the group name then click the 'Add to Group' button. You can then select devices from the list.
- Click 'OK'. Repeat the process to create more groups. See Manage Device Groups for more details.

The next step is to create profiles, which is explained in the next section.

Step 6 - Create Configuration Profiles

- A configuration profile is a collection of settings which can be applied to iOS, Android, Windows, Mac OS, Linux devices.
- Devices must have been enrolled to EM before a profile can be applied to them.
- Each profile allows you to specify a device's network access rights, overall security policy, antivirus scan



schedule and general device settings.

- You can designate a profile as 'Default'. Default profiles are automatically applied to newly enrolled devices. There are default profiles for all supported operating systems (Windows, Mac, iOS, Android and Linux).
- You can also create custom profiles for users and user groups. Any custom user profiles you create will be applied to devices instead of the default profile.
- If no custom profiles exist then the default profile is automatically applied. This ensures all devices have a
 working profile installed. If you remove a custom profile then the default is automatically installed to take its
 place.

Profiles are applied at the time a device connects to the network. Profiles remain in effect unless the communication client is uninstalled from the device, or the profile itself is removed/disabled.

Profile specifications differ between Android, iOS, Mac OS, Windows and Linux Devices:

- Android profiles
- iOS profiles
- Mac OS profiles
- Windows Profiles
- Linux Profiles

To create an Android Profile

- Click 'Configuration Templates' > 'Profiles'
- Click the 'Create' button > 'Create Android Profile':

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Endpoint Manager	≡ Profiles	License
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
△ USERS >		8
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete	Profile Exp
Profiles	Create Android Profile CREATED B	av.
Alerts	Vicate iOS Profile	
Procedures	Create macOS Profile s in Sales Dept. herculespo	pular22@gma
Monitors	Create Windows Profile	
	Create Linux Profile	
Create Android Profile	×	
Name *		_
Name		
Description		
Description		
	Create	

• Enter a name and description for the profile and click 'Create'.

The profile is created and the 'General Settings' for the profile is displayed.

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dd Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default		
eneral						
Conora	I Settings					💎 Edit
Genera	li oottiinga					- Cun
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Name * Android D	Devices in Purchase me of the profile (sh).			- Curt
Name * Android D Display na Is Default Disabled Descriptio	Devices in Purchase rme of the profile (sh	own on the device)				

If you want this profile to be a default policy, click the 'make default' button at the top. Alternatively, click the

'Edit' button Edit on the top right of the 'General' settings screen and enable the 'Is Default' check box.

Click 'Save'.

The next step is to add the components for the profile.

Click the 'Add Profile Section' drop-down and select the component from the list that you want to include for the profile

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Android Devices	in Purchase l	Dept.	
Add Profile Section	Clone Profile	Delete Profile	ES Make Defaul
Antivirus Settings			
Bluetooth Restrictions	/PN Wi-Fi		
Browser Restrictions			
Certificate			
CCM Certificates			
Email	se Dept.		
ActiveSync Settings	shown on the device)	1.	
Kiosk			
Native App Restrictions			
Network Restrictions	ibs used by purcha ents or purpose of th	A STORE REPORT	
Passcode			{
Restrictions			
VPN			
Wi-Fi			
Other Restrictions			

The settings screen for the selected component will be displayed and, after saving, the new section will become available as a link. You can configure passcode settings, feature restrictions, antivirus settings Wi-Fi settings and more. If a component is not configured, the device will continue to use existing, user-defined settings or settings that have been applied by another EM profile.

• Click 'Save' in each configuration screen for the parameters and options selected in that screen to be added to the profile.

See Profiles for Android Devices in the full guide for more information on these settings. In brief:

- **General** Profile name, description and whether or not this is a default profile. These were configured in the previous step. Default profiles are automatically applied upon device enrollment.
- Antivirus Settings Schedule antivirus scans on the device and specify trusted Apps to be excluded from AV scans.
- **Bluetooth Restrictions** Specify Bluetooth restrictions such as to allow device discovery via Bluetooth, allow outgoing calls and more. This profile is supported for SAFE devices only.
- **Browser Restrictions** Configure browser restrictions such as to allow pop-ups, javascript and cookies. This profile is supported for SAFE devices only.
- **Certificate** Upload certificates and this will act as a certificate store from which the certificates can be selected for use in other settings such as 'Wi-Fi, 'Exchange Active Sync', 'VPN' and so on.
- CCM Certificates Request client and device authentication certificates. Note The 'CCM Certificates' section only appears if you have integrated Endpoint Manager with your Sectigo (formerly Comodo CA) account. See Integrate with Sectigo Certificate Manager for more help with this.
- **Email** Configure email account, connection and security details for users accessing incoming and outgoing mails from their devices. This profile is supported for SAFE devices only.
- Active Sync Settings Specify account name, host, domain and other settings to facilitate connections from devices under this profile to Microsoft Exchange Active Sync servers. This profile is supported for SAFE devices only.

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Endpoint Manager - Administrator Guide

- Kiosk Enable and configure Kiosk Mode for SAFE devices like the Samsung Galaxy range. Kiosk Mode allows administrators to control how applications run on managed devices and whether SMS/MMS are allowed. This profile is supported for SAFE devices only.
- **Native App Restrictions** Configure which native applications should be accessible to users. Native applications are those that ship with the device OS and include apps like Gmail, YouTube, the default Email client and the Gallery. This feature is supported for Android 4.0+ and Samsung for Enterprise (SAFE) devices such as Galaxy smartphones, Galaxy Note devices and Galaxy tablets.
- Network Restrictions Specify network permissions such as minimum level of Wi-Fi security required to access that Wi-Fi network, allow user to add more Wi-Fi networks in their devices, type of text and multimedia messages to be allowed and configure whitelist/blacklisted Wi-Fi networks. This profile is supported for SAFE devices only.
- Passcode Specify passcode complexity, minimum length, timeout-before-lock, failed logins before wipe (0=unlimited/never wipe), failed logins before capturing the photo of the possessor and location to recover lost or mislaid device, maximum lifetime of passcode in days and number of previous passcodes from which the new passcode should be unique.
- **Restrictions** Configure default device settings for Wi-Fi connection and cellular network connection, whether users should be able to disable app verification, background traffic, bluetooth on/off, whether camera use is allowed, whether the user is allowed to encrypt data stored on the device and whether or not they are allowed to install applications from unknown sources.
- **VPN** Configure directory user-name, VPN host, connection type and method of authentication for users wishing to connect to your internal network from an external location, whether to forcibly maintain VPN connection and more. This profile is supported for SAFE devices only.
- **Wi-Fi** Specify the name (SSID), security configuration type and password (if required) of your wireless network to which the devices are to be connected. You can add other wireless networks by clicking 'Add new Wi-Fi section'.
- **Other Restrictions** Configure a host of other permissions such as use of microphone, SD card, allow screen capture and more. This profile is supported for SAFE devices only.

To create an iOS Profile

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' > 'Create iOS Profile'

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Endpoint Manager	■ Profiles			Ľ	cense
DASHBOARD >					
DEVICES >	Profiles	Default Profiles			
Susers >		国 「		E.	
CONFIGURATION TEMPLATES	Create	•	Profile Clone Pro		
Profiles	Create An	droid Profile			
Alerts	Create iO	S Profile	5	CREATED BY	
Procedures			s in Sales Dept.	herculespopular2	
Monitors	Croata Wi	ndows Profile	•		
	/		ty Level 1 Pr		
/	Create Lir	ux Profile			
Create iOS Profile				×	
Name *					
Name					
Description					
Description					
				//	
				Create	

- Enter a name and description for the profile and click 'Create'.
- The profile is created and the 'General Settings' for the profile is displayed.

iOS Pro	ofile for Pure	chase Dept		
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Hake Default
eneral				
General	Settings			
	for Purchase Dep ne of the profile (sh		L	
Is Default Disabled				
	n is and iPads used ation of the conten			

If you want this profile to be a default policy, click the 'Make default' button at the top. Alternatively, click the

'Edit' button Edit on the right of the 'General' settings screen and enable the 'Is Default' check box.



• Click 'Save'.

The next step is to add profile sections.

- Each profile section contains a range of settings for a specific management feature.
- For example, there are profile sections for 'Email', 'Single Sign-On', 'LDAP', 'Cellular Networks' and so on.
- You can add as many different sections as you want when building your device profile.
- To get started:
 - Click 'Add Profile Section'
 - Select the component that you want to include in the profile:

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🗯 iOS Pro	of for Purc	hase Dept
Add Profile Section	Export Profile	Clone Profile Delete
Air Play		
Air Print		
APN		
Calendar		
Cellular Netwo	orks	
Certificate		
CCM Certifica	tes ^{no}	own on the device).
Contacts		
ActiveSync Se	-	
Global Proxy H	ITTD	by purchase dept state ts or purpose of the prote
LDAP		
Email		
Passcode		
Proxy		
Restrictions		
Single Sign-Or	n	
Subscribed Ca	alendars	
VPN		
Per-App VPN		
Web Clip		
Wi-Fi		
App Lock		

- **General** Profile name, description and whether or not this is a default profile. These were configured in the previous step. Default profiles are automatically applied upon device enrollment.
- Airplay Allows you to whitelist devices so they can take advantage of Apple Airplay functionality (iOS 7 +)
- Airprint Specify the location of Airprint printers so they can be reached by devices under this profile (iOS 7 +)
- **APN** Specify an Access Point Name for devices on this profile. APN settings define the network path for all cellular data. This area allows you to configure a new APN name (GPRS access point),

username/password and the address/port of the poxy host server. The APN setting is replaced by the 'Cellulars' setting in iOS7 and over.

- **Calendar** Configure CalDAV server and connection settings which will allow device integration with corporate scheduling and calendar services.
- **Cellular Networks** Configure cellular network settings. The 'cellulars' setting performs fulfills a similar role to the APN setting and actually replaces it in iOS 7 and above.
- **Certificate** Upload certificates and this will act as a certificate store from which the certificates can be selected for use in other settings such as 'Wi-Fi, 'Exchange Active Sync', 'VPN' and so on.
- CCM Certificates Request client and device authentication certificates. Note The 'CCM Certificates' section only appears if you have integrated Endpoint Manager with your Sectigo (formerly Comodo CA) account. See Integrate with Sectigo Certificate Manager for more help with this.
- **Contacts** Configure CardDAV account, host and user-settings to enable contact synchronization between different address book providers (for example, to synchronize iOS contacts and Google contacts).
- Active Sync Settings- Specify account name, host, domain and other settings to facilitate connections from devices under this profile to Microsoft Exchange Active Sync servers.
- **Global HTTP Proxy** Global HTTP proxies are used to ensure that all traffic going to and coming from an iOS device is routed through a specific proxy server. This, for example, allows the traffic to be packet-filtered regardless of the network that the user is connected through.
- LDAP Configure LDAP account settings for devices under this profile so users can connect to company address books and contact lists.
- **E-mail** Configure general mail server settings including incoming and outgoing servers, connection protocol (IMAP/POP), user-name/password and SMIME/SSL preferences.
- Passcode Specify passcode complexity, minimum length, timeout-before-lock, failed logins before wipe (0=unlimited/never wipe), failed logins before capturing the photo of the possessor and location to recover lost or mislaid device, maximum lifetime of passcode in days and number of previous passcodes from which the new passcode should be unique.
- **Proxy** Allows you to specify the proxy server, and their credentials, to be used by the device for network connections.
- **Restrictions** Configure default device settings for Wi-Fi connection and cellular network connection, whether users should be able to disable app verification, background traffic, bluetooth on/off, whether camera use is allowed, whether the user is allowed to encrypt data stored on the device and whether or not they are allowed to install applications from unknown sources.
- Single Sign-On iOS 7 +. Configure user credentials that can be used to authenticate user permissions for multiple enterprise resources. This removes the need for a user to re-enter passwords. In this area, you will configure Kerberos principal name, realm and the URLs and apps that are permitted to use Kerberos credentials for authentication.
- **Subscribed Calendars** Specify one or more calendar services which you wish to push notifications to devices under this profile.
- VPN Configure directory user-name, VPN host, connection type and method of authentication for users wishing to connect to your internal network from an external location. This profile is supported for iOS 7 and above.
- VPN Per App Configure VPN as above but on a per-application basis. This profile is supported for iOS 7 and above.
- Web Clip Allows you to push a shortcut to a website onto the home-screen of target devices. This section allows you to choose an icon, label and target URL for the web-clip.
- Wi-Fi Specify the name (SSID), security configuration type and password (if required) of your wireless network to which the devices are to be connected.
- App Lock Configure restrictions on usage of device resources for selected applications.

See **Profiles for iOS Devices** in the main guide for more details on this area. In brief, iOS device profiles are more detailed than Android profiles:

To create Mac OS Profile

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' > 'Create Mac OS Profile'

Endpoint Manager	≡ Profiles	License
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
△ USERS >	l l l l	Ëx 👔
CONFIGURATION TEMPLATES V	Create Import Export Profile Clone Profile	e Delete Profile Exp
Profiles	Create Android Profile	DEATED DV
Alerts	Create iOS Profile	REATED BY
Procedures		erculespopular22@gma
Monitors	Greate Willows Profile	
	Create Linux Profile	
Create macOS Profile		×
Name *		
Name		
Description		
Description		1
		Create

- Enter a name and description for the profile (for example, 'Sales Dept Mac machines', 'Mac Air Books' or 'Field Executives Laptops') and click 'Create'.
- The profile will be created and the 'General Settings' for the profile will be displayed.

Mac 0)S Profile fo	or Stores De	pt			
Add Profile Section	Export Profile	Clone Profile	Delete Profile	🔀 Make Default		
neral	Continuo					
Name * Mac OS Pr	Settings rofile for Stores Da ne of the profile (sh).			, ⊉ Ed
Is Default Disabled						
	n r Mac devices in s nation of the conter		e profile			

- 'Make Default' A 'default' profile is one that is applied automatically to any device which matches its
 operating system. Click this button if you want all MAC OS devices to receive this profile.
- Click 'Save'.

The next step is to add sections to the profile. Each section lets you define settings for a particular security or management feature.

• Click 'Add Profile Section' then select the section you want to add from the list:

🚷 Mac (OS for Stor	es Dept
Add Profile Section	Export Profile	Clone Profile
Antivirus		
Certificate		
Restrictions		
VPN	s	
Wi-Fi		
Remote Cont	rol	
Display name	of the profile (sho	wn on the devic

The new section will appear as a tab under the profile name. You can add as many sections as required to a profile.

General Antivirus	
Antivirus	⊗ Cancel 🖺 Save
Preferences Antivirus	
General Update Parental Control Logging	
 Automaticaly check for program updates Show baloon messages 	

• Configure the settings and click 'Save'.

The new section will become available as a tab. You can configure antivirus settings, certificate settings, device restrictions, VPN connection parameters, Wi-Fi connection parameters and more. If a component is not configured, the device will continue to use existing settings, or settings that have been applied by another EM profile.

• Click 'Save' in each configuration screen for the parameters and options selected in that screen to be added to the profile.

See Profiles for Mac OS Devices in the main guide for more details on this area. In brief:

- **Antivirus** Enable on-access scanning of files, configure scan and alert options, set alert time out period, maximum size for files to be scanned, files to be excluded and more.
- Certificates Upload certificates and this will act as a certificate store from which the certificates can be selected for use in other settings like 'Wi-Fi and 'VPN'.
- CCM Certificates Request client and device authentication certificates. Note The 'CCM Certificates' section only appears if you have integrated Endpoint Manager with your Sectigo (formerly Comodo CA) account. See Integrate with Sectigo Certificate Manager for more help with this.
- Restrictions Configure restrictions on device functionality and features, iCloud access and so on.
- VPN Configure directory user-name, VPN host, connection type and method of authentication for users wishing to connect to your internal network from an external location and more.
- Wi-Fi Specify the name (SSID), security configuration type and password (if required) of your wireless network to which the devices are to be connected.
- **Remote Control** Allows you to configure settings for remote takeover and notifications which are shown to end-users before and during a remote control session.

To create a Windows profile

• Click 'Configuration Templates' > 'Profiles' > 'Create' > 'Create Windows Profile':

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Endpoint Manager	≡ Profiles	cense
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
△ USERS >	t transformed to the transformed	
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete Profile	
Profiles Alerts	Create Android Profile CREATED BY Create iOS Profile	
Procedures Monitors	Create mac 03 Profile Create Windows Profile Create Linux Profile	2@gma
Create Windows Profile	×	
Name *		
Name		
Description		
Description		
	Create	

- Enter a name and description for the profile (for example, 'Sales Dept endpoints', 'Win7 Machines' or 'Field Executives Laptops') and click 'Create'.
- The profile will be created and the 'General Settings' for the profile will be displayed.

Financ	ce Departme	ent Window	s Computer	S		
Add Profile Section	Export Profile	Clone Profile	Delete Profile	📙 Make Default		
neral General	Settings					
Name * Finance De Is Default Disabled	epartment Windov	vs Computers				
Descriptio Profile for	n Windows devices	in finance dept.				

- Click 'Edit' if you wish to modify basic profile settings:
 - 'Is Default?' If a policy is set as 'Default' then it will be automatically applied to every Windows device. You can have multiple 'default' policies to address different requirements.
 - Alternatively, you can select a policy and click the 'Make Default' button.
- Click 'Save'.

The next step is to add the components for the profile.

• Click the 'Add Profile Section' drop-down button and select the component that you want to include in the profile.

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Finance Departme	ent Windo	ows Comp	uters	
Add Profile Settion	Clone Profile	Delete Profile	لی Make Default	
Antivirus				
Updates				
File Rating				
Firewall				
HIPS				
Containment	mputers			
VirusScope				
Valkyrie				
Global Proxy				
Clients Proxy				
Agent Discovering Settings				
UI Settings				
Logging Settings				
Client Access Control				
External Devices Control				
Monitors				
Procedures				
Remote Control				
Miscellaneous				

The settings screen for the selected component will open.

· Configure the settings and parameters and click 'Save'

The new section will become available as a tab in this interface. You can configure Antivirus, Firewall, Containment, File Rating, Valkyrie, HIPS, Monitoring, Procedures, External devices control, Remote control, VirusScope, Logging, Update and Miscellaneous settings. In addition, you can configure the Proxy and Agent Discovery Settings for each profile, for use in Firewall and HIPS rules configured for the profile.

If a component is not configured, the device will continue to use existing, user-defined settings or settings that have been applied by another EM profile.

• Click 'Save' in each configuration screen for the parameters and options selected in that screen to be added to the profile.

See Profiles for Windows Devices in the full guide for more information on these settings. In brief:

- **Antivirus** Enable on-access scanning of files, configure scan and alert options, set alert time out period, maximum size for files to be scanned, files to be excluded and more.
- **Updates** Set the conditions for Comodo Client Security (CCS) to automatically download and install program and virus database updates.

- File Rating Enable cloud lookup for checking reputation of files accessed in real-time, configure options for files to be trusted and detecting potentially unwanted applications. For more details on File Rating in CCS, refer to the help page explaining File rating Settings in CCS online help guide.
- **Firewall** Enable/Disable the Firewall component, configure Firewall behavior, add and manage Application and Global Firewall rules and more. See help page explaining Firewall Settings in CCS online help guide, for more details on Firewall in CCS.
- HIPS Enable Host Intrusion Prevention System (HIPS) and its behavior, configure HIPS rules and define
 Protected Objects at the endpoints. See help page explaining HIPS Settings in CCS online help guide,
 for more details on HIPS in CCS.
- Containment Enable Auto-containment of unknown files, add exclusions, and configure containment behavior and alert options and view and manage Containment Rules for auto-containing applications. See help page explaining Containment in CCS online help guide, for more details on Containment in CCS.
- VirusScope Enable VirusScope that monitors the activities of processes running at the endpoints and generates alerts if they take actions that could potentially threaten your privacy and/or security and configure options for alert generation. See help page explaining VirusScope, for more details on VirusScope in CCS online help guide.
- **Valkyrie** Valkyrie is a cloud based file analysis system. look-up system. It uses a range of static and dynamic detectors including heuristics, file look-up, real-time behavior analysis and human expert to analyze the submitted files and determine if the file is good or bad (malicious). You can enable Valkyrie and its components and set a schedule for submitting unknown files identified from the endpoints.
- **Global Proxy** Specify a proxy server through which endpoints should connect to external networks like the internet.
- Clients Proxy Specify a server through which Comodo Client Security (CCS) and Communication Client (CC) should connect to EM and Comodo servers.
- Agent Discovery Settings Specify whether or not communication client should send logs to EM about antivirus and containment events.
- **UI Settings** Configure the appearance of the communication client (CC) and Comodo Client Security (CCS). You can re-brand CC and CCS with your own company name, logo, product name and product logo and select which components of CCS should be visible to end-users.
- Logging Settings Enable event logs, configure max. log file size and other settings.
- **Monitors Settings** Configure performance and availability conditions for various events and services. An alert will be triggered if the conditions are breached. For example, you can monitor free disk space, service and web page availability, CPU/RAM usage, device online status and more.
- CCM Certificates Request client and device authentication certificates. Note The 'CCM Certificates' section only appears if you have integrated Endpoint Manager with your Sectigo (formerly Comodo CA) account. See Integrate with Sectigo Certificate Manager for more help with this.
- Procedures Allows you to add, view, delete and prioritize procedures which have been added to a profile.
- **Remote Control** Allows you to configure settings for remote takeover and notifications which are shown to end-users before and during a remote control session.
- **Miscellaneous** -Monitor the registry for changes to auto-run entries, services and scheduled tasks by unrecognized files.

To create a Linux Profile

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' > 'Create Linux Profile'

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Endpoint Manager	≡ Profiles	License
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
<u>A</u> USERS >		8
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete	Profile Exp
Profiles	Create Android Profile	37
Alerts	Create iOS Profile	
Procedures	Create macOS Profile s in Sales Dept. herculespo	pular22@gma
Monitors	Create Windows Profile	
Create Linux Profile	Create Linux Profile	<
Name *		
Name		
Description		
Description		
		_
	Create	

- Enter a name and description for the profile
- Click the 'Create' button

The Linux profile will be created and the 'General Settings' section will be displayed. The new profile is not a 'Default Profile' by default.

Add Profile Section Export Profile Clone Profile Delete Profile Make Default General Ceneral Edit Name Linux Profile for Stores Dept is default Disabled Disabled Description profile for Linux machines in the Stores department	👌 Linux F	Profile for \$	Stores Dep	ot			
General Settings Edit Name Linux Profile for Stores Dept Is default Disabled Description	Add Profile	_					
Name Linux Profile for Stores Dept Is default Disabled Description		_	_	_	_	_	
Disabled Description	Name Linux Profile f						Edit
	Disabled Description	ux machines in t	the Stores depa	artment			

- If you want this profile to be a default policy, click the 'Make Default' button at the top. Alternatively, click the 'Edit' button on the right of the 'General' settings screen and enable the 'Is Default'.check box.
- Click 'Save'.

The next step is to add the components for the profile.

• Click the 'Add Profile Section' drop-down button and select the component from the list that you want to include for the profile.

👌 Linux F	Profile for	Stores Dep	ot			
Add Profile Section	Export Profile	Clone Profile	E Delete Profile	لظی Make Default		
Antivirus	Jo					
Updates	0					
UI Settings						
Logging Settin	ngs					
Client Access	Control					

The settings screen for the selected component will be displayed. An example is shown below:

ntivirus				😣 Cancel	🖺 Save
Scanner Settings	Scan Profiles Scl	heduled Scans			
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions		
Not supported on Debi	an 8.x				
Realtime scanning					
On access					~
Do not scan files large	than (MB) *				
20					
Keep an alert on the s	creen for (seconds) *				

• Configure the settings and click 'Save'.

The new section will become available as a tab. You can configure antivirus settings, interface language settings, logging settings, password protection to the CCS application on the endpoint and more. If a component is not configured, the device will continue to use existing, user-defined settings or settings that have been applied by another EM profile.

• Click 'Save' in each configuration screen for the parameters and options selected in that screen to be added to the profile.

See **Profiles for Linux Devices** in the main guide for more details on this area. In brief:

- **Antivirus** Enable on-access scanning of files, configure scan profiles, timetable scheduled scans, set maximum size for files to be scanned, files to be excluded and more.
- **Updates** Enable/disable program and virus signature database updates, configure the server from which the updates are to be downloaded and more.
- UI Settings- Select the interface language for CCS on the endpoint.
- Logging Settings Enable event logs, configure max. log file size and other settings.
- Client Access Control Password protect access to the CCS application on the endpoint.

Step 7 - Apply profiles to devices or device groups

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
- Select the device you want to manage and click 'Manage Profiles':

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𝒫 Search group name	C Group Management Device Management	
😡 Show all	<u>e</u> <u>e</u> 2 70	
🔹 🖶 Default Company	Enroll Device Remote Control Remote tools Run Procedu	re Manage Profiles Install or Updat Packages
+ 🖨 frontfork	Ø Search for devices	
+ 🖶 Saddle and Pedals	Sedicition devices	
	OS NAME ACTIVE COMP	PONENTS PATCH STATUS
	🗆 📲 🛛 DESKTO 🖓 🗛 AG AV FW	CO <u>A</u> 1
	🗌 🚫 🖲 Herald M. 🛛 🗛 🗛	
	🔳 📰 • DESKTO 🤹 AG AV EV	CO <u>A</u> 1
	🗆 👌 Joe Linux 🛛 🗛 🗛	
Manage Profiles of DESK	TOP-D80SVJJ	
O		
Add Profiles		
Remove Profiles		O Y
OS TYPE PROFILE NAM	IE	OWNER
Finance Depa	rtment Windows Computers	herculespopular22@gmail
First Profile		herculespopular22@gmail

The screen lists all profiles active on the device.

Click 'Add Profiles'

This will open a list of all suitable profiles chosen device, excluding those that are already applied.

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Mar	age Profil	es of DESKTOP-D80SVJJ	
Add Pro	files		
I R	emave Profiles		S Y
	OSTYPE	PROFILE NAME	OWNER
		Finance Department Windows Computers	herculespopular22@gmail
Add	Profiles to	o DESKTOP-D80SVJJ	
💾 s	ave		Q Y
	OS TYPE	PROFILE NAME	OWNER
		Default Profile for Windows Devices	herculespopular
		Default Profile for Windows	herculespopular
	-	Suspicious Files Folder for John	herculespopular
	4	Monitoring Important Data	herculespopular
		Patch Procedure	herculespopular

- Select the profiles you want to apply to the device
- Click 'Save' at top-left to apply the profiles to the device.

To apply profiles to a group of devices

The procedure is similar to adding profile(s) to a device except for the second step.

- 1. Click the 'Devices' tab on the left and choose 'Device List ' from the options.
- 2. Click the 'Group Management' tab
- 3. Choose the Company to view the list of groups in the right pane (for C1 MSP customers)
- 4. Click the name of the device group
- 5. Click 'Manage Profiles'
- 6. Select the profile(s) to be applied to the devices in the group
- 7. Click 'Add Selected' on the top left to add the selected profile(s) to the device group

If you have successfully followed all 7 steps of this quick start guide then you should have a created a basic working environment from which more detailed strategies can be developed. Should you need further assistance, each topic is covered in more granular detail in the full administrator guide. If you have problems that you feel have not been addressed, then please contact mdmsupport@comodo.com.

1.4. Login into the Admin Console

After sign-up, you will receive an email containing your username and an account activation link. Click the link to activate your account and set your password. Once activated, you can login to Endpoint Manager using any browser.

- C1 and ITarian customers:
 - Login to your Comodo One or ITarian account
 - Click 'Applications' > 'Endpoint Manager'.
- Endpoint Manager standalone customers:
 - Login at: https://<*your company name*>.cmdm.comodo.com/user/site/login where <your company name> is your Endpoint Manager company name.
 - We sent you this URL in your account confirmation email.
- Username and password are case sensitive. Please make sure that you use the correct case and caps lock is OFF.
- Click 'I forgot my password' if you can't recall your password. A mail will be sent to your registered email with a link to reset your password.

		GEMENT ~ 🖶 REPORTS 🍹 STORE
	VIC Endpoint Manager	
	RMM V	
Customer: All	Patch Management	
	Device Management	
Help Actions	Procedures	
	Endpoint Protection	
	Service Desk	
	Dome Shield	
	CWatch EDR	
	Quote Manager	
	All Applications	

The EM welcome screen is shown after logging-in:

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Endpoint Manager	E Welcome	s 🔁 🗿 🕰 Logout (herculespopular22@gmail.com)
DASHBOARD DEVICES	Start to manage devices with a few simple steps.	er (EM)
 USERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS 	 Add Users Open <u>User List</u> Click «Create User» Or add users via <u>Active Directory</u> Create <u>User Groups</u> if required 	Enroll Devices • Open <u>User List</u> • Select users • Click «Enroll Device» • User(s) will receive enrollment emails
	Configure Device Profile • Go to <u>Profiles</u> and click «Create» • Choose OS, name and description • Open the profile and click «Add» to configure security policy	Associate Profile With Devices Open <u>Device List</u> Select target device Click «Manage Profiles», then «Add Profile» Choose profile and click «Save»

The screen contains shortcuts to enroll users and start managing devices in a few steps:

- Add Users Enroll users by clicking the icon and choosing 'Create User' from the 'User List' interface. See Create New User Accounts' for more details. The tile also contains shortcut to 'Active Directory' settings interface to integrate an AD server and import the user groups from it. See Import User Groups from LDAP for more details.
- Enroll Devices Enroll users' devices for management by clicking the ² icon and selecting the user(s) from the 'User List' interface and clicking 'Enroll Devices' from the top. See Enroll User Devices for Management for more details.
- Configure Device Profile Create and manage configuration profiles for Android, iOS, Windows and Linux devices by clicking the icon. See Create Configuration Profiles for more details.
- Associate Profile With Devices Deploy and manage configuration profiles on devices by clicking the
 icon. See Manage Devices for more details.

Note - You need to configure your firewall to allow Endpoint Manager to communicate with our servers and your managed devices. IPs, host-names and ports are detailed in **Appendix 1**.

2. The Admin Console

The admin console is the nerve center of Endpoint Manager (EM), allowing you to add users, enroll devices, apply configuration profiles, run virus scans and more.

Endpoint Manager	=	E Audit	License Op	tions 🔫) 👔 🐣 Logout (her	culespopular22@gm	ail.com)
DASHBOARD	~						
Audit						💥 Cus	stomize
Compliance		Operating System		O II	Device Types		0
Valkyrie							
Reports	0		Android	2		Smartphone	1
Notifications			<u> </u>				
Audit Logs		42.9%	O ios	0	71.4%	O Tablet	1
DEVICES	>		O Windows	3		O PC	5
A USERS	>		O macOS	1		O Windows Serve	er O
CONFIGURATION TEMPLATES	>		O Linux	1		O Unknown	0
	>						
APPLICATIONS	>						
SECURITY SUB-SYSTEMS	>	Ownership Types		O II	Security Client Ver	rsion (Windows)	0
🔅 SETTINGS	>						
			O Corporate	2		0 10.8.0.7021	1
		42.9%	O Personal	2	33.3%	0 10.8.0.7003	1

Once logged-in, admins can access different areas of the console using the menu on the left.

Dashboard - Contains charts and graphs which show the structure and security status of devices in your network. See **The Dashboard** for more details.

Devices - Manage and control enrolled devices, remotely install applications, generate sirens, wipe, lock and power off enrolled devices, remotely install and manage apps on devices, manage device groups and more. See **Devices** and **Device Groups** for more details.

Users - Create and manage users and user groups, enroll of their devices and assign configuration profiles to devices. See **Users and User Groups** for more details.

Configuration Templates - Profiles govern a device's network access rights, scan schedule and other system settings. You can create and manage profiles for iOS, Android Windows, Mac OS and Linux devices. See **Configuration Templates** for more details.

Application Store - Repository of applications which can be pushed to iOS/Android/Windows devices directly from EM. See **Application Store** for more details.

Applications - View and manage applications installed on Android, iOS and Windows devices. Manage patches on Windows devices. See **Applications** for more details.

Security Sub-Systems - View event logs, run AV scans and database updates. View and manage malware, quarantined items and contained applications. See **Security Sub-Systems** for more details.

Certificates - Manage certificates issued to users and devices by Sectigo Certificate Manager (SCM). The 'Certificates' tab is available if you have integrated Sectigo Certificate Manager with your account. See **Manage Certificates Installed on Devices** for more details.

Note - Sectigo Certificate Manager is the new name for Comodo Certificate Manager. We are in the process of updating the Endpoint Manager UI to reflect this name change. **Click here** if you want to read more about the Comodo CA/Sectigo rebrand.

Settings - Configure email notifications, active directory, Google Cloud Messaging (GCM) and Apple Push Notification (APN) certificates, integration with Sectigo Certificate Manager and more. You can also manage subscriptions, renew/upgrade licenses and view support information. See **Configure Endpoint Manager** for more details.

The buttons on the top of the interface allows to view the EM notifications, create users and enroll devices, expand/collapse the left side tabs and logout.

	Clicking this button will display the 'Create User' and 'Er 'Create New User Accounts' and 'Enroll Users' Devic more details.	•
0	Contains links to the online user guide, to the Comodo C Enterprise forums and allows you to email our support of	
≡	Clicking the menu button will expand/collapse the menu the menu tabs are in collapsed state, placing the mouse display the sub menus under it. Endpoint Manager	
	DASHBOARD V	
	Audit	
	Compliance	Opera
	Valkyrie	
	Reports (2)	
	Notifications	
	Audit Logs	
	DEVICES >	
	<u>A</u> USERS >	
Endpoint Manager	Click the logo to open the 'Welcome' screen. See Login for more details.	i into the Admin Console
名 Logout (coyoteewile@yahoo.com)	The username of the person currently logged in.Click this to log out of EM console.	



License Options

Allows you to upgrade to the 'Premium' or 'Managed' version of EM.

3. The Dashboard

• Click 'Dashboard' in the left menu to open this page.

The dashboard shows real-time data about the operating system, connection status and security posture of all devices enrolled to Endpoint Manager (EM). It contains pie charts showing device types, platforms, ownership, scan status and compliance status. The dashboard also lets you view Valkyrie results, a list of notifications, and to generate reports.

The dashboard is divided into six sections:

- Audit Charts which show the operating systems and client versions installed on devices on your network. Also contains charts which show the types of devices in your network, and whether the devices are personal or corporate. See the Audit section for more details.
- Compliance Statistics which detail how compliant your devices are with EM security policies. For example, device connection status, devices with viruses, devices with blacklisted applications, rooted and jailbroken devices, and device scan status. See Compliance for more details.
- Valkyrie A summary of verdicts on unknown files submitted to the Valkyrie file analysis system. See Valkyrie for more details.
- **Reports** A list of all reports generated by Endpoint Manager. You can also create new reports from here. See **Reports** section for more information.
- Notifications A list of notifications sent to the administrator by EM. See Notifications for more details.
- Audit Logs A list of actions taken on managed devices by admins and staff. Example actions include applying profiles, remote installation of packages and more. See Audit Logs for more details.

Endpoint Manager	≡ Audit	License Options	🗜 🗿 🐣 Logout (hero	ulespopular22@gmail.com)
DASHBOARD	/			
Audit				🔀 Customize
Compliance	Operating System	g 🛙	Device Types	O II
Valkyrie				
Reports Notifications		Android 2		O Smartphone 1
Audit Logs	42.9%	O iOS 0	71.4%	O Tablet 1
DEVICES	42.9%	O Windows 3	71.470	O PC 5
A USERS		O macOS 1		O Windows Server 0
CONFIGURATION TEMPLATES	• • • • • • • • • • • • • • • • • • •	O Linux 1		O Unknown 0
APPLICATION STORE				
APPLICATIONS				
SECURITY SUB-SYSTEMS	Ownership Types	O II	Security Client Vers	sion (Windows) 🏾 🥥 📗
SETTINGS				
		O Corporate 2		0 10.8.0.7021 1
	42.9%	O Personal 2	33.3%	0 10.8.0.7003 1

Audit

Click 'Dashboard' on the left then 'Audit'

Click 'Customize' at top-right if you want to change which charts are shown on the page

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Audit		- 🕞 👔 온 Logout (herculespo	opular22@gmail.com
			Custamize
Ор	erating System	O Device Types	Q
	O Android 0 i0S		Smartphone 1 Tablet 1
<u>Audit</u>	/ Options	🕞 ② 온 Logout (hercules	spopular22@gmail.c
Sele	cting Data Set for Audit		Back
	Ŭ		
	DATA SET	DESCRIPTION	ENABLE / DISABLE
	DATA SET Operating System	DESCRIPTION Shows device counts based on operating systems	ENABLE / DISABLE
	Operating System	Shows device counts based on operating systems Shows device counts based on form factor of the	ON
	Operating System Device Types	Shows device counts based on operating systems Shows device counts based on form factor of the devices like smartfone, PC, etc. Shows device counts based on the owner	
	Operating System Device Types Ownership Types	Shows device counts based on operating systems Shows device counts based on form factor of the devices like smartfone, PC, etc. Shows device counts based on the owner information of the device Show device counts based on the Security client	ON
	Operating System Device Types Ownership Types Security Client Version (Windows)	Shows device counts based on operating systems Shows device counts based on form factor of the devices like smartfone, PC, etc. Shows device counts based on the owner information of the device Show device counts based on the Security client version (Windows) Show device counts based on the Communication	ON

- Use the 'On/Off' switches to add or remove charts from the dashboard
- Click the 'Customize' icon

Customize to view the number of charts removed from the default view

• Click and hold the icon at top right of a tile to move it around the page.

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Operating System

Shows enrolled devices by operating system. Place your mouse cursor over a sector or the legend to see further details.

• Click on an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Android' in the legend will open the 'Device List' page displaying the list of Android devices. See '**Devices**' for more details.

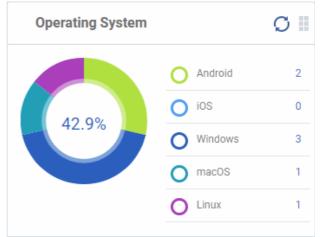


Communication Client Version (Windows)

The versions of Communication Client installed on Windows devices on your network. This is the agent which sends updates to the EM console.

- The number of devices using each version is shown to the right of the version number.
 - Click the number to view all devices using that version.
- The latest version of the client is shown underneath the chart.
- Update to the latest version Click the number, select the target devices, then click 'Install or Update Packages'.

See Remotely Install and Update Packages on Windows Devices for more details.



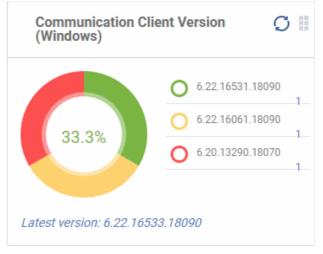
Security Client Version (Windows)

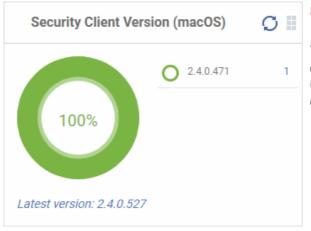
The versions of Comodo Client Security installed on Windows devices on your network. Comodo Client Security is the antivirus/security software on an endpoint.

- The number of devices using each version is shown to the right of the version number.
 - Click the number to view all devices
 using that version.
- The latest version of the client is shown underneath the chart.

Update to the latest version - Click the number, select the target devices, then click 'Install or Update Packages'.

See **Remotely Install and Update Packages on Windows Devices** for more details.



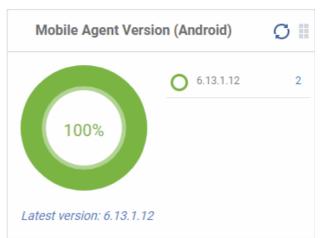


Security Client Version (Mac OS)

The versions of the security client installed on MAC OS devices on your network. The security client is the Comodo Client Security for MAC (CCS for Mac) software on an endpoint.

- The number of devices using each version is shown to the right of the version number.
 - Click the number to view all devices using that version.
- The latest version of the client is shown underneath the chart.
- Update to the latest version Click the number, select the target devices, then click 'Install or Update Packages'.

See **Remotely Install Packages on Mac OS Devices** for more details.



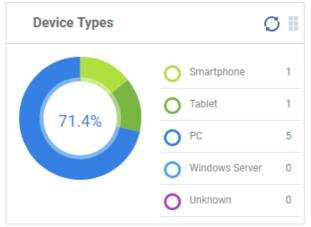
The versions of the mobile agent installed on Android

device in your network.

Mobile Agent Version (Android)

• The number of devices using each version is shown to the right of the version number.

- Click the number to view all devices using that version.
- The latest version of the client is shown underneath the chart.
- Update to the latest version Click the number, select the target devices, then click 'Install or Update Packages'.



Device Types

Shows the composition of your device fleet by device type. Place your mouse cursor over a sector see further details.

• Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Tablet' in the legend will open the 'Device List' page displaying the list of tablet devices. See '**Devices**' for more details.

Ownership Types

Ownership types can be 'Corporate', 'Personal' or 'Not Specified'.

• Click an item in the legend to view the

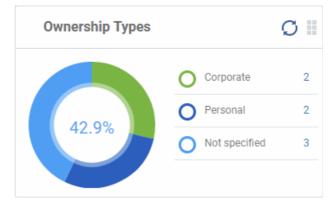
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respective 'Device List' page.

For example, clicking on 'Personal' in the legend will show all devices in that category. See 'Devices' for more details.

Change ownership type:

 Click 'Devices' > 'Device List' > click a device name > Click 'Owner' button > 'Change ownership'.



Compliance

•

The compliance dashboard monitors the status of managed devices with regards to various security and activity criteria. Charts shown include, devices with viruses, devices with blacklisted applications, device requiring database updates, rooted and jail-broken devices, devices which are unresponsive and more.

To view the compliance status of devices, click 'Dashboard' in the left navigation then 'Compliance'.

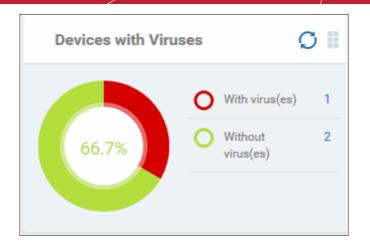
Endpoint Manager			🕀 ② 各 Logout (herculespopular22@gmail.com)
Audit	~		💥 Customize
Compliance Valkyrie Reports Notifications Audit Logs JEVICES USERS CONFIGURATION TEMPLATES APPLICATION STORE	2 > > > >	Active and Inactive Devices Last 24 Hours C	Devices with Viruses Image: With virus(es) 3 Image: With virus(es) 3 Image: With virus(es) 3
	>	Devices with Blacklisted Applications 🛛 💭	Devices Responses for Virus Scan 📿 🏢
SECURITY SUB-SYSTEMS	>	50% With blacklisted applications 1 Without blacklisted applications 1	71.4% Scan response received No response received No response received 2

- To customize the charts shown in the interface, click the 'Customize' button
- · To refresh the data in a tile, click the 'Refresh' icon at top right
- To move tiles around, click and hold the grid icon in the top right corner and drag the tile to the desired position.

Devices With Viruses

Shows how many enrolled devices are affected by viruses and how many are clean. Placing the mouse cursor over a sector or the legend displays further details. See **Antivirus Scans** for details about scanning for viruses on enrolled devices.

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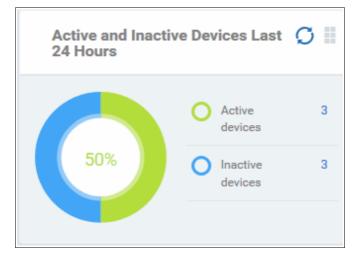


• Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'With virus(es)' will open the 'Device List' page displaying devices that contain viruses. See 'Devices' for more details.

Active and Inactive Devices Last 24 Hours

Shows the connectivity status of enrolled devices. Devices which have not contacted EM for more than 24 hours are marked as 'inactive'. Placing the mouse cursor over a sector or the legend displays the further details.



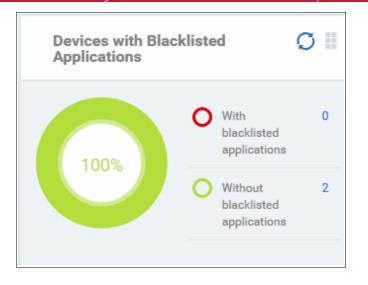
Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Active Devices' will open the 'Device List' page displaying the list of active devices. Similarly clicking on the 'Inactive Device' legend will open the 'Device List' page displaying the list of inactive devices. The devices screens allow you to manage the enrolled devices. See 'Devices' for more details.

Devices with Blacklisted Applications

Displays how many devices contain blacklisted apps versus those that are free of blacklisted apps. Placing the mouse cursor over a sector or the legend displays further details. See **Applications** for details about adding and removing apps from blacklist.

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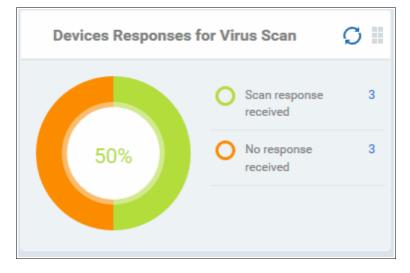


• Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'With Blacklisted Applications' legend will open the 'Device List' page displaying the list of devices that have blacklisted applications on them. See 'Devices' for more details.

Devices Responses for Virus Scan

Shows how many devices have responded to virus scan requests. Placing the mouse cursor over a sector or the legend displays the further details. See **Antivirus Scans** for details about scanning for viruses on enrolled devices.



Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'With response on virus scan' legend will open the 'Antivirus Device List' page displaying the list of devices that are responding to scan command.

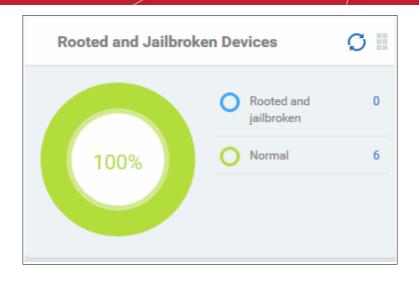
The 'Antivirus Device List' page allows you to run antivirus scans on selected devices. See Antivirus Scans for more details.

Rooted And Jail-broken Devices

•

Shows how many devices in your fleet are are rooted or jail-broken. Placing the mouse cursor over a sector or the legend displays the further details.

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Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Normal' in the legend will open the 'Device List' page displaying the list of devices that are normal, that is, not rooted or jail-broken. See 'Manage Devices' for more details.

Devices With Device Management Apps

Shows how many devices have the communication client. Android, Windows. Mac OS and Linux devices can only be enrolled with the EM app/communication Client (CC). iOS devices communicate with EM via the EM profile that was installed during enrollment and do not require the app. However, installing the app will provide enhanced functionality such as device location and the ability to send messages to the device from the admin panel.



Placing the mouse cursor over a sector or the legend displays the further details.

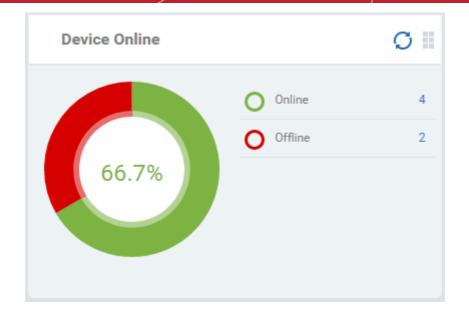
• Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'With device management App' will open the 'Device List' page displaying the list of devices that have the EM app installed. See 'Manage Devices' for more details.

Device Online

Shows enrolled devices by online/offline status. Devices will shown as offline if they are turned-off, are not communicating with EM for other reasons, or if Communication Client is not running. Placing the mouse cursor over a sector or the legend displays the further details.

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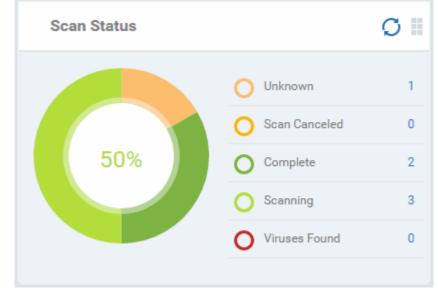


· Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Online' will open the 'Device List' page displaying the list of devices that are online. See 'Manage Devices' for more details.

Scan Status

Shows the progress and results of antivirus scans on enrolled devices. Placing the mouse cursor over a sector or the legend displays the further details.



• Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Virus Found' in the legend will open the 'Antivirus Device List' page displaying the list of devices in which the malware were detected. See 'Antivirus Scans' for more details.

Antivirus DB Update

Shows the progress and results of AV database updates on enrolled devices. Place your mouse cursor over a sector to view extra details.



Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Complete' in the legend will show devices which have the latest virus database. See **Antivirus Scans'** for more details.

Security Product Configuration

Shows how many of your enrolled devices have 'Safe' or 'Not Protected' statuses. 'Not Protected' means:

- · Comodo Client Security (CCS) is not installed on the devices
- · CCS is installed but Anti-virus is not enabled in the deployed profiles on the devices

Placing the mouse cursor over a sector or on the respective legend displays the details.



• Click an item in the legend to view the respective 'Device List' page.

For example, clicking on 'Safe' will open the 'Device List' page displaying the list of devices that have Antivirus installed. See 'Devices' for more details.

Valkyrie

 Valkyrie is a cloud-based file analysis service that tests unknown files with a range of static and behavioral checks in order to identify those that are malicious.



- To use the service, apply a profile to CCS that contains the 'Valkyrie' component.
 - Click 'Configuration Templates' > 'Profiles'
 - Click the name of the profile you want to edit, or click 'Create' to make a new profile
 - Click the 'Add Profile Section' button > 'Valkyrie'
 - Click 'Save'
- All results will be displayed in the Valkyrie dashboard. See Valkyrie Settings in Creating Windows Profile for more details.

Note: The version of Valkyrie that comes with the free version of EM is limited to the online testing service. The Premium/Managed version also includes manual file testing by Comodo research labs, helping enterprises quickly create definitive whitelists of trusted files. Valkyrie is also available as a standalone service. Contact your Comodo account manager for further details.

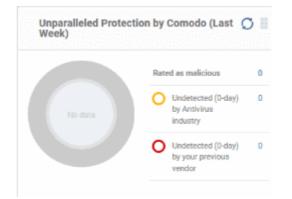
Endpoint Manager		≡ Valkyrie	License Options	ि 🔁 👔 🕂	erculespopular22@gmail.com)
Audit Compliance	~	Unparalleled Protectio	n by Comodo (Last 🎧 🏢	Unparalleled Protectio	🔀 Customize
Valkyrie Reports Notifications Audit Logs DEVICES USERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS	2 > > > >	Week)	Rated as malicious 0 Undetected (0-day) by Antivirus industry 0 Undetected (0-day) by your previous vendor 0	Time)	Rated as malicious 0 Undetected (0-day) by Antivirus industry 0 Undetected (0-day) by your previous vendor 0
SECURITY SUB-SYSTEMS	>	File Statistics (Window	vs Devices) Unrecognized 310 Contained 22 Quarantine 43 Globally trusted 1 Globally blocked 3	Valkyrie File Verdicts (No data	(Last Week) C III

Unparalleled Protection by Comodo (Last Week)

Shows the number of threats identified by Valkyrie over the past week versus the user's previous vendor and the antivirus industry as a whole.

Place the mouse cursor over a sector or the legend to see the percentage of number of files in a particular category.

See Manage File Trust Ratings on Windows Devices for more details on Windows File List screen.





File Statistics (Windows Devices)

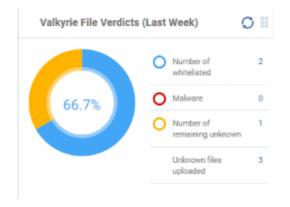
Shows the trust rating and status of files on your network.

See Manage File Trust Ratings on Windows

Devices, for more details on Windows File List screen

• Click any item in the legend will to open the respective 'File List' page.

For example, clicking on 'Unrecognized' will open the 'Application Control' > 'Unrecognized' page displaying the list of unrecognized files detected from enrolled devices. See 'Manage File Trust Ratings on Windows Devices.' for more details.



Valkyrie File Verdicts (All Time)

Displays Valkyrie trust verdicts on unknown files for the lifetime of your account. This includes the number of unknown files identified as malicious, those that remain unknown, and those that were white-listed (trusted). The total amount of unknown files analyzed is shown at the bottom.

Place your mouse cursor over a sector or the legend to view the percentage of files in that category.

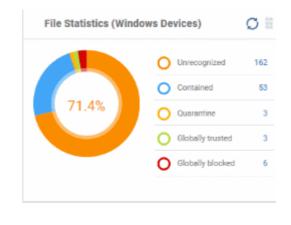
See Manage File Trust Ratings on Windows Devices, for more details on Windows File List screen.

Unparalleled Protection By Comodo (All Time)

Shows the number of threats identified by Valkyrie since installation versus the user's previous vendor and the antivirus industry as a whole.

Place the mouse cursor over a sector or the legend to see the percentage of number of files in a particular category.

See Manage File Trust Ratings on Windows Devices for more details on Windows File List screen.

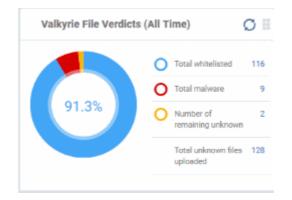


Valkyrie File Verdicts (Last Week)

Displays Valkyrie trust verdicts on unknown files for the previous 7 days. This includes the number of unknown files identified as malicious, those that remain unknown, and those that were white-listed (trusted). The total amount of unknown files analyzed is shown at the bottom.

Place your mouse cursor over a sector or the legend to view the percentage of files in that category.

See Manage File Trust Ratings on Windows Devices, for more details on Windows File List screen.



Reports

Endpoint Manager is capable of generating a wide variety of reports covering system and malware activity across your entire fleet of devices.

- Click 'Dashboard' on the left then select 'Reports' to open the 'Reports' interface.
- The interface allows you to generate and view/download different types of reports.

Endpoint Manager		≡ Repo	rts	License	Options 🔁 🤅) နို Logout (hercule	spopular22@gmail.com)
H DASHBOARD	~						
Audit		Ē	6 🗈	<u>ê</u>			Q
Compliance		Generate	e Report Delete Do	ownload			Y
Valkyrie							,
Reports	0		NAME	TYPE	STATUS	CREATED BY	CREATED AT
Notifications							
Audit Logs			Patch Management	Comma-Separated V	Not downloaded	herculespopular22@g	2018/10/22 02:41:18
DEVICES	>		User List 2018-09-1	Comma-Separated V	Downloaded	herculespopular22@g	2018/09/17 03:59:11
A USERS	>		Current Malware Lis	Comma-Separated V	Downloaded	herculespopular22@g	2018/09/14 12:23:45
CONFIGURATION TEMPLATES	>		Quarantined Files 20	Comma-Separated V	Not downloaded	herculespopular22@g	2018/09/12 03:06:05
APPLICATION STORE	>		Profiles 2018-07-17	Comma-Separated V	Downloaded	herculespopular22@g	2018/07/17 03:12:13
APPLICATIONS	>		Android Store 2018	Comma-Separated V	Downloaded	herculespopular22@g	2018/07/11 12:33:12
SECURITY SUB-SYSTEMS	>		Application Control	Comma-Separated V	Not downloaded	herculespopular22@g	2018/07/11 12:22:47
SETTINGS	>		Application Control	Comma-Separated V	Downloaded	herculespopular22@g	2018/07/11 12:09:07

	Reports - Column Descriptions
Column Header	Description
Name	The subject of the report.
	 Click the name to view details of the report and to download it. See the explanation of viewing report details' for more details.
Туре	The file format of the report.
Status	Whether or not the report has been downloaded by any user.
Created By	The admin who generated the report.
	 Click the admin name to view their details. See View User Details if you need help with this.
Created At	The date and time the report was generated

• Click any column header to sort items in ascending/descending order of items in that column.

· Click the funnel icon at the top right to filter reports and search for reports

Reports can be generated in two ways:

- 1. From the 'Dashboard' > 'Reports' interface You can generate following types of reports from the 'Reports' interface
 - Android Antivirus
 - Windows Antivirus
 - Windows Malware List



- Windows Top Malware
- Windows Quarantine
- Hardware Inventory

These reports are generated in spreadsheet (.xls) file format. See generating reports for more details.

- 2. From the following interfaces:
- 'Users' main menu
 - User List Click 'Users' > 'User Groups' > 'Export'. Click here for more details.
 - User Groups Click 'Users' > 'User Groups' > 'Export'. Click here for more details.
 - Role Management:
 - Roles Click 'Users' > 'Role Management' > 'Roles' > 'Export'. Click here for more details.
 - Users Click 'Users' > 'Role Management' > 'Users' > 'Export'. Click here for more details.
- 'Devices' main menu
 - Device List Click 'Devices' > 'Device List' > 'Export'. Click here for more details.
 - Device Details > File List Click 'Devices' > 'Device List' > Any Windows Device > 'File List' > 'Export'. Click here for more details.
- 'Configuration Templates' main menu
 - Profiles Click 'Configuration Templates' > 'Profiles' > 'Export'. Click here for more details.
 - Alerts Click 'Configuration Templates' > 'Profiles' > 'Export'. Click here for more details.
 - Procedures Click 'Configuration Templates' > 'Profiles' > 'Export'. Click here for more details.
- 'Application Store' main menu
 - **iOS Store** Click 'Application Store' > 'iOS Store' > 'Export'. Click here for more details.
 - Android Store Click 'Application Store' > 'iOS Store' > 'Export'. Click here for more details.
- 'Applications' main menu
 - Mobile Applications Click 'Applications' > 'Mobile Applications' > 'Export'. Click here for more details.
 - Patch Management Click 'Applications' > 'Patch Management' > 'Operating System' tab > 'Export'. Click here for more details.
- 'Security Subsystems' main menu
 - Containment Click 'Security Sub-Systems' > 'Containment' > 'Export'. Click here for more details.
 - Application Control Click 'Security Sub-Systems' > 'Application Control' > 'Export'. Click here for more details.
 - Next Gen Sandbox Click 'Security Sub-Systems' > 'Next Gen Sandbox' > 'Export'. Click here for more details.
 - Device Control Click 'Security Sub-Systems' > 'Device Control' > 'Export'. Click here for more details.
 - Antivirus:
 - Device List Click 'Security Sub-Systems' > 'Antivirus' > 'Device List' tab > 'Export'. Click here for more details.
 - Current Malware List Click 'Security Sub-Systems' > 'Antivirus' > 'Current Malware List' tab > 'Export'. Click here for more details.
 - **Quarantined Files** Click 'Security Sub-Systems' > 'Antivirus' > 'Quarantined Files' tab > 'Export'. **Click here** for more details.
 - Threat History Click 'Security Sub-Systems' > 'Antivirus' > 'Threat History' tab > 'Export'. Click here for more details.

These reports are generated in comma separated values (.csv) format.

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Generate a report from the 'Reports' interface

• Click 'Generate Report' from the top and then click on the report type from the drop-down.

Endpoint Manager		
DASHBOARD	~	
Audit		
Compliance		Generate Report Delete Download
Valkyrie		
Reports	2	Android Antivirus Report
Notifications		Windows Antivirus Report
Audit Logs		Windows Malware List Report Ma-Separated V.
DEVICES	>	Windows Top Malware Report ma-Separated V
		Windows Quarantine Report
		Hardware Inventory Report

A new report will be generated for the selected report type.

• To download a report, select it and click 'Download' at the top

Endpoint Manager	=	≡ Repo	rts	License (Options
DASHBOARD	~				
Audit		Ê	6 6	Ê <u>.</u>	
Compliance		Generate	Report Delete Do	wnload	
Valkyrie					
Reports	2		NAME	ТҮРЕ	STATUS
Notifications		\sim			
Audit Logs			Patch Management	Comma-Separated V	Not download
DEVICES	>		User List 2018-09-1	Comma-Separated V	Downloaded
A USERS	>		Current Malware Lis	Comma-Separated V	Downloaded
CONFIGURATION TEMPLATES	>		Quarantined Files 20	Comma-Separated V	Not downloa

• Click a report name to view report details.

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	NAME	ТҮРЕ	<u>STATUS</u> ▼	CREATED BY	
	Application Control	Comma-Separated V	Not downloaded	herculespopular22@g	
)(Quarantined Files 20	Comma-Separated V	Not downloaded	herculespopular22@g	
	Patch Management	Comma-Separated V	Not downloaded	herculespopular22@g	
7	Application Control	Comma-Separated V	Downloaded		
Ex	rantined Files 201 port Details	18-09-12 03-06 PN	Downloaded 1	herculespopular22@g	2011
Ex	rantined Files 201 port Details	18-09-12 03-06 PN		nerculespopular22@g	
Ex Nar Qua	rantined Files 201 port Details me arantined Files 2018-09-12	1 8-09-12 03-06 PM		nerculespopular22@g	
Ex Nar Qua Typ Cor Sta	rantined Files 201 port Details me arantined Files 2018-09-12	1 8-09-12 03-06 PM		nerculespopular/22@g	
Ex Nar Qua Typ Cor Sta Not	rantined Files 201 cport Details me arantined Files 2018-09-12 pe mma-Separated Values (C3 atus	1 8-09-12 03-06 PM 2 03-06 PM SV)			
Ex National Qual Typ Cor Sta Not Qual Cree	rantined Files 201 port Details me arantined Files 2018-09-12 pe mma-Separated Values (Ca stus t downloaded wnload link	1 8-09-12 03-06 PM 2 03-06 PM SV) 2 03-06 PM.csv			

To remove a report from the list, select it and click 'Delete'.

Notifications

•

Whenever there is a new notification in the C1 title bar, the notification symbol is notification icon will take you to the respective C1 interface.

is incremented. Clicking the

Tip: EM can send notifications as emails. Click 'Settings' > 'Email Notifications' to configure them. See **Configuring Email Notifications** if you need help with this.

• To view all notifications, click 'See All Notifications' from the notification drop-down or click 'Notifications' on the left menu under Dashboard.

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Endpoint Manager		≡ Notif	ications	License Options 🔁 👔 Łogout (her	culespopular22@gmail.com)
DASHBOARD	~				
Audit		Ĺ) 8		Q
Compliance Valkyrie			lete ation(s)		Ţ
Reports	0		TYPE	MESSAGE	RECEIVED
Notifications					
Audit Logs				Monitor "Second Monitor [Suspicious Files Folder for John]" has been executed on device DESKTO	2018/10/23 02:10:25 PM
DEVICES	>			Malware on the Linux device!	2018/10/22 05:10:12 PM
A USERS	>		(The new report has been saved as «Patch Management 2018-10-22 02-41 PM.csv»	2018/10/22 02:41:19 PM
	>		•	Malware on the Android device!	2018/10/22 09:19:34 AM
APPLICATION STORE	>			Monitor "CPU1 [Finance Department Windows Computers]" has been executed on device DESKTO	2018/10/16 01:40:09 PM
APPLICATIONS	>		0	Herald Mac: package «COMODO Client - Security v. 2.4.0.608» was successfully installed	2018/10/09 09:47:03 AM
SECURITY SUB-SYSTEMS	>			Connection to Comodo Account Management server for checking the licenses can not be establi	2018/10/05 05:42:36 PM
SETTINGS	>			Connection to Comodo Account Management server for checking the licenses can not be establi	2018/10/05 11:54:43 AM
				in the selection of the	

Notifications - Column Descriptions					
Column Heading	Description				
Туре	Indicates whether the notification is generated for a successful operation, Warning, Error, Blocker or support event.				
Message	The message content of the notification, shortly describing the event.				
Received	The date and time at which the notification was received.				

- The message also acts as a shortcut to view the details of the notification. Clicking on a message will open the interface relevant to the message for more details. For example, clicking on 'Malware Found on Windows device' message will open the 'Antivirus Current Malware List' screen with the list of malware identified.
- To sort the filter in ascending/descending order of the date/time at which they were generated, click on the Modified column header.
- To filter or search for specific notification, click the funnel icon at the top right choose the notification type, enter the message to be searched in part or full and/or specify the date range within which the notification was generated.



	Туре	Ľ	
	Success		
	U Warning		
	Error		
	Blocker		
	Support		
	Message		
	Message	 	
	Received		
	Start	End	
31 N3			

• To remove notification(s), select them in the list and click 'Delete Notifications' above the table.

Audit Logs

- Endpoint Manager keeps a log of actions implemented on managed devices by administrators and staff. These logs can be useful when troubleshooting issues.
- Logged actions include enrollment and removal of devices, applying a security profile, creating and editing security profiles, package installations, remote take-over sessions, restarting a device, removing a device, remote disconnections, changes to containment settings, updates to file group variables and more.
- The 'Audit Logs' interface shows all log entries along with details such as the name of the staff member who applied the action, the affected device, the action taken and more.
- Click 'Dashboard' > 'Audit Logs' in the left-menu to open the log interface:

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Endpoint Manager		☰ Audit Logs					License Options	⑦ 名 Logout (hercules	spopular22@gmail.com)
H DASHBOARD	~								
Audit									O Y
Compliance Valkyrie		STAFF	EVENT NAME	AFFECTED OBJECT	OLD VALUE	NEW VALUE	EXTRA INFO	SESSION ID	LOG CREATION DATE
Reports Notifications		herculespopular22@	Device update info	DESKTOP-D80SVJJ				h12fpvqu8rd11kl9jh5cddfd61	2018/10/22 05:10:03 PN
Audit Logs DEVICES	>	herculespopular22@	Profile update	Finance Departmen			Valkyrie section was updated. OS Type: Windows	h12fpvqu8rd11kl9jh5cddfd61	2018/10/22 05:09:29 PN
Configuration templates	>	herculespopular22@	Global patch management uninstall action	DESKTOP-D80SVJJ			{"id":"dfe7a856-a694-4e1a-9abf- 092e03434e26";"name":"2018-10 Cumulative Update for Windows 10 Version 1803 for x64-based Systems (KB4462919)"}	jdhe8sdka44macdhp9jpo8sn3p	2018/10/22 02:33:53 PM
APPLICATION STORE	> > >	herculespopular22@	Global patch management uninstall action	DESKTOP-Q74RLIJ			("id":"dfe7a856-a694-4e1a-9abf- 092e03434e26";"name":"2018-10 Cumulative Update for Windows 10 Version 1803 for x64-based Systems (KB4462919)"}	jdhe8sdka44macdhp9jpo8sn3p	2018/10/22 02:33:53 PM
∯ SETTINGS	>	herculespopular22@	Global patch management uninstall action	DESKTOP-TTPO9PR			("id":"dte7a856-a694-4e1a-9abf- 092e03434e26","name":"2018-10 Cumulative Update for Windows 10 Version 1803 for x64-based Systems (KB4462919)")	jdhe8sdka44macdhp9jpo8sn3p	2018/10/22 02:33:53 PM

	Audit Logs - Column Descriptions
Column Heading	Description
Staff	 Username of the admin or staff member who executed the action. Click the staff name to view their details. See View user details if you need help with the details interface.
Event Name	The action executed on the device. Examples include enrollment of devices, remote installation of Comodo and third party MSI packages, remote take-overs and device removals.
Affected Object	 The device, device group, profile, procedure or file group on which the action was executed. Click the name to view more details about the item
	• The details interface allows you to view and manage the respective item.
Old Value	The previous setting or value before the action was implemented. For example, if a Comodo package is remotely updated, the old version number of the package will be shown here.
New Value	The new setting or value after the action was implemented. For example, if a Comodo package is remotely updated, the version number of the new package will be shown here.
Extra Info	 Additional details about the action. Additional details include devices on which the procedure was run, package installation parameters, profiles applied/removed, malware quarantined, antivirus scans run and so on. Script or patch procedures - Click the 'Selected Devices' link to view devices on which the procedure was run. Click a device name in the list to view its 'Device Details' interface
Session ID	String used to identify the connection session between the device and the EM server during the action.



Log Creation Date Date and time of the event.	
---	--

• Click the 'Refresh' icon to load the latest events.

Search and filter options

- Click any column header (except 'Event Name') to sort items in alphabetical order of items in that column
- To filter or search for a specific event, click the funnel icon at the top right.

	् 🕥
SESSION	Log creation date
	Start 🛍 End
9vmqle1k	Staff Staff
9vmqie1k	Component name
k	Remote Control
ĸ	Source Device
	Common RBAC
1	Procedure
1	Profile Device group
at a	Antivirus Patch Management
	Global Software Inventory System templates
	Event name
\$	Affected object
	Affected object Old value
	Old value
	New value
\$	Extra info
	Session ID
	Session ID

• You can filter items by various criteria or search for specific events.

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Endpoint Manager - Administrator Guide

• Click 'Apply' to run your filter.

				1	C	Y
	SESSION	Log creation o	late	F -4		
path rogram		Start		End		
1 filter	Apply	john				
		Component na	ame			
		EM				
	(Remote C	ontrol			
		Source				
	c	Device				_

4. Users and User Groups

- One of the first steps in setting up Endpoint Manager is to add users.
- Once you have added users, you can enroll the devices which belong to them. You can enroll iOS, Android, Windows, Mac OS and Linux devices.
- After enrolling a device, you can remotely manage and apply security policies to it. You can create user groups in order to apply policies to multiple devices.
- You can also assign users to a 'role'. A role determines what areas a user can access, and what tasks they can perform. You can assign users one of the built-in roles, or create a custom role with custom privileges.

Users can be added to EM in two ways:

- From the the C1 or ITarian interface
- From the EM interface

A staff member or user added via C1 interface or ITarian can access C1 / ITarian and other licensed modules, including EM. A staff added via EM can only access EM.

- Comodo One customers See https://help.comodo.com/topic-289-1-716-8482-Manage-Administratorsand-Roles.html for details on how to add users via C1.
- ITarian customers -See https://help.comodo.com/topic-452-1-946-13054-Manage-Admins,-Staff-and-Roles.html for details on how to add users via ITarian.

The following sections describe how to add users via the EM interface.

The 'Users' menu at the left allows you to add, view and manage users/user groups and to manage roles:

Endpoint Manager		╞	∃ User List				
DASHBOARD	>						
DEVICES	>			<u>8</u> +	Ē,		
A USERS	~		Enroll Device	Create User	Manage Profiles	Send Password Recovery Email	
User List			NA	ME		EMAIL	
User Groups							
Role Management				admin		herculespopular	22@gmail.c.
	s >		•	Avanti		avantistude@gm	
APPLICATION STORE	>			Dyanora		dyanorat481@gr	

The following sections explain more about each area:

- Manage Users
 - Create New User Accounts
 - Manually Add Users
 - Import Users from a CSV file
 - Enroll Users' Devices for Management
 - View the Details of a User
 - Assign Configuration Profile(s) to a Users' Devices



- Remove a User
- Manage User Groups
 - Create a New User Group
 - Edit a User Group
 - Assign Configuration Profile to a User Group
 - Remove a User Group
- Configure Role Based Access Control for Users
 - Create a New Role
 - Manage Permissions and Assigned Users of a Role
 - Remove a Role
 - Manage Roles Assigned to a User

4.1. Manage Users

- Click 'Users' > 'User List'
- You can enroll user accounts to EM and assign them roles with differing privilege levels (as 'administrators' or 'end users').
- Devices belonging to a user can only be enrolled after adding their user account to EM.
- Users can be added using any of the following methods:
 - Manually add user accounts
 - Import users from a comma separated values (.csv) file
 - Bulk enroll users and Windows endpoints from Active Directory (AD)

C1 customers - Staff added in the C1 interface are automatically added as users in EM.

See https://help.comodo.com/topic-289-1-716-8482-Managing-Administrators-and-Roles.html if you need help to add staff/ manage roles in C1.

ITarian customers - Staff added in the ITarian interface are automatically added as users in EM.

See https://help.comodo.com/topic-452-1-946-13054-Manage-Admins,-Staff-and-Roles.html if you need help to add staff/ manage roles in ITarian.

- The 'Users List' shows all user accounts that have been added to EM. Admins can add/manage users, enroll user devices, manage device configuration profiles and more.
- Click 'Users' > 'User List'

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Endpoint Manager		⊒ User List		License Opt	ions 🗗	@ £	Logout (her	culespop	ular22@gmail.com)
DASHBOARD	>								
DEVICES	>	F	<u>8</u> +	Ē		20	<u>\$</u>	Ē.	Q
(A USERS	~	Enroll Device	Create User	Manage Profiles	Send Password Recovery Email	Delete User	Import User	Export	Ţ
User List			AME	EMAIL	PHONE N	UMBER	# OF DEVIC	ES	LAST LOGIN
User Groups									
Role Management			admin	herculespopula	N/A		0		Not logged in yet
CONFIGURATION TEMPLATES	>	•	Avanti	avantistude@g.	. N/A		2		Not logged in yet
APPLICATION STORE	>		Dyanora	dyanorat481@g	98765432	10	2		Not logged in yet
APPLICATIONS	>	•	fsregionaltra	fsregionaltrans.	N/A		0		Not logged in yet
SECURITY SUB-SYSTEMS	>		Herald	hertriumph@gn	12345678	90	2		Not logged in yet
SETTINGS	>	•	herculespop	herculespopula	N/A		1		2018/10/23 01:0
			John	fiatliena@gmail	N/A		0		Not logged in yet

Column Heading	Description
Name	The login username of the user.
	 Click the username to view and edit user details. See 'View the Details of a User' for more info.
Email	The registered email address of the user. Account activation and device enrollment mails are sent to this address.
Phone Number	The registered phone number of the user.
Number of Devices	The total number of devices enrolled for the user.
Last Login	Date and time that the user most recently accessed EM.
	Controls
Enroll Device	Add user devices for management by EM. You can enroll Android, iOS, Mac, Windows and Linux devices. See Enroll User Devices for Management for more details.
Create User	Manually add user accounts to EM.
	 You can only add devices for users after you have enrolled the users themselves.
	Users can also be designated as administrators.
	See Manually Add Users for more details.
Manage Profiles	A profile determines the security configuration and network access rights of a device. See Apply configuration profiles to devices for more details.
Send Password Recovery Email	Reset the password of users who have admin privileges. The password allows them to login to the EM console. See Send password recovery emails for users to access the EM console for more details.
Delete User	Terminate selected user accounts. See Remove a User for more details.

Import User	Add new users by importing them from a comma separated values (CSV) file. See Import Users from a CSV File for more help.
Export	Save a copy of the current user list as a comma separated values (CSV) file.
	The exported .csv is available in 'Dashboard' > 'Reports'
	See Export the List of Users for more details.

Sorting, Search and Filter Options

- Click any column header to sort items in ascending/descending order
- Click the funnel button T at the right end to open the filter options.

ST LOGIN		K
t logged in	Name	
t longestin		
	Email	
	Phone Number	
	Last Login	
	From	
	То	

- To display all items again, clear all filter fields and click 'OK'.
- By default, 20 search results are shown per page. Click the arrow next to 'Results per page' to increase the number up to a max of 200.

Export the List of Users

- Click 'Users' > 'User List'.
- Click the funnel T icon to filter which records are included in the report.
- Click the 'Export' button above the table then choose 'Export to CSV':

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User	List			+ (?)	ይ Logout (h	erculespopular22@gma
Enroll De		E Manage Profiles	Send Password Recovery Email	Delete User	Re- Import User	Export
	NAME	EMAIL	PHONE	NUMBER	# OF DE	Export to CSV
	johnsmith	coyoteewile@	ored N/A		0	Not logged in
	Herald	hertriumph@	gm 123456	7890	2	Not logged in
	Oyanora	dyanorat481@	۵g 987654	3210	2	Not logged in

- The CSV file will be available in 'Dashboard' > 'Reports'
- See **Reports** in **The Dashboard** for more details.

Please use the following links to find out more:

- Create New User Accounts
 - Manually Add Users
 - Import Users from a CSV File
- Enroll Users' Devices for Management
 - Enroll Android Devices
 - Enroll iOS Devices
 - Enroll Windows Endpoints
 - Enroll Mac OS Endpoints
 - Enroll Linux OS Endpoints
- View User Details
 - Update the Details of a User
- Assign Configuration Profile(s) to a User's Devices
- Remove a User

4.1.1. Create New User Accounts

- You can add new accounts using any of the following methods:
 - Manually add users. Add individual users to EM
 - Click 'Users' > 'User List' > 'Create User' to start this process.
 - You need to specify their name, email address, the company they belong to, and their EM role.
 - See Manually Add Users if you need help with this.
 - Import users from .csv file. Import a list of users from a comma separated values file.
 - Click 'Users' > 'User Import' to start this process
 - The file should contain the following, separated values: 'Username' (mandatory), 'Email address' (mandatory) and 'Phone number' (optional).
 - The file should not contain column headers and each line should contain a single user.



- Users are assigned the role you specify in the import dialog.
- See Import Users from a CSV File if you need help with this
- New users will receive an enrollment mail which requests they activate their account and set their password.
- You can also bulk enroll users and Windows endpoints from Active Directory (AD) group policy. See Bulk Enrollment of Devices and 'Import User Groups from LDAP' for more details.

C1 customers - Staff added in the C1 interface are automatically added as users in EM.

See https://help.comodo.com/topic-289-1-716-8482-Managing-Administrators-and-Roles.html if you need help to add staff/ manage roles in C1.

ITarian customers - Staff added in the ITarian interface are automatically added as users in EM.

See https://help.comodo.com/topic-452-1-946-13054-Manage-Admins,-Staff-and-Roles.html if you need help to add staff/ manage roles in ITarian.

Device licenses: User devices can only be enrolled after the user has been added to the system.

- Each device license covers one device per user
- You need an additional license for each mobile device or endpoint you add for the same user. You can
 purchase additional licenses from the Comodo website if required. See View and Manage Licenses for
 more details.

The following sections explain how to:

- Manually add users
- Import users from a CSV file

4.1.1.1. Manually Add Users

- Click 'Users' > 'User List' > 'Create User' button
- You can add new users by specifying their name, email address and other details.
- · You can also specify the role of the new user
- Once added, you can enroll Windows, Android, iOS, Mac OS and Linux devices for the user.
- New users with admin roles will receive an account activation email. They can login to Endpoint Manager after activating their account.

To add a new user

- Click 'Users' > 'User List'
- Click the 'Create User' button

or

Click the 'Add' button at the menu bar and choose 'Create User'.

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Endpoint Manager	≡ User List	License Options
DASHBOARD >	\frown	دreate User د
DEVICES >	ि (है)	Enroll Device
(A USERS)	Enroll Device Creat ^M Iser Mai	
User List	NAME	
User Groups		
Role Management	🗌 🕒 admin	
CONFIGURATION TEMPLATES	Avanti	

The 'Create New User' appears:

Create New User	×
User Name*	
Oxford	
Email*	
mmoxford@yahoo.com	
Phone Number	
9876543210	
Company*	
Default Company	~
Assign Role	
Users	\sim
	Submit

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	'Create	new user' Form - Table of Parameters			
Form Element	Туре	Description			
Username	Text Field	Enter the login username for the user.			
Email	Text Field	The email address of the user for registration to EM. Account and device enrollment mails will be sent to this address. Please ensure users respond to the device enrollment mail from the device(s) you intend to enroll.			
Phone Number (Optional)	Text Field	The contact number of the user.			
Company	Drop-down	Choose the company to which the user belongs.			
		Comodo One MSP and ITarain MSP customers can add users from Companies/Organizations enrolled in their account.			
		Comodo One Enterprise, ITarian Enterprise and EM stand- alone customers can only add users to the default company.			
Assign role	Drop-down	 Select the role to be assigned to the new user from the 'Assign role' drop-down. Assign Role Users Administrators Technician Users EM ships with four default roles: Account Admin - Can login to EM and access all management interfaces. You cannot assign account admin to a user. The role is automatically assigned to the person who opened the C1 or ITarian account. This role is not editable. Administrators - Can login to EM and access all management interfaces. This role can be edited as required. Technician - Can login to EM and access all management interfaces. This role can be edited as required. Technician - Can login to EM and access all management interfaces. The technician role has fewer privileges than the administrator role. This role can be edited as required. Users - Cannot login to EM. If required, you can change role permissions to have access to the admin console. See Configure Role Based Access Control for Users for more details. You can create custom roles which grant access to selected areas of EM. These roles can be assigned to users as required. All roles created in EM and C1 or ITarian will appear in the 'Assign Role' drop-down when adding a new user. See Configure Role Based Access Control for Users for more details. 			

• Enter the details, select the role for the new user and click the 'Submit' button.

Tip: User roles can be changed at any time in the 'Role Management' interface ('Users' > 'Role Management'). See **Managing Permissions and Assigned Users of a Role** if you need help with this.

A confirmation will be displayed:

Create New User	×
You have created «Oxford» user.	
Email: mmoxford@yahoo.com	
Phone number: 9876543210	
Company: Default Company	
Role: Users	
Within a few minutes the user will get an email with instructions to proceed if his role supports it.	
	0k

• Repeat the process to add more users.

Successfully added users will be listed in the 'Users' interface. The user's devices can now be enrolled to EM.

Endpoint Manager will send account activation mails to the newly added administrators. They can activate their account and set their login password by clicking the link in the email. An example mail is shown below:

					/ crea	ated. word:	
/ <u>user</u> e81a		<u>ate/u</u>	useri	name	/Oxfo	ord	

Upon activation, the administrator will be able to login to EM with their user-name and password.

Note: By default, enrolled users with the role 'Users' do not receive an account activation mail nor gain console login rights. Only personnel with the default roles 'Administrator', 'Technician', or a custom role with access to the administrative console, will receive an activation email.

Should you wish, you can change role permissions to allow the default 'User' role to have access to the admin console. See **Configure Role Based Access Control for Users** for more details.



4.1.1.2. Import Users from a CSV File

- Click 'Users' > 'User List' > 'Import User'
- · You can load a list of new users by importing them from a comma separated values (CSV) file
- · You can also specify the role to be assigned to all users in the list
- After adding a user, you can enroll Windows, Android, iOS, Mac OS and Linux devices for them

Process in brief

- Create a CSV file containing the list of users using spreadsheet applications like Microsoft Excel or OpenOffice Calc and save it on your admin computer
- The file should contain the following, separated values: 'Username' (mandatory), 'Email address' (mandatory) and 'Phone number' (optional).
- The file should not contain column headers and each line should contain a single user.
- In the EM admin console, click 'Users' > 'User List' > 'Import User'
- · Browse to and select the CSV file you want to import
- · Select a company and a role for the imported users
- Upload the file
- The users will be imported and enrolled to EM

Requirements for .csv file

There are two mandatory fields and one optional field per user account:

- Username (mandatory)
- Email address (mandatory)
- Phone number (optional)
- Each line in the CSV file should contain one user entry
- The CSV file should not contain column headers

Example:

"james", "james@ditherscons.com", "9876543210"

To import users from a list

- Click 'Users' > 'User List'
- Click 'Import User' on the top

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Endpoint Manager	≡ User List	License Options 🔁 🕻	کے Logout (herculespopular22)
DASHBOARD >			<u> </u>
DEVICES >	루 온	É) M	ਿ ਓ 🗍
USERS V	Enroll Device Create User	Manage Profiles Send Password De Recovery Email	elete User Impoff User Export
User List	NAME	EMAIL PHONE NUMB	ER # OF DEVICES LAST
User Groups			
Role Management	🗌 😑 admin	herediespopular N/A	0 Not lo
CONFIGURATION TEMPLATES	Avana	avantistude@g N/A	2 Not in
Uploading status: Ready		Important:	st in CSV format.
User import			to import multiple users
CSV file * Browse		- use only con - enter user na email address	nma (,) as a field delimiter; ames in the 1st column and ses in the 2nd column (both
Customer *	Role *	are mandator numbers (opt	y), 3rd column is for phone
Customer	Role	- use no colum	
Do not send any enroll	ment notifications		
Import users from list			

'User Import' Form - Table of Parameters					
Parameter	Description				
CSV File	Click 'Browse' navigate to the location of the CSV file and select the file				
Company	The company to which the users belongs.				
	 Comodo One MSP and ITarian MSP customers can add users from Companies/Organizations enrolled in their account. 				
	 Start entering first few letters of the company name and select the company from the options 				
	 Comodo One Enterprise, ITarian Enterprise and EM stand-alone customers can only add users to the default company. 				
	Enter 'Default Company' in the Company field				
Role	The role to be assigned to all users in the list.				
	Start entering first few letters of the name of the role and select the role from the options				

	EM ships with four default roles:
	 Account Admin - Can login to EM and access all management interfaces. You cannot assign account admin to a user. The role is automatically assigned to the person who opened the C1 or ITarian account. This role is not editable.
	 Administrators - Can login to EM and access all management interfaces. This role can be edited as required.
	 Technician - Can login to EM and access all management interfaces. The technician role has fewer privileges than the administrator role. This role can be edited as required.
	 Users - Cannot login to EM. If required, you can change role permissions to have access to the admin console. See Configure Role Based Access Control for Users for more details.
	You can create custom roles which grant access to selected areas of EM. These roles can be assigned to users as required. All roles created in EM and C1 or ITarian will appear in the 'Role' drop-down when importing new users. See Configure Role Based Access Control for Users for more details.
Do not send any enrollment notifications	Select whether or not the account creation notification mail or account activation mail is to be sent to the imported users.
	Note: The notification mails will not be sent if you select 'Users' role for the new users.

Configure the parameters and click 'Import users from List'

Uploading status: In pi	ogress	Use this page to import multiple users from a user list in CSV format.
		Important:
CSV file * Browse	Role *	- use only comma (,) as a field delimit - enter user names in the 1st column email addresses in the 2nd column (l are mandatory), 3rd column is for pho
Customer	Role	numbers (optional); - use no column headers.
Do not send any end	ollment notifications	
Import users from	list Discard import	

The progress will be displayed.

- If you want to stop the import process, click 'Discard Import'
- Once the users have been imported, you can enroll devices for them.
- Users will receive an account activation mail if they are assigned a role that has access to the admin console. This includes the standard 'Administrator' and 'Technician' roles.
 - Tip Enable 'Do not send any enrollment notifications' in the import screen if you do not want to send these mails.

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- Users click the link in the mail to activate their account and configure their password.
- You will receive an error report if the import fails. See the following screenshot:

Use	er import					
Uplo	Uploading status: Failed			fro	Use this page to import multiple users from a user list in CSV format.	
Cust	CSV file * Browse User List 2018-09-17 03-59 PM Customer * Role * Saddle and Pedals Users		- us - er 4 u - er and (bo pho	portant: se only comma (,) as a field delimiter; ater user names in the 1st column d email addresses in the 2nd column ath are mandatory), 3rd column is for one numbers (optional); se no column headers.		
	Do not send a Import users ors report:	any enrollment s from list	notifications Clear errors r	eport		
[±] Exj	port				Ţ	
LINE	NAME	EMAIL		PHONE NUMBER	ERRORS	
1	Name	Email		Phone number	Not valid email address entered. Please re-enter.; Phone number should not be longer than 20 characters. It should contain minimum 7 digits and may also contain symbols ".", "+", "-", "(* and ")"	
				N/A	Phone number should not be longer than 20 characters. It should contain	

- The report can help pinpoint errors so you can rectify them.
 - · Click 'Export' to download the error report in .csv format
 - · Click 'Clear errors report' to remove the report and retry the import.

4.1.2. Enroll User Devices for Management

Adding devices to Endpoint Manager (EM) allows you to centrally manage those devices. Reminder - you must first have added users before you can add their devices.

• Click 'Users' > 'User List' > select users > click 'Enroll Device'.



- · Complete the enrollment form then click 'Email enrollment instructions'
- The user will receive an email which they should open on the device itself.
- The mail contains an enrollment token. Multiple devices can be enrolled with the same token by the user simply responding to the mail from each device. Each token is valid for 72 hours.
- Each license covers one device per user. You will need additional licenses for each device you add for a user. See **View and Manage Licenses** if you need help with this.
- You can also bulk enroll users and Windows endpoints by creating a software installation policy in Active Directory (AD). See Enroll Windows Devices Via AD Group Policy and 'Import User Groups from LDAP' for more details.
- · This section explains how to enroll devices for multiple users in the user list

To enroll devices

- Click 'Users' > 'User List' on the left
- Select users for whom you want to enroll devices and click the 'Enroll Device' button above the table Or
- Click the 'Add' button 😌 at the menu bar and choose 'Enroll Device'.

Endpoint Manager	☰ User List	License Options
DASHBOARD >		Create User
DEVICES >	<u>۾</u> ک	Enroll Device
USERS V	Enroll Revice Create User	
User List	NAME ▼	
User Groups		
Role Management	Wile	
CONFIGURATION TEMPLATES >	Ssgalia@yaha	

The 'Enroll Devices' dialog will open:

Enroll Devices	×
Please choose the device owner(s) Wile(frontfork) ×	
Show enrollment instructions	Email enrollment instructions

• Choose device owners - This is pre-populated with the users you selected in the 'User List' interface. You



can add more users by typing the few letters of their name.

- Show enrollment instructions Displays device enrollment guidance on-screen. This is useful for admins who want to enroll their own devices.
- Email enrollment instructions Sends the enrollment email to the selected users. The mail contains instructions on how to add their device to Endpoint Manager. They should open the mail on the device they want to enroll.

You will see a confirmation message as follows:

Enroll Devices		×
Instruction email has been sent to selected a device that is going to be enrolled.	d user(s). The user should navigate to	the link on
	Show enrollment instructions	Ok

An example mail is shown below:

END Endpoint Manager

Welcome to Endpoint Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.

Note:

 Make sure that you selected the operating system of the device that you want to enroll.
 This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.

Device Enrollment:

Click this link to enroll your device

Sincerely, Endpoint Manager team.

Clicking the link will take the user to a page which lets them download the communication client/profile:



Welcome to Endpoint Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.

NOTE:

Make sure that you selected the operating system of the device that you want to enroll.

This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.

FOR WINDOWS DEVICES

Enroll using this link:

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enroll/windows/msi/token/e34983dd628b4fd8c192414c628c 01e2

FOR MACOS DEVICES

 Open the following link on the browser of the device you want to enroli

https://saddie_and_pedais-herculespopular-msp.cmdm.comodo.co m:443/enroli/apple/index/token/e34983dd628b4fd8c192414c628c 01e2

 When you have installed *itsm.mobileconfig* file, use this link to download and install Communication Client application: https://dl.cmdm.comodo.com/download/itsmacent-installer.pkg

FOR IOS DEVICES

 Open the following link on the browser of the device you want to enroll

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enroll/apple/index/token/e34983dd628b4td8c192414c628c 01e2

2) When your profile has been enrolled, you will be requested to install Communication Client application. Upon completion of the installation, there will be a green icon labeled "Run after installation" shown just like a new application. Tap the green icon and follow on-screen instructions to complete enrollment process.

FOR ANDROID DEVICES

Download and install Communication Client by tapping the following link:

https://play.google.com/store/apps/details?id=com.comodo.mdm Upon.completion.of.the installation_enroll using this link:

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co m:443/enroll/android/indextoken/e54963dd628b4ld8c192414c628 c01e2

FOR LINUX DEVICES

Download and install Communication Client by tapping the following link:

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.co ms.443/enrol/linux/run/token/e34963dd626b4ld8c192414c628c01e

Use the same link for manual enrolment if required.

1) Change installer mode to executable:

- \$ cheod +x {\$installation file\$}
- 2) Run installer with root privileges:
- \$ sudo ./{\$installation file\$}

X MANUAL ENROLLMENT

Use the following settings:

Host saddle_and_pedals-herculespopularmsp.cmdm.comodo.com Port 443 Token: e34983dd628b4fd8c192414c628c01e2

Sincerely, Endpoint Manager team.

• Users should click the links which correspond to their device operating system.

Tip: Here's two other ways you can enroll devices for users:

- Click 'Users' > 'User List' > click on the name of a user to open their details screen > click 'Enroll Device'
- Click 'Devices' > 'Device List' > 'Enroll Device'

The following sections contain help per device operating system:

- Enroll Android Devices
- Enroll iOS Devices
- Enroll Windows Endpoints
- Enroll Mac OS Endpoints
- Enroll Linux OS Endpoints

Note - See **Appendix 1** for a list of ports that Endpoint Manager uses to communicate with endpoints and Comodo servers.

4.1.2.1. Enroll Android Devices

- After you have **completed the setup process**, Endpoint Manager will send an email to your users containing device enrollment instructions.
- Users should open the mail on the device itself.

Android device enrollment involves two steps:

- Step 1 Download and Install the communication client
- Step 2 Configure the client

Step 1 - Download and Install the communication client

- Open the mail on the device itself then tap the enrollment link to open the device setup page
- On the setup page, click the communication client download link under 'For Android Devices':

Instructions to complete enrorment process. **FOR ANDROID DEVICES** Download and install Communication Client by tapping the following link: https://play.google.com/store/apps/details?id=com.comodo.mdm Upon completion of the installation, enroll using this link. https://frontfork-frontfork-msp.dmdemo.comodo.com:443/enroll/and roid/index/token/1460571ef0c184504c02a9587c67ba36 **FOR LINUX DEVICES** Download and install Communication Client by tapping the

· You will be taken to the Google play store to download and install the client.

Step 2 - Configure the communication client

The communication client can be configured to connect to the Endpoint Management server in two ways:

Automatic Configuration



Manual Configuration

Manual Co Automatic Configuration

• After installation in step 1, go back to the setup page and tap the enrollment link as shown below:

Instructions to complete enrorment process. **POR ANDROID DEVICES** Download and install Communication Client by tapping the following link: https://play.google.com/store/apps/details?id=com.comodo.mdm Upon completion of the installation, enroll using this link: https://frontfork-frontfork-msp.dmdemo.comodo.com:443/enroll/and roid/index/token/1460571ef0c184504c02a9587c67ba36 **POR LINUX DEVICES** Download and install Communication Client by tapping the

The communication client will be automatically configured and the **End User License Agreement** screen will appear.

Manual Configuration

Users can manually configure the communication client to connect to Endpoint Manager by entering the server settings and the token ID. You can find these items on the setup page:

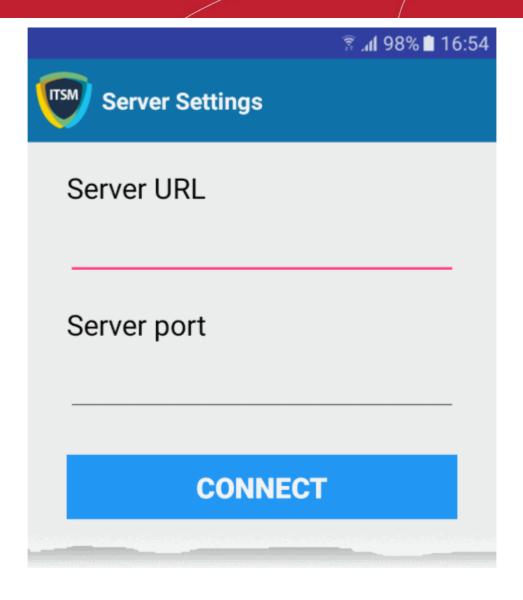
MANUAL ENROLLMENT
Use the following settings:
Host: frontfork-frontfork-msp.dmdemo.comodo.com Port: 443 Token: 1460571ef0c184504c02a9587c67ba36
Sincerely, Endpoint Manager team.

To manually configure the client

Open the client by tapping the client icon on your device. This will start the client configuration wizard where you can enroll the device by entering the server settings and unique token.

Server Settings

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Server Settings - Table of Parameters			
Form Element Type Description			
Server URL	Text Field	Enter the url of the EM server contained in the mail.	
Server port	Text Field	Enter the connection port of the server for your device to connect, as specified in the mail. (Default = 443)	

• Tap the 'Connect' button. The 'Login' screen will open

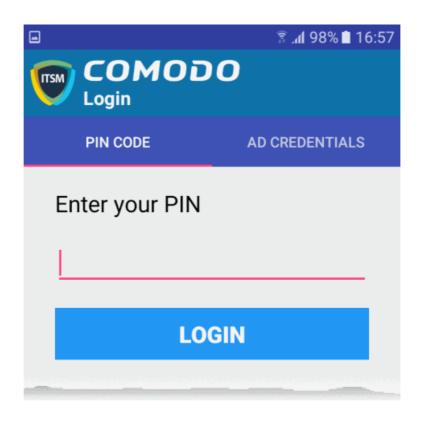
Login to the Console

You can login to the EM console via the Android app in two ways:

- Enter the personal identification number (PIN) contained in the email OR
- Enter your username and password

Enter your PIN

- Open the communication client
- Open the 'Pin Code' tab on the login screen:



- · Enter the PIN (aka 'Token' code) from the enrollment email
- Tap 'Login'. The End User License Agreement screen will appear.

Enter your username and password

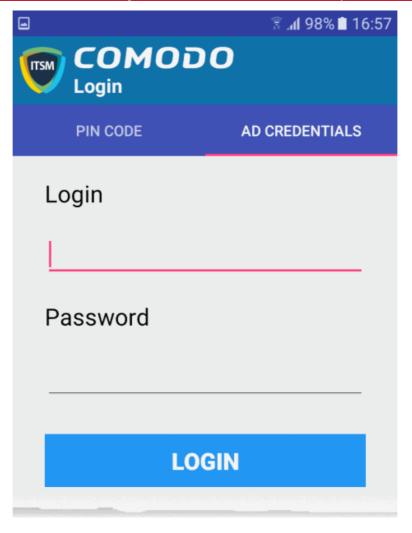
• Tap the 'AD Credentials' tab on the 'Login' screen

Prerequisite: Enrollment of user devices using their Active Directory (AD) credentials requires:

- The AD server to be integrated with EM
- The users to be imported from AD to EM.

See Import User Groups from LDAP for more details on this process.

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- Enter the username and password you use to login to your network domain.
- Tap the 'Login' button

End User License Agreement

The EULA screen will appear.

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END USER LICENSE AGREEMENT AND TERMS OF SERVICE

COMODO IT AND SECURITY MANAGER VERSION 6.12

THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE.

IMPORTANT _ PLEASE READ THESE TERMS CAREFULLY BEFORE USING THE COMODO IT AND SECURITY MANAGER SOFTWARE (THE "PRODUCT"). THE PRODUCT MEANS ALL OF THE ELECTRONIC FILES PROVIDED BY DOWNLOAD WITH THIS LICENSE AGREEMENT. BY USING THE PRODUCT, OR BY CLICKING ON "I ACCEPT" BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, THAT YOU UNDERSTAND IT, AND THAT YOU AGREE TO BE BOUND BY ITS TERMS. IF YOU DO NOT AGREE TO THE TERMS HEREIN, DO NOT USE THE SOFTWARE, SUBSCRIBE TO OR USE THE SERVICES, OR CLICK ON "I

I ACCEPT	DENY

• Scroll down the screen, read the EULA fully and click the 'I ACCEPT' button at the bottom.

This will open the app activation screen. Activation requires the app is given some admin privileges:



🔍 🗖



← Device administrator



Comodo Client

Activating administrator will allow Comodo Client to perform the following operations:

Erase all data

Erase the phone's data without warning by performing a factory data reset.

- Change the screen lock Change the screen lock.
- Set password rules
 Control the length and the characters
 allowed in screen lock passwords and
 PINs.
- Monitor screen-unlock attempts
 Monitor the number of incorrect passwords
 typed when unlocking the screen and lock
 the phone or erase all the phone's data if
 too many incorrect passwords are typed.
- Lock the screen Control how and when the screen locks.
- Set screen lock password expiry Change how frequently the screen lock password, PIN or pattern must be changed.

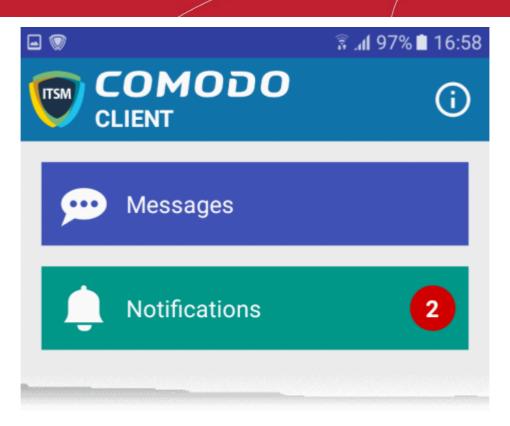
CANCEL

ACTIVATE

• Tap 'Activate'.

The communication client home screen will open:

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The device is now enrolled to EM. A security profile will be applied to the device as follows:

- If the user is already associated with a configuration profile in EM then those profiles will be applied to the device. See Assign Configuration Profile(s) to User Devices and Assign Configuration Profiles to a User Group for more details.
- If no profiles are defined for the user then the default Android profile(s) will be applied to the device. See Manage Default Profiles for more details.

The device can now be remotely managed from the EM console.

4.1.2.2. Enroll iOS Devices

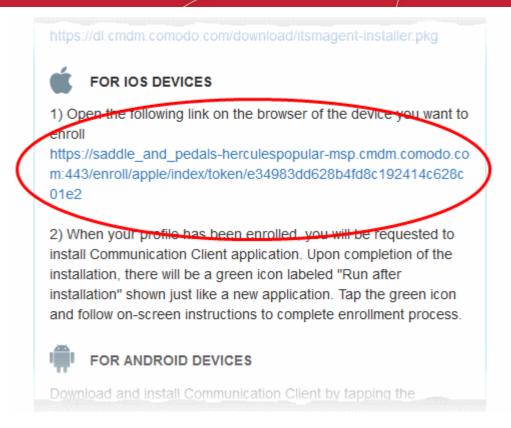
- After you have **completed the setup process**, Endpoint Manager will send an email to your users containing device enrollment instructions.
- Users should open the mail on the device itself.

Note: Users must keep their iOS device switched on at all times during enrollment. Enrollment may fail if the device auto-locks or enters standby mode.

To enroll an iOS device

- Complete the steps in **4.1.2.Enroll User Devices for Management**, if you haven't done so already. Those steps will send an enrollment email to the device owners.
- Device owners should open the mail on the device itself and tap the enrollment link. This will take them to the device setup page.
- On the setup page, click the first link under 'For IOS Devices':





The 'Install Profile' wizard starts:

●●●●○ Vodafor	ne IN ᅙ 16:12	26% 💽 🗲
Cancel	Install Profile	Install
	Comodo ITSM COMODO GROUF	P LTD.
Signed by	*.cmdm.comodo.com	1
Description	Configuration IT and	Security Manager

• Tap 'Install'. A confirmation dialog will be displayed.

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••••• Vodafone IN 🗢 16:12 26% 🗁 +				
Installing Profile				
Comode ITCM				
Comodo ITSM				
COMODO GROUP LTD.				
Signed by *.cmdm.comodo.com				
Verified 🗸				
Description Configuration IT and Security Manager				
Contains Device Enrollment Challenge				
More Details				
Install				
Cancel				
Cancel				

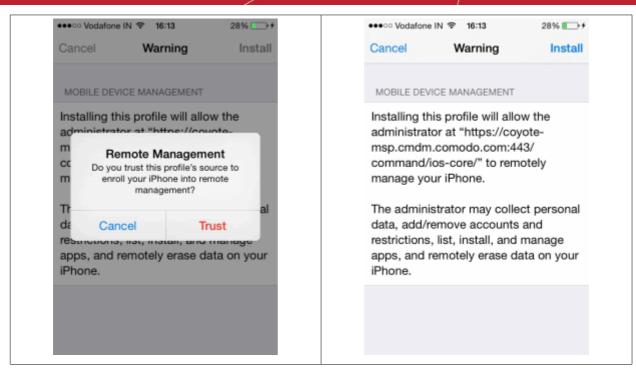
• Tap 'Install'.

The EM Profile installation progress will be displayed.

••••• Vodafone IN 🗢 16:13 26%	••••• Vodafone IN マ 16:13 28% 🌓 +
🍀 Installing Profile	Enrolling Certificate
Comodo ITSM COMODO GROUP LTD.	Comodo ITSM COMODO GROUP LTD.
Signed by *.cmdm.comodo.com	Signed by *.cmdm.comodo.com Verified ✓
Description Configuration IT and Security Manager	Description Configuration IT and Security Manager
Contains Device Enrollment Challenge	Contains Device Enrollment Challenge
More Details >	More Details >

• A privacy warning screen with the privileges granted to the administrator by installing this profile will be displayed during the installation process. Read the warning fully and tap 'Trust' to proceed.

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Click Install in the 'Warning' screen

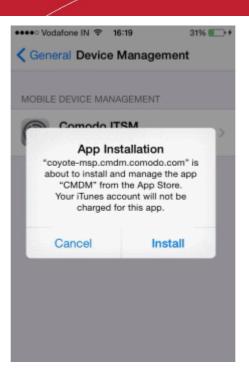
The installation process will continue and when completed the 'Profile Installed' screen will be displayed.

vodaron	e IN ≎ 16:17 Profile Installed	29% Done
	Comodo ITSM COMODO GROUP LT	D.
Signed by	*.cmdm.comodo.com Verified 🗸	
Description	Configuration IT and Secu	rity Manager
	Device Enrollment Challen	

Tap 'Done' to finish the EM profile installation wizard.

•

After installing the profile, the EM client app installation will begin. The app is essential for features such as app management, GPS location and EM messaging.



The app will be downloaded from the iTunes store using the user's iTunes account. The user needs to enter their Apple account password to access the iTunes store:

●●●● Vodafone IN 🗢 16:19	31% 🍽 🗲
Coneral Device Managemer	nt
Sign In to iTunes Store Enter the Apple ID password f	or
hassword	>
Cancel OK	
QWERTYUI	ΟΡ
ASDFGHJ	ΚL
◆ Z X C V B N	м 💌
123 🌐 space	return

• After installation, tap the green 'Run After Install' icon on the home screen:

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• The EULA screen for device management app will be displayed.

No Service 후 18:45 18:45

END USER LICENSE AGREEMENT AND TERMS OF SERVICE

COMODO DEVICE MANAGEMENT VERSION 4.5

THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE.

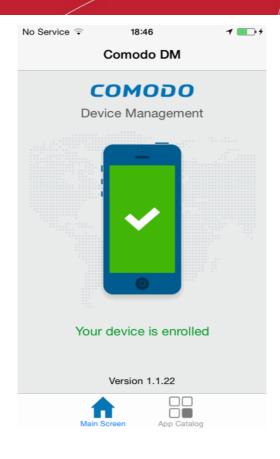
IMPORTANT - PLEASE READ THESE TERMS CAREFULLY BEFORE USING THE COMODO DEVICE MANAGEMENT SOFTWARE (THE "PRODUCT"). THE PRODUCT MEANS ALL OF THE ELECTRONIC FILES PROVIDED BY DOWNLOAD WITH THIS LICENSE AGREEMENT. BY USING THE PRODUCT, OR BY CLICKING ON "I ACCEPT" BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, THAT YOU UNDERSTAND IT, AND THAT YOU AGREE TO BE BOUND BY ITS TERMS. IF YOU DO NOT AGREE TO THE TERMS HEREIN, DO NOT USE THE SOFTWARE, SUBSCRIBE TO OR USE THE SERVICES, OR CLICK ON "I

Accept Decline

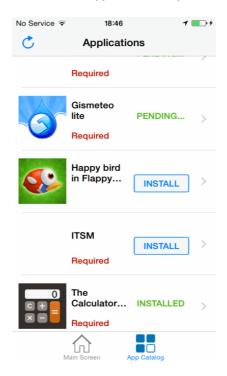
- Read the 'End User License Agreement' fully and tap 'Accept'
- Tap 'OK'.

The device will be successfully enrolled.

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Tap 'App Catalog' to view iOS apps that are installed, apps that are required to be installed and available apps:



The device is now enrolled to EM. A security profile will be applied to the device as follows:

- If the user is already associated with a configuration profile in EM then those profiles will be applied to the device. See Assign Configuration Profile(s) to User Device and Assign Configuration Profiles to a User Group for more details.
- If no profiles are defined for the user then the default iOS profile(s) will be applied to the device. See Manage Default Profiles for more details.

The device can now be remotely managed from the EM console.



4.1.2.3. Enroll Windows Endpoints

- After you have completed the setup process, Endpoint Manager will send an email to your users containing device enrollment instructions.
- Users should open the email on the Windows endpoint you want to enroll. After installation, the communication client will automatically connect to the EM server.

To auto enroll a Windows device

Open the email on the device you want to enroll.

EM Endpoint Manager

Welcome to Endpoint Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.

Note:

 Make sure you select the procedure appropriate for your device type i.e. macOS, Windows, Linux, iOS or Android and complete the necessary steps from the phone, tablet or desktop machine.
 This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.

Device Enrollment:

Click this link to anroll your device

Sincerely, Endpoint Manager team.

- Click the enrollment link in the email to open the device enrollment page
- On the device enrollment page, click the enrollment link under 'For Windows Devices':





Welcome to Endpoint Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.

NOTE:

Make sure you select the procedure appropriate for your device type i.e. mac OS, Windows, Linux, iOS or Android and complete the necessary steps from the phone, tablet or desktop machine.

This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.



FOR WINDOWS DEVICES

Enroll using this link:

https://frontfork-frontfork-msp.dmdemo.comodo.com:443/enroll/win dows/msi/token/1460571ef0c184504c02a9587c67ba36

The EM communication client setup file gets downloaded.

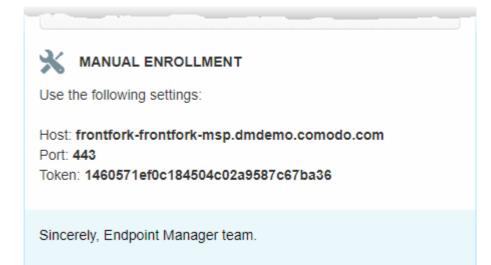
• Double-click on the file to install the communication client.

The device will be automatically enrolled to Endpoint Manager. once installation is complete. The EM communication client icon 🧐 appears at the bottom-right of the endpoint screen.

If the EM communication client is not automatically enrolled at the time of installation, for example, due to internet connectivity issues, you can manually enroll the device at a later time.

For manual enrollment you will need to enter the host, port and token ID. You can find these items on the end of the device enrollment page.





To manually enroll your device

· Right-click on the communication client tray icon and select 'Activation'

	Communication Client	Enroll	×	
Commu	nent Required nication Client needs to be enrolled to manage this device			
	Il Communication Client by providing host Ilment email and pressing "Enroll" button			
Please set	up host, port and token from Device I email.	Enrollment		
Host:				
Port:	443			
Token:				
	Enroll			
		Cano	el	
		T	Activation.	· 🔓 🗋
			Options About	
6	📄 💼 🐋 🌍	x ^ 🎯	뛰고 (Jivi) ENG	2:35 24-10-2018

- Enter the 'host', 'port' and the 'Token' contained in the device enrollment page and click 'Enroll'.
- The communication client will communicate with the EM server and enroll the device.



Communication Client	×
Your device is now enrolled!	
ок	
Cance	el

After device enrollment, the next step is to install Comodo Client Security (CCS) onto the endpoint. See **Remotely Install and Update Packages on Windows Devices** for help with this.

A security profile will be applied to the device when CCS is installed. Profile deployment is as follows:

- If the user is already associated with a configuration profile in EM then those profiles will be applied to the device. See Assign Configuration Profile(s) to User Devices and Assign Configuration Profiles to a User Group for more details.
- If no profiles are defined for the user then the default Windows profile(s) will be applied to the device. See Manage Default Profiles for more details.

The device can now be remotely managed from the EM console.

Endpoint Manager allows you to rebrand the communication client (CC) and CCS applications to change the appearance and interface texts in their GUI. This is especially useful for customers who wish to white-label the CC/CCS interfaces for their clients.

- The 'UI Settings' component of a configuration profile applied to the device can be configured to:
 - Show your company name, support website, phone number and email.
 - Display your company logo, header logo, product icons and product logo in various interfaces of the applications.
 - See CC and CCS Application UI Settings under Create Windows Profiles for more details.



4.1.2.4. Enroll Mac OS Endpoints

- After you have **completed the setup process**, Endpoint Manager will send an email to your users containing device enrollment instructions.
- Users should open the mail on the device itself.

There are two steps to enroll a Mac OS device:

- Step 1 Install the EM configuration profile
- Step 2 Install the EM communication client

Step 1 - Install the EM Configuration Profile

- · Open the enrollment mail on the device you want to add
- Click the link in the mail to open the device enrollment page
- Next, click the first link under 'For Mac OS Devices' as shown below:



You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the Endpoint Manager system. Doing so will make it easier and more secure to connect your personal devices to company networks. This mail explains how you can complete the enrollment process in a few short steps.

NOTE:

Make sure that you selected the operating system of the device that you want to enroll.

This product allows the system administrator to collect device and application data, add/remove accounts and restrictions, list, install and manage apps, and remotely erase data on your device.



FOR MACOS DEVICES

1) Open the following link on the browser of the device you want to enroll

https://saddle_and_pedals-herculespopular-msp.cmdm.comodo.c om:443/enroll/apple/index/token/9d1ace547ee2405c720d7793b7d e9c5b

2) When you have installed *itsm.mobileconfig* file, use this link to download and install Communication Client application: https://dl.cmdm.comodo.com/download/itsmagent-installer.pkg

FOR IOP DEVICES



This will download and install the configuration file 'cdm.mobileconfig':

	Install "Comodo Endp This device profile will con	owing: Profile Service Enrollme	ent.
	Show Profile	Cancel	Install
No profi	les installed		

- Click 'Install'.
- You need to enter your device username and password to continue the installation:

\cap	Profiles wan	ts to make changes.
	Enter your pas	sword to allow this.
	User Name:	herald
	Password:	
		Cancel

After you have logged in, a confirmation dialog appears for the profile installation:

m	Install "Comodo Endpoint Manager"?			
	This device profile will configure your Mac fo Enrollment.	or the following: Mobile Device Manag	ement and SCEF	

- Click 'Show Details' if you want to view information about the profile
- Click 'Continue'

•

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Click 'Install'

The profile will be installed.

evice Profiles	Comodo Endpoint Manager
Comodo Endpoint Mana 2 settings	COMODO GROUP LTD. Verified
	Description Configuration Endpoint Manager
	Signed *.cmdm.comodo.com
	Installed 18-Dec-2018 at 2:36 PM
	Settings Mobile Device Management
	SCEP Enrollment
	macOS, 9459F3BD0FC1877BC6A9BA5A42163550EE
	01DC4C, hertriumph@gmail.com
	DETAILS
	Mobile Device Management
1	Description COMODO GROUP LTD.

Step 2 - Install the EM Communication Client

After installing the profile, you need to install the communication client so the device can communicate with Endpoint Manager.

Download and install the communication client

• Go back to the device enrollment page and click the 2nd link under 'For Mac OS devices':





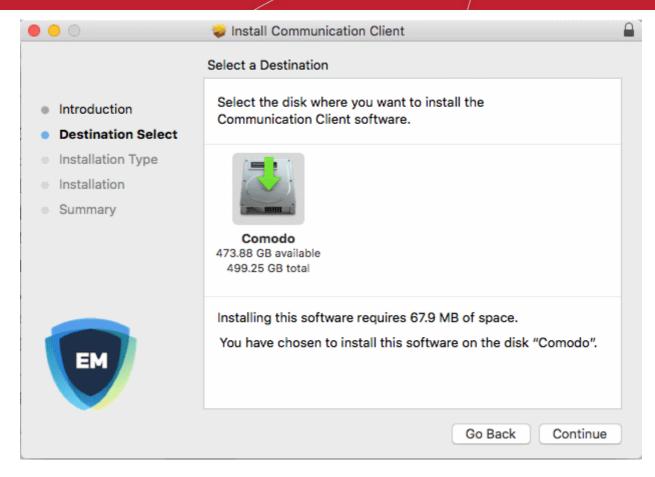
This will start the communication client setup process:

•••	😺 Install Communication Client	
	Welcome to the Communication Client Installer	
Introduction	You will be guided through the steps necessary to install this software, version 6.23.18047.18100.	
Destination Select		
 Installation Type 		
Installation		
Summary		
EM		
	Go Back Continu	e

Click 'Continue'

The next step is to choose the location to install the client:





• Click the disk icon if you want to choose a different install location. Click 'Continue' when you are ready.

The next step lets you choose the installation type and start the installation.

	😺 Install Communication Client	
 Introduction Destination Select Installation Type Installation Summary 	Standard Install on "Comodo" This will take 67.9 MB of space on your computer. Click Install to perform a standard installation of this software on the disk "Comodo".	
EM	Change Install Location Go Back Install	



Click 'Install'

You need to enter your device password to allow the installation:

\bigcirc	Installer is t	rying to install new software.		
	Enter your password to allow this.			
	User Name:	herald		
	Password:			
		Cancel Install Software		

• Enter your username and password and click 'Install Software'

	🔪 Install Communication Client 🔒
	Installing Communication Client
IntroductionDestination SelectInstallation Type	
Installation	Writing files
 Summary 	
	Go Back Continue

Once installation is complete, the client will connect to the EM server:



000	Install Communication Client	
 Introduction Destination Select Installation Type Installation Summary 	The installation was completed successfully. The installation was successful . The software was installed.	
EM	Go Back	2

The device is now enrolled and can be remotely managed from Endpoint Manager.

The next step is to install Comodo Client Security for Mac (CCS) on the endpoint. See **Remotely Install Packages** on **Mac OS Devices** for help to do this.

- Endpoint Manager will apply any user-specific profiles to the device. See Assign Configuration Profiles to a User's Devices and Assign Configuration Profiles to a User Group for more details.
- If no profiles are defined for the user, then the default profiles for Mac OS are applied. See Manage Default Profiles for more details.

4.1.2.5. Enroll Linux OS Endpoints

- After you **complete the setup process described in 4.1.2**, Endpoint Manager will send an email to your users containing device enrollment instructions.
- The email contains instructions on how to install the EM communication client on their device.
 - Users should open the email and complete the installation on the actual endpoint you want to enroll.
- After installing the communication client, the endpoint will automatically connect to the EM server.

Supported Linux OS

- Ubuntu 18
- Ubuntu 16.04.2
- Debian 8.8
- Red Hat Enterprise 7

Enroll a Linux device

• Open the mail on the target device and click the enrollment link. You will be taken to open the device enrollment page



Click on the link under 'For Linux Devices' and save the file:



You can install the communication client on the Linux device by completing the following:

1. Change installer mode to executable - enter the following command:

\$ chmod +x {\$installation file\$}

2. Run installer with root privileges - enter the following command:

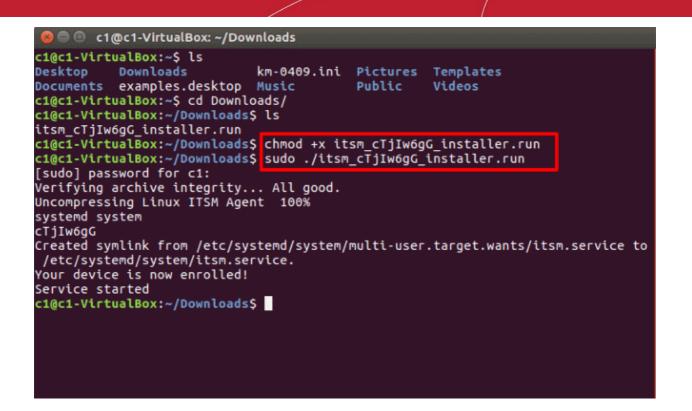
\$ sudo ./{\$installation file\$}

For example:

•

chmod +x itsm_cTjlw6gG_installer.run sudo./itsm_cTjlw6gG_installer.run

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- After installation, the communication client will connect to the Endpoint Manager and enroll the device.
- Once enrolled, the next step is to install Comodo Client Security for Linux (CCS). See Remotely Install Packages on Linux Devices for more details.
- After installing CCS, any EM configuration profiles associated with the user will be applied to the device. See Assign Configuration Profile(s) to a Users' Devices and Assign Configuration Profiles to a User Group for more details.
- If no profiles are defined for the user then the default profiles for Linux are applied. See Manage Default Profiles for more details.

The device can now be remotely managed from the EM console.

4.1.3. View User Details

Click 'Users' > 'User List'

The 'User List' interface lets you view and edit user account details at anytime.

To view user details

- Click 'Users' > 'User List'
- Click the name of a user

The 'User Details' screen opens:

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Endpoint Manager	≡ User List	License Options
DASHBOARD >		
DEVICES >	<u> </u>	
A USERS V	Enroll Device Create User	Manage Profiles Send Password Delete to Recovery Email
User List	NAME	EMAIL PHONE NUMBE
User Groups Role Management	Dyanora	dyanorat481@gma 9876543210
	Herald	hertriumph@gmail 1234567890
	Avanti	
Dyanora		
Enroll Device Manage Profiles Send Pas Recovery		
User Info Associated Devices	User Tokens Groups	
Personal	📝 Edit	
Username Dyanora		
Email dyanorat481@gmail.com		
9876543210		
Roles Users, Administrators		
Customer Default Customer		
Change password time Not changed yet		
Time add 2018/07/10 11:14:23 AM		
Last login Not logged in yet		

You can update these details by clicking the 'Edit' button. See **Update Details of a User** for more details. Note - you can only edit users added to Endpoint Manager. You cannot edit users that were added via the Comodo One or ITarian portals.

The user details screen also lets you:

- Add new devices for a user
- Apply configuration profiles to devices
- Send password recovery emails for users to access the EM console
- View and manage user devices
- View device enrollment tokens generated for users



View and manage groups to which a user is a member

Add new devices for users

- Click 'Users' > 'User List'
- Click the name of a user
- Click 'Enroll Device' at the top of the details interface

The 'Enroll Devices' dialog will open with the user pre-populated. See **Enroll User Devices for Management** if you need help to complete this process.

Apply Configuration Profiles to user devices

- Click 'Users' > 'User List'
- Click the name of a user
- Click the 'Manage Profiles' button

This will open a list of profiles added to the user's devices. You can add new profiles which will be applied to their devices. See **Assign Configuration Profile(s) to a User's Devices** for more details.

Send a password recovery email to users

- Click 'Users' > 'User List'
- Click the name of a user
- Click the 'Send Password Recovery Email' button to start the process.
 - Note you can only send password emails to users added to Endpoint Manager. This option is not available for users added via the C1 or ITarian management portal.

The email contains a link which lets the user reset their password:

Endpoint Manager

Dear Dvanora.

EM

We recently received a password reset request for your Endpoint Manager account.

Date of request: Thu, 25 Oct 2018 05:00:44 +0000

If you requested this change, please confirm and complete the reset process by clicking the following link (available only once): <u>https://frontfork-msp.dmdemo.comodo.com/user</u> /site/change-password/username/Dyanora/key/1b11dea0b03b12b26e6bd81266a604 9ac44d464b

If you did not request this change, please contact us immediately by sending an email to support@itarian.com

Sincerely, Endpoint Manager team.

Tip: Alternatively, you can send the password reset mail from the 'User List' interface. Select the user from the list and click 'Send password Recovery Email' at the top.



View devices associated with a user

- Click 'Users' > 'User List'
- Click the name of a user
- Click the 'Associated Devices' link

This tab shows all devices enrolled for the user:

Dyanora	a					
	Ē,		20			
Enroll Device	Manage Profiles	Send Password Recovery Email	Delete User			
User Info	Associated De	evices User	Tokens	Groups		
	Associated Do	ACTIVE COM		Groups PATCH STATUS	CUSTOMER	LAST ACTIVITY
		ACTIVE COM			CUSTOMER Default Customer	LAST ACTIVITY 2018/10/25 10:21:14 AM
OS N/	AME	ACTIVE COM	PONENTS			

Associated Devices - Column Descriptions				
Column Header	Description			
OS	The operating system of the device.			
Name	The label of the device as assigned by the user.If no name is assigned, the model number of the device will be used as the			
	 name of the device. Click the name of the device to open the 'Summary' screen of the Device Details interface. 			
	See 'View Summary Information' for more details.			
Active Components	The endpoint security components running on the device. For example, Antivirus, Firewall, Containment etc.			
Patch Status	How many OS patches and updates are ready for installation on the endpoint. Patch status is only available for Windows endpoints.			
	Click the number to open the 'Patch Management' tab of the 'Device Details' interface. It allows you to initiate installation of the missing patches.			
	See View and Manage Patches for Windows and 3rd Party Applications for more details.			
Company	The customer organization to which the device was registered.			
Last Activity	The date and time at which the device last communicated with the EM server.			

View User Tokens

Endpoint Manager generates a unique token for each user when you enroll a device for them. This token is used by the communication client on the device to authenticate the enrollment request to Endpoint Manager. A single token can be used to enroll any number of devices for the same user. A token is valid for 90 days.

The 'User Tokens' interface displays a list of generated user tokens. You can use these tokens to manually enroll device for specific users

- Click 'Users' > 'User List'
- Click the name of a user
- Click the 'User Tokens' link

Dyanora	1				
-	Ē,	M	2		
Enroll Device	Manage Profiles	Send Password Recovery Email	Delete User		
User Info	Associated De	evices User	Tokens	Groups	
TOKEN				EXPIRATION DATE	DAYS LEFT
6cc745894c	158d77d765bec875	761807a		2019/01/22 11:09:07 AM	90
	158d77d765bec875 1475fd03fbab1bc3			2019/01/22 11:09:07 AM 2018/12/05 10:54:10 AM	90 42
310d44fead		f944a3			
310d44fead c7b1b2c9dd	1475fd03fbab1bc3	f944a3 52392c6		2018/12/05 10:54:10 AM	42

User Tokens - Column Descriptions				
Column Heading	Description			
Token	The unique serial number of each enrollment token.			
Expiration Date	Date till which the token is valid. Users can enroll devices using the same token until expiry.			
Days left	How many days remain until the token expires.			

To view and manage user groups to which the user belongs

- Click 'Users' > 'User List'
- Click the name of a user
- Click the 'Groups' tab to view all groups to which the user belongs:

Dyar	IOTA							
Ģ	Ē	M	26					
nroll De	vice Manage Profiles	Send Password Recovery Email	Delete User					
User Ir	_	Devices User	Tokens	Groups			C	
		Devices User move from Group # OF US		Groups CREATED B	Ŷ	CREATED	Q	Y
	dd to Group 📗 Re	move from Group		CREATED B	Y pular22@gm	CREATED 2018/10/25	C 10:39:00	▼ AM

Groups - Column Descriptions				
Column Header	Description			
Group Name	 The label of the user group Click the group name to open the 'Group Details' interface. See Edit a User Group for more details. 			
Number of Users	The total count of users in the group.			
Created By	The administrator who added the group.Click the name to open the 'User Details' interface of the administrator.			
Created	The date and time at which the group was created.			

4.1.3.1. Update the Details of a User

- Click 'Users' > 'User List'
- Click the name of a user
- Click the 'Edit' button

The 'User Details' pane lets you update the username, email address and phone number of a user. You can also view devices associated with the user and send them a password recovery email.

Note: The 'Edit' option is only available for users added in the Endpoint Manager interface. It is not available for users that were added via the C1 or ITarian portals. Those users must be edited in the C1 or ITarian. All changes will be reflected in the EM interface.

To update the details of a user

- Click 'Users' > 'User List'
- Click on the user whose details you want to update.

The user details screen will open.

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ser Info	Associated Devices User Tokens Groups
Persona	al 🛛 🖉 Edit
Username johnsmith Email *	
	User Info Associated Devices User Tokens Groups
	Personal X Cancel Save
	Username * johnsmith
	Email *
	fiatliena@gmail.com Phone Number
	Roles Administrators
	Company Dithers Construction Company
	Change Password Time
	Not changed yet

- Update the username, email address of the user and the phone number as required.
- Click 'Save' at the top for your changes to take effect

The role assigned to the user is displayed under 'Roles'.

- Click the role name to change the role if required.
- See 'Manage Roles Assigned to a User' for more details.

4.1.4. Assign Configuration Profiles to User Devices

- Click 'Users' > 'User List'
- Profiles assigned to a user will apply to all devices owned by the user.
- You can apply multiple profiles for different operating systems to a user. Endpoint Manager will apply the appropriate profile to a device depending on its OS.

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To manage configuration profiles assigned to a user

- Click 'Users' > 'User List'
- Select the user for whom you want to assign/remove profile(s)
- Click 'Manage Profiles'

Endpoint Manager	☰ User List	License	
DASHBOARD >			
DEVICES >	Enroll Device Create User Man	age ^h yrofiles Send Passu	word Delete the
A USERS ∨		Recovery E	
User List	□ NAME	EMAIL	PHONE NUMBE:
User Groups Role Management	Dyanora	dyanorat481@gma	
	Herald	hertriumph@gmail	12345 67890
Manage Profiles of Dyanora			
Add Profiles			
Remove Profiles			Q Y
OS TYPE PROFILE NAME		CREATED BY	
Android Devices in S	Sales Dept.	herculespopular22@gn	nail.com
First Profile		herculespopular22@gn	nail.com

The list shows all profiles assigned to a user. You can add, remove or edit profiles as required.

Tip: Alternatively, click 'Users' > 'User List' > click on a username > 'Manage Profiles'.

To add a new profile to a user

- Click 'Users' > 'User List'
- Select the target user
- Click 'Manage Profiles'
- Click 'Add Profiles':

Add Profiles to Dyanora								
	ave		O T					
	OS TYPE	PROFILE NAME	CREATED BY -					
	.	Finance Dept Android Devices	herculespopular22@gmail.co					
	4	Finance Department Windows Computers	herculespopular22@gmail.co					
\mathbf{U}		New Profile for Dyanora	herculespopular22@gmail.co					
- (000000000000000000000000000000000000	<u>.</u>	Second Linux Profile	herculespopular22@gmail.co					

- The next screen shows all profiles that you can add to the user. The list excludes profiles which are already assigned to the user.
 - Select the profiles you want to add and click 'Save'
 - Click the funnel icon on the right if you want to search for a particular profile

The new profiles will be automatically deployed to the user's devices.

Manage Profiles of Dyanora								
Add Pro								
R	emove Profiles		Q Y					
	OS TYPE	PROFILE NAME	CREATED BY					
	÷	Android Devices in Sales Dept.	herculespopular22@gmail.com					
		First Profile	herculespopular22@gmail.com					
		Finance Department Windows Computers	herculespopular22@gmail.com					
		New Profile for Dyanora	herculespopular22@gmail.com					

To remove a profile

- Click 'Users' > 'User List'
- Select the target user
- Click 'Manage Profiles'



Select the profiles you want to disassociate and click 'Remove Profiles'

Remove Profiles	>	O T
OS TYPE	PROFILE NAME	CREATED BY
-	Android Devices in Sales Dept.	herculespopular22@gmail.com
	First Profile	herculespopular22@gmail.com
	Finance Department Windows Computers	herculespopular22@gmail.com
	New Profile for Dyanora	herculespopular22@gmail.com

• The selected profiles will be immediately removed from devices belonging to the user. See note below:

Note: There are 4 ways you can assign a profile to a device:

1. Assign the profile the device owner, aka the 'user'.

Click 'Users' > 'User List' > click a username > 'Manage Profiles' > 'Add Profiles'

2. Assign the profile to the device itself.

.

Click 'Devices' > 'Device List' > click a device name > 'Manage Profiles' > 'Add Profiles'

3. Assign a profile to a device group. Make the device a member of the group.

Click 'Devices' > 'Device List' > 'Group Management' tab > click a group name > 'Manage Profiles'

4. Assign a profile to a user group. Make the user (device owner) a member of the group

• Click 'Users' > 'User Groups' > click a group name > 'Manage Profiles' / 'Associated Devices' Removing a profile as described in this section will only remove profiles which arrived on the device via method # 1 above.

The profile may remain on the device if it was (also) deployed via methods 2, 3 or 4 above.

4.1.5. Remove a User

You can remove users if their devices no longer need to be managed by Endpoint Manager.

- Click 'Users' > 'User List'
- Select the target user and click 'Delete User':

COMODO Creating Trust Online*

Endpoint Manager		Ξ	User List			Licens	e Options
DASHBOARD	>						\sim
DEVICES	>		.	<u>\$</u>	Ē		-0
A USERS	\sim		Enroll Device	Create User	Manage Profiles	Send Pass Recovery	
User List				ME	EMAIL		PHONE NUMBER
User Groups			\sim				
Role Management				Ebi	fiatliena@y	opmail	N/A
CONFIGURATION TEMPLATES	>		•	joesmith	coyoteewil	e@yop	N/A

- Alternatively, click on the name of the user
- Click 'Delete User' in the 'User Details' screen.

Ebi				
Enroll Device	Level 2 Manage Profiles	Send Password Recovery Email	Delete Use	IT
User Info	Associated D	evices User	Tokens	Groups
Person	al		Edit	
Usernam	e			

Click 'Confirm' in the confirmation dialog

Delete User	×
Do you really want to delete user «Ebi»?	
Confirm Can	cel

Note 1: Users added via the C1 or ITarian portal cannot be removed via the EM interface. They can only be removed from the source portal through which they were added. Once removed they are automatically deleted from EM.

Note 2: Users cannot be removed if they still have devices. Ensure all devices associated with a user are removed or reassigned to another user. See **Remove a Device** and **Change Device's Owner** for more details.

4.2. Manage User Groups

- Click 'Users' > 'User Groups'
- Endpoint Manager lets you to create logical groups of users to simplify and streamline user management.
 For example, users could be grouped according to existing corporate units ('Sales Dept.', 'Accounts Dept.') and/or by type of user.
- Once created, dedicated configuration profiles can be applied to each user group as required. See Configuration Profiles for more help with profiles.
- You can also import users/user groups from Active Directory using LDAP. EM periodically synchronizes with AD to ensure any user updates are mirrored in the EM database. See Import User Groups from LDAP for more details.

The 'User Groups' interface lists all existing groups and allows you to add new groups and edit groups. You can also assign profiles to groups from this interface.

• Click 'Users' > 'User Groups' to open the groups interface.

Endpoint Manager	:	E User Groups	License Options	🕂 😰 🐣 Logout (he	rculespopular22@gmail.com)
DASHBOARD	>				
DEVICES	>	· 전· 中			C
(A USERS	~	Create Group Export			Y
User List		NAME	# OF USERS	CREATED BY	CREATED
User Groups					
Role Management		Samsung Users	1	herculespopular22@gmail.co	2018/10/25 10:39:00 AM
CONFIGURATION TEMPLATES	>	Sales Staff	6	herculespopular22@gmail.co	2018/08/02 10:14:01 AM
APPLICATION STORE	>	Accounts Staff	5	herculespopular22@gmail.co	2018/08/02 10:13:34 AM
APPLICATIONS	>	Office Admins	4	herculespopular22@gmail.co	2018/08/02 10:13:19 AM

User Groups - Column Descriptions					
Column Heading Description					
Name	 The user group label. Click the name of a group to view and manage its members, assign configuration profiles and more. See Edit a User Group for more details. 				
Number of Users	Shows how many users are in the group.				
Created By	 The administrator who created the group. Click the admin name to view their details. See View User Details if you need help with this. 				
Created	Date and time at which the group was created.				
Create Group	Add a new user group to EM and include users into it. See Create a New User Group				



	for more details.
Export	Save the list of user groups as a comma separated values (CSV) file.
	The exported .csv is available in 'Dashboard' > 'Reports'
	See Export the List of User Groups for more details.

Export the List of User Groups

- Click 'Users' > 'User Groups'.
- Click the 'Export' button above the table then choose 'Export to CSV':

≡	User Groups		€ + ②	名 Logout	t (herculespopular22@gm
	Create Group				
	NAME Export to CSV	F USERS	CREATED BY		CREATED
	Road Warriors	0	herculespopular22@gma	ail.com [he	2018/07/25 03:16:49 PM
	Office Admins				

- The CSV file will be available in 'Dashboard' > 'Reports'
- See **Reports** in **The Dashboard** for more details.

Sorting, Search and Filter Options

- Click any column header to sort groups in alphabetic or ascending/descending order of the entries in the column.
- Click the funnel button T at the right end to open the filter options.

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D BY	CREA	TED 🔻	K	
wile@ya	. 2016,	/07/05 12	Name	
wile@ya	0 filters	Apply	Lenovo	
			Created By	
			Created	
			From	
			То	

The 'User Groups' interface allows you to:

- Create a New User Group
- Edit a User Group
- Assign Configuration Profile(s) to a User Groups
- Remove a User Group

4.2.1. Create a New User Group

• Click 'Users' > 'User Groups'

The 'User Groups' interface lets you add and populate new user groups. Configuration profiles applied to the group will then be pushed to all devices owned by users in the group.

To create a new user group

- Click 'Users' > 'User Groups'
- Click 'Create Group' above the table.

The 'Create User Group' dialog will open:

	# OF USERS	CREATED BY
Warriors	10	herculespopular22@gmail.com [he
Admins	0	herculespopular22@gmail.com [he
Name *		
Name		
Choose user(s)		

- Name Type a label for the user group.
- Choose User(s) Add users to the group.
 - Start typing the first few letters of a username and select from the suggestions.
 - Repeat the process to add more users.
 Note: You can skip this step and add users later if required. See Edit a User Group for more details.

Complete the name, choose your users (optional at this stage) and click 'Save'.

- The group will be saved and the group details screen will open.
- Profiles can now be applied to the group. See Assign Configuration Policy to a User Group for more details.
- Users can be added or removed from the group at anytime. See Edit a User Group for more details.

Marketing	Staff			
<u>Q</u>	Ē,		7	
Add Users to Group	Manage Profiles	Delete User Group	Rename User Group	
T Remove from Group				
USERN	AME			
Dyanora [Stem Forks]				
Avanti [Saddle and Pedals]				
Writer []	nerculespopular]			

Note: A single user can be a member of more than one group. Profiles from every group of which the user is a member will be applied to the user's device. If the settings in one profile clash with another profile, EM will implement the most restrictive setting. For example, if one profile allows the use of the camera but another profile blocks it, then the device will not be able to use the camera.

4.2.2. Edit a User Group

- The group details screen lets you manage group members, rename the group, or delete the group.
- Click 'Users' > 'User Groups'.
- Click the name of the group you want to edit:

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Create Group	Export				O V	
NAME	# OF USERS	CREATED BY		CREATED	·	
Marketing Sta	<u>ff</u> 3	herculespopular2	2@gmail.com [he	2018/07/25 04:15:44 PM		
Road Walriors	s 0	herculespopular2	2@gmail.com [he	2018/07/25 03:16:49 PM		
Marketing	g Staff					
<u>8</u>	Ē,		7			
Add Users to Group	Manage Profiles	Delete User Group	Rename User Group			
Remove fr	om Group				Ø	Ţ
	ora [Stem Forks]					
Avant	i [Saddle and Pedals]					
Writer	[herculespopular]					

The group details screen allows you to:

- Add new users to the group
- Rename the group
- Assign Configuration profiles to the group
- Remove the group

To add new user(s) to the group

- Click 'Add Users To Group'.
- Select the users you want to add and click 'Save'.
- All group profiles will be applied to the new user's devices. These profiles will be removed from the device if you remove the user from the group.

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≡	User Groups / Marketing Staff	License Options	•	2	오 Logout (coyoteewile@yahoo.com)
ľ	Marketing Staff				
(Add Users to Group Group Group Group	User			
	Remove from Group				٣
	USERNAME				
	Transtar [Dithers Construction Company]				
	Cheff [Dithers Construction Company]				
90 	F1 asoalia(Byahoo com [Deer Company)				
≡	Use Groups / Marketing Staff / Add Users	License Options	"⊕	Ø	A Logout (coyoteewile@yahoo.com)
	+				
	Add Users to Marketing Staff				
	E Save				Ŧ
	USERNAME				
	Coyotewile [Coyote]				
	XYZTest [Coyote]				
	maxlenin2016@outlook.com [Coyote]				
	John [Default Company]				
	gerald@yopmail.com [Dithers Construction Company]				
	User 1 [Coyote]				
	maxlenin2016@outlook.com [Dithers Construction Comp	any]			
	AND THE STORE AND AND THE STORE				

To rename a group

- Click 'Users' > 'User Groups'.
- Click the name of the group you want to re-name.
- Click the 'Rename User Group' button
- Enter the new label in the 'Name' text box and click 'Save':

Mark	ceting Staff					
Add Us Gro	sers to Manage Pro	files Delete User Group	Rename User GR ^{IN} D			
TT Re	move from Group				Q	Y
	USERNAME					
	Rename Grou	ıp			×	
	Name *					
	Marketing Staf	f				
				Save	Cancel	
						-

4.2.3. Assign Configuration Profiles to a User Group

• Click 'Users' > 'User Groups'

The 'User Group Details' pane lets you view the configuration profiles currently applied to a user group and to apply new configuration profiles. The profiles will be applied instantly to all the devices belonging to all users in the group. This is particularly useful if organizations wants to roll out profiles to devices on user group basis. You can select profiles for different operating systems and these will be applied to the respective devices.

For more details on profiles, See Create Configuration Profiles.

To view and manage the profiles applied to a group

- Click 'Users' > 'User Groups'.
- Click on the name of the group whose profiles you wish to manage.

The group details interface opens with a list of all users in the group.

Click 'Manage Profiles' at the top.

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Marketing	Staff				
Add Users to Group	ManadhyProfiles	Delete User Group	Rename User Group		
	\checkmark				
TRemove from	n Group				
USERN	AME				
admin [Default Customer]				
	•				
Manage Pr	ofiles of Mark	eting Staff			
Add Profiles					
	files			ç	3 Y
Add Profiles		МЕ		CREATED BY	3 Y
Add Profiles		МЕ		CREATED BY	3 ▼
Add Profiles	E PROFILE NAI	ME			

The 'Manage Profiles For User Group' interface opens showing the profiles associated with the group.

To add a new profile

Click 'Add Profiles'

Mar	nage Profil	es of Marketing Staff	
D Abb	files		
	Remove Profiles		ΟŢ
	OS TYPE	PROFILE NAME	CREATED BY
		First Profile	herculespopular22@gmail.com
	\$	New Linux	herculespopular22@gmail.com
	V		
Add	Profiles to	o Marketing Staff	
💾 s	ave		O Y
	OS TYPE	PROFILE NAME	CREATED BY
	÷	Finance Dept Android Devices	herculespopular2
	-	Android - Security Level 1 Profile v.6.23	admin
	i ∰i	Android Devices in Sales Dept.	herculespopular2
	¢.	iOS Purchase	herculespopular2
		iOS - Security Level 1 Profile v.6.23	admin

A list of all configuration profiles, available in EM, excluding those already applied to the group will be displayed.

• Select the profiles to be applied to the users in the group and click 'Save'.

The profile will be associated with the group and applied to all the devices used by the members in the group.

To remove a profile from a group

- Click 'Users' > 'User Groups'.
- Click on the name of the group whose profiles you wish to manage.
- Click 'Manage Profiles' at the top of the 'Group Details' interface.
- Select the profile from the 'Manage Profiles' interface and click 'Remove Profiles'

Mar	nage Profil	es of Marketing Staff	
Add Pro			
	Remove Profiles		C T
	Remove Profiles		<i>C</i> ,
	OS TYPE	PROFILE NAME	CREATED BY
	\checkmark	PROFILE NAME Android Devices in Sales Dept.	CREATED BY herculespopular22@gmail.com
	OS TYPE		

The profile(s) will be removed from all the devices belonging to the members of the group.

Note - Disassociating a profile from a user group will remove the profile from devices belonging to the users in that group only if it is applied because the user is a member of that group. If the same profile is applied to a member device through some other source, (like the profile is applied to the device, user of the device or a group to which the device belongs), then the profile will not be removed.

4.2.4. Remove a User Group

• Click 'Users' > 'User Groups'

The 'User Groups' interface lets you remove unwanted user group(s) in Endpoint Manager.

Note: Only Groups that do not contain any members in it can be removed. Ensure that all users are removed from the group before removing it. See the **explanation of removing users from a group** in **Edit a User Group** for more details.

To remove a user group

- Click 'Users' > 'User Groups'
- Click the name of the group to be removed.

The group details interface will be displayed with the list of users in the group.

• Click 'Delete User Group' at the top.

Road Warriors	
Add Users to Group Manage Profiles Delete User Group Group	
Remove from Group USERNAME No results found	
Delete User Group X	
Do you really want to delete this user group?	
Confirm Cancel	

• Click 'Confirm' in the confirmation dialog. The user group will be removed from Endpoint Manager.

4.3. Configure Role Based Access Control for Users

- Click 'Users' > 'Role Management' to open the 'Role Management' interface
- User privileges depend on the roles assigned to them. Administrators can create different roles with
 different access privileges and assign them to users as required. A single user can be assigned to any
 number of roles.
- Comodo One and ITarian customers All staff created in the Comodo One or ITarian interface will be available for selection for all roles and for all companies in the account. This allows you to assign different roles to the same staff member for different companies.
- You can restrict access to selected companies/groups in a role by defining the access scope. Staff can only manage the devices of companies/groups that are allowed by their role.

There are two tabs in the role management interface:

- Roles view and edit each role's permissions. You can also create custom roles here.
- Users view users and assign them to roles

Roles

- The 'Roles' interface allows you to create and manage user roles.
- Each role defines a staff member's rights to access EM modules and to manage users/devices belonging to different companies. You can restrict a role to manage specific companies and specific device groups.
- Endpoint Manager ships with four roles, 'Account Admin', 'Administrators', 'Technician' and 'Users'.
- The 'Account Admin' role can be viewed but not edited. The permissions in the other three roles can be modified. You can also create custom roles according to your requirements.

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Endpoint Manager			/ Roles License Options	*	2	上ogout (herculespopular22	2@gmail.com)
DASHBOARD	>						
DEVICES	>	Roles Users					
USERS	~	≡_+ Add role	Export 🗸				O T
User List		NAME	DESCRIPTION				
User Groups		NAME	DESCRIPTION				# OF USERS
Role Management		Technician	Technician of the system				2
CONFIGURATION TEMPLATES	>	Account Admin	Account Admin of the system				2
APPLICATION STORE	>	Admin_for_sales	for sales dept computers				0
APPLICATIONS	>	Android_Admins	For managing Android Devices				1

- Custom roles and built-in roles are available for selection when adding a new user.
- Admins can add or remove roles at any time. You can also change the role of any user at any time.
- New users are assigned the 'User' role by default. However, you have the option to make any role the default.

	Roles - Column Descriptions				
Column Heading	Description				
Name	 Role label. Click a role name to open the 'Role Management' > 'Role Permissions' screen. You can view and manage permissions assigned to the role. See 'Manage Permissions and Assign Users of a Role' for more details. 				
Description	A short description of the role.				
Number of Users	 Shows how many users are assigned to the role. Click the number to open the 'Assign Users' screen, which lets you manage users assigned to the role. See 'View users assigned to a role' for more details. 				
	Controls				
Add Role	Create new roles and assign them to users. See Create a New Role for more details.				
Export	Save the list of user roles as a comma separated values (CSV) file. The exported .csv is available in 'Dashboard' > 'Reports' See Export the List of Roles for more details.				

- Click a column header to sort the table according to the items in the column.
- Click the funnel \mathbf{y} on the right to implement more filters.
- The roles interface allows you to:
 - Create a new role
 - Manage Roles
 - Edit a role name and description of a role
 - Manage the permissions assigned to a role



Manage the users assigned with a role

Manage
 Remove a Role

Export the List of Roles

- Click 'Users' > 'Role Management'.
- Select the 'Roles' tab
- Click the 'Export' button above the table then choose 'Export to CSV':

Roles Use	rs
≡ ₊ Add role (Export -
NAME	Export to CSV
Technician	Technician of the system
Administrators	This is the super administrator role that has maximum privilege and needs to costain at least one of

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

Users

- The 'Users' interface lets you view users added to EM and the roles assigned to them.
- You can also edit the roles assigned to each user from this interface.
- Click the 'Users' tab to switch to the 'Users' interface:

Endpoint Manager		≡ <u>Role</u>	<u>Management</u> / User	rs Lice	nse Options	* +	0	A Logout (herculespopular2	22@gma	il.com)
DASHBOARD	>									
DEVICES	>	Roles								
USERS	\sim	÷۵	Restore to C1 Default	Export 🗸					C	Y
User List			NAME		EMAIL			ROLES		
User Groups			NAME		EMAIL			ROLES		
Role Management			admin		herculespopula	ar22@gma	iil.com	[Account Admin]		
CONFIGURATION TEMPLATES	>									
0			Avanti		avantistude@g	mail.com		[Users]		
APPLICATION STORE	>		Dyanora		dyanorat481@g	gmail.com	1	[Administrators] [Us	ers]	
APPLICATIONS										

Users - Column Descriptions					
Column Heading Description					
Name	 The login username of the user. Click a username to view and manage roles assigned to the user. See Manage Roles assigned to a User for more details. 				

Email	The registered email address of the user.
Roles	The user roles assigned to the user.
	Click a role name to view and manage permissions assigned to the role. See 'Manage Permissions and Assigned Users of a Role' for more details.
	Controls
Restore to C1 Default	Revert the user's role to the Comodo One or ITarian system default role.
	Applies only to users imported from Comodo One or ITarian. It doesn't apply to users added via EM.
	See restoring user role in Manage Roles Assigned to a User for more.
Export	Save the list of users as a comma separated values (CSV) file.
	The exported .csv is available in 'Dashboard' > 'Reports'.
	See Export the List of Users for more details.

- Click a column header to sort the table according to the items in the column.
- Click the funnel **Y** on the right to implement more filters.

Export the List of Users

- Click 'Users' > 'Role Management'.
- Select the 'Users' tab
- Click the 'Export' button above the table then choose 'Export to CSV':

Roles	Users		
Е р В	estore to C1 Default Export -	>	
	NAME Export to	CSV	ROLES
	admin	herculespopular22@gmail.com	[Account Admin]
	Avanti	avantistude@gmail.com	[Script_Writer] [Users)
	Dyanora	dyanorat481@gmail.com	[Users]
	herculespopular22@gmail.com	herculespopular22@gmail.com	[Account Admin]
	Impala	impalachevvy@gmail.com	[Users]

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

The 'Users' interface allows administrators to:

Manage Roles Assigned to a User

4.3.1. Create a New Role

Administrators can create roles featuring different permissions for staff and users.

To create a new role

- Click 'Users' on the left and select 'Role Management'.
- Click the 'Roles' tab.
- Click 'Add Role' above the table.

s Users		
Add role	DESCRIPTION	
in_for_jurchase_dept	With privileges applicable for purchase dept	
Create New Role		×
Name *		
Name		
Description *		
Description		

The 'Create New Role' wizard will start.

- Specify a name for the role in the 'Name' text box.
- Enter a short description for the role in the 'Description' box.
- Click 'Create'.

The new role will be created and listed in the 'Roles' screen. The next step is to define the privileges for the role.

• Click on the new role to edit its permissions, to assign users to the role, and to specify which companies and device groups the role is allowed to manage.

Roles Users		
≡_ Add role		
NAME -	DESCRIPTION	
Account Admin	Account Admin of the system	
Admin_Device_Intanagement	Administrator for managing de	evices only
Admin_for_putchase_dept	With privileges applicable for p	purchase dept
Administrators	This is the super administrator	r role that has maximum privilege and new
Admin_Device_Management		
T Delete role Edit		
Role Permissions Assign Users	Access Scope	
Save	Apply to all	ON
PERMISSION	DESCRIPTION	ACTION
access_scope.manage	Access to "Access Scope" tab (companies and groups) at "Role Management" page.	OFF
dashboard.audit	Access to "Audit" page.	OFF
dashboard.audit_logs	Access to "Audit Logs" page.	OFF
dashboard.compliance	Access to "Compliance" page.	OFF
dashboard.reports		

The 'Role Details' interface contains three tabs:

- Role Permissions Define access rights and privileges for the role
- Assign Users Select users who should have the role.
- Access Scope Select which companies and device groups can be accessed by staff assigned to the role

To select access rights and privileges for the role

Click the 'Role Permissions' tab if it is not open

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The tab shows a list of all available permissions along with a description of each.

- Use the switches on the right of each item to enable or disable a permission
- · Use the 'Apply to all' switch to enable all permissions or disable all permissions
- · Click 'Save' for your settings to take effect

To assign the new role to selected users

• Click the 'Assign Users' tab.

This opens a list of all users enrolled in EM so far.

Admin_Device_I Make Default	Management		
Delete role Edit			
Role Permissions	Assign Users Access Scope		
			O Y
NAME 🔺	COMPANY	EMAIL	ACTION
NAME ▲ gerald@yopmail.com	company kanchiidly	EMAIL gerald@yopmail.com	ACTION Assign to Role
gerald@yopmail.com	kanchiidly	gerald@yopmail.com nelg@yopmail.com	Assign to Role
gerald@yopmail.com Glen	kanchiidly Deer Company	gerald@yopmail.com nelg@yopmail.com pany yawneerg@yopmail.com	Assign to Role
gerald@yopmail.com Glen Greenway	kanchiidly Deer Company Dithers Construction Com	gerald@yopmail.com nelg@yopmail.com pany yawneerg@yopmail.com	Assign to Role Assign to Role Assign to Role

- Click the 'Assign to Role' links to place a user in the role.
- Click the 'Remove from Role' link to unassign a user from the role.

Tip: You can search for specific user(s) by clicking the funnel icon at the top right.

Select which companies and device groups can be accessed by the role

• Click the 'Access Scope' tab.

This opens a list of all companies added to EM so far. **Device groups** belonging to each company will be listed below the company name.

Admin_Device	_Management		
Delete role Edit			
Role Permissions	Assign Users Access Scope		
Save		Apply to all ON	Ŧ
COMPANY	GROUP	ACTION	
Default Company		ON	
Default Comp	Default Group	ON	
Default Comp	Default Group - Default Company	ON	
Coyote		ON	
Coyote	Sales	ON	
Coyote	Default Group	ON	

- Use the green 'master' switch beside a company name to enable or disable the ability to manage groups belonging to the company. Please note you should have provided appropriate devices management role permissions.
- Use the switches beside a device group to enable or disable access to specific company groups.
- Use the 'Apply to All' switch to enable or disable access to all companies and groups on the page.
- · Click 'Save' for your settings to take effect
- Click the edit button Edit to modify the role's name and description. Please note that you cannot modify the built-in roles, Account Admin, Administrators and Technician.
- Click 'Make Default' if you want this to be the role that is initially assigned to new users. Please note 'Account Admin' role cannot be made as a default role.

4.3.2. Manage Permissions and Users Assigned to a Role

- Click 'Users' on the left and select 'Role Management'.
- Click the 'Roles' tab.
- Click a role name to view details of the role

Roles Users		
➡_ Add role		
NAME -	DESCRIPTION	
Account Admin	Account Admin of the system	
Admin_Device_Management	Administrator for managing de	vices only
Admin_for_punchase_dept	With privileges applicable for p	ourchase dept
Administrators.	This is the super administrator	role that has maximum privilege and new
Admin_Device_Management		
T Delete role Edit		
Role Permissions Assign Users	Access Scope	
Save	Apply to all	ON
PERMISSION	DESCRIPTION	ACTION
access_scope.manage	Access to "Access Scope" tab (companies and groups) at "Role Management" page.	OFF
dashboard.audit	Access to "Audit" page.	OFF
dashboard.audit_logs	Access to "Audit Logs" page.	OFF
dashboard.compliance	Access to "Compliance" page.	OFF
dashboard.reports		AFF

The 'Role Management' interface allows you to:

- Edit the name and description of a role
- Manage the permissions assigned to a role
- View users assigned to a role
- Assign / remove a role to / from users
- Select companies and device groups accessible to a role

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• Set a role as the default role

To edit the name and description of the role

Click the 'Edit' button Edit at the top

Adm Make [in_Device_Manag	ement				
Delete ro	le Edit					
	ermissions Assign	Users A	Access Scope			
PERN	Edit This Role					×
comp	Name * Admin_Device_Mai	nagement		 		895
	Description *					
	Administrator for n	nanaging der	vices only			
				 	O	

• Click 'Ok' for your changes to take effect.

To manage the permissions assigned to a role

- Click the name of the role to open the 'Role Details' interface
- Click the 'Role Permissions' tab if it is not open

Admin_Devi Make Default	ce_Management		
Delete role Edi			
Role Permission	s Assign Users	Access Scope	
Save	_	Apply to all	ON
PERMISSION		DESCRIPTION	ACTION
access_scope.ma	anage	Access to "Access Scope" tab (companies and groups) at "Role Management" page.	OFF
dashboard.audit		Access to "Audit" page.	OFF
dashboard.audit_	logs	Access to "Audit Logs" page.	OFF
dashboard.compl	iance	Access to "Compliance" page.	OFF
			055

The tab shows a list of all available permissions along with a description of each.

- Use the switches on the right of each item to enable or disable a permission
- Use the 'Apply to all' switch to enable all permissions or disable all permissions
- Click 'Save' for your settings to take effect

To view users assigned to a role

- Click the name of the role to open the 'Role Details' interface
- Click the 'Assign Users' tab

Admin_Device_I	Management	t		
Delete role Edit				
Role Permissions	Assign Users	Access Scope		
				O Y
NAME		COMPANY	EMAIL	ACTION
NAME		COMPANY	EMAIL gerald@yopmail.com	ACTION Assign to Role
gerald@yopmail.com		kanchiidly	gerald@yopmail.com	Assign to Role
gerald@yopmail.com Glen		kanchiidly Deer Company	gerald@yopmail.com nelg@yopmail.com	Assign to Role
gerald@yopmail.com Glen Greenway		kanchiidly Deer Company Dithers Construction Company	gerald@yopmail.com nelg@yopmail.com yawneerg@yopmail.com	Assign to Role Assign to Role Assign to Role

The links in the 'Action' column indicate which users are assigned the role.

- Click the 'Assign to Role' links to place a user in the role.
- Click the 'Remove from Role' link to unassign a user from the role.

Tip: You can search for specific user(s) by clicking the funnel icon at the top right.

• Click a username to open a list of all roles assigned to that user, allowing you to add or remove roles from the user as required. Refer to Managing Roles assigned to a User for more details.

To select which companies and device groups can be accessed by the role

- · Click the name of the role to open the 'Role Details' interface
- Click the 'Access Scope' tab

Admin_Device	_Management	
U 🌮 Delete role Edit		
Role Permissions	Assign Users Access Scope	
Save		Apply to all ON
COMPANY	GROUP	ACTION
Default Company		ON
Default Comp	Default Group	ON
Default Comp	Default Group - Default Company	ON
Coyote		ON
Coyote	Sales	ON
Coyote	Default Group	ON

- Use the green 'master' switch beside a company name to enable or disable the ability to manage groups belonging to the company. Please note you should have provided appropriate devices role permission.
- Use the switches beside a device group to enable or disable access to specific company groups.
- Use the 'Apply to All' switch to enable or disable access to all companies and groups on the page.
- Click 'Save' for your settings to take effect

Set a role as the default role

- The default role is automatically applied to any new user unless the admin specifies a different role when adding the user
- The default role is automatically applied to users if their current role is removed

To set the default role:

- Click 'Users' > 'Role Management' > 'Roles'
- Click the name of the role you wish to make default. To open the 'Role Details' interface
- Click 'Make Default' under the name of the role:

Users Make Default			
Delete role Edit			
Role Permissions	Assign Users	Access Scope Apply to all	ON
PERMISSION		DESCRIPTION	ACTION
company.manage.acc	ess-scope	Manage company access (device list) per user role	OFF
dashboard.audit		Access to audit page	ON

The role be set as default. This will be indicated as follows:

Users Default role			
Delete role Edit			
Role Permissions	Assign Users	Access Scope	
Save			Apply to all ON
PERMISSION		DESCRIPTION	ACTION
company manage, acce	ess-scope	Manage company access (de	vice list) OFF

4.3.3. Remove a Role

Administrators can delete roles that are no longer deemed necessary.

- Roles that are currently assigned to users cannot be removed. You should first remove all users from any role you wish to delete.
- The current 'Default' role cannot be deleted. You should make another role the default first.
- The built-in roles ('Account Admin', 'Administrators' and 'Technicians') cannot be removed either.

To remove a role

• Click 'Users' on the left and select 'Role Management'.



- Click the 'Roles' tab.
- Click the 'Role' name to open the 'Role Management' interface
- Click 'Delete Role' at the top

Admin_f	-	chase_dept					
Delete role	F dit						
Role Permis	ssions	Assign Users	Access Scope				
Save							
PERMISSIO				DESCRIPTION	I		
<u>company m</u> a	Delet	e Role				×	
	Do you	ı really want to de	lete this role?				
					Confirm	Cancel	

A confirmation dialog will appear.

• Click 'Confirm' to remove the role.

4.3.4. Manage Roles Assigned to a User

- The 'Users' tab lets you view the roles assigned to each user. A role governs a users permissions and access rights within Endpoint Manager.
- You can add new roles to a user, or remove roles from a user.
 - Note you cannot assign or remove the 'Account Admin' role. This is automatically assigned to the person that created the C1 or ITarian account.
- Comodo One and ITarian customers All staff created in C1 and ITarian will be available for selection in all roles, and for all companies. This lets you assign different roles to the same staff member for different companies.
- You can specify which companies a role can access in the role's 'Access scope':
 - Click 'Users' > 'Role Management'
 - Click the 'Roles' tab
 - Click on a role name to open its details page
 - Open the 'Access Scope' tab
 - Enable or disable access to specific companies as required.

To view the list of users with roles assigned to them

- Click 'Users' > 'Role Management'.
- Select the 'Users' tab.

≡	<u>Role</u>	<u>Management</u> ≻ Users	License Options	⊕ ②	온 Logout (coyoteewile	e@yaho	o.com)
	Delea						
	Roles	Users					
	F ن	Restore to C1 Default				Q	Y
		NAME	EMAIL		ROLES		
		Coyotewile	coyoteewile@yahoo.com		[Users]		
		maxlenin2016@outlook.com	maxlenin2016@outlook.com		[Technician]		
		ssgalia@yahoo.com	ssgalia@yahoo.com		[Technician]		
		anbugiridharan@yahoo.co.in	anbudiridharan@vaboo.co.in		[Administrators]		

The 'Users' interface lets you to:

- Add or remove roles assigned to a user
- Revert a user's role to the Comodo One or ITarian system default role

To manage roles assigned to a user

- Click on the name of a user whose roles you want to manage.
- The interface will show all roles you can assign to the user.
- Click 'Assign to Role' to delegate a new role to the user .
- Click 'Remove from Role' to withdraw membership of a role from a user.

Roles Users	
Roles of ssgalia@yahoo.com	
NAME	ACTION
Account Admin	Assign to Role
Admin_Device_Management	Assign to Role
Admin_for_purchase_dept	Assign to Role
Administrators	Assign to Role
Compliance_Dashboard_blocked	Assign to Role
No_report	Assign to Role
Technician	Remove from Role
Users [default]	Remove from Role
Results per page: 20 💌	Displaying 1-8 of 8 results

To reset the roles to C1 or ITarian default

The following only applies to users added via the C1 or ITarian portal. It does not apply to users added via the Endpoint Manager interface.

- Click 'Users' > 'Role Management'.
- Click the 'Users' tab.

Role	s Users		Default role: Users
¢	Restore to C1 Default		T
	N	EMAIL	ROLES
	Coyotewile	coyoteewile@yahoo.com	[Users]
	YZTest	xyz@yopmail.com	[Users]
	Impala	impalachevvy@gmail.com	[Users]
	cheff	sumeetdomestic@gmail.com	[Users]
	coyoteewile@yahoo.com	coyoteewile@yahoo.com	[Account Admin]
	John	fiatliena@gmail.com	[Users]
	User 1	christmaseve88@yahoo.com	[Users]
۲	ssgalia@yahoo.com	ssgalia@yahoo.com	[Technician] [Users]
	maxlenin2016@outlook.com	maxlenin2016@outlook.com	[Technician]
	sogabe	ssgaka@yahoo.com	

• Select the user and click the 'Restore to C1 Default' button. Use the filter option at top-right if you need to search for users.

Restore to C1 Default		×
You are about to reset user roles to default settings. You will not be able restore the currently selected preferences. Do you want to continue?		
	Confirm	Cancel

• Click 'Confirm' to restore the user with C1 or ITarian default role.

5. Devices and Device Groups

The 'Devices' area allows you to:

- View, manage and take actions upon enrolled devices and device groups.
- Download the packages required for endpoint enrollment, and for enrollment of devices through Active Directory.
- Download the Remote Control tool, which allows staff to remotely access Windows and Mac OS endpoints.

Endpoint Manager		■ Device List				× .		License	Options	ጋ 🔉 	.ogout (herculesp	opular22@gmail.com
DASHBOARD	>											
DEVICES	~	Search group name	< ¹ 8	Group	Management	Device I	Management					
Device List		Show all	Ę.	1		20	≊⊡	Ē,	٥	S		ይ
Bulk Installation Package		🕘 🖶 Default Customer	Enroll D	evice F	emote Control	Remote Tools	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device	Reboot C	wner More
S USERS	>	💿 🖶 Fork Springs Regional Tr				BEIA			Packages	mormation		
CONFIGURATION TEMPLATES	>	+ 🖨 frontfork		Search	or devices							0 C T
APPLICATION STORE	>	+ 🖶 Saddle and Pedals		0S	NAME		ACTIVE COMP	ONENTS PA	TCH STATUS	CUSTOMER	OWNER	LAST ACTIVITY
APPLICATIONS	>											
SECURITY SUB-SYSTEMS	>			۲	C1-Mac's		AGAV			Saddle and Pe	Herald	2018/10/25 03:32:
¢ − SETTINGS	>			Δ	comodo-\	/i	AG AV			Saddle and Pe	Herald	2018/10/25 03:30:
					DESKTOP	- 🤹	AG AV FW	0		Default Custo	Dyanora	2018/10/25 03:23:
				-	DESKTOP	- 🤹	AG AV FW	co Ø		frontfork	herculespopula	2018/07/12 04:39:
					DESKTOP	🤫	AG AV FW	co) 🔺	2	Default Custo	Dyanora	2018/10/25 12:24:
				-	LENOVO_	L	AG AV			frontfork	Avanti	2018/10/25 03:32:
					samsung.		AGAV			Default Custo	Dyanora	2018/10/25 03:30:

The device list area is split into two sections - Device Management and Group Management. A list of companies and company groups is shown to the left of the main information pane.

 Device Management - Shows all devices added to Endpoint Manager. Use the links in the middle column to view devices which belong to a specific company or group.

This area lets you add and manage devices, manage device profiles, install CCS, take remote control of Windows and Mac OS devices, remotely lock devices and more. See 'Manage Devices' for more details.

- Note: See Enroll User Devices if you want help add new devices.
- Group Management Create new device groups, view and manage membership of existing groups, apply
 profiles to groups and more. You can choose the group you wish to manage from the list on the left. See
 'Manage Device Groups' for more details.
- Bulk Installation Package Download the communication client packages required to manually enroll
 devices and/or bulk-enroll devices from Active Directory. You can also download the Remote Control tool
 which allows you to interact with remote Windows and Mac OS endpoints. See Bulk Enrollment of
 Devices for more details.

Note: Before you can enroll devices, you should first have installed an Apple Push Notification (APN) certificate (iOS devices) and/or Google Cloud Messaging (GCM) token (Android devices). See **step 2** of the quick start guide if you have not yet added an APN certificate and/or GCM token.

Process in short:

- Step 1 Enroll users (if you haven't done so already)
- Step 2 Enroll devices (if you haven't done so already). Note you also can use bulk enrollment to



import Windows and MAC devices en masse.

- Step 3 Create Device Groups.
- Step 4 Import Devices into Groups.
- Step 5 Apply Configuration Profiles to Groups.
- Step 6 View Details of and Manage Individual Devices.

Please use the following links to find out more:

- Manage Device Groups
 - Create Device Groups
 - Edit Device Groups
 - Assign Configuration Profile to Groups
 - Remove a Device Group
- Manage Devices
 - Add New Devices
 - Manage Windows Devices
 - Manage Mac OS Devices
 - Manage Linux Devices
 - Manage Android / iOS Devices
 - View User Information
 - Remove a Device
 - Remote Management of Windows and Mac OS Devices
 - Remotely Browse Folders and Files on Windows Devices
 - Remotely View and Manage Processes Running on Windows Devices
 - Apply Procedures to Windows Devices
 - Remotely Install and Update Packages on Windows Devices
 - Remotely Install Packages on Mac OS Devices
 - Remotely Install Packages on Linux Devices
 - Install Apps on Android / iOS Devices
 - Generate an Alarm on a Device
 - Lock / Unlock Selected Devices
 - Wipe Selected Devices
 - Assign Configuration Profile to Devices
 - Set or Reset Screen Lock Passwords
 - Update Device Information
 - Send Text Messages to Devices
 - Restart Selected Windows Devices
 - Change a Device's Owner
 - Change Device Ownership Status
 - Generate Device List Report
- Bulk Enrollment of Devices
 - Enroll Windows and Mac OS Devices by Installing the EM Communication Client Package
 - Enroll the Android and iOS Devices of Active Directory Users
 - Download and Install the Remote Control Tool



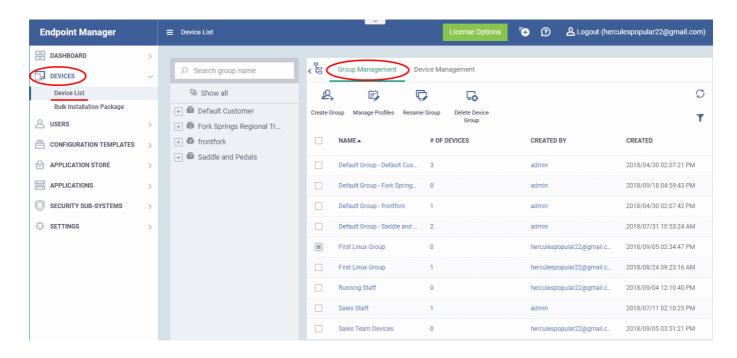
5.1. Manage Device Groups

Click 'Devices' > 'Device List > 'Group Management'

Device groups make it easy to manage large numbers of Android, iOS, Mac, Windows or Linux devices.

The ability to create device groups depends on your account type. See the table below for details:

Comodo One MSP Customers	Can create separate device groups for each Company/Organization enrolled in their Comodo One account. All companies and groups can be selected from the list to the left of the main pane.		
Comodo One Enterprise Customers	Can only create groups under the 'Default Company'.		
ITarian MSP Customers	Can create separate device groups for each Company/Organization enrolled in their ITarian account. All companies and groups can be selected from the list to the left of the main pane.		
ITarian Enterprise Customers	Can only create groups under the 'Default Company'.		
Endpoint Manager Stand-alone Customers	Can only create groups under the 'Default Company'.		



- Click a customer or group name in the middle pane to view devices belonging to that entity.
- The group management tab also lets you create new groups, import devices into groups, assign configuration profiles to groups and more.

To view and manage device groups

- Click 'Devices' > 'Device List'
- Click the 'Group Management' tab
 - Select a company to view the list of groups in that company Or
 - Select 'Show All' to view every device group added to EM

	Device Groups - Column Descriptions
Column Heading	Description

Name	The label of the device group.
	Click a group name to view all devices in that group.
	• You can add or remove devices to/from the group, manage group configuration profiles, export the device list to .csv and more. See Edit a Device Group for more details.
Number of Devices	How many devices are in the group.
Created By	The administrator who created the group.
	 Click the name to view the details of the administrator. See View User Information for more details.
Created	The date and time at which the group was created.

Sorting, Search and Filter Options

- · Click any column header to sort items in alphabetical or numerical order
- Click the funnel icon to configure filters
- Use the search box to find a specific group

Profiles

Configuration profiles containing specific settings can be created for any group. If a device is enrolled in multiple groups, then the group profiles of all groups are applied to the device. If the settings in one group profile clash with those of another, EM follows the most restrictive policy. For example, if a profile allows the use of camera and another restricts its use, the device will not be able to use the camera.

For more details on creating and managing configuration profiles, see **Configuration Templates**.

See the following sections for more details about:

- Create Device Groups
- Edit a Device Group
- Assign Configuration Profiles to a Device Group
- Remove a Device Group

5.1.1. Create Device Groups

- Placing devices into a group lets you run actions and apply profiles to multiple devices at once.
- OS-specific profiles will be automatically applied to relevant devices.

To add a new device group

- Click 'Devices' > 'Device List'
- Click the 'Group Management 'tab
- Select a company/department on the left (C1 MSP and ITarian MSP customers only)
- Click the 'Create Group' button
 - MSP customers can also place their mouse over the company name and click the '+' sign that appears:

COMODO Creating Trust Online*

Ø Search group name	Kanage Group Manage	Search group name	
명 Show all		요 Show all	
🛨 🖶 Default Company	Createliferoup Manage P	🕞 🖶 Default Company	~
- 🖶 frontfork		🕂 🖶 frontfork	+
— Default Group - frontfork	NAME	🕂 🖶 Saddle and Pedals	Ь
— 🖾 First Group	Eirot Croup	······································	
Sales Staff			
🛨 🖶 Saddle and Pedals	Sales Staff		
Default Group - frontfork First Group Sales Staff	First Group		

The 'Add Group' interface will open.

Add Group	×
Name *	
Name	
Company *	
frontfork	
Devices	
Type device name to search among devices	
	Add

'Add Group' dialog - Table of Parameters						
Form Element	Description					
Name	Create a label to identify the group.					
Company The parent company of the group. The company to which the group belongs. If you already selected a company on the left then this field is pre-populated. You cell this field. 						
	 If you selected 'Show All' then you need to choose a parent company for the group. Type first few letters of the company name and select the company from the options. 					
Devices	Choose devices which will be members of the group.					



'Add Group' dialog - Table of Parameters	
Type the first few letters of the device name and select from the suggestions.	
Repeat the process to add more devices.	
 Note - You can only add devices which are enrolled to the parent company. 	
Tip: You can add devices at a later stage too.	

• Fill the details and click 'Add'.

The new group will be created under the company. You can add or remove devices and manage profiles applied to the devices in the group at any time. See **Edit a Device Group** for more details.

Ø Search group name	< 侣 Group	Management	Device Manage		
岛 Show all	Ē	Ģ	Ē	Ę.	
→ 🖶 Default Company - 🖶 frontfork	Manage Profiles	Rename Group	Delete Device Group	Remove from Group	
Default Group - frontfork Eirst Group	0S	NAME	ACTIVE CO	OMPONENTS	PATC
Running Staff		DESKTO	G AG AV	FW[CO]	2
→ C Sales Staff		DESKTO	G AV	FW CO	
	Results per page:	20			

- Repeat the process to add more groups.
- The new groups will be listed for the selected company/department. The added groups will also be listed in the hierarchical structure on the left for the company/department.
- Appropriate configuration profiles can now be applied to each new group. See Assign Configuration Profiles to a Device Group for more details.

5.1.2. Edit a Device Group

The 'Group Management' interface lets you view/add/remove devices, rename the group and manage group policies.

- View or edit a device group
- Add new devices to a group
- Remove devices from a group
- Rename a group
- Assign Configuration profiles to a device group
- Export the list of devices in a group
- Remove a group

To view or edit a device group

- Click 'Devices' > 'Device List'
- C1 MSP and ITarian MSP customers should choose the company/department whose group is to be edited

- Click the name of the group to be edited from the left menu
- Click the 'Group Management' tab on the right

The group management interface for the selected group will open.

O Search group name	Group Management Device Management					🛱 Add Devices to Group	
C All Devices	i 🖗	Ç	Ę, I	Ç,			C
	Manage Profile	Manage Profiles Rename Group Delete Device Remove from Group Group			Ŧ		
+ 🖶 Coyote	os 🔤	NAME	ACTIVE COMPONENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY
– 🖶 Deer Company		Ø DESKTO	AG AV FW CO	<mark>A</mark> 1	Deer Compa	ssgalia@ya	2017/03/10 12:
- 💭 Default Group - Deer		• VMWIN1	AG AV FW CO	Ø	Deer Compa	Impala	2017/03/10 12:
- E Innotek PCs	D 🖗	🍘 samsun	AG		Deer Compa	Impala	2017/03/10 12:
Running Staff Befault Company Default Constructio	Results per page	e: 20 🗸				Dis	splaying 1-3 of 3 results

The list of devices included in the group will be displayed, with their details.

Device Group Details - Column Descriptions						
Column Heading	Description					
OS	The operating system of the device.					
Name	 The label assigned to the device by the user. Grey text color indicates the device has been offline for the past 24 hours. If no name is assigned, the model number of the device will be used as the name. You can assign a new name as required. Click the device name to view device details. See Manage Windows Devices, Manage Mac OS Devices, Manage Linux Devices and Managing Android / iOS Devices for more details. 					
Active Components	 Comodo Client Security modules which are enabled on the device Examples include 'Antivirus', 'Firewall', 'Containment' and 'Agent Only' The possible components for each OS are as follows: Android - Antivirus and agent (EM communication client) iOS - Agent Windows - Antivirus, agent, firewall and containment. Mac OS - Antivirus and agent Linux - Antivirus and agent 					
Patch status	 The number of patches available for Windows endpoints. Patch statuses are as follows: No patches required. All patches are up-to-date. Critical patches are available. The number to the right shows how many are pending. Click the number to view and manage the patches. See View and Install Windows and 3rd 					

	Party Application Patches for more details.
	 Optional patches are available. Click the number to the right to view and manage the patches.
Company	The name of the company to which the device is enrolled.
	C1 MSP customers/ITarian MSP customers can enroll devices to any of the companies they have created in C1/ITarian.
	C1 Enterprise / ITarian Enterprise / EM standalone customers can only use the 'Default company'.
Owner	The device user.
	Click the user name to open the 'View User' interface. See View User Information for more details.
Last Activity	The date and time at which the device last communicated with the EM server.
	Controls
Add Devices to Group	Add devices of any operating system to the group. See Add new devices to a group for more details.
Manage Profiles	View and apply configuration profiles to all member devices in the group at once. See Assign Configuration Profiles to a Device Group for more details.
Rename Group	Change the label of the group.
Delete Device Group	Remove unwanted device groups from EM.
	Note - You cannot delete a device group unless it is empty. Remove all member devices before deleting.
	See Remove a Device Group for more details.
Remove from Group	Remove unwanted devices from the group. See Remove devices from a group for more details.
Export	Save a list of devices in the group in .csv format.
	The exported .csv is available in 'Dashboard' > 'Reports'

• Click column headers to sort the items in ascending/descending order of entries in that column.

Search and Filter Options

- Click the funnel button **Y** at the right end to open the filter options.
 - To filter the items or search for a device based on its OS, online status, name, patch status, company. Owner and/or a period of last activity, enter the search criteria in part or full in the text box and click 'Apply'.
 - To display all the items again, remove / deselect the search key from filter and click 'OK'.
 - EM returns 20 results per page when you perform a search. To increase the number of results displayed per page up to 200, click the arrow next to 'Results per page' drop-down.

Add New Devices to a Group

Click 'Devices' > 'Device List'



- · C1 MSP customers / ITarian MSP customers choose the parent company on the left
- · Click the name of the group you want to edit
- Click the 'Group Management' tab
- Click 'Add Devices to Group' at the top right.

Note: You can only add devices which belong to the same company as the group.

The interface will list all devices enrolled to the company that are not already in the target group:

، Ъ	Group Management D		Device Manage	ement				Add Devices to Group
	e Profiles	Rename Group						O T
	OS	NAME	ACTIVE CO	MPONENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY
		DESKTOP-TT	Г 🛕 🖪 🗛		A 1	Deer Company	ssgalia@yahoo.c	2017/03/10 02:02:43
Results p	per page:			/				Displaying 1 of 1 results
< B	Group	Management	Device Manage	ement			+	Back to Group View
(₽)							Q
	Selected vices	Ľ						Y
	OS	NAME	ACTIVE C	OMPONENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY
		VMWIN10CC) 🛕 🖪 🗛	VFWCO	0	Deer Company	Impala	2017/03/10 02:17:46
		samsung_SN	M AG A	V		Deer Company	Impala	2017/03/10 02:13:22
	÷	Sony Ericsso	on AG A	V		Deer Company	Impala	2016/08/07 02:25:53
Results p	oer page:	20 🗸						Displaying 1-3 of 3 results

• Select the devices to be added to the group and click 'Add Selected Devices'.

Tip: You can filter or search for specific devices using the filter options that appear on clicking the funnel icon at the top right.

A confirmation dialog will appear.

Add Selected Devices	×
Do you really want to add selected device(s) to the device group?	
Confirm	Cancel

• Click 'Confirm'. The devices will be added to the group.

Once the device(s) are added to the group, the configuration profiles, associated with the group, will be applied to the device, in addition to the profiles, which are already in effect on the device.

Tip: You can add a device to a group from the 'Device Details' interface too. For more details, see **View and Manage Device Group Membership**.

Remove Devices from a Group

- Click 'Devices' > 'Device List'
- C1 MSP customers / ITarian MSP customers choose the parent company on the left
- Click the name of the group you want to edit
- Click the 'Group Management' tab
- Choose the devices you want to remove
- Click 'Remove from Group'

، ۴	Group	Management	Device Management			
	Profiles	Rename Group	Delete Device Group	Export		
	OS	NAME	ACTIVE COMPONENTS	PATCH STATUS	COMPANY	OWNER
		• DESKTO	ag av Fri co	8 2	frontfork	Avanti
	- 1	LENOVO			frontfork	Avanti
	Remo	ove from Gro	pup			×
	Do you	ı really want to r	emove selected device(s) from	m device group?		
				Confi	m Canc	el

• Click 'Confirm' in the confirmation dialog.

If a device is removed from a group, any group profiles will also be removed from the device.

Tip: You can remove the membership of a device to a group, from the 'Device Details' interface too. For more details, see **View and Manage Device Group Membership**.

Rename a Group

- Click 'Devices' > 'Device List'
- C1 MSP customers / ITarian MSP customers choose the parent company on the left



- Click the name of the group you want to edit
- Click the 'Group Management' tab
- Click 'Rename Group'

•

Alternatively, move your mouse over the group name and click the pencil icon

© Search group name	Group Management Dev	Ø Search group name
Show all	🖻 🦷 🖓	9월 Show all
+ 🖶 Default Company	Manage Profiles Renar	🔸 🖨 Default Company
- 🖶 frontfork		🔄 🖶 frontfork
Default Group - frontfork	OS NAME	Default Group - frontfork
First Group		- First Group
Running Staff	🔲 📲 🛛 DESKTO 🍕	— C Running Staff
- O Sales Staff		🖳 🖸 Sales Staff
🔹 🖨 Saddle and Pedals	ENOVO	🛞 🖶 Saddle and Pedals

The 'Rename Group' dialog will open.

Rename Group	×
Name * Running Staff	
	Rename

• Enter a new name for the group in the 'Name' text box and click 'Rename'.

The group will be updated with the new name.

Export the List of Devices in a Group

- Click 'Devices' > 'Device List'
- C1 MSP customers / ITarian MSP customers choose the parent company on the left
- Click the name of the group you want to edit
- Click the 'Group Management' tab
- Click the 'Export' button above the table then choose 'Export to CSV':

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، ۴	د 🖥 Group Management		Device Manag	ement			C Add
	Profiles	Rename Group	Delete Device Group	Remove from Group	Export		
	OS	NAME	ACTIVE CO	OMPONENTS	Export to C PATCH STATC		OWNER
		DESKTO	AG AV	FW[CO]	(3) 2	frontfork	Avanti
	-	LENOVO	AGAV			frontfork	Avanti
		DESKTO	G AG AV	FW CO	<u>@</u>	frontfork	herculespop

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.



5.1.3. Assign Configuration Profiles to a Device Group

You can view profiles currently assigned to a device group, add new profiles or remove existing profiles.

• See Configuration Profiles if you need help to create a profile.

To view and manage the profiles applied to a group

- Click 'Devices' > 'Device List'
- C1 MSP customers / ITarian MSP customers choose the parent company on the left
- Click the name of the group you want to edit
- Click the 'Group Management' tab
- Click 'Manage Profiles' from the options at the top
- This will show a list of all profiles associated with the device:

Endpoint Manager	Device List / Saddle and Pedals / Default Group - Saddle and Pedals
DASHBOARD >	
DEVICES ~	Search group name Group Managem
Device List	🖳 🖽 Show all
Bulk Installation Package	🕘 🖶 🖨 Default Customer Manage Profiles Rename G
\triangle users \rightarrow	🕂 🖶 Fork Springs Regional Tr
CONFIGURATION TEMPLATES	+ 🖶 frontfork 🗌 OS NAME
APPLICATION STORE	- 🖶 Saddle and Pedals
	Default Group - Saddle and
APPLICATIONS >	- First Linux Group
Manage Profiles of Default G	roup - Saddle and Pedals
•	
Add Profiles	
Remove Profiles	O T
OS TYPE PROFILE NAME	CREATED BY
Android Devices in S	Sales Dept. herculespopular22@gmail.com
Patch Procedure	herculespopular22@gmail.com
First Profile	herculespopular22@gmail.com

To add a new profile

- Click 'Add Profiles' at the top.
- Select the profiles you want to apply to the group then click 'Save'.

Mar	nage Profil	es of Default Group - Sac	Idle and Pedals		
Add P	<u> </u>				
F	Remove Profiles			C	Y
	OS TYPE	PROFILE NAME	CREATED BY		
	- <u>1</u>	Android Devices in Sales Dept.	herculespopular22@gmail.com		

Add Profiles to Default Group - Saddle and Pedals							
•	Save		S 🕈				
	OS TYPE	PROFILE NAME	CREATED BY				
	÷	Finance Dept Android Devices	herculespopular22@gmail.com				
	÷	Android - Security Level 1 Profile v.6.23	admin				
	Ċ.	iOS Purchase	herculespopular22@gmail.com				
	é	iOS - Security Level 1 Profile v.6.23	admin				
		Mas OS for Stores Dept	herculespopular22@gmail.com				
		icon at ten right to filter the list or ecouph for a speci	ada ana ana ang ang ang ang ang ang ang an				

Tip: Click the funnel icon at top-right to filter the list or search for a specific profile.

EM applies all profiles which are appropriate for a device's operating system.

To remove a profile from a group

• Select the profile(s) to be removed, from the 'Manage Profiles' interface and click 'Remove Profiles'

Mar	Manage Profiles of Running Staff							
Add Pr	-							
	Remove Profi	les	Ţ					
	Remove Profi OS TYPE	PROFILE NAME	OWNER					
			OWNER coyoteewile@yahoo.com					
	OS TYPE	PROFILE NAME						
	OS TYPE	PROFILE NAME Machintosh Profile	coyoteewile@yahoo.com					

The profile(s) will be removed from member devices of the group, where applied, according to their operating system(s).

Note: Disassociating a profile from a device group will remove the profile from devices only if it is applied because the device is a member of that group. If the same profile is applied to a member device through some other source, (like the profile is applied to the user of the device or a group to which the user belongs), then the profile will not be removed.

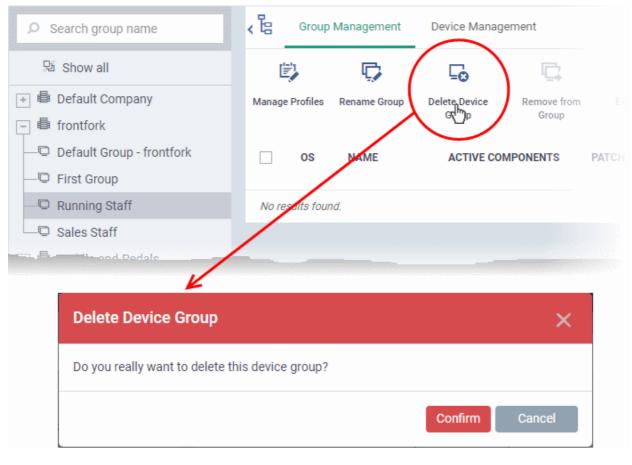
5.1.4. Remove a Device Group

• Note - you cannot delete a device group unless it is empty. Remove all member devices first.

To remove a device group

- Click 'Devices' > 'Device List'
- · C1 MSP customers / ITarian MSP customers choose the parent company on the left
- Click the name of the group you want to edit
- Click the 'Group Management' tab
- Ensure there are no devices in the group. See Remove all devices from the group if required.
- Click 'Delete Device Group'.

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• Click 'Confirm' to apply your changes

The device group will be removed from EM.

5.2. Manage Devices

Click 'Devices' > 'Device List' > 'Device Management'

Note: If you haven't done so already, you should first enroll users then enroll their devices.

- The 'Device Management' screen is an inventory of all mobile devices and endpoints for a company.
- It shows each device's connection and patch status, which security components are enabled, recent activity, and more.

Endpoint Manager	=	Device List				×.		Lice	ense Options	<u>م</u> و	Logout (he	rculespop	oular22@gmail.com)
DASHBOARD		Search group name	، ۴	Group	Management	Device N	Nanagement	>					
Device List Bulk Installation Package USERS		 Show all 	Enroll De	vice R	emote Control	Remote tools	Run Procedure	Manage Profile	s Install or Update Packages	C Refresh Device Information	Reboot	Owner	More
CONFIGURATION TEMPLATES	>		ρs	earch f	or devices		ACTIVE COMP	PONENTS	PATCH STATUS	CUSTOMER	OWNER		
APPLICATIONS				\	LENOVO)_Le	AG AV			frontfork	Avanti		2018/10/17 01:18:1
SETTINGS				<u>∆</u>	Joe Linu DESKTO		AG AV	CO .	<u>▲</u> 1	Saddle and Ped frontfork	Herald Avanti		2018/10/17 01:09:4 2018/10/17 01:09:2
				*	samsun Herald A		AG AV			Default Customer	Dyanora		2018/10/17 01:08:1

From this area you can:

- Enroll new devices for management (Windows, Mac, Linux, iOS and Android)
- Add or remove profiles on any selected device
- · Install Comodo Client Security and other packages on Windows, Mac OS and Linux endpoint
- Take remote control of Windows and Mac OS devices
- · Browse folders and files on Windows endpoints
- · View and manage currently running processes on Windows endpoints
- · View applications installed on Windows endpoints
- · Remotely uninstall applications from Windows endpoints
- · Remotely run procedures on Windows endpoints
- · Remotely install OS and third-party application patches on Windows endpoints
- · Remotely restart Windows endpoints
- Sound an alarm on mobile devices
- Send custom text messages to mobile devices
- · Remotely wipe mobile devices
- Remotely lock mobile and Mac OS devices
- Reset lock-screen passcodes
- · View detailed information about any device by simply clicking the device name
- · View and edit device owner information by clicking the owner name
- View and manage device group memberships of a device
- Generate a device details reports



Open the 'Device Management' interface

- Click the 'Devices' > 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane

The interface shows devices belonging to the company or group selected on the left.

• Select 'Show All' to view every device enrolled to EM.

	Devices - Column Descriptions
Column Heading	Description
OS	The operating system of the device.
Name	The label assigned to the device by the user. If no name is assigned, the model number of the device will be used as the name.
	The circle to the left of the name shows the device's connection status:
	 Gray - Device is not reachable. The connection maybe down or the endpoint is switched off.
	 Blue - Slow connection. The device is connected but commands and messages may take some time to execute since the endpoint is busy.
	Green - Good connection. Commands should be executed in real time.
	Windows endpoints also have a shield icon to the right of their name. The shield has a colored circle on it which indicates the status of Comodo Client Security (CCS):
	Yellow - CCS is not installed on the endpoint.
	Click the shield icon to remotely install CCS on the endpoint.
	The 'Install Additional Comodo Packages' dialog will appear.
	Install Additional Comodo Packages
	Install Comodo Client - Security
	Reboot options Force the reboot in
	5 minutes
	O Suppress the reboot 1
	 O Warn about the reboot and let users postpone it
	Reboot message
	Your device will reboot in 5 minutes because it's required by your administrator
	Install
	CCS requires the endpoint to be restarted in order for the installation to take effect.
	Configure the 'Restart' options and click 'Install'.
	 See the explanation of remote installation of CCS in Remotely Install and Update Packages on Windows Devices for more details



		Gray	-	Outdated clients. Communication Client (CC) and/or Comodo Client Security (CCS) on the endpoint require updates. Note. This status is only shown on endpoints that have CC 6.16 + and CCS 10.0 + installed.
		Red	-	The endpoint is at risk. One or more of security components (AV, FW or containment) may have been disabled by the user.
				Place your mouse over the icon to view the warning:
				Multiple protection components are disabled!
				AG AV FW CO
				AC AV
		Amber	-	The endpoint needs attention. The virus signature database might be out-dated or the endpoint needs to be re-started after installation of CCS.
				Place your mouse over the icon to view the full message
		Green	-	The endpoint is secure. All installed components are up and running.
		Blue	-	CCS is in 'Silent Mode'.
				Note : CCS lets users enable 'Silent Mode' if they do not want to be disturbed by product notifications. For example, when running a full-screen presentation.
				Alerts and notifications are suppressed and operations that could interfere with their work are postponed.
		A	-	Communication with CCS on the endpoint has been lost.
		Win	dow	e device name to open the device details interface. See Manage rs Devices, Manage Mac OS Devices and Manage Android / iOS for more details.
Active Components				nodules are installed on the device. Possible components are 'Agent', irewall' (FW) and 'Containment'.
		Andı com		devices - The agent will automatically install the AV (antivirus) ent.
		iOS	devi	ces - Only the agent (EM client) will be installed
		Con	tainr	s endpoints - Available components are - Agent, AV, FW (firewall) and nent. These components are installed automatically when a profile the components is installed.
		Mac	OS	endpoints - Available components are EM Agent and AV
	Com			s is indicated by color:
				Installed and active
		Gray	/ - In	stalled but disabled by profile setting
		 Blue base subr 	(on elinir nitte	ly applies to the 'Containment' module) - The containment module is ing the device. During the baseline period, unknown files are auto- d to Valkyrie for analysis, but are not placed in containment. See e Settings in Containment Settings for help to configure baseline

	settings.
	Blank - Component is not installed.
Patch status	Indicates the number of patches available for Windows endpoints. Patch status icons are as follows:
	 No patches required. All patches are up-to-date.
	 Critical patches are available.
	The number to the right shows how many are pending. Click the number to view and manage the patches. See View and Install Windows and 3rd Party Application Patches for more details.
	 Optional patches are available. Click the number to the right to view and manage the patches.
Company	The name of the company to which the device is enrolled.
	Comodo One MSP customers can enroll devices to any of the companies they have created in C1.
	Comodo One Enterprise customers / EM standalone customers can only use the 'default company'.
Owner	The device user.
	 Click the user name to open the 'View User' interface. See View User Information for more details.
Last Activity	The date and time at which the device last communicated with the EM agent.

• Click a column header to sort items in ascending/descending order of entries in that column.

Search and Filter Options

- The search box at the top allows you filter devices based on any parameter in the table.
- Alternatively, you can click the funnel button **T** on the right to open filter options.

nroll Device	Remote Control	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device	Reboot	Owner	Send Message	Passcode	More
				, assurges						_
O Searc	h for devices									0 0

- Click the info-box at right of the search field to view hints about search methods
- Enter your search criteria and click the magnifying glass to view devices matching the criteria.

You can search using the following criteria:

- OS Enter the operating system of the devices you wish to view.
- Online/Offline status Type 'Online' or 'Offline'
- Name Enter the name of the device in part or full
- CSS Status Type one of the following values as required:
 - Not installed



- Not supported
- Secure
- Silent mode
- Need attention
- At risk
- · Company Enter the customer company name in part or full
- Owner Enter the name/email address of the device owner in part or full
- Last Activity Enter a date in YYYY/MM/DD format to filter devices by the time of their last connection with EM.
 - You can use operators such as '<, '>', '<=' and '>=' to view devices before or after the date.
 - To view devices within a range, enter start and end dates as follows: YYYY/MM/DD -YYYY/MM/DD
- Clear any search terms and click the magnifying glass to view all devices again.

You can also access filters by clicking the funnel button \mathbf{T} on the right:

		୍ଦ୍ର 🕐
ANY .	OS	
	Android	
ompany	ios	
617	Windows	
mnany	macOS	
	Linux	
	Online status	
	Online	
	Offline	
	Name	
	Name	
	Client security status	
	Client security is not installed	
	Not supported client(s)	
	Secure	
	Silent mode	
	Need attention	
	At risk	

- EM shows 20 results per page by default. Click the arrow next to 'Results per page' to increase this to a max. of 200.
- Use the left and right arrows and the page numbers to navigate to the page you want to view.

Please use the following links to find out more:

- Add New Devices
- Manage Windows Devices
 - View and Edit Device Name
 - View Summary Information
 - View Hardware Information
 - View Network Information
 - View and Manage Profiles Associated with Windows Device
 - View and Manage Applications Installed on a Device
 - View List of Files on the Device
 - View CCS Configuration Exported from the Device
 - View MSI Files Installed on the Device through Endpoint Manager
 - View and Install Windows and Third Party Application Patches
 - View Antivirus Scan History
 - View and Manage Device Group Memberships
 - View Device Logs
- Manage Mac OS Devices
 - View and Edit Mac OS Device Name
 - View Summary Information
 - Manage Installed Applications
 - View and Manage Profiles Associated with the Device
 - View Mac OS Packages Installed on the Device through Endpoint Manager
 - View and Manage Device Group Memberships
- Manage Linux Devices
 - View and Edit Linux Device Name
 - View Summary Information of Linux Device
 - View Network Information of a Linux Device
 - View and Manage Profiles Associated with a Linux Device
 - View Linux Packages Installed on a Device through Endpoint Manager
 - View and Manage Device Group Memberships
- Manage Android / iOS Devices
 - View and Edit Device Name
 - View Summary Information
 - Manage Installed Applications
 - View and Managing Profiles Associated with the Device
 - View Sneak Peek Pictures to Locate Lost Device
 - View the Location of the Device
 - View and Manage Device Group Memberships

5.2.1. Add New Devices

Device enrollment is covered in the users section of this guide.



• See Enroll User Devices for help to add new devices.

5.2.2. Manage Windows Devices

- The device details page lets you view a device's hardware and software, installed components and network connections.
- You can also manage device profiles, installed applications, patches and device group membership.

Note: If you haven't done so already, you should first enroll users then enroll their devices.

View and manage a Windows device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the main configuration pane
 - Select a company or group to view devices in that group Or
 - Select 'Show all' to view every device enrolled to Endpoint Manager
- Click the name of any Windows device to open its details pane:

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DASHBOARD DEVICES Device List Bulk Installation Package Bulk Installation Package AUSERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SECURITY SUB-SYSTEMS SETTINGS VECHMONSTER Owner: herculespopular22@gm Imanage Profiles	 P Search group name P Show all P Default Customer P Fork Springs Regional Tr. P frontfork Saddle and Pedals 	Enroll Device Re	emote Control Remote Tools Run P	ement rocedure Manage Profile. MPONENTS PATCH ©
Device List Bulk Installation Package Quisers CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS TECHMONSTER Owner: herculespopular22@gm	 Show all Default Customer Fork Springs Regional Tr frontfork Saddle and Pedals 	Enroll Device Re	emote Control Remote Tools Run P errote devices NAME ACTIVE CO	rocedure Manage Profiles Manage Profiles MPONENTS PATCH
Bulk Installation Package USERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS	 + ● Default Customer ● ● Fork Springs Regional Tr ● ● frontfork + ● Saddle and Pedals 		emote Control Remote Tools Run P erra or devices NAME ACTIVE CO IECIM- CO	rocedure Manage Profiles MPONENTS PATCH
USERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS CURCENTRY SUB-SYSTEMS CURCENTRY SUB-SYS	 Fork Springs Regional Tr <!--</td--><td></td><td>DI devices</td><td>MPONENTS PATCH</td>		DI devices	MPONENTS PATCH
CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS CURRENT CONSTER CONNER: herculespopular22@gm	 	Search for Search for Search for	ACTIVE CO IECTOR CO	
APPLICATION STORE	* Saddle and Pedals	- os		
APPLICATIONS > SECURITY SUB-SYSTEMS > SETTINGS > TECHMONSTER Owner: herculespopular22@gm				
SECURITY SUB-SYSTEMS	nail.com		0	
SETTINGS	nail.com		0	
TECHMONSTER Owner: herculespopular22@gm	nail.com		• Samsun AG AV	
Owner: herculespopular22@gm	nail.com		A	
Owner: herculespopular22@gm	nail.com			
Owner: herculespopular22@gm	nail.com			
-				
Manage Profiles Remote Control	2 1] 🚺	S	
	Remote Tools Run Proc	cedure Install or Up Package		More
Device Name Summary	Networks Ass	sociated Profiles	Software Inventory	MSI Installati
	_			
Device Summary		OS Sum	mary	
Custom device TEC	HMONSTER	os	Windows	
name		OS name		indows 10 Pro
	HMONSTER	OD warsis	(x86) OS version 10.0.17134	
Logged in user girid	1			
AD\LDAP N/A	A.	Service p		
Domain\Workgroup WO	RKGROUP	Build vers		
Formfactor PC		Reboot ti	me 2018/10/26	11:30:15 AM
Model 200	78	Reboot re		-
Communication 6.23 Client version	3.18107.18100		shutdown at on 10/26/20	t 10:54:58 AM)18 was

The details screen contains a maximum of thirteen tabs:

- Device Name The device label. You can change this as per your preference. See View and Edit Device Name for more details.
- Summary General details about the device. This includes hardware and OS information, resource usage data, and an overview of CCS configuration. See View Summary Information for more details.
- Hardware Hardware configuration of the selected device. This tab is only available if legacy Comodo RMM agent is installed. See View Hardware Information for more details.

- Networks Information about the device's network card, MAC address, IP address, and more. See View Network Information for more details.
- Associated Profiles Details of the profiles deployed on the device. See View and Manage Profiles Associated with the Device for more details.
- Software Inventory Applications installed on the device. See View Applications Installed on a Device for more details.
- File List Inventory of files on the device along with their file rating ('Unrecognized', 'Trusted' or 'Malicious'). See View the Files on a Device for more details. Note - the 'File List' tab is only available if Comodo Client Security is installed on the device. See Remotely Install and Update Packages on Windows Devices for more details.
- Exported Configurations Saved Comodo Client Security configuration files. These files let you export CCS settings to different endpoints. See View CCS Configurations Exported from the Device for more details. Note - the 'Exported Configurations' tab is only available for devices with Comodo Client Security installed. See Remotely Install and Update Packages on Windows Devices for more details.
- MSI Installation State MSI packages that have been installed on the device via Endpoint Manager. See View MSI Files Installed on the Device through Endpoint Manager for more details.
- Patch Management A list of available patches for the device. See View and Install Windows and 3rd Party Application Patches for more details.
- Antivirus Scan History A list of all threats identified on the device over time, and the actions taken by Endpoint Manager in response. See View Antivirus Scan History for more details. Note - the 'Antivirus Scan History' tab is only available if Comodo Client Security is installed on the device. See Remotely Install and Update Packages on Windows Devices for more details.
- **Groups** A list of device groups to which the endpoint belongs. You can also manage group membership from here. See **View and Manage Device Group Membership** for more details.
- Logs View event logs from activities recorded on the device. See View Device Logs for more details.
 - Alert Logs Alerts generated because of a breach of monitoring conditions or because of a
 procedure deployment.
 - Monitoring Logs Monitoring rules can be added to an EM policy to observe resource usage on a device. For example, you may wish to create a log entry if CPU usage goes above 75% for a certain period of time.
 - Script Logs Script procedures that were run on the Windows device. Scripts can be run manually or automatically via a profile schedule.
 - Patch Logs A record of operating system patch installations. Patches can be installed manually
 or automatically via a profile schedule.
 - Third Party Patch Logs A record of patch installations for non-Comodo applications.
 - Installation Logs Apps installed on the device from the Windows Application store (Application Store > Windows Application Store). See Install Windows Apps on Devices for more details.

You can remotely perform various tasks on the device using the buttons above the table:



- Manage Profiles Add/remove configuration profiles to/from the device. These profiles are in addition to any group profiles applied to the device. See Assign Configuration Profiles to Selected Devices for more details.
- Remote Control Access the endpoint over a remote desktop connection. See Remote Management of Windows and Mac OS Devices for more details.

Tip: Customers using our legacy RMM product can connect to Windows endpoints using the RDP feature built into that product. See https://help.comodo.com/topic-289-1-719-8539-Introduction-to-Remote-Monitoring-and-Management-Module.html for more details.

- Remote tools Explore files and folders on the managed Windows device. See Remotely Browse Folders and Files on Windows Devices for more details.
- **Run Procedure** Execute script, patch and third-party application patch procedures on the device. See **Apply Procedures to Windows Devices** for more details.
- Install or update MSI Packages Remotely install Comodo endpoint security software and third party Windows packages. See Remotely Install and Update Packages on Windows Devices for more details.
- **Refresh Device Information** Contacts the device and updates system information. See **Update Device Information** for more details.
- Reboot Remotely restart the device. See Restart Selected Windows Devices for more details.
- Export Security Configurations Export the device's current CCS configuration as a profile. Exported
 profiles can be viewed under the Exported CCS Configurations tab. These can then be imported later as
 a Windows profile, potentially for deployment to other devices. See Import Windows Profiles for more
 details.
- Delete Device Removes the device from Endpoint Manager. See Remove a Device for more details.
- Change Owner Change the user with whom the device is associated. You can also change the type of device to corporate or personal. See Change a Device's Owner and Change the Ownership Status of a Device for more details.

5.2.2.1. View and Edit Device Name

- Enrolled devices are listed by the name assigned to them by their owner.
- If no name was assigned then the actual device name or model number will be used.
- Admins can change the device name according to their preferences. If you change a device name, the name will apply in Endpoint Manager but will not change the name on the endpoint itself.
- If 'Allow Auto Rename of Device Custom Name' is enabled then the custom name will be replaced automatically by the device name/model number during the next sync. To retain the custom name for the device, make sure to disable this option.

To change a device name

- · Click the 'Devices' link on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view the list of devices in that group Or
 - Select 'Show all' to view every device enrolled to EM
- Click on any Windows device then select the 'Device Name' tab

TechMonster2 Owner: Dyanora Ň٦ -Ë) • Manage Profiles Refresh Device More Remote Control Remote Tools Run Procedure Install or Update BETA Packages Information Device Name Summary Networks Associated Profiles Software Inventory File List) Custom device name TechMonster2 Allow auto rename of device custom name Enabled

- Custom device name The current name of the device.
- Allow auto rename of device custom name Indicates whether the device's name will automatically replace the custom name in the list during the next sync with the EM communication client.
- To change the name of the device, click the 'Edit' button at the right.

evice Name	Summary	Networks	Associated Profiles	Software Inventory	File List
				(₹ Edit
Custom device	e name				<u> </u>
TechMonster2					
Allow auto ren Enabled	ame of device cu	istom name			
chabled					
				😣 Cancel	🖺 Save
Custom device	name				
TechMons	ter2				Restore
Allow aut	o rename of de	evice custom i	name		

- Enter the new name in the 'Custom Device Name' field
- Make sure the 'Allow Auto Rename of Device Custom Name' is disabled to retain the custom name in the list. If this is enabled, the custom name will be automatically replaced with the device's name or model number during the next sync with the EM communication client on the device.

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• Click 'Save' for your changes to take effect.

The device will be listed with its new name.

• To restore the name of the device as it was at the time of enrollment, click 'Edit' from the 'Device Name' interface, click 'Restore' at the right and click 'Save'.

5.2.2.2. View Summary Information

The 'Summary' tab contains general device information, including operating system details, hardware details, last activity, CCS configuration and resource usage.

To view the device summary

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab
 - Select a company or a group to view devices in that group

Or

- Select 'Show all' to view every device enrolled to EM
- Click on the name of a Windows device then open the 'Summary' tab:

evice Name	Summary	Networks	Associated Profiles		Software Inventory	MSI Installation State	Patch Managem
Device Sumn	nary			l	OS Summary		
Custom device	name	TECHMONSTER			os	Windows	
Name		TECHMONSTER			OS name	Microsoft Window	/s 10 Pro (x86)
Logged in user		admin			OS version	10.0.17134	
AD\LDAP		N/A			Service pack	N/A	
Domain\Workg	jroup	WORKGROUP			Build version	17134	
Formfactor		PC			Reboot time	2018/10/26 11:30):15 AM
Model		20078			Reboot reason	The previous syst	
Communication	n	6.23.18107.1810	D			10:54:58 AM on 1 unexpected.	0/26/2018 was
Processor		Intel(R) Core(TM) 2.10GHz	i3-2310M CPU @				
Serial number		2673613304111					
System model		20078					
System manufacturer		LENOVO					
Ownership type	е	Not specified					
Last connectio	n	2018/10/26 12:02	2:49 PM				

- **Device Summary** Basic hardware, software, user and connection information. Includes device name, user, operating system, active directory domain, ownership type, IP address, local time zone and more.
- OS Summary Detailed information about the device operating system. Includes OS build, service pack availability, last restart time, reason for last reboot and more.
- Security Products Info Details about the Comodo security client installed on the endpoint. The security
 client provides the antivirus, firewall and containment services required to protect the device. Information in
 this section includes active security components, database update status, the amount of time remaining in
 baseline mode, and more.
- **Performance Metrics** Current hardware resource usage on the device. Includes CPU, RAM, network and disk. The details are refreshed every 30 seconds.

5.2.2.3. View Hardware Information

Note: This section is only available for devices that have the legacy Comodo RMM agent installed.

This screen contains basic details about a device's motherboard and hardware setup (RAM slots, processor type etc).

To view a device's hardware details

- · Click the 'Devices' link on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view the list of devices in that group Or
 - · Select 'Show all' to view every device enrolled to EM
- Click on any Windows device then select the 'Hardware' tab

	DESKTOF	P-TTPO9PR							
Ma	i 🎲	Install MSI/Packages	C Refresh Information	Reboot	Delete Device	Change Owner	r Change Ownership Type	F Run Procedure	
C)evice Name	Summary	Hardware	Networks	Associated F	Profiles S	Software Inventory	MSI Installation State	Þ
J	Hardwar	re Information							
	Motherboa Oracle Corp	rd Manufacturer							
	Motherboa VirtualBox	rd Product							
	Number Of 0	Ram Slots							
	Rams								
	Processors	5							
		l odel itel(R) Core(TM) i3-6	100 CPU @ 3.70G	iHz					
		l anufacturer enuineIntel							

5.2.2.4. View Network Information

The 'Networks' screen shows details about the network(s) to which an endpoint is connected.

To view a device's network details

- Click the 'Devices' link on the left and choose 'Device List'
- · Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view the list of devices in that group Or
 - · Select 'Show all' to view every device enrolled to EM
- Click on any Windows device then select the 'Networks' tab

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TECHMON Owner: hercule	NSTER spopular22@gma	il.com						
Manage Profiles	Control	Remote Tools	F	Install or Update		Reboot	More	
5		BETA		Packages	Information			
Device Name	Summary	Networks	Associate	d Profiles So	oftware Inventory	MSI Inst	allation State	Þ
Device N	etwork №1							
Name		alcomm Atheros reless Network A						
Local add	ress 192	2.168.0.101						
Subnet	255	5.255.255.0						
Gateway	192	2.168.0.1						
DNS 1	192	2.168.0.1						
DNS 2	N//	A						
MAC Addr	'ess 68:	A3:C4:9F:C4:AB						
DHCP	192	2.168.0.1						
Connectio Speed	n 225	5 Mbit/s						
Device N	etwork №2							
Name		crosoft Wi-Fi Dire apter	ect Virtual					
	N/	Α		Contration and Annual Contration				

5.2.2.5. View and Manage Profiles Associated with a Device

The 'Associated Profiles' tab lists all active configuration profiles on an endpoint. A profile may be applied to a device for any of the following reasons:

- Because it is a default profile
- It was specifically applied to the device
- It was specifically applied to the user
- The device belongs to a device group which has a group profile
- The user belongs to a user group which has a group profile

For more details on configuration profiles, see **Profiles for Windows Devices**.

To view and manage the profiles associated with a device

- · Click the 'Devices' link on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view the list of devices in that group Or

•

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- Select 'Show all' to view every device enrolled to EM
- Click on any Windows device then select the 'Associated Profiles' tab

TECHMON Owner: hercules	ISTER popular22@gma	il.com						
Manage Profiles	C. Remote Control	Remote Tools	Run Procedure	Install or Update Packages	C Refresh Device Information	Reboot	••• More	
Device Name	Summary	Networks	Associate	d Profiles Sof	ftware Inventory	MSI Inst	allation St	tate
NAME			SOURCE ASSO	CIATED	INFORM	ATION ABOU	IT ASSOCI	ATION
Default Profile fo	or Windows		Device Group: D)efault Group - frontf	fork Success	fully process	ed	
Finance Departr	ment Windows Co	omputers	Device		Success	fully process	ed	
Suspicious Files	Folder for John		Device Group: D)efault Group - frontf	fork Success	fully process	ed	
First Profile			User Group: Ma	rketing Staff	Success	fully process	ed	

	Associated Profiles - Column Descriptions					
Column Heading	Description					
Name	 The profile label. Click the name of a profile to open the 'Edit Profile' interface. See Edit Configuration Profiles for more details. 					
Source Associated	 The source through which the profile was applied to the device. Configuration profiles can be applied to a device in different ways: Profiles can be directly applied to the device. See Assign Configuration 					
	 Profiles to Selected Devices for more details Profiles applied to a user are deployed to all devices belonging to them. See Assign Configuration Profile(s) to a User's Devices for more details 					
	 Profiles applied to a user group are deployed to all devices owned by group members. See Assign Configuration Profile to a User Group for more details 					
	 Profiles applied to a device group are deployed to all member devices in the group. See Assign Configuration Profile to a Device Groups for more details 					
	Click a source to view its details interface.					
Information about Association	The status of profile application to the device.					

· Click the 'Name' column header to sort the items in the alphabetical order of the names of the items

Add or Remove Profiles

Profiles can be added or removed from the device clicking 'Manage Profiles' option at the top. See Assign



Configuration Profiles to Selected Devices for more details.

5.2.2.6. View and Manage Applications Installed on a Device

- The 'Software Inventory' is a list of all applications installed on a device.
- The interface also lets you remotely uninstall applications.

To view applications installed on a device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view devices in the group Or
 - · Select 'Show all' to view every device enrolled to EM
- Click the name of a Windows device then select the 'Software Inventory' tab:

TechMor Owner: Dyand						
🗊 Manage Profiles	C Remote Control	Remote Tools	FD Run Procedure	Install or Update Packages	C Refresh Device Information	More
Device Nam	e Summary	Networks	Associate		ftware Inventory	File List
Update S	oftware Inventory	Uninstall	Application(s)			O Y
SOF	TWARE 🔺	VE	NDOR	VERSION	INSTALL	ATION DATE
Activ	vePresenter			6.1.4	2018/10	/26
Adol	be Acrobat Reader I	I second second second second second	obe Systems orporated	19.008.200	80 2018/10	//24
COM	ODO Client - Securi	TV	MODO Security utions, Inc.	10.8.0.7041	2018/10	/26
Com	odo Dragon	Col	modo	69.0.3497.8	31 2018/10	/25
Goog	le Chrome	Go	ogle Inc.	70.0.3538.6	2018/10	/19

Installed Apps - Column Descriptions				
Column Heading	Description			
Software	The name of the application.			

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Endpoint Manager - Administrator Guide

Vendor	The publisher of the application.
Version	The version number of the application.
Installation Date	The date at which the application was installed on the device.

· Click 'Update Software Inventory' to retrieve the latest list of applications from the endpoint

Remotely uninstall applications

Supported 3rd party applications can be remotely uninstalled from the Endpoint Manager. See **EM Supported 3rd Party Applications** for a full list.

- Select an application in the list
- Click 'Uninstall Selected Application'
- An uninstall command will be sent to the device.
- You will see the following message if the software cannot be uninstalled without notifying the device user:

Uninstall Application	×	
Silent uninstall may not be performed.		
	Proceed	Cancel

• Click 'Proceed' to continue with the uninstall.

The application will be uninstalled from the selected device.

Tip:

- You can uninstall an application from *selected or all* Windows devices from the 'Global Software Inventory'.
- Click 'Applications' > 'Global Software Inventory' to access this area.
- See View and Manage Applications Installed on Windows Devices if you need more help with this.

Sorting, Search and Filter Options

- Click the 'Software', 'Vendor' and 'Version' column headers to sort items in alphabetical or ascending/descending order
- Click the funnel button T on the right to open filter options

Pato	h Management	Groups	-	
			C	Ţ
E	Software		K	\sim
	Software			
	Version			
	Version			
	Vendor			
	Vendor			
	Installation Date			
	Start		End	

- Type search criteria in the search fields to find an application based on name, version and/or vendor.
- Enter 'Start' and 'End' dates to search for applications installed during a certain period of time.
- Click 'Apply' to run your filter
- To display all items again, remove all search terms and click 'Apply'.
- By default, 20 results are shown per page. Click the arrow next to 'Results per page' to increase the number up to 200.

5.2.2.7. View the Files on a Device

• The 'File List' tab shows executable files found on a device along with their trust rating.

To view files on a Windows device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - · Select 'Show all' on the left to view every device enrolled to EM
- Click the name of a Windows device then select the 'File List' tab:

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hMonst er: Dyanora	ter2								
Profiles	C. Remote Control	Remote Tools	Run Procedure	Install or Update Packages	C Refresh Dev Informatio	11000			
ce Name	Summary	Networks			oftware Invento	ory File		l Configuratio	
File Details	Change		Record v	Export -		SIZE (COMODO RATING	C ADMIN RA	T
7-zip.dll 7-zip32.d		gram Files\7-Zip gram Files\7-Zip		39F508E1760224C4 03240F305EE00D8E		48.5	Trusted Trusted	Not set Not set	
7zFM.exe	e C:\Pro	gram Files\7-Zip	o\7zF <mark>6</mark> " E	32D3D28486596400	013CE6 🗂	843	Trusted	Not set	

File List - Table of Column Descriptions						
Column Heading	Description					
File Name	The label of the executable file or application.					
File Path	The installation location of the application at the endpoint.					
	• Click the i icon to copy the path to the clipboard.					
File Hash	The SHA1 hash value of the executable file.					
	• Click the i icon to copy the hash value to the clipboard.					
Size	The size of the executable file.					
Comodo Rating	The trust rating of the file as per the Comodo File Look-up service, reported by the CCS installations at the endpoints					
Admin Rating	The trust rating of the file as manually set by the administrator, if any.					

Comodo Client Security monitors all file activity on a Windows endpoint. New executables are scanned against the Comodo files database and rated as 'Unrecognized', 'Trusted' or 'Malicious'. You can configure this behavior in the 'File Rating settings' section of the configuration profile applied to the device. See **File Rating settings** in **Creating a Windows Profile** for more details.

Unrecognized Files

Files that could not be identified as 'Trusted' or 'Malicious' by Comodo Client Security (CCS) are reported as 'Unrecognized' to Endpoint Manager. You can review these files and manually rate them as 'Trusted' or 'Malicious' if required.

- The rating you set is purely a local trust rating for the file. It does not affect the global rating set by Comodo.
- The 'Valkyrie' section of a profile lets you auto-upload unknown files to the cloud for behavior analysis.
 See Valkyrie Settings for more details

Background Note: Valkyrie is a file verdicting service that tests unknown files with a range of static and dynamic

checks. The results of these tests produce a trust verdict on the file. This verdict can be viewed in the 'Windows File List' > 'Valkyrie Processed Files' tab. See View List of Valkyrie Analyzed Files for more details.

Trusted Files

Files are identified as trusted in the following ways:

- Cloud-based file lookup service (FLS) Whenever a file is first accessed, Comodo Client Security (CCS) on an endpoint will check the file against Comodo's master whitelist and blacklists. The file will be awarded trusted status if:
 - The application is from a vendor included in the Trusted Software Vendors list;
 - The application is included in the extensive and constantly updated Comodo safelist.
- Administrator rating Admins can assign a 'Trusted' rating to files from the Application Control interface
- User Rating Users can assign a 'Trusted' rating to files at the local CCS installation in two ways:
 - In response to an alert. If an executable is unknown then it may generate a HIPS alert on the local endpoint. Users could choose 'Treat this as a Trusted Application' at the alert
 - The user can assign 'Trusted' rating to any file from the 'File List' interface.

CCS creates a hash of all files assigned 'Trusted' status by the user. In this way, even if the file name is changed later, the file will retain its trusted status as the hash remains same. This is particularly useful for developers who are creating new applications that, by their nature, are unknown to the Comodo safe list.

Malicious Files

Files identified as malicious by the File Look-Up Service (FLS) will not be allowed to run by default. These files are reported as malware to EM.

The File List screen

Possible file ratings are 'Unrecognized', 'Trusted' or 'Malicious'. Administrators can manually set the file rating at their discretion.

- Files rated as 'Trusted' are allowed to run.
- Files rated as 'Malicious' are quarantined and not allowed to run.
- Files rated as 'Unrecognized' are run inside the container an isolated operating environment. Contained applications are not permitted to access files or user data on the host machine.

Any ratings set by the administrator are propagated to all enrolled endpoints.

Admins can also view a history of purged files. Purged files are those which existed on devices at one point in time, but are not currently present on any device. To view these files, apply the filter named 'Show Purged Files'. See the explanation of **Filter Options** given below.

Tip: if you wish to see all files across all managed devices, please view the 'Applications' and 'Application Control' interfaces. See 'Applications > Mobile Applications' to view applications in mobile devices.

Sorting, Search and Filter Options

- Click any column header to sort items in alphabetical order
- Click the funnel icon I to open more filter options:
- Use the check-boxes to show or hide purged, non-executable, hidden or unrecognized files.
- Use the search fields to filter by file name, file path or SHA1 hash value. You can also filter by file size and the number of devices on which the file is present.
- Use the drop-down boxes to filter items by Comodo and/or admin rating
- Clear any search filters and click 'OK' to display all items again.

You can use any combination of filters simultaneously to search for specific apps.

Manage Applications

The 'File List' interface allows you to:

- View the details of files in the list
- View Process Activities of a File
- Assign Admin rating to a file
- Hide/Display selected files in the list
- Export the list of selected files to a CSV file
- Remove files from the list

View file details

- Simply click on a file in the list or select a file and click 'File Details' at the top.
- The File Details screen contains two tabs:
 - **File info** Shows basic file details and the devices on which the file is present. You can also change the trust rating of the file in this area.
 - **Device List** Displays the list of managed Windows devices on which the file is discovered. The 'Device List' interface also allows you to view the process activities of the file in respective devices.

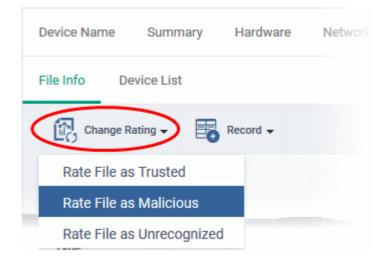
File info

• The file info screen shows file name, installation path, file type, version, size, hash values and the date the file was first encountered. The screen also shows the file's trust rating and the number of endpoints on which the file is present.

Device Name	Summary	Hardware	Networks	Associated Profiles	Software Inventory	
File Info De	vice List					
Change Ra	ating 🗸 📑	Record -				
Name: pcflank.exe						
Path:						
Type: Unknown						
SHA1: 3437369E6B75	021F57DE5527	C33EF7B1026E5	2D6			
MD5:						
Version: 1.0						

• The 'Change Rating' button allows you to manually set the file's rating as 'Trusted', 'Malicious' or 'Unrecognized':

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The new rating will be sent to all endpoints.

The 'Record' button lets you hide, display or remove the file from the 'File List' screen.

Device Name Summ	hary Hardware	Networks	Associated Profiles Software Inventory	
File Info Device List				
Change Rating -	Record 🗸			
Name: pcflank.exe	Hide Record			
Path:	Unhide Record			
Faul.	Delete Record			

Device List Screen

The device list screen shows the list of endpoints on which the item was discovered. The screen also shows
the installation path, the installation date and the file rating assigned by Comodo Client Security. The
Viruscope column shows detailed info on processes started by the file. See the explanation under View
Process Activities of a File for more details.

Device	e Name Sur	nmary Har	dware Networks	Associated Profiles	Software Inventory	File List	Exported Configurations
File In	Ifo Device L	ist				+	Back to Device File List
Ţ.	Delete						
	NAME	OWNER	COMPANY	РАТН	AGE	RATING ON COMPUTER	VIRUSSCOPE
	DESKTOP- HIP81N3	Dyanora	Dithers Construction Company	C:\Suspicious\PCFlank\pcflank.exe		Malicious	View processes
Results p	er page: 20	~					Displaying 1 of 1 results

· You can remove the file from device(s) by selecting a device then clicking 'Delete'

View Process Activities of a File

Note: In order to fetch process activity data, VirusScope should be enabled in the profile in effect on the endpoint. See **Configuring Viruscope Settings** in **Creating a Windows Profile** for more details.

To view the activities of a file on the endpoint

- Click the file name from the 'File List' screen to open the 'File Details' screen
- Click the 'Device List' tab
- · Click the 'View Processes' link in the 'Viruscope' column in the row of the device name.
- This will open a list of processes executed by the file on the selected endpoint in chronological order:

Device Na	me Summar	y Hard	ware Networks	Associated Profiles So	oftware Inventory	File List Exporte	d Configurations
File Info	Device List					🗲 Back to	Device File List
T Delete	2	-					
■ N#	AME	OWNER	COMPANY	РАТН	AGE	RATING ON COMPUTER	VIRUSSCOPE
	SKTOP- P81N3	Dyanora	Dithers Construction Company	C:\Suspicious\PCFlank \PCFlank\pcflank.exe	Apr 25, 2017	Malicious	View procifises
Proce	ess List of	f Unkn	own file 🗲				
PID	CRE	ATED AT		FILE PATH		DETAILS	
2988	May	31, 2017		C:\Suspicious\PCFlank\PC	Flank\pcflank.ex	e View Activity	
				010 ··· 10051 ···00	EI IN 8 I		
4368	May	30, 2017		C:\Suspicious\PCFlank\PC	Flank\pcflank.ex	e View Activity	

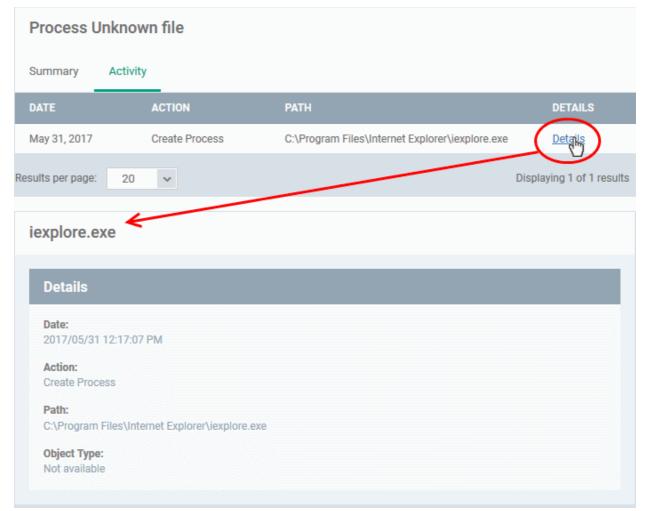
- Click 'View Activity' to see detailed information about each process. The 'Process Activity' interface has two tabs:
 - Summary Displays the name of the device and the installation path of the executable
 - Activity Displays a chronological list of activities by the selected process, including details of files modified by the process.

Process U	Process Unknown file									
Summary	Activity									
DATE	ACTION	РАТН	DETAILS							
May 31, 2017	Create Process	C:\Program Files\Internet Explorer\iexplore.exe	Details							
Results per page:	20 🗸		Displaying 1 of 1 results							



	The 'Activity' - Table of Column Descriptions						
Column Heading	Description						
Date	The date and time of process execution						
Action	The task executed by the process on the target file						
Path	The location of the target file						
Details	A link to view more information about the action						

• You can inspect a particular activity by clicking the 'Details' link:



Assign Admin Rating to a File

- Each file on an endpoint is automatically scanned and assigned a trust rating by Comodo Client Security.
- These ratings can be either 'Unrecognized', 'Trusted' or 'Malicious'. The rating for each file is shown in the 'Comodo Rating' column of the 'File List' screen.
- The file rating determines whether or how the file is allowed to run:
 - **Trusted** The file will be allowed to run normally. It will, of course, still be subject to the standard protection mechanisms of Comodo Client Security (behavior monitoring, host intrusion prevention etc).
 - Malicious The file will not be allowed to run. It will be automatically quarantined or deleted depending on admin preferences.
 - Unknown The file will be run inside the container. The container is a virtual operating environment

Choose the rating you want to from the drop-down:

which is isolated from the rest of the endpoint. Files in the container write to a virtual file system, use a virtual registry and cannot access user or operating system data.

- Automatic file rating can be configured in the 'File Rating' section of the configuration profile active on the endpoint. See File Rating settings in Creating a Windows Profile for more details.
- Click 'Change Rating' in the 'File List' interface to manually set a rating for a selected file or files. The new
 rating will be propagated to all endpoints and will determine the file's run-time privileges. Admin assigned
 ratings will be shown in the 'Admin Rating' column of the interface:

To assign a file rating to a file

• Select the file(s) whose rating you want to change and click the 'Change Rating' button.

Devic	ce Name	Summary	Hardware	Network	s As	sociated Profiles	S	oftware Inv	entory
Ø	File Details	Change	Rating 🗸 📑	Record 🗸	凷	Import / Export 🗸			
	FILE NAME	Rate File a	as Trusted		SHA1			SIZE	
	SkyWrap.dl		as Malicious	ed 3 ³¹	1E7872A	4E0F1EC2E1B2BE.	- 61	41.2 MB	Unrecognia
	Solitaire.dll	C:\Prog	ram Files\Windov	ws 📩 🗄	9045264	85F77500E65CF3	Ċ,	42.3 MB	Unrecognia
	pcflank.exe	C:\Susp	icious\PCFlank\F	PC 📋	3437369	E6B75021F57DE5	d'i	176 kB	Malicious
								ND	

As mentioned, the new admin rating will be set and sent to all endpoints. The Admin Rating will determine the file's run-time privileges.

Hide/Display Selected Files

• Select the file(s) you want to hide and click 'Record' at the top

Device	e Name	Summary Hardwa	re Networks	Associated Profiles	Software Inventory		
E, F	ile Details	Change Rating 🗸 🄇	Record -	Import / Export 🗸			
	FILE NAME	FILE PATH	Hide Record			SIZE	
	SkyWrap.dll	C:\Program Files	Unhide Record	44E0F1EC2E1B2BE	ġ3	41.2 MB	
	Solitaire.dll	C:\Program Files	Delete Record	185F77500E65CF3A.	- 63	42.3 MB	
	pcflank.exe	C:\Suspicious\PC	Flank\PCF	437369E6B75021F57DE55.	- 63	176 kB	

• Select 'Hide / Unhide / Delete Record' as required.

To view hidden files

• Click the funnel icon at the top-right to open the filter options

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Exported Configurat

Select 'Show with hidden file(s)' and click 'Apply'	
Associated Profiles	Software Inventory	File List

[날] Import / Export -	C (T
SHA1 3437369E6B75021F57DE5 6 2280F301D9C28DD58A5F 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	SI: Show with purged file(s) Show only unrecognized file(s) Show with non-executable file(s) Show with hidden file(s) File Name File Name File Path File Path SHA1 SHA1

The hidden files will be added to the list in the 'File List' screen. The files will be highlighted with a gray stripe.

To restore hidden files

.

- Click the funnel icon at the top-right to open the filter options
- Enable 'Show with hidden file(s)'
- Select the hidden files you want to restore and click 'Unhide Record' from the drop-down

Device	Name	Summary	Hardware	Networks	Asso	ociated Profiles	Softw	are Inventory	
(le Details	Change I	Rating -	Record	≚ "	nport / Export 👻			
	FILE NAME	FILE P/	ATH H	Hide Record				SIZE	
	SkyWrap.dl	C:\Pro	gram Files l	Jnhide Recor	d . (^h)	4E0F1EC2E1B2BE	- <u>1</u>]	41.2 MB	
	Solitaire.dll	C:\Pro	gram Files	Delete Record		85F77500E65CF3A	- 63	42.3 MB	
	pcflank.exe	e C:\Sus	picious\PCFlan	k\PCF	343736	9E6B75021F57DE55	- 63	176 kB	

The files will be displayed in the permanently.

Export the List of Files

You can export the 'File List' to a comma-separated values (CSV) file as follows:

Click the 'Export' button above the table then choose 'Export to CSV':

Device Name	Summary	Networks	Associated Profiles	Software Inventory	/ File Lis	st Exp
File Details	Change R	ating - 🐻 R	ecord Export	$\overline{}$		
FILE NA	ME 😽 FILE P/	хтн	Export t	o CSV	SIZE	COMODO
WFPblog	ck.exe C:\Sus	picious Files\ssts6	54\ 🛗 A76A92ED	065393CF6045D	125 kB	Unrecogn
WallBrea	aker C:\Sus	picious Files\ssts6	54\ 📑 C2F51B38	9287767E34A36	132.5 kB	Unrecogn
VBStest	.exe C:\Sus	picious Files\ssts6	54\ 📩 678D51A3	2DCD58F78EA7	131.5 kB	Unrecogn
Tooleak	y.exe C:\Sus	picious Files\ssts6	54\ 🛗 6A2C0651	73FA8EF5CE2BC	132 kB	Unrecoge

- The CSV file will be available in 'Dashboard' > 'Reports'
- See **Reports** in **The Dashboard** for more details.

Remove files from the list

You can remove items you no longer wish to see in 'File List' screen. Deleted files will only be removed from the list. They will remain on the endpoints themselves.

- Select the files you want to remove and click 'Record' at the top
- Choose 'Delete Record' from the drop-down

Device Name	Summary Hardwa	are Networks	Associated Profiles	Software Ir	wentory File
File Details	🚯 Change Rating 🗸	Record -	Import / Export 🗸		
File NAME	▼ FILE PATH	Hide Record		SIZE	
pcflank.exe	e C:\Suspicious\PCF		B75021F57DE5	176 kB	Malicious
Colitaire dil	C-1 Drogram EileeW	Delete Record	4526405577500545050	<u>en 42.3</u>	

5.2.2.8. View Exported Configurations and Import Profiles

- · You can create a new Windows profile out of the CCS configuration on an endpoint.
- This is useful if you want to copy the configuration of an endpoint to multiple other endpoints

To export a CCS configuration

- · Click the 'Devices' tab on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view their devices

Or

- Select 'Show all' on the left to view every device enrolled to EM
- Click on the Windows device whose configuration you wish to export to open its 'Device Details' interface
- Click the 'Export Security Configuration' button at the top.

TechMons Owner: Dyanora									
Manage Profiles	Control	Remote Tools	F	Install or Update Packages	C Refresh Device Information	Reboot	Export Security Configuration	Delete Device	Owner

The CCS configuration will be exported as an .xml file with date/time stamp suffix in the file name. The profile will be saved on the EM server and can be viewed by clicking the 'Exported Configurations' tab of the device details interface of the same device.

To view and manage exported profiles

- Click the 'Devices' tab on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view their devices Or
 - Select 'Show all' on the left to view every device enrolled to EM
 - Click the name of a Windows device then select the 'Exported Configurations' tab:

Techl Owner: I										
E) Manage Pi		Control	Remote Tools	F	Install or Update Packages	C Refresh Device Information	Reboot	Export Security Configuration	More	
∢ ks										
Image: Delete Configuration(s) FILE NAME						CREATED				
	ccs_config_2018_10_26_10_58_00.xml					2018/10/26 04:28:00 PM				
	ccs_config_2018_10_26_10_53_33.xml 2018/10/26 04:23:33 PM									

The 'Exported Security Configuration' List - Table of Column Descriptions								
Column Heading	Description							
File Name	The label of the exported file.							
Created Date and time at which the CCS configuration was exported								

• Click any column header to sort items in alphabetic or ascending/descending order

To import and save the security configuration

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•	Click on the file name that you want to import as a profile												
	hMons er: Dyanora												
Ċ	2		23	Ē	Þ	C			••••				
Manage	e Profiles	Remote Control	Remote Tools	Run Procedure	Install or Update Packages	Refresh Device Information	Reboot	Export Security Configuration	More				
∢ ks	Assoc	ciated Profiles	Software In	ventory Fi	le List Export	ted Configurations	MSI In:	stallation State	Patch	Manageme 🕨			
Ū	Delete Cont	figuration(s)											
	FILE N	AME				CREATED							
	ccs_co	onfig_2018_10_26	_10_58_00.xml		2018/10/26 04:28:00 PM								
Ccs_config_2018_0_26_10_53_33.xml 2018/10/26 04:23:33 PM													

The file will be imported as an .xml file.

To import the saved configuration file as a Windows profile, see 'Step 2 - Import the .xml file as a profile for application to required endpoints or endpoint group(s) in 'Importing Windows Profiles'.

- To remove a file from the list, select it and click 'Delete'
- Click 'Confirm' to remove the file from the list

∢ ks	Associated Profiles	Software Inventory	File List	Exported Configurations	MSI Installation
Ĩ	Delete Configuration(s)				
	FILE NAME			CREATED	
	ccs.config_2018_10_26_	10_58_00.xml		2018/10/26 04:28:00) PM
	ccs_config_2018_10_26_	_10_53_33.xml		2018/10/26 04:23:33	PM
	N Contraction				
	Delete Export Po	licy			×
	Do you really want to	delete export policies?			
				Confirm Can	cel

5.2.2.9. View MSI Files Installed on a Device through Endpoint Manager

- You can remotely install Endpoint Manager packages onto managed endpoints.
- These may be Comodo applications or third-party MSI packages. See Remotely Install and Update Packages on Windows Devices if you want to know more about this process.

To view MSI file installation list on the device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab then
 - Select a company or a group to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click on the name of a Windows device then select the 'MSI Installation State' tab:

TechMor Owner: Dyan												
Manage Profile	Remote Control	Remote Tools	E Run Procedure	Install or Update Packages	C Refresh Device Information	Reboot	Export Security Configuration	More				
 Software 												
Delete M	SI Installation State(s	3)	STATE			CR	REATED					
http	s://www.7-zip.org/a	/7z1805.msi		MSI successfully	installed		20	18/10/26				
http	://www.dropbox.co	om/s/0x1xfw436	ioe1h7y/putty-0.7	70-installer.msi	Installation failed (1620 - Unknown error (1620)) 20							

MSI Installation State - Table of Column Descriptions								
Column Heading	Description							
Name	The source URL/file name of the MSI file.							
State	The installation status of the MSI file.							
Created	The date and time the MSI file installation command was sent.							

- · Click any column header to sort items in alphabetic or ascending/descending order
- To delete an entry from the list, select it and click 'Delete MSI Installation State(s)'.

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 ventory 	File List	Exported Configurations	MSI Installation State	Patch Manag	jement Antivo
Delete	MSI Installation	State(s)			
	ME▼				STATE
htt	ps://www.drop	box.com/s/0x1xfw436oe1h7y/pt	utty-0.70-installer.msi		MSI successfully (
htt	ps://dl.google.	comledgedl/chrome/install/Goog	gleChromeStandaloneEnterpr	ise64.msi	MSI successfully
De	lete MSI s	tates			×
Doy	you really wa	nt to delete MSI state(s)?			
			Con	nfirm Can	cel

Click 'Confirm' to remove the file from the list

Only the chosen entry will be removed from the list but the package will not be uninstalled from the endpoint.

5.2.2.10. View and Manage Patches for Windows and 3rd Party Applications

- Windows and 3rd party applications have to be kept up-to-date to protect them from vulnerabilities.
- The details page of each device has a patch management tab which lets you view and install available patches. You can install multiple patches on a device simultaneously.
- This section tells you how to patch individual devices via the 'Device Details' screen.
 - Alternatively, there is a full patch management interface at 'Applications' > 'Patch Management'. Go here if you want to manage patches on multiple devices. See 'Patch Management' for help with this.

Note: Hidden OS patches are not visible in an individual device's patch management screen. You can hide/unhide them in the full patch management interface - click 'Applications' > 'Patch Management' > 'Operating System' tab.

Process in brief

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
- · Click the name of a Windows device to open its details page
- Select the 'Patch Management' tab
- Choose the patches you want to install from the 'Operating System' and 'Third Party' tabs
- Click 'Install Patches'. Each tab has a separate install button.

TechMonster2 Owner: Dyanora											
Ē,		23	₽□	D	Q		E <mark>™</mark>				
Manage Profile	s Remote Control	Remote Tools	Run Procedure	Install or Update Packages	Refresh Device Information	Reboot	Export Security Configuration	More			
Software Inventory File List Exported Configurations MSI Installation State Patch Management Antivirus Scan His Operating System Third Party Applications Signature Install Patch(es) Check Available Updates											
🗌 тіт	.E	КВ	BULLETIN	CLASSIFICATION	SEVERITY	REBOOT	RELEASE DATE	STATUS			
Pac Ser	Japanese Language Pack - Windows 7 2483139 Service Pack 1 (KB2483139)		Update		No	2011/02/22	Available				
- Wi	ch Language Pack ndows 7 Service k 1 (KB2483139)	2483139		Update		No	2011/02/22	Available			

- Operating System Shows all installed and pending OS patches for the device. Additional details are available for each patch, including classification, severity, release date, installation status and knowledgebase articles.
- Third Party Applications Shows applications on the device for which updates are available. The version
 numbers of the currently installed version and the latest available version are shown. The 'severity' column
 tells you the importance of the update.

View Windows patches available for a device

- Click 'Devices' > 'Device List'
- · Click the 'Device Management' tab above the control buttons
- Click the name of a Windows device to open its details page
- Select the 'Patch Management' tab
- Click the 'Operating System' tab

Note:

- The 'Operating System' tab only shows Windows patches which are relevant to a device.
- Any hidden patches are not shown. Hidden patches can be configured in 'Application' > 'Patch Management'.
- For more details, see hide patches in Install OS Patches on Windows Endpoints.

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▲ nvento	ory File List Exported Configur	rations	MSI Installatior	State Patch Ma	nagement	Antivirus Sca	n History Group	s Logs
Opera	ting System Third Party Application	ns						
8 in	nstall Patch(es)	${\cal G}$ Chec	k Available Updat	es				Ţ
	TITLE	KB	BULLETIN	CLASSIFICATION	SEVERITY	REBOOT	RELEASE DATE	STATUS ▲
	2018-09 Security Update for Adobe Flash Player for Windows 10 Version 1803 for x64-based Systems (KB4457146)	4457146		Security Update	Critical	Maybe	2018/10/17	Available
	Update for Japanese Microsoft IME Standard Extended Dictionary (KB2734786)	2734786		Definition Update	Unspecified	No	2015/09/07	Installed
	Windows Malicious Software Removal Tool x64 - October 2018 (KB890830)	890830		Update Rollup		Maybe	2018/10/09	Installed

Operating System Patches - Column Descriptions								
Column Heading	Description							
Title	 The descriptive name of the patch. Click the name to view patch details. See View Details of a Patch for more details. 							
KB	The Microsoft knowledgebase article for the patch. Click the number to view the article. 							
Bulletin	The Microsoft bulletin number that contains details about the patch.Click the number to view the bulletin page.							
Classification	 The category of the patch. The possible values are: Update - Fixes a specific, non-critical problem. This type of patch does not address security-related bugs. Definition update - Updates to a product's internal database. For example, an update to the virus signature database for Windows Defender. Critical Update - Fixes a specific, critical OS problem or a critical security-related bug Security update - Fixes a version specific, security related vulnerability Update rollup - A collection of updates, hotfixes, security updates and critical updates packaged together for easy deployment. These updates generally target a specific Windows component. Driver - Adds software for controlling peripherals or add-on devices that could be connected to the endpoint Feature pack - Adds new functionality distributed after an OS release. Service pack - Contains a collection of updates, hotfixes, security updates, critical updates and additional fixes. Tool - Installs a utility or feature for a specific task or a set of tasks. 							

1
 Upgrades - Updates the Windows OS version on the endpoint to the latest build.
The criticality of the patch. The severity levels are:
Critical
Important
• Low
Moderate
Unspecified
Whether or not the endpoint requires a restart to complete the patch installation.
The date on which the patch was released by Microsoft
Whether the patch has been installed on the device or not.
Controls
Deploy selected patches to the device. See Install missing patches on the device for more details.
Remove previously installed patches or updates from the device. See Uninstall patches from a device for more details.
Refresh patch inventory with the latest updates available for the device.

- Click any column header to sort the items in ascending/descending order of entries in that column
- Click the funnel icon Y on the right to filter patches by various criteria, including by severity, by whether a patch is available, or by patch installation status.

Install missing patches on the device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
- Click the name of a Windows device to open its details page
- Select the 'Patch Management' tab
- Click the 'Operating System' tab
- · Identify patches with 'Available' status
 - Click the funnel icon on the right
 - Select 'Available' from the 'Status' drop-down
 - Click 'Apply'
- Select the patches you want to install
- Click 'Install Patch(es)':

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 ventory 	File List	Exported Configurat	tions MSI I	nstallation State	Patch Management	Antivira
Operatin	g System	Third Party Applications	;			
S Insta	all (Katch(es)	Uninstall Patch(es)	Check Ava	ilable Updates		
	TITLE					КВ
	2018-09 Security (KB4457146)	Update for Adobe Flash P	layer for Window	rs 10 Version 1803 fo	or x64-based Systems	4457 146
	Update fot Vapan	nese Microsoft IME Standa	ard Extended Dict	ionary (KB2734786)		2734 786
	Patch Ins	stall				30
	Selected pa	atch(es) will be installe	d , do you agre	e to install them?		791
					Ok Cancel	

Click 'OK' in the confirmation dialog

Install command successfully added to install queue. The process may take a while to be completed.

A command will be sent to install the selected patches.

Uninstall patches and Windows updates from the device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
- · Click the name of a Windows device to open its details page
- Select the 'Patch Management' tab
- Click the 'Operating System' tab
- · Identify patches and updates with 'Installed' status
 - Click the funnel icon on the right
 - Select 'Installed' from the 'Status' drop-down
 - Click 'Apply'
- Select the items you want to uninstall
- Click 'Uninstall Patch(es)':

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 vent 	ory File List Exported Conf	igurations	MSI Installatio	n State Patch Ma	anagement	Antivin
Opera	ating System Third Party Applica	ations				
8	nstall Patch(es)	es)	eck Available Upda	tes		
	TITLE	КВ	BULLETIN	CLASSIFICATION	SEVERITY	REBO
	2018-09 Security Update for Adobe Flash Player for Windows 10 Version 1803 for x64-based Systems (KB4457146)	4457146		Security Update	Critical	Mayt
	Update for Japanese Microsoft IME Standard Extended Dictionary (KB2734786)	2734786		Definition Update	Unspecified	No
	Patch Uninstall					Mayt
	Selected patch(es) will be remov patches which are uninstallable a			hem? There may be	some	No
				ОК	Cancel	

• Click 'OK' in the confirmation dialog

Uninstall command successfully added to uninstall queue. The process may take a while to be completed.

A command will be sent to remove the select patches/updates from the endpoint.

View 3rd party application patches available for a device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
- Click the name of a Windows device to open its details page
- Click the 'Patch Management' tab then 'Third Party Applications':

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•	Software Inventory	File List	Exported Configurations	MSI Installation State	Patch Management	Antivirus Scan History Gr	oups Logs	
	Operating System	Third Party Appl	ications					
	San Install Patch(es)							o T
[SOFTWARE NAM	VENDOR	SOFTWARE CATEGORY	INSTALLED VERSION	INSTALLATION DATE	LATEST VERSION AVAILABLE	SEVERITY	RELEASE DATE

Column Heading	Description
Software Name	 The label of the third party application. Click the name to view general application details and a list of devices on which the (outdated) application is installed. See View Details of an Application in Install 3rd Party Application Patches on Windows Endpoints for more details.
Vendor	The software publisher.
Software Category	 The type of the application. Possible values include: Comodo Products Runtime applications Web Browsers Utilities Messaging File Compression utilities Developer Tools Documents Online Storage Other
Installed Version	The version number of the application currently installed on the endpoint.
Installation Date	The date on which the application was installed on the endpoint.
Latest Version Available	The version number of the latest version of the application that is available from the publisher
Severity	Indicates the level of severity of the update as determined by Microsoft. The severity levels are: Unspecified Critical Important Low Moderate



Install Patch(es) Remotely install selected patches on the device. See Instal patches on a device for more details. See EM Supported 3rd Party Applications to view a full list of applications that can be install 3rd party application patches on a device • Click 'Devices' > 'Device List' • Click the 'Device Management' tab above the control buttons • Click the name of a Windows device to open its details page • Select the 'Patch Management' tab then open 'Third Party Applications' • Choose the patches you want to install • Click the 'Install Patch(es)' button • Select 'Update to the latest version' or 'Update to specific version' as required • ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications	be updated.	
 Install 3rd party application patches on a device Click 'Devices' > 'Device List' Click the 'Device Management' tab above the control buttons Click the name of a Windows device to open its details page Select the 'Patch Management' tab then open 'Third Party Applications' Choose the patches you want to install Click the 'Install Patch(es)' button Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications 	1	
 Click 'Devices' > 'Device List' Click the 'Device Management' tab above the control buttons Click the name of a Windows device to open its details page Select the 'Patch Management' tab then open 'Third Party Applications' Choose the patches you want to install Click the 'Install Patch(es)' button Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications 		
 Click the 'Device Management' tab above the control buttons Click the name of a Windows device to open its details page Select the 'Patch Management' tab then open 'Third Party Applications' Choose the patches you want to install Click the 'Install Patch(es)' button Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications 		A
 Click the name of a Windows device to open its details page Select the 'Patch Management' tab then open 'Third Party Applications' Choose the patches you want to install Click the 'Install Patch(es)' button Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications 		A
 Select the 'Patch Management' tab then open 'Third Party Applications' Choose the patches you want to install Click the 'Install Patch(es)' button Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications 		A
 Choose the patches you want to install Click the 'Install Patch(es)' button Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications 		A
 Click the 'Install Patch(es)' button Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications 		Antini
Select 'Update to the latest version' or 'Update to specific version' as required ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications		Amtin
ventory File List Exported Configurations MSI Installation State P Operating System Third Party Applications		Antini
Operating System Third Party Applications	atch Management	Amethod
		Antivir
Install Patch(es)		
Update to the Latest Version Update to a Specific Version	INSTALLED VERSIO	ON
Microsoft Silverlight Microsoft Corporation Other	4.1.10111.0	
Adobe AIR Adobe Systems Developer Tools	26.0.0.127	
Update to a Specific Version	×	
Select version for install		
	· ·)
5.1.50907.0		
5.1.50901.0		

- Click 'Send'
- Click OK in the confirmation dialog:

Patch Install Selected patch(es) will be updated, do you agree to install them? Ok Cancel

• A command will be sent to the endpoint to install the patch:

«Update to a Specific Version» command has been sent

- Once the command is received, the communication client (CC) on the endpoint will check whether the update is available on any other devices in the network.
- If available, CC downloads the patch from the other device over a peer-to-peer connection. This reduces bandwidth consumption and speeds up the deployment process.
- If the update is not available on the local network, CC downloads the update from the EM patch portal.

5.2.2.11. View Antivirus Scan History

The 'Antivirus Scan History' tab shows items identified as malware on an endpoint. You can also see the malware's installation path and the action taken against the file.

You can only view scan history on endpoints that have Comodo Client Security installed. The scan history covers manual scans and automatic scans run as part of a configuration profile.

To view Antivirus Scan history of the device

- Click the 'Devices' tab on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view their devices Or
 - Select 'Show all' on the left to view every device enrolled to EM
 - Click the name of a Windows device then select the 'Antivirus Scan History' tab:

Note: The 'Antivirus Scan History' tab is available only for endpoints with Comodo Client Security installed.

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TechMons Owner: Dyanora									
		27		Þ	Q		En terretaria de la constante		
Manage Profiles	Remote Control	Remote Tools	Run Procedure	Install or Update Packages	Refresh Device Information	Reboot	Export Security Configuration	More	
1							_		
Ile List E	xported Configu	irations	MSI Installation S	itate Patch N	lanagement	Antivirus Sca	an History Gr	roups	Log
MALWARE NAM	ME PATH		ACTION TAKEN	ACTION ST	TATUS SCAN	IDENTIFICATI	ON NUMBER	DATE	
Application.Win	132 C:\User	s\Vega 🛄	Moved to quarantine	Success	{0000	0000-0000-000	00-0000-000	2018/09/	07 0
Application.Win	32 C:\User	s\Vega 📋	Detected	Success	{00000	0000-0000-000	00-0000-000	2018/09/	07 O
Application.Win	32 C:\User	s\Vega 📩	Moved to guarantine	Success	{00000	0000-0000-000	00-0000-000	2018/09/	07 0

Antivirus Scan History- Table of Column Descriptions					
Column Heading	Description				
Malware Name	Descriptive label of the malicious item				
Path	The installation location of the malicious item on the device				
Action Taken	The CCS response to the item				
Action Status	The success or failure of the action				
Scan Identification Number	Unique identifier assigned to the scan which found the malware				
Date	Date and time at which the scan was performed.				

Sorting, Search and Filter Options

- Click any column header to sort items in alphabetic or ascending/descending order
- EM returns 20 results per page when you perform a search. Click the arrow next to 'Results per page' to increase the number of results up to 200.

5.2.2.12. View and Manage Device Group Membership

The 'Groups' tab shows device groups to which the Windows endpoint belongs. You can remove the device from a group or add it to a new group.

To view and manage device group membership

- · Click the 'Devices' tab on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a company or a group to view their devices

Or

- Select 'Show all' on the left to view every device enrolled to EM
- Click the name of a Windows device then select the 'Groups' tab:

TechMor Owner: Dyand								
		20	-	٥	C			
/lanage Profiles	Remote Control	Remote Tools	Run Procedure	Install or Update Packages	Refresh Device Information	Reboot	More	
1								
Exported	l Configurations	MSI Installa	ation State	Patch Managemen	nt Antivirus S	Scan History	Gro	oups Logs
Exported		MSI Installa		Patch Managemen	nt Antivirus S	Scan History	Gro	Logs
Add to G		ve from Group(s)		Patch Managemen		FED BY		EATED
Add to G	roup <u> </u> Remo	ve from Group(s) CUST			S CREAT		CR	

- The interface lists all groups of which the device is a member.
- Any group profiles will also be applied to the endpoint.

See **Assign Configuration Profiles to a Device Group**, for more details about applying configuration profiles to device groups.

	Device Groups - Table of Column Descriptions					
Column Heading	Description					
Group	 The group label. Click the group name to view and edit group details. See Edit a Device Group for more details. 					
Customer	The name of the company for which the group was created.					
Number of Devices	 The total count of devices in the group. Click the number to view and edit group details. See Edit a Device Group for more details. 					
Created By	 Name of the admin who created the group. Click the name to view the admin's details. See View the Details of a User for more details. 					
Created	The date and time at which the group was created.					

To add the device to a new group

Click 'Add to Group'

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	File List	Exported Co	onfigurations	MSI Installation State	Patch Management	Antivirus Scar
	Add to Group	<u>च</u> Rem	nove from Group			
כ	GROUP NAM	E	COMPANY	NUMBER OF I	DEVICES	CREATED BY
	Default Group	р	Deer Company	3		Impala
]	Innotek PCs		Deer Company	1		coyoteewile@yah
	Running Staf	f	Deer Company	4		coyoteewile@yah
	Add Devi		oup			Close
	Choose grou	p(s)				Close
	Choose grou	p(s)	oup typing their nam	les		Close

The 'Add Device to Group' dialog will appear.

- **Choose Group(s)** Start typing the name of the group which you want the endpoint to join. Select the correct group from the list of suggestions.
- Repeat the process to add the device to other groups.
- Click 'Add'.

The device will be added to the group or groups.

To remove the device from a group

• Select the group from the list and click 'Remove from Group'.

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•	File List Exported	Configurations	MSI Installation State	Patch Management	Antivirus Scan
5	Add to Group	move from Group			
	GROUP NAME	COMPANY	NUMBER OF I	DEVICES	CREATED BY
	Default Group	Deer Company	3		Impala
	Innotek PCs	Deer Company	1		coyoteewile@yaho
	Running Staff	Deer Company	4		coyoteewile@yahoo
Resu	lts per page: 20 🗸	v			
	Remove from G	roup			Close
	Do you really want	to remove this de	vice from device group?	,	
				Confirm Ca	incel

A confirmation dialog will appear.

• Click 'Confirm' to remove the device from the group.

The device will be removed from the group. Group profiles will also be removed from the device.

5.2.2.13. View Device Logs

Endpoint Manager collects logs from managed Windows devices for various events.

Logs are created, for example:

- When a condition is breached in a monitoring procedure
- When an alert is generated on the device
- When a script or patch procedure is executed
- When an app from the 'Windows Application Store' is installed ('Application Store' > 'Windows Application Store')
- When an app is remotely uninstalled via EM.

To view device logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
- Click the name of a Windows device then select the 'Logs' tab:

DESKTOP- Owner: Avanti	D80SVJJ								
🔛 Manage Profiles	C.Remote Control	Remote tools	FD Run Procedure	Install or Update	C Refresh Device	Reboot	Export Security	More	
		BETA		Packages	Information		Configuration		
 Alert Logs 	oorted Configura		Installation Sta		nagement An Party Patch Logs	tivirus Scan Installa	-	oups Logs Jninstallation Log	js
ALERT NAME	TRIGGER	NAME			TRIGGER T	YPE	HITS COUNT (2	4H PERIOD)	
Custom Alert	Second N	Nonitor [Suspicio	ous Files Folder f	or John]	Monitor		43		
Default Alert	Recomm	ended Performa	nce Monitoring		Monitor		2		

The interface has six sub-tabs:

- Alert Logs
- Monitoring Logs
- Script Logs
- OS Patch Logs
- Third Party Patch Logs
- Installation Logs
- Uninstallation Logs

View Alert Logs

'Alerts Logs' logs are generated after a failed procedure deployment or a breach of monitoring conditions.

To view alert logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top menu
 - Select a company or a group to view just their devices
 Or
 - Select 'Show all' to view every device enrolled to EM
- · Click the name of the Windows device then select the 'Logs' tab
- Select 'Alert Logs'

 ventory 	File List Exporte	ed Configurations	MSI Installati	on State	Patch Manager	ment Antivirus S	Scan History	Groups	Logs
Alert Logs	Monitoring Logs	Script Logs	Patch Logs	Third Party	y Patch Logs	Installation Logs	Uninstallatio	on Logs	
ALERT NAME	TRIGGER NA	AME			TRIGG	ER TYPE H	ITS COUNT (24F	I PERIOD)	
Custom Alert	Second Mor	nitor [Suspicious File	s Folder for John]		Monito	r 7	0		
Default Alert	Install Senti	nelOne software			Proced	lure 1			
Default Alert	Recommend	ded Performance Mo	onitoring		Monito	r 2			

Alert Logs - Table of Column Descriptions					
Column Heading	Description				
Alert Name	 The label of the alert that generated the log. Different alerts can be configured for specific events. Click the alert name to view and configure its settings See 'Manage Alerts' for more details. 				
Trigger Name	 The monitor, procedure or condition that was breached. Click the trigger name to view and configure its settings See Manage Monitors and Manage Procedures for more details. 				
Trigger Type	The category of trigger, either 'Monitoring' or 'Procedure'.				
Hits Count (24 H Period)	The number of time this condition was triggered in the past 24 hours.				

View Monitoring Logs

- The 'Monitoring Logs' tab shows events which met the conditions of a monitor
 - Monitors are procedures which keep track of specific items on an endpoint. For example, you may set a monitor to track disk usage does not exceed a certain percentage.
 - · Monitors can be added to the 'Monitoring' section of a configuration profile
- Logs are displayed for the past 24 hours.
 - See Manage Monitors for help to create monitors.
 - See Monitor Settings for help to add monitors to profiles

To view monitoring logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
- Click the name of the Windows device then select the 'Logs' tab
- Click 'Monitoring Logs'

File List	Exported Configura	ations MS	I Installation	n State	Pat	ch Management	Antiviru	is Scan History	/ Groups	Logs
Alert Logs	Monitoring Logs	Script Logs	Patch I	ogs	Third	Party Patch Logs	Install	ation Logs	Uninstallatio	n Logs
MONITOR NAM	E		STATUS	ніт со	JNT	LAST HIT TIME		LAST UPDATE	TIME	DETAILS
Second Monitor	[Suspicious Files Folde	er for John]	Off	255		2018/09/06 12:33:39	PM	2018/09/06 1	2:33:41 PM	Details
CPU [Monitoring	Important Data]		Off	0		Not modified		2018/09/06 1	D:27:34 AM	Details
For Finance Dep	t Computers		Off	0		Not modified		2018/09/06 0	9:40:26 AM	Details
Recommended	Performance Monitorin	g	Off	5		2018/08/28 11:31:26	AM	2018/08/28 1	1:31:56 AM	Details

Monitoring Logs - Table of Column Descriptions						
Column Heading	Description					
Monitor Name	The label of the monitoring condition that was violated.					
	 Click the name to view and manage the parameters of the monitoring condition. 					
	• See 'Monitor Settings' and 'Manage Monitors' for more details.					
Status	Whether or not the monitor is currently active on the device.					
Hit Count	The number of times the monitoring condition was breached during the last 24 hours.					
Last Hit Time	Date and time the monitoring rule was last broken.					
Last Update Time	Date and time when the information was last refreshed.					
Details	Click the 'Details' link to view a log of the breach events.					
	• See View Details of Monitoring Logs (given below) for more information.					

View Details of Monitoring Logs

• To view the conditions of a monitoring rule, click the 'Details' link:

SI Installatio	n State Pa	atch Management Ar	ntivirus Scan History Group:	s Logs
Patch	Logs Thir	d Party Patch Logs II	nstallation Logs Uninstallati	ion Logs
STATUS	HIT COUNT	LAST HIT TIME	LAST UPDATE TIME	DETAILS
Off	255	2018/09/06 12:33:39 PM	M 2018/09/06 12:33:41 PM	Details
Off		Motor W		
			-	← Back
	Patch STATUS Off	Patch Logs Thir STATUS HIT COUNT Off 255	Patch Logs Third Party Patch Logs I STATUS HIT COUNT LAST HIT TIME Off 255 2018/09/06 12:33:39 Pt	Patch Logs Third Party Patch Logs Installation Logs Uninstallat STATUS HIT COUNT LAST HIT TIME LAST UPDATE TIME Off 255 2018/09/06 12:33:39 PM 2018/09/06 12:33:41 PM

TIME	STATUS	ADDITIONAL INFORMATION
2018/09/06 12:47:54 PM	OFF	Network Bandwidth Monitor : Threshold is less than % 5 for 5 seconds - Usage is %
2018/09/06 12:47:44 PM	ON	Network Bandwidth Monitor : Threshold is less than % 5 for 5 seconds - Usage is %
2018/09/06 12:33:41 PM	OFF	Network Bandwidth Monitor : Threshold is less than % 5 for 5 seconds - Usage is %
2018/09/06 12:33:39 PM	ON	Network Bandwidth Monitor : Threshold is less than % 5 for 5 seconds - Usage is %

Details are displayed under two tabs:

Statuses - Displays the date and time when the breach occurred. Also displays details of the monitoring rule that was broken.

Monitoring Log Details - 'Statuses' tab - Table of Column Descriptions					
Column Heading	Description				
Time	Date and time of the breach event.				
Status	Displays the status of the device at the time of monitoring.				
Additional Information	Provides details on the condition monitored and the breach				

Tickets - Shows any service desk tickets raised for the alert.

Log Detail		- Back
Statuses Tickets		
LINK	STATUS	CREATED ON
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=134	Closed	2018/09/06 12:17:34 PM
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=134	Closed	2018/09/06 12:03:31 PM
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=132	Open	2018/09/06 11:32:04 AM
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=132	Closed	2018/09/06 11:31:51 AM

Monitoring Log Details - 'Tickets' tab - Table of Column Descriptions					
Column Heading	Description				
Link	A link to the support ticket created for the breach event.Click the link to open the ticket in service desk.				
Status	Indicates whether the ticket is open or closed				
Created On	The date and time at which the ticket was created.				

View Script Procedure Logs

- The 'Script Logs' tab shows script procedures that were manually run on Windows devices as well as those run automatically via a profile.
- For more details on creating and running script procedures, see Manage Procedures.

To view script procedures logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices

Or

- Select 'Show all' to view every device enrolled to EM
- · Click the name of the Windows device then select the 'Logs' tab
- Click 'Script Logs'

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File List Exp	ported Configura	tions MSI Installation State	Patch N	lanagement	Antivirus Sc	an History	Groups 🤇	Logs
Alert Logs Mon	iitoring Logs 🤇	Script Logs Patch Logs	Third Part	y Patch Logs	Installation	Logs	Uninstallation L	ogs
PROCEDURE NAME	STARTED AT	STARTED BY	LAUNCH TYPE	EXECUTED BY	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAILS
Install Cobian Backup 11 software	2018/09/06 12:29:10 PM	herculespopular22@gmail.com	RunOver	Logged in User	2018/09/06 12:31:32 PM	Finished success	2018/09/06 12:31:32 PM	Details
Install SentinelOne software	2018/09/06 12:27:08 PM	herculespopular22@gmail.com	RunOver	Logged in User	2018/09/06 12:27:12 PM	Failed	2018/09/06 12:27:12 PM	Details
Copy users desktop contents to a remote server	2018/09/06 09:46:17 AM	herculespopular22@gmail.com	RunOver	Logged in User	2018/09/06 09:47:54 AM	Finished success	2018/09/06 09:47:54 AM	Details

	Script Procedure Logs - Table of Column Descriptions
Column Heading	Description
Procedure Name	 The label of the script procedure that was run on the device. Click the procedure name to view the configuration parameters of the script procedure. See Manage Procedures for more details.
Started At	The date and time when the procedure commenced.
Started By	Who or what launched the procedure.
	• A profile name will be shown here if the procedure was scheduled in a profile which is active on the device.
	 An admins name or email address will be shown if the procedure was run manually.
	Click the name/email address to view the details of the admin.
Launch Type	Whether the procedure was scheduled or run manually.
Executed By	The user account type used by Endpoint Manager to execute the procedure.
Finished At	The date and time when the procedure was completed.
Status	Whether the script successfully executed or not.
	You can configure an alert if a procedure deployment fails. See 'Manage Procedures' for more details.
Last Status Update	The date and time when the information was last updated.
Details	Click the 'Details' link to view a log of the procedure's execution.
	• See the explanation of View Details of Script Procedure Logs given below.

View Script Procedure Log details

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Click the 'Details' link to view details about a procedure's execution:

Alert Logs Mor	nitoring Logs 🤇	Script Logs Patch Logs	Third Part	ty Patch Logs	Installation	Logs	Uninstallation L	ogs
PROCEDURE NAME	STARTED AT	STARTED BY	LAUNCH TYPE	EXECUTED BY	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAIL
nstall Cobian Backup 11 software	2018/09/06 12:29:10 PM	herculespopular22@gmail.com	RunOver	Logged in User	2018/09/06 12:31:32 PM	Finished success	2018/09/06 12:31:32 PM	Details
nstall SentinelOne oftware	2018/09/06 12:27:08 PM	herculespopular22@gmail.com	RunOver	Logged in User	2018/09/06 12:27:12 PM	Failed	2018/09/06 12:27:12 PM	Detrails

Log Detail 🧲		🔶 Back
Statuses Tickets		
TIME	STATUS	ADDITIONAL INFORMATION
2018/09/06 12:27:12 PM	Failed	<pre>Traceback (most recent call last): File "<string>", line 140, in <module> File "<string>", line 53, in Download File "C:\Program Files (x86)\COMODO\Comodo ITSM\lib\urllib2.py", line 154, in return opener.open(url, data, timeout) File "C:\Program Files (x86)\COMODO\Comodo ITSM\lib\urllib2.py", line 437, in response = meth(req, response) File "C:\Program Files (x86)\COMODO\Comodo ITSM\lib\urllib2.py", line 550, in 'http', request, response, code, msg, hdrs) File "C:\Program Files (x86)\COMODO\Comodo ITSM\lib\urllib2.py", line 475, in return selfcall_chain(*args) File "C:\Program Files (x86)\COMODO\Comodo ITSM\lib\urllib2.py", line 409, in result = func(*args) File "C:\Program Files (x86)\COMODO\Comodo ITSM\lib\urllib2.py", line 558, in raise HTTPError(req.get_full_url(), code, msg, hdrs, fp) urllib2.HTTPError: HTTP Error 401: UNAUTHORIZED </string></module></string></pre>
2018/09/06 12:27:08 PM	Started	

The details are displayed under two tabs:

Statuses - The date and time at which successive stages in the procedure were run, their success status and results.

Script Procedure Log Details - 'Statuses' tab - Table of Column Descriptions							
Column Heading	Description						
Time	The date and time of the procedure execution.						
Status	Whether the execution was successful or not.						
Additional Information	 Provides details on the execution: If successful, displays the results of the procedure execution If failed, displays the reason for not running the procedure 						

Tickets - Displays tickets raised for any failed procedures.

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Log Detai	I			🔶 Back
Statuses	Tickets			
LINK			STATUS	CREATED ON
https://frontf	ork.staging.s	ervicedesk.comodo.com/scp/tickets.php?id=133	Open	2018/09/06 11:57:03 AM
Results per p	age: 20	~		Displaying 1 of 1 results

Script Procedure Log Details - 'Tickets' tab - Table of Column Descriptions					
Column Heading	Description				
Link	A link to the support ticket created for the breach event.Click the link to open the ticket in service desk.				
Status	Indicates whether the ticket is open or closed				
Created On	The date and time at which the ticket was created.				

View OS Patch Procedure Logs

- The 'Patch Logs' tab shows OS patch procedures that were manually run on Windows devices as well as those run automatically via a profile.
- For more details on creating and running patch procedures, see Manage Procedures.

To view patch procedures logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices
 Or
 - Select 'Show all' to view every device enrolled to EM
- · Click the name of the Windows device then select the 'Logs' tab
- Click 'Patch Logs'

DESKTOP- Owner: hercule	Q74RLIJ spopular22@gma	ail.com									
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Manage Profiles	Remote Control	Remote tools	Run Procedure	Install or Update Packages	Refresh Device	Reboot	Export Security Configuration	Delete Device	Owner		
✓ rofiles Set	oftware Invento	ry File List	Exported	Configurations	MSI Installatio	on State	Patch Manageme	ent Antivirus	Scan History	Groups	Logs
Alert Logs	Monitoring Lo	ogs Script	Logs Patcl	h Logs Thi	rd Party Patch Log	s Installa	ation Logs l	Ininstallation Log	S		
PROCEDURE N	AME ST.	ARTED AT	STAR	TED BY	LAUNCH TYPE	FINISHED AT	s	TATUS	LAST STAT	US UPDATE	DETAILS
Security patch	updates 20	18/07/10 12:35:0	0 PM Patch	Procedure	Scheduled	2018/07/10 1	2:35:00 PM F	inished success	2018/07/10	12:35:00 PM	Details
Security patch	updates 20	18/07/10 12:34:5	9 PM Patch	Procedure	Scheduled	2018/07/10 1	2:34:59 PM F	inished success	2018/07/10	12:34:59 PM	Details

	Patch Procedure Logs - Table of Column Descriptions
Column Heading	Description
Procedure Name	 The label of the patch procedure that was run on the device. Click the procedure name to view and manage the configuration parameters of it. See 'Manage Procedures' for more details.
Started At	The date and time when the procedure commenced.
Started By	 Who or what launched the procedure. A profile name will be shown here if the procedure was scheduled in a profile which is active on the device. An admins name or email address will be shown if the procedure was run manually. Click the name/email address to view the details of the admin
Launch Type	Whether the procedure was scheduled or run manually.
Finished At	The date and time when the procedure was completed.
Status	Whether the OS patch procedure was successfully executed or not. You can configure an alert if a procedure deployment fails. See 'Manage Procedures' for more details.
Last Status Update	The date and time when the information was last updated.
Details	 Click the 'Details' link to view a log of the procedure's execution. See the explanation of View Details of OS Patch Procedure Logs given below.

View OS Patch Procedure Log details

• Click the 'Details' link to view details about a procedure's execution:

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Alert Logs Monito	ring Logs Scrip	t Logs	Patch Logs	Third Party Patch Lo	ogs Installation Logs	Uninstallation Log	S	
PROCEDURE NAME	STARTED AT		STARTED BY	LAUNCH TYPE	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAIL
Security patch updates	2018/07/10 12:35	:00 PM	Patch Procedure	Scheduled	2018/07/10 12:35:00 PM	Finished success	2018/07/10 12:35:00 PM	Details
Security patch updates	2018/07/10 12:34	:59 PM	Patch Procedure	Scheduled	2018/07/10 12:34:59 PM	Einiched success	2018/07/10 12:34:59 PM	Details
Log Det Statuses	ail C Tickets						🔶 Bac	ck
	Tickets	TATUS	ADDITIO	NAL INFORMATION			🔶 Bac	ck
Statuses	Tickets	TATUS inished succe		NAL INFORMATION	:ceeded.		- Bac	ck
Statuses TIME 2018/07/1	Tickets S 0 12:35:00 PM F		ess Procedu	ure operation suc	completed succesfully.		- Bac	ck
Statuses TIME 2018/07/1 2018/07/1	Tickets S 0 12:35:00 PM F 0 12:35:00 PM II	inished succe	Resolvi	ure operation suc	completed succesfully.		- Bac	ck

The details are displayed under two tabs:

Statuses - The date and time at which successive stages in the procedure were run, their success status and results.

OS Patch Procedure Log Details - 'Statuses' tab - Table of Column Descriptions						
Column Heading	Description					
Time	Date and time of the procedure execution.					
Status	Whether the execution was successful or not.					
Additional Information	 Provides details on the execution: If successful, displays the results of the procedure execution If failed, displays the reason for not running the procedure 					

Tickets - Displays tickets raised for any failed procedures.

Log Detai	I					🔶 Back
Statuses	Tickets					
LINK		STATUS	CREAT	fed on		
https://coyot	e.servicedesk.com	odo.com/scp/tickets.php?id=780		Open	2018/03/19 12:22:25 PM	
https://coyot	e.servicedesk.com	odo.com/scp/tickets.php?id=780		Open	2018/03/19 12:16:57 PM	

Monitoring Log Details - 'Tickets' tab - Table of Column Descriptions				
Column Heading	Description			

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Link	A link to the support ticket created for the breach event.Click the link to open the ticket in service desk.
Status	Indicates whether the ticket is open or closed
Created On	The date and time at which the ticket was created.

View Third Party Patch Procedure Logs

- The third-party patch tab shows logs of patch deployments run on third party applications.
- This includes procedures that were run manually and those run automatically via a profile.
- If you need help to create patch procedures, see Manage Procedures.

To view third party patch procedures logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
- Click the name of the Windows device then select the 'Logs' tab
- Click 'Third Party Patch Logs'

DESKTOP Owner: Avanti	-D80SVJJ									
E,		27	₽□	٥	Q	O		Ē	<u>æ</u>	
Manage Profiles	Remote Control	Remote tools	Run Procedure	Install or Updat Packages	e Refresh Device Information	Reboot	Export Security Configuration	Delete Device	Owner	
File List	Exported Co	nfigurations	MSI Installati	ion State	Patch Management	Antiviru	is Scan History	Groups	Logs	
Alert Logs	Monitoring Lo	an Corint								
	Monitoring 20	gs script	Logs Patcl	h Logs 🗲 Th	ird Party Patch Log	s Installa	ation Logs Unir	nstallation Log	js	
PROCEDURE	STARTED A	5 1	TARTED BY	h Logs		SHED AT	ation Logs Unir		STATUS	DETAILS
		л т S	0	@gmail.com	LAUNCH TYPE FINI: On 2018	_		LAST UPDA	STATUS	DETAILS Details

Third Party Patch Logs - Table of Column Descriptions					
Column Heading	Description				
Procedure Name	 The label of the procedure that was run on the device. Click the procedure name to view and manage the configuration parameters of the third party patch procedure. See 'Manage Procedures' for more details. 				
Started At	The date and time when the procedure commenced.				



Started By	Who or what launched the procedure.
	• A profile name will be shown here if the procedure was scheduled in a profile which is active on the device.
	 An admins name or email address will be shown if the procedure was run manually.
	• Click the name/email address to view the details of the admin
Launch Type	Indicates whether the procedure was scheduled or run manually.
Finished At	The date and time when the procedure was completed.
Status	Whether the third party patch procedure was successfully executed or not.
	 You can configure an alert if a procedure deployment fails. See 'Manage Procedures' for more details.
Last Status Update	Date and time when the information was last updated.
Details	Click the 'Details' link to view a log of the procedure's execution.
	 See explanation of View Details of Third Party Patch Procedure Logs given below.
L	

View Third Party Patch Procedure Log details

Click the 'Details' link to view details about a procedure's execution:

File List	Exported Configu	rations MSI	Installation State	Patch Mana	gement	Antivirus So	an History	Groups	Logs	
Alert Logs	Monitoring Logs	Script Logs	Patch Logs	Third Party Pa	tch Logs	Installation	n Logs – U	ninstallatio	n Logs	
PROCEDURE NAME	STARTED AT	STARTED	ВҮ	LAUNCH TYPE	FINISHE	D AT	STATUS	-	AST STATUS JPDATE	DETAILS
On-demand patching	2018/09/06 10:42:37 AM	herculespo	opular22@gmail.com	On Demand	2018/09/ 10:43:53		Overall operat		2018/09/06 0:43:53 AM	Details
On-demand				On	2018/09/	/06	Overall operat	ions 2	2018/09/06	

Log Detail		- Back
Statuses Tickets		
TIME	STATUS	ADDITIONAL INFORMATION
2018/09/06 10:43:53 AM	Overall operations success	All Operations are finished successfully.
2018/09/06 10:43:53 AM	Operation finished success	Script runner exited normally with exit code 0. Operation probably completed for Opera Stal \checkmark
2018/09/06 10:42:37 AM	Operation started	Operation is in progress for Opera Stable 54.0.2952.41.
2018/09/06 10:42:37 AM	Operation resolve success	Resolving Operation is completed.

The details are displayed under two tabs:

Statuses - The date and time at which successive stages in the procedure were run, their success status and results.

Third Party Patch Log Details - 'Statuses' tab - Table of Column Descriptions



Column Heading	Description
Time	Date and time of the procedure execution.
Status	Whether the execution was successful or not.
Additional Information	 Provides details on the execution: If successful, displays the results of the procedure execution If failed, displays the reason for not running the procedure

Tickets - Displays tickets raised for any failed procedures.

•	File List	Exported Configu	rations MSI	Installation State	Patch Management	Antivirus Scan History	Groups Logs
А	lert Logs	Monitoring Logs	Script Logs	Patch Logs	Third Party Patch Logs	Installation Logs	Uninstallation Logs
L	og Detail						🔶 Back
S	tatuses	Tickets					
L	INK		STATUS		CREATED ON		
٨	lo results four	ıd.					

Third Party Patch Log Details - 'Tickets' tab - Table of Column Descriptions						
Column Heading	Description					
Link	A link to the support ticket created for the breach event.Click the link to open the ticket in service desk.					
Status	Indicates whether the ticket is open or closed					
Created On	The date and time at which the ticket was created.					

View Installation Logs

- 'Installation Logs' tab shows installations of third party applications from the Windows application Store ('Application Store' > 'Windows Application Store').
- See Install Windows Apps on Devices for more details on remote installation

To view installation logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
- · Click the name of the Windows device then select the 'Logs' tab
- Click 'Installation Logs'

DESKTOP- Owner: Avanti	D80SVJJ									
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Manage Profiles	Remote Control	Remote tools	Run Procedure	Install or U Packag		fresh Device nformation	Reboot	Export Security Configuration	More	
File List	Exported Cor	figurations	MSI Installati	on State	Patch M	anagement	Antivirus	s Scan History	Groups	Logs
Alert Logs	Monitoring Log	js Script	Logs Patcl	n Logs	Third Party	Patch Logs	Installa	tion Logs	Uninstallation L	ogs
PROCEDURE NAME	STARTED AT	STAR	TED BY		LAUNCH TYPE	FINISHED AT	STAT	rus	LAST STATUS UPDATE	DETAILS
On-demand installation	2018/09/06 11:57:29 AM	hercu	llespopular22@gr	nail.com	On Demand	2018/09/06 12:01:38 PM	Over oper succ	ations	2018/09/06 12:01:38 PM	Details
On-demand installation	2018/09/06 11:42:17 AM	hercu	ilespopular22@gr	nail.com	On Demand	2018/09/06 11:42:17 AM	Over	all ations fail	2018/09/06 11:42:17 AM	Details

	Installation Logs - Table of Column Descriptions						
Column Heading	Description						
Procedure Name	The label of the procedure that ran the installation. The possible value is 'On-demand patching'.						
Started At	The date and time when the installation commenced.						
Started By	The administrator who started the remote installation.						
	Click the name/email address to view the details of the admin						
Launch Type	Indicates whether the procedure was scheduled or run manually. The possible value is 'On Demand'						
Finished At	The date and time when the installation was completed.						
Status	Whether the remote installation was successful, in progress, or failed.						
Last Status Update	The date and time when the information was last refreshed.						
Details	Click the 'Details' link to view a log of the procedure's execution.						
	• See explanation of View Details of Installation Logs given below.						

View Details of Installation Logs

• Click the 'Details' link to view details about a procedure's execution:

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File List	Exported Configur	rations MS	I Installation State	Patch M	lanagement	Antivirus Scan History	Groups	Logs
Alert Logs	Monitoring Logs	Script Logs	Patch Logs	Third Party	y Patch Logs	Installation Logs	Uninstallation L	.ogs
PROCEDURE NAME	STARTED AT	STARTED BY	r	LAUNCH TYPE	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAILS
On-demand installation	2018/09/06 11:57:29 AM	herculespop	ular22@gmail.com	On Demand	2018/09/06 12:01:38 PM	Overall operations success	2018/09/06 12:01:38 PM	Details

Log Detail

🔶 Back

Statuses

TIME	STATUS	ADDITIONAL INFORMATION
2018/09/06 12:01:38 PM	Overall operations success	All Operations are finished successfully.
2018/09/06 12:01:37 PM	Operation finished success	Script runner exited normally with exit code 0. Operation probably completed for AnyDVDE
2018/09/06 12:00:24 PM	Operation started	Operation is in progress for AnyDVD 8.2.6.0.
2018/09/06 12:00:23 PM	Operation finished success	Script runner exited normally with exit code 0. Operation probably completed for Advance ◀
2018/09/06 11:57:29 AM	Operation started	Operation is in progress for Advanced Installer 15.0.
2018/09/06 11:57:29 AM	Operation resolve success	Resolving Operation is completed.
2018/09/06 11:57:29 AM	Operation resolve started	Resolving Operation is started.

The 'Log Details' pane shows the date and time at which successive stages in the installation were run, their success status and results.

Installation Log Details - 'Statuses' tab - Table of Column Descriptions						
Column Heading Description						
Time	Date and time each stage in the installation was run.					
Status	Whether the execution was successful or not.					
Additional Information	Show current installation progress.If the install fails, this area shows the reason.					

View Uninstall Logs

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The uninstallation tab contains logs about the removal of third party applications from devices.

There are two ways in which you can remotely uninstall applications:

- i. 'Device Details' interface You can uninstall selected application(s) from an individual device.
 - Click 'Devices' > 'Device List' > 'Device Management'
 - Click the name of a Windows device and select the 'Software Inventory' tab



- Select the applications and click 'Uninstall Selected Application' on the top
 - See View and Manage Applications Installed on a Device for more details
- ii. 'Global Software Inventory' interface You can uninstall selected application(s) from all managed devices on which the are currently installed.
 - Click 'Applications' > 'Global Software Inventory'
 - Select the application to be uninstalled
 - Click 'Uninstall' on the top
 - See View and Manage Applications Installed on Windows Devices for more details

To view uninstallation logs

• Click 'Devices' > 'Device List'

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- Click the 'Device Management' tab
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
 - Click the name of the Windows device then select the 'Logs' tab
- Click 'Uninstallation Logs'

Software Inventory	File List	Exported Configurations MSI Inst	tallation State	Patch Manage	ment Antivirus Sca	n History Groups	s Logs
Alert Logs Mon	itoring Logs	Script Logs Patch Logs Thir	rd Party Patch	Logs Installatio	on Logs Uninstallat	tion Logs	
PROCEDURE NAME	STARTED AT	STARTED BY	LAUNCH TYPE	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAILS
On-demand Uninstallation	2018/09/06 11:25:44 AM	herculespopular22@gmail.com	On Demand	2018/09/06 11:26:06 AM	Overall operations success	2018/09/06 11:26:06 AM	Details
On-demand Uninstallation	2018/09/06 10:14:00 AM	herculespopular22@gmail.com	On Demand	2018/09/06 10:14:25 AM	Overall operations success	2018/09/06 10:14:25 AM	Details
On-demand Uninstallation	2018/09/06 09:57:36 AM	herculespopular22@gmail.com	On Demand	2018/09/06 09:58:38 AM	Overall operations success	2018/09/06 09:58:38 AM	Details

Uninstallation Logs - Table of Column Descriptions					
Column Heading	Description				
Procedure Name	The name of the procedure that initiated the application uninstallation.				
Started At	The date and time when the uninstallation commenced.				
Started By	The administrator who started the remote uninstallation.				
	• Click the name/email address to view the details of the administrator.				
Launch Type	Indicates whether the procedure was scheduled or run manually. The possible value is 'On Demand'				
Finished At	The date and time when the uninstallation was completed.				
Status	Whether the remote uninstallation was successful, in progress, or failed.				
Last Status Update	The date and time when the information was last refreshed.				
Details	Click the 'Details' link to view a log of the procedure's execution.				
	• See explanation of View Details of Uninstallation Logs given below.				

View Details of Uninstallation Logs

• Click the 'Details' link to view details about a remote uninstallation execution:

ware Inventory File L	ist Exported Confi	igurations MSI Installation State Patch Management Antivirus Scan History Groups Logs
Alert Logs Monitorin	g Logs Script Logs	s Patch Logs Third Party Patch Logs Installation Logs
Log Detail		🔶 Back
Statuses		
TIME	STATUS	ADDITIONAL INFORMATION
2018/09/06 10:14:25 AM	Overall operations success	All Operations are finished successfully.
2018/09/06 10:14:24 AM	Operation finished success	Script runner exited normally with exit code 0. Operation probably completed for AVS Media
2018/09/06 10:14:00 AM	Operation started	Operation is in progress for AVS Media Player 4.6.1.126.
2018/09/06 10:14:00 AM	Operation resolve success	Resolving Operation is completed.
2018/09/06 10:14:00 AM	Operation resolve started	Resolving Operation is started.

The 'Log Details' pane shows the date and time at which successive stages in the uninstallation were run, their success status and results.

Installation Log Details - 'Statuses' tab - Table of Column Descriptions					
Column Heading Description					
Time	Date and time each stage in the uninstallation was run.				
Status	Whether the execution was successful or not.				
Additional Information	Show current installation progress.If the uninstallation failed, this area shows the reason.				

5.2.3. Manage Mac OS Devices

The details page of a Mac OS device shows OS and security information about the device. The screen also lets you manage endpoint profiles, remotely install Mac OS packages and configure group membership.

Note: If you haven't done so already, you should first enroll users then enroll their devices.

To view and manage a Mac OS device

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- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group in the middle column to view only their devices Or
 - Select 'Show all' to view every device added to EM

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DASHBOARD DEVICES DEVICES Device List Bulk Installation Package AUSERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SECURITY	 Device List Search group nan Show all B Default Custome Fork Springs Ref frontfork Saddle and Peda 	er gional Tr	Ē		e Tools Run Procedure
Device List Bulk Installation Package Bulk Installation Package CONFIGURATION TEMPLATES CONFIGURATION STORE APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS SETTINGS Verald'S Mac Owner: Herald Image Profiles Remote Control Insta Device Name Summary Insta Device Summary	Show all Show all Gefault Custome Fork Springs Reg frontfork	er gional Tr	Enroll Device Ren	mote Control Remote	e Tools Run Procedure
Device List Bulk Installation Package AUSERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS APPLICATIONS SECURITY SUB-SYSTEMS SECURITY SUB-SYSTEM	Show all Show all Gefault Custome Fork Springs Reg frontfork	er gional Tr	Enroll Device Ren	mote Control Remote	e Tools Run Procedure
Bulk Installation Package USERS CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SEC	+ Default Custome + Fork Springs Res + Fork Springs Res	gional Tr	Enroll Device Ren	mote Control Remote	e Tools Run Procedure
 USERS > CONFIGURATION TEMPLATES > APPLICATION STORE > APPLICATIONS >> SECURITY SUB-SYSTEMS > SECURITY SUB-SYSTEMS > SECURITY SUB-SYSTEMS > SETTINGS > 	Fork Springs Re Fork Springs Re Fork Springs Re	gional Tr	_		
CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS Herald's Mac Owner: Herald Herald's Mac Owner: Herald Device Name Summary Ins Device Summary	+ 🖨 frontfork		, Search fo	BE	
APPLICATION STORE APPLICATIONS APPLICATIONS SECURITY SUB-SYSTEMS SETTINGS Herald's Mac Owner: Herald Herald E Applice Summary Insta Pa Device Name Summary Insta Device Summary Insta		als	O Search fo		TA
APPLICATIONS > SECURITY SUB-SYSTEMS > SETTINGS > Herald'S Mac Owner: Herald Manage Profiles Remote Control Insta Pa Device Name Summary Ins Device Summary	+ 🖶 Saddle and Ped	als		r devices	
SECURITY SUB-SYSTEMS SETTINGS Herald's Mac Owner: Herald Owner: Herald Image Profiles Remote Control Instance Device Name Summary Instance Device Summary Instance					
SECURITY SUB-SYSTEMS SETTINGS Herald's Mac Owner: Herald Wanage Profiles Remote Control Insta Profiles Remote Control Insta Profiles Remote Control Insta Device Name Summary Insta Device Summary Insta			0\$	NAME	ACTIVE COM
SETTINGS				Herald's Mac	AG AV
Herald's Mac Owner: Herald Manage Profiles Remote Control Insta Pa Device Name Summary Ins Device Summary				C -	
Owner: Herald Anage Profiles Remote Control Insta Pa Device Name Summary Ins Device Summary		-		Ø Dyanora Sa	AG AV
Pa Device Name Summary Ins Device Summary	G 0	0	F	⊑ ₀	<u>'</u>
Device Summary	ll macOS Refresh Dev ckages Informatio		porate Lock	Delete Device	Owner
	talled Apps Assoc	iated Profiles	Packages Ins	tallation State	Groups
Queters device Hereid's h		OS Su	immary		
Custom device Herald's N	lac	os		macOS	
name		OS ver	sion	10.13.6	
Name C1-Mac's	Mac mini	Build v	ersion	17G65	
Logged in user C1-Mac		Serial r	number	C07N430BDWYI	L
Device type PC					
Model Mac mini Wi-Fi MAC a8/8e/24/a					

Click the name of any Mac OS device to open its 'Device Details' pane:

Device details are shown in six tabs:

- Device Name The device label. You can change this as per your preferences. See View and Edit Mac OS Device Name for more details.
- **Summary** General details of the device, including device information, OS details, Network details and security configuration. See **Summary Information of Mac Device** for more details.
- Installed Apps A list of applications currently installed on the device, along with their versions. See View Installed Applications for more details.
- Associated Profiles Profiles deployed on the device. See View and Manage Profiles Associated with the Device for more details.
- Package Installation State Mac OS packages that have been installed on the device via Endpoint

Manager. See View Mac OS Packages Installed on a Device through Endpoint Manager for more details.

• **Groups** - Device groups to which the endpoint belongs. You can manage group membership from here. See **View and Manage Device Group Memberships** for more details.

Administrators can remotely perform various tasks on the device using the options at the top of the interface.

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Manage Profiles	Remote Control	Install macOS Packages	Refresh Device Information	Wipe / Corporate	Lock	Delete Device	Owner

- Manage Profiles Add or remove device profiles. See Assign Configuration Profiles to Selected Devices for more details.
- Remote Control Establish a remote desktop connection to an endpoint. See Remote Management of Windows and Mac OS Devices for more details
- Install Mac OS Packages Remotely install Comodo Client Security (CCS) for Mac package. See Remotely Install Packages onto Mac OS Devices for more details.
- **Refresh Information** Contacts the device and updates displayed information. See **Update Device Information** for more details.
- Wipe / Corporate Delete data stored on the device if it is lost or stolen. See Wipe Selected Devices for more details.
- Lock/Unlock Mac OS Remotely lock or unlock the device if it is lost, misplaced or stolen. See Lock / Unlock Selected Devices for more details.
- **Remove a Device** Removes the device from Endpoint Manager. See **Remove a Device** for more details.
- Owner Change the user with whom the device is associated. You can also change the type of device to corporate or personal. See Change a Device's Owner and Change the Ownership Status of a Device for more details.

5.2.3.1. View and Edit Mac OS Device Name

- Enrolled devices are listed by the name assigned to them by their owner.
- If no name was assigned then the actual device name or model number will be used.
- Admins can change the device name as required. Name changes apply only in Endpoint Manager. The name will not change on the endpoint itself.
- If 'Allow Auto Rename of Device Custom Name' is enabled then the custom name will be replaced automatically by the device name/model number during the next sync. To retain the custom name for the device, make sure to disable this option.

To change a device name

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - · Select 'Show all' on the left to view every device enrolled to EM

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Click of	on any Mac OS	device then sel	ect the 'Device	e Name' tab				
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Manage Profiles	Remote Control	Install macOS Packages	Refresh Device Information	Wipe / Corporate	Lock	Delete Device	Owner	
Device Name	Summary	Installed Apps	Associated	Profiles Pa	ckages Insta	llation State	Groups	
							🏹 Edit	
Custom devi Herald's Mac								
Allow auto re Enabled	ename of device c	ustom name						

- Custom device name The current name of the device.
- Allow auto rename of device custom name Enabled The device's real name will automatically
 replace the custom name in this list during the next sync. Disabled the custom name is kept in EM
- Click the 'Edit' button at the right to change the name of the device.

•

Device Name	Summary	Installed Apps	Associated Profiles	Packages Installation State	Groups
					F Edit
Custom devic Herald's Mac	e name				
Allow auto rer Enabled	name of device cu	ustom name			
	Ľ			S Cancel	Save
Custom device	name			S Cancel	Save

- Enter the new name in the 'Custom Device Name' field
- Make sure the 'Allow Auto Rename of Device Custom Name' is disabled to retain the custom name in the list. If this is enabled, the custom name will be automatically replaced with the device's name or model number during the next sync with the EM communication client on the device.
- Click 'Save' for your changes to take effect.



The device will be listed with its new name.

• To restore the name of the device as it was at the time of enrollment, click 'Edit' from the 'Device Name' interface, click 'Restore' at the right and click 'Save'.

5.2.3.2. Summary Information of Mac Device

The 'Summary' tab contains information about the device operating system, network connection, CCS configuration and more.

To view the device summary

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group to view just their devices Or
 - Select 'Show all' to view every device add to EM
- Click on any Mac OS device then select the 'Summary' tab (if it is not already open).

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Ianage Profiles Rer	note Control	Install macOS Packages	Refresh Device Information	e \	Wipe / Corporate	Lock	Delete Device	Owner
Device Name	Summary	Installed Apps	Associat	ed Pr	ofiles Pac	kages Inst	allation State	Groups
Device Sum	nary				OS Summa	iry		
Custom device	e He	erald's Mac			OS		macOS	
name					OS version		10.13.6	
Name		I-Mac's Mac mini			Build version	1	17G65	
Logged in use		I-Mac			Serial numbe	er	C07N430BDWYL	
Device type	P							
Model	М	ac mini						
Wi-Fi MAC	a	3:8e:24:a3:4c:21						
Last connection	on 20)18/10/31 10:16:18 A	M					
Registered	20)18/10/30 04:44:05 P	M					
IMEI	N,	/Α						
Communication Client version		23.18211.18100						
Ownership typ	e N	ot specified						
Local time zor	ie U	TC +05:30						
Network Sur	nmary			1	Security Pr	oducts l	nfo	
Bluetooth MA	c a8	3-8e-24-a3-4c-22			Name		COMODO Client -	Security
Wi-Fi MAC	a	3:8e:24:a3:4c:21			Version		2.4.0.608	
Ethernet MAC	00	::4d:e9:b8:2d:9a			Components	\$	Antivirus	on
					Virus DB ver	sion	29904	
					Virus DB last update time	t	2018/10/31 10:0	8:08 AM

- **Device Summary** Device name, user, type, model, last sync time wit the client, device ownership status and more.
- **OS Summary** Details about the operating system of the device, including version and build.
- Network Summary MAC addresses of the device for connection through Bluetooth, WiFi and Ethernet.
- Security Products Info Details about Comodo Client Security (CCS) for Mac on the device, including version number, database version and update status.

5.2.3.3. View Installed Applications

• The 'Installed Apps' tab shows a list of all applications installed on a device.

To view the list of applications



- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device added to EM
- Click on any Mac OS device then select the 'Installed Apps' tab

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Manage Profiles	Remote Control	Install macOS Packages	Refresh Device Information	Wipe / Corporate	Lock	Delete Device	More
Device Name	Summary	Installed Apps	Associated	Profiles Pack	ages Insta	llation State	Groups
${\cal G}$ Update Appl	lication List						C I
APPLICATION		PA	CKAGE			٧	/ERSION
COMODO Client	- Security Scanne	r cor	n.COMODO.COMO	DO-ClientSecurity	Scanner	2	.4.0
COMODO Scann	ier	cor	n.COMODO.COMO	DO-Scanner		2	.4.0
Run Diagnostics	1	cor	n.COMODO.Diagno	osticUtil		2	.4.0
TrayMenu		cor	n.COMODO.TrayM	enu		2	.4.0
	PO Client - Securit		n.COMODO.Uninst	all-COMOPO-Antivir			.4.0

Installed Apps - Column Descriptions					
Column Heading	Description				
Application	The name of the software.				
	 Click the name of the application to view the list of all Mac OS devices on which the app is found. 				
	See Manage Devices for more details.				
Package	The source of the application. The Mac OS package from which the application was installed.				
Version	The version number of the application.				

Sorting and Filtering Options

- Click any column header to sort the items in alphabetical order of entries in that column.
- Click the funnel icon \mathbf{Y} on the right to open the filter options.

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tates	Groups
4	Application
F	Package
	/ersion

• To filter the items or search for a specific item based on the app name, package or version, enter the search criteria in full or part in the respective text box and click 'Apply'

You can use any combination of filters at-a-time to search for specific devices.

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- EM returns 20 results per page when you perform a search. To increase the number of results displayed per page up to 200, click the arrow next to 'Results per page' drop-down.
- To reload the list with latest applications, click 'Update Application List'

5.2.3.4. View and Manage Profiles Associated with a Device

The 'Associated Profiles' tab lists all currently active configuration profiles on an endpoint.

A profile can be applied to a device for any of these reasons:

- Because it is a default profile for the device's operating system.
- Because the profile was specifically applied to the device
- Because the profile was applied to the device owner. The profile is then applied to all devices that the user owns.
- Because the profile was applied to a device group. The device is a member of the group and so inherits the profile.
- Because the profile was applied to a user group. The device inherits the profile because its owner is a member of the user group.

See Profiles for Mac OS Devices for more details on configuration profiles.

To view and manage profiles associated with a device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices

Or

- · Select 'Show all' to view every device added to EM
- Click on any Mac OS device then select the 'Associated Profiles' tab

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Manage Profiles	Remote Control	Install macOS Packages	Refresh Device Information	Wipe / Corporate	Lock	Delete Device	Owner
Device Name	Summary	Installed Apps	Associated	Profiles Pac	kages Insta	Illation State	Groups
NAME		SOURCE ASS	OCIATED	INFORM	ATION ABO	UT ASSOCIATION	I
Flying Squad		User Group: F	lying Squad	Success	fully proces	sed	
For Herald		Owner		Success	fully proces	sed	
Mas OS for Sto	res Dept	Device		Success	fully proces	sed	

	Associated Profiles - Column Descriptions					
Column Heading	Description					
Name	 The profile label. Click the name of a profile to open the 'Edit Profile' interface. See Edit Configuration Profiles for more details. 					
Source Associated	 How the profile was applied to the device. Profiles can be applied to a device in different ways: Profile was directly applied to a device. See View and Manage Profiles Associated with a Device for more details Profile was applied to a user. These profiles are in-turn deployed to all devices belonging to the user. See Assign Configuration Profiles to a Users' Devices for more details Profile was applied to a user group. These profiles are deployed to all devices owned by group members. See Assign Configuration Profile to a User Group for more details Profile was applied to a device group. These profiles are deployed to all devices in the group. See Assign Configuration Profile to a User Group for more details Click the source to view and manage profiles associated with that source. 					
Information about Association	Whether the profile has been successfully applied to the device or is pending.					

• Click the 'Name' column header to sort the items in the alphabetical order of the names of the items.

Add or Remove Profiles

• Click 'Manage Profiles' to add or remove profiles. See View and Manage Profiles Associated with a **Device** for a full overview of this interface.

5.2.3.5. View Mac OS Packages Installed on a Device through Endpoint Manager

• Endpoint Manager lets you remotely install packages on managed Mac OS endpoints.

Note: Currently only CCS can be remotely installed on Mac OS devices from EM. Support for other EM packages and third party Mac OS packages will be available in the future versions.

To view list of Mac OS packages installed on an endpoint through EM

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices
 - Or
 - · Select 'Show all' to view every device added to EM
- Click on any Mac OS device then select the 'Packages Installation State' tab

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E Manage Profiles	Control	Install macOS Packages	C Refresh Device Information	Wipe / Corpo	orate Lock	Delete Device	Öwner		
Device Name	Summary	Installed Apps	Associated	Profiles	Packages Ins	stallation State	Groups		
Delete mac	:OS Package Installat	tion State		STATE				CREATED	
	DO Client - Security	v. 2.4.1.614		Packag	ge Successfully	nstalled		2018/10/31 12:15:0	6 PM

MSI Installation State - Table of Column Descriptions							
Column Heading Description							
Name	The label of the installation package.						
State	Whether the installation was successful or not						
Created	The date and time at which the installation command was sent.						

- Click any column header to sort items in ascending/descending order of the entries in that column.
- Select an entry and click 'Delete mac OS Package Installation State' to remove it from the list.

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Devi	ce Name	Summary	Installed Apps	Associated Profiles	Packages In	stallation State	
	Delete macOS I	Package Installat	tion State				
	NAME			STATE		CREATED	
	COMODO	Client - Security	v. 2.4.1.614	Package Successfi	ully Installed	2018/10/	31 12
	Delete	macOS pa	ckage states			×	
	Do you re	eally want to c	lelete macOS pack	age state(s)?			
					Confirm	Cancel	

• Click 'Confirm' to remove the entry from the list

Note - the entry will be removed from the list but the package will not be uninstalled from the device.

More reading - see Remotely Install Packages on Mac OS Devices.

5.2.3.6. View and Manage Device Group Memberships

• Device groups let you deploy policies to multiple devices at once.

To manage device group membership

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device added to EM
- · Click the name of a Mac OS device then select 'the 'Groups' tab

	Flying So	quad Devices	Saddle and	Pedals	1	hercule	espopular2	2018/10/31 12:	4
	GROUP	NAME	CUSTOMER	2	# OF DEVICES	CREAT	ED BY	CREATED	
Ad	ld to Group	T Remov	e from Group(s)						
Device	Name	Summary	Installed Apps	Associated	l Profiles	Packages Insta	allation State	Groups	
			Packages	Information					
Manage P	Profiles	Remote Control	Install macOS	Refresh Device	Wipe / Corpor	ate Lock	Delete Device	Owner	
Ē	1		6	S	0	<u> </u>	Ξœ	<u>\$</u>	
Owner:	Id's Ma Herald	1C							

- The interface lists all groups of which the device is a member.
- Group profiles will also be applied to the endpoint.

See **Assign Configuration Profiles to a Device Group**, for more details about applying configuration profiles to device groups.

	Device Groups - Table of Column Descriptions								
Column Heading	Description								
Group	 The group label. Click the group name to view and edit group details. See Edit a Device Group for more details. 								
Customer	The name of the company for which the group was created.								
Number of Devices	 The total count of devices in the group. Click the number to view and edit group details. See Edit a Device Group for more details. 								
Created By	 Name of the admin who created the group. Click the name to view the admin's details. See View the Details of a User for more details. 								
Created	The date and time at which the group was created.								

To add the device to a new group

- Click 'Add to Group'
- Select the group to which you want to add the device:

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Devi	ce Name	Summary	Installed Apps	Associated Profiles	Packages Installation Stat	e Gr
	Add to Group	Remove	from Group(s)			
	GROUP N	AME	CUSTOMER	# OF DEVIC	ES CREATED BY	CREA
	Flying Squ	ad Devices	Saddle and Peda	ls 1	herculespopular2	
		Device to (Group		;	×
	To a	dd groups, sta	rt typing their names	5		
					Add	

- Start entering the name of the group to which the device has to be associated in the 'Choose Group(s)' field and choose the group from the options.
- Repeat the process to add the device to other groups.
- Click 'Add'.

The device will be added to the group.

To remove the device from a group

• Select the group from the list and click 'Remove from Group'.

Device	Name Summary	Installed Apps Ass	ociated Profiles Pa	ackages Installation State	Grou
A	dd to Group	from Group(s)			
	GROUP NAME	CUSTOMER	# OF DEVICES	CREATED BY	CREAT
	Flying Squad Devices	Saddle and Pedals	1	herculespopular2	201 8/
	Sales Team Devices	Saddle and Pedals	1	herculespopular2	201 8/0
	Remove fro	m Groups			×
	Do you really w	ant to remove this device	from device group(s)	?	
				Confirm Canc	el



• Click 'Confirm' to remove the device from the selected groups.

Note - Any group profiles will also be removed from the device.

5.2.4. Manage Linux Devices

The details page of a Linux device shows OS and software data, security info from Comodo Client Security and other information. The screen also lets you manage endpoint profiles, remotely install Linux packages and configure group membership.

Note: If you haven't done so already, you should first enroll users then enroll their devices.

To view and manage a Linux device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group in the middle column to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of any Linux device to open its 'Device Details' pane:

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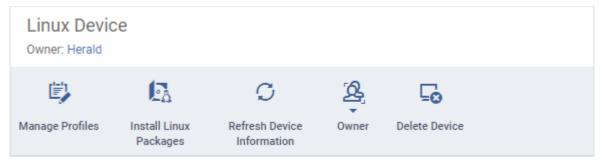
Endpoint Manager		Device List	License Options 🔁 🗿
DASHBOARD	>		
J. DEVICES	~	© Search group name	Group Management Device Management
Device List		면 Show all	
Bulk Installation Package		🔹 🖨 Default Customer	Enroll Device Remote Control Remote Tools Run Procedu
S USERS	>	💿 🖶 Fork Springs Regional Tr	BETA
CONFIGURATION TEMPLATES	>	+ 🖶 frontfork	Search for devices
APPLICATION STORE	>	🔸 🖨 Saddle and Pedals	OS NAME ACTIVE COMPON
APPLICATIONS	>		
SECURITY SUB-SYSTEMS	5		🗌 🏺 🛛 samsun_ 🗛 🗛
Ģ⊱ SETTINGS	>		
			DESKTO 🤹 AG AV EVILO
e) (3		୦ ହି କ	
Manage Profiles Install Linux Packages Device Name Summary	Refre	sh Device Owner Delete Device rmation	s Installation State Groups
Manage Profiles Install Linux Packages	Refre: Info	sh Device Owner Delete Device rmation	s Installation State Groups
Manage Profiles Install Linux Packages Device Name Summary Device Summary Custom device name Name	Refre: Info Netw	sh Device Owner Delete Device rmation Packages Norks Associated Profiles Packages OS Su Vice OS VirtualBox OS nam	Immary Linux ne Ubuntu
Manage Profiles Install Linux Packages Device Name Summary Device Summary Custom device name Name Logged in user	Refre Info Netw Linux Dev comodo- comodo	sh Device Owner Delete Device rmation Packages Porks Associated Profiles Packages OS Su Vice OS	Immary Linux ne Ubuntu
Manage Profiles Install Linux Packages Device Name Summary Device Summary Custom device name Name Logged in user Formfactor Formfactor	Refree Info Netw Linux Der comodo- comodo- pC	sh Device Owner Delete Device rmation Packages Norks Associated Profiles Packages OS Su Vice OS VirtualBox OS nam	Immary Linux ne Ubuntu
Manage Profiles Install Linux Packages Device Name Summary Device Summary Custom device name Name Logged in user	Refree Info Netw Linux Dev comodo- comodo- PC 2018/10/	sh Device Owner Delete Device mation Packages Norks Associated Profiles Packages OS Su Vice OS VirtualBox OS nam	Immary Linux ne Ubuntu
Manage Profiles Install Linux Packages Device Name Summary Device Summary Custom device name Name Logged in user Formfactor Last connection	Refree Info Netw Linux Dev comodo- comodo- PC 2018/10/ 2018/10/	sh Device Owner Delete Device rorks Associated Profiles Packages Vice OS Su VirtualBox OS nam V29 09:33:04 AM /24 04:38:21 PM 9-0cfc-4073-be1a-	Immary Linux ne Ubuntu
Manage Profiles Install Linux Packages Device Name Summary Custom device name Name Logged in user Formfactor Last connection Registered	Refre Info Netw Linux Dev comodo comodo PC 2018/10/ 2018/10/ 7b85c4f9 101e92e	sh Device Owner Delete Device rorks Associated Profiles Packages Vice OS Su VirtualBox OS nam V29 09:33:04 AM /24 04:38:21 PM 9-0cfc-4073-be1a-	Immary Linux ne Ubuntu
Manage Profiles Install Linux Packages Device Name Summary Custom device name Name Logged in user Formfactor Last connection Registered UUID Communication	Refree Info Netw Linux Dev comodo- comodo- PC 2018/10/ 2018/10/ 2018/10/ 7b85c4f9 101e92e 6.22.166	sh Device Owner Delete Device mation OS Su vice OS Su VirtualBox OS nam V29 09:33:04 AM /24 04:38:21 PM 9-Octc-4073-be1a- 15f1d 43.18090 Core(TM) i3-6100 CPU @	Immary Linux ne Ubuntu

Device details are shown in six tabs:

- Device Name The device label. You can change this as per your preferences. See View and Edit Linux Device Name for more details.
- **Summary** General details of the device, including device information, OS details and security configuration. See **View Summary Information of Linux Device** for more details.
- Networks Information about the network to which the device is connected, MAC address, IP address, and more. See View Network Information of a Linux Device for more details.

- Associated Profiles Profiles deployed on the device. See View and Manage Profiles Associated with a Linux Device for more details.
- Packages Installation State Linux packages that have been installed on the device via Endpoint Manager. See View Linux Packages Installed on a Device through Endpoint Manager for more details.
- **Groups** Device groups to which the device belongs. You can manage group membership from here. See **View and Manage Device Group Memberships** for more details

Administrators can remotely perform various tasks on the device using the options at the top of the interface.



- Manage Profiles Add or remove device profiles. See Assign Configuration Profiles to Selected Devices for more details.
- Install Linux Packages Remotely install Comodo Client Security for Linux package. See Remotely Install Packages on Linux Devices for more details.
- Refresh Information Contacts the device and updates displayed information. See Update Device
 Information for more details.
- **Owner** Change the user with whom the device is associated. You can also change the type of device to corporate or personal. See **Change a Device's Owner** and **Change the Ownership Status of a Device** for more details.
- Delete Device Removes the device from Endpoint Manager. See Remove a Device for more details.

5.2.4.1. View and Edit Linux Device Name

- Enrolled devices are listed by the name assigned to them by their owner.
- If no name was assigned then the actual device name or model number is used.
- Admins can change the device name as required. Name changes apply only in Endpoint Manager. The name will not change on the endpoint itself.
- 'Allow Auto Rename of Device Custom Name' If enabled, the custom name will be replaced by the device name/model number during the next sync. Disable this option if you want to keep the custom name.

To change a device name

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' on the left to view every device enrolled to EM
- Click on any Linux device then select the 'Device Name' tab

Linux Devic Owner: Herald	e					
	Ea	S	<u>&</u>	Ē		
Manage Profiles	Install Linux Packages	Refresh Device Information	Owner	Delete Devie	ce	
Device Name	Summary	Networks	Associated	Profiles	Packages Installation State	Groups
Custom device Linux Device Allow auto ren Enabled	e name name of device cu	istom name			P	Edit

- Custom device name The current name of the device.
- Allow auto rename of device custom name Enabled The device's real name will automatically replace the custom name in this list during the next sync. Disabled the custom name is kept in EM
- Click the 'Edit' button at the right to change the name of the device.

Device Name	Summary	Networks	Associated Profiles	Packages Installation State	Group
	Cumury		, locolated i folico	i denageo niotanation etate	oroup
					Edit
					Eait
Custom devic	e name				
Linux Device					
Allow auto rer	name of device cu	ustom name			_
evice Name	Summary	Networks	Associated Profiles	Packages Installation State	Group
				😪 Cancel 📳	Save
			K		
Custom devic	e name				

- Enter the new name in the 'Custom Device Name' field
- Make sure the 'Allow Auto Rename of Device Custom Name' is disabled to retain the custom name



in the list. If this is enabled, the custom name will be automatically replaced with the original device's name or model number during the next sync with the communication client on the device.

· Click 'Save' for your changes to take effect.

The device will be listed with its new name.

• To restore the name of the device as it was at the time of enrollment, click 'Edit' from the 'Device Name' interface, click 'Restore' at the right of the 'Custom device name field' and click 'Save'.

5.2.4.2. Summary Information of Linux Device

The 'Summary' tab contains information about the device, its operating system and Comodo Client Security (CCS) version.

To view the device summary

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device added to EM
- Click on any Linux device then select the 'Summary' tab (if it is not already open).



							1
nux Devic vner: Herald	e						
		C	<u>\$</u>	۲			
age Profiles	Install Linux Packages	Refresh Device	Owner	Delete De	vice		
	1 dekuges	inomatori					
evice Name	Summary	Networks	Associated	Profiles	Pa	ckages Installation S	itate Groups
Device Sur	nma ry				0)S Summary	
Custom devi	ce name	Linux Device			0)S	Linux
Name		comodo-VirtualBo	x		c	S name	Ubuntu
Logged in us	ser	comodo			C	S version	16.04.5 LTS (Xenial Xerus)
Formfactor		PC					
Last connec	tion	2018/10/29 09:33	:04 AM				
Registered		2018/10/24 04:38	:21 PM				
UUID		7b85c4f9-0cfc-40 101e92e15f1d	73-be1a-				
Communicat Client versio		6.22.16643.18090					
Processor		Intel(R) Core(TM) 3.70GHz	i3-6100 CPU @				
Serial numb	er	0					
System mod	el	VirtualBox					
System manufacture	er	innotek GmbH					
Ownership t	уре	Not specified					
Security Pr	oducts info			r.			
Name		N/A					
Version		N/A					
Components	5	Antivirus		on			
Virus DB ver	sion	29859					

- **Device Summary** Device name, user, type, model, last sync time with the client, device ownership status and more.
- **OS Summary** Details about the operating system of the device, including version and build.
- Security Products Info Details about Comodo Client Security (CCS) on the device, including version number, database version and update status.

5.2.4.3. View Network Information of a Linux Device

- The 'Networks' tab shows information about the networks to which the device is connected. This includes the MAC address of the device and more.
- Each network is shown in a separate box

To view a device's network details

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu



- Select a company or a group to view just their devices Or
- Select 'Show all' to view every device added to EM
- Click on any Linux device then select the 'Networks' tab

Joe Linux Owner: Herald						
		Q	<u>\$</u>	⊑ <mark>o</mark>		
Manage Profiles	Install Linux Packages	Refresh Device Information	Owner	Delete Devi	ice	
Device Name	Summary	Networks	Associated	Profiles	Packages Installation State	Groups
Device Net	work Nº1					
Name	enpOs	:3				
Local addres	s 192.0	.2.103				
Subnet	255.2	55.255.0				
DNS 1	127.0	.1.1				
DNS 2						
MAC Address	s 08:00	:27:eb:f0:fd				
Connection Speed	1 Gbit	:/s				

5.2.4.4. View and Manage Profiles Associated with a Linux Device

The 'Associated Profiles' tab lists all configuration profiles currently active on an endpoint. A profile may have been applied to a device because:

- It is a default profile
- It was specifically applied to the device
- It was specifically applied to the user of the device
- · Because the device belongs to a device group
- Because the user of the device belongs to a user group

See Profiles for Linux Devices for more details on configuration profiles

To view and manage profiles associated with a device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click on any Linux device then select the 'Associated Profiles' tab

Joe Linux Owner: Herald						
E,	Ea	S	2	Ē		
Manage Profiles	Install Linux Packages	Refresh Device Information	Owner	Delete De	vice	
Device Name	Summary	Networks	Associated	Profiles	Packages Installation State	Groups
NAME	so	OURCE ASSOCIATE	D	I	NFORMATION ABOUT ASSOCIATIO	N
For Joe	Ov	vner		Ş	Successfully processed	
New Linux	De	evice Group: First Li	nux Group	F	Pending	
Second Linux Pro	ofile De	evice		Ş	Successfully processed	
First Linux Profile	e De	evice		S	Successfully processed	

	Associated Profiles - Column Descriptions
Column Heading	Description
Name	 The profile label. Click the name of a profile to open the 'Edit Profile' interface. See Edit Configuration Profiles for more details.
Source Associated	 How the profile was applied to the device. Profiles can be applied to a device in different ways: Profile was directly applied to a device. See View and Manage Profiles Associated with a Device for more details Profile was applied to a user. These profiles are in-turn deployed to all devices belonging to the user. See Assign Configuration Profiles to a Users' Devices for more details Profile was applied to a user group. These profiles are deployed to all devices owned by group members. See Assign Configuration Profile to a User Group for more details Profile was applied to a device group. These profiles are deployed to all devices in the group. See Assign Configuration Profile to a Device Group for more details Click the source to view and manage profiles associated with that source.
Information about Association	Whether the profile has been successfully applied to the device or is pending.

• Click the 'Name' column header to sort the items in the alphabetical order of the names of the items

Click the 'Manage Profiles' button to add or remove profiles. See View and Manage Profiles Associated with a **Device** for a full overview of this interface.

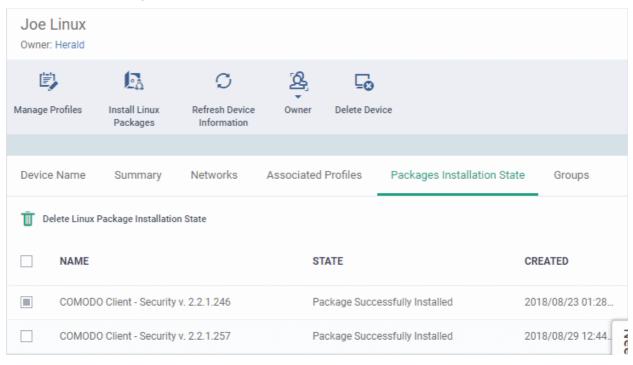


5.2.4.5. View Linux Packages Installed on a Device through Endpoint Manager

• Endpoint Manager lets you remotely install packages on managed Linux endpoints.

To view Linux packages installed on a device

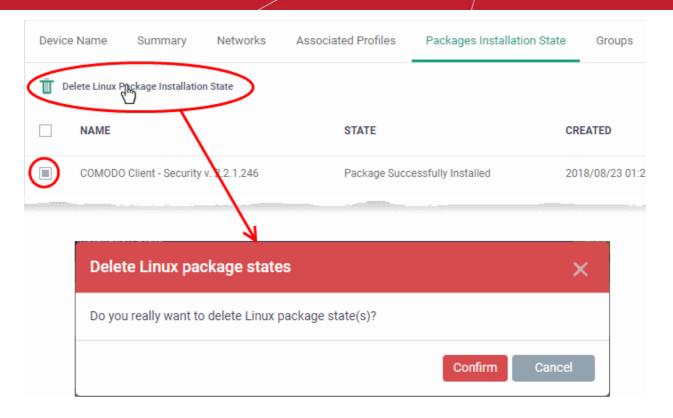
- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device added to EM
- Click on any Linux device
- Click the 'Packages Installation State' tab:



Package Installation State - Table of Column Descriptions			
Column Heading	Description		
Name	The URL/filename of the package.		
State	Whether the installation was successful or not		
Created	The date and time at which the installation command was sent.		

- Click any column header to sort items in ascending/descending order of the entries in that column.
- Select an entry and click 'Delete Linux Package Installation State' to remove it from the list.

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• Click 'Confirm' to remove the file from the list

Note - the entry will be removed from the list but the package will not be uninstalled from the device.

More reading - see **Remotely Install Packages on Linux Devices**.

5.2.4.6. View and Manage Device Group Memberships

• Device groups let you deploy policies to multiple devices at once.

To manage device group membership

- Click 'Devices' > 'Device List'
- · Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of a Linux device then select the 'Groups' tab:

Joe Linux Owner: Herald							
Ē,	F A	C	2	Ēœ			
Manage Profiles	Install Linux Packages	Refresh Device Information	Owner	Delete Device			
Device Name	Summary	Networks 4	Associated	Profiles Packages Ins	stallation State	Groups	
Add to Group	Remove	from Group(s)					
Add to Group		from Group(s)		# OF DEVICES	CREATED BY		CREATED
GROUP			Pedals	# OF DEVICES	CREATED BY	ır22@	CREATED 2018/09/05 02:34:4

- The interface lists all groups of which the device is a member.
- Group profiles are applied to all endpoints in the group.
 - See Assign Configuration Profiles to a Device Group if you want to learn more about this process.

	Device Groups - Table of Column Descriptions				
Column Heading	Description				
Group	 The group label. Click the group name to view and edit group details. See Edit a Device Group for more details. 				
Customer	The name of the company for which the group was created.				
Number of Devices	 The total count of devices in the group. Click the number to view and edit group details. See Edit a Device Group for more details. 				
Created By	 Name of the admin who created the group. Click the name to view the admin's details. See View the Details of a User for more details. 				
Created	The date and time at which the group was created.				

To add a device to a new group

- Click the 'Add to Group' button
- Select the group to which you want to add the device:

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-	Add to Group	Remove	from Group(s)			
]	GROUP NAM	ME	COMPAI	٩Y	# OF DEVICES	CREATED BY
]	First Linux (Group	Saddle a	nd Pedals	2	herculespopular22(
		ice to Grou	un			~
		ice to Grou	цр			×
	Choose group	p(s)	цр ping their name	°S		×

- Start typing the name of the group to see a list of suggestions.
- Repeat the process to add the device to other groups.
- Click the 'Add' button.

The device will be added to the group.

To remove a device from a group

- Select the groups from which you want to remove the device
- Click the 'Remove from Group(s)' button:

Device	e Name Summary	Networks	Associated Pr	ofiles Packages	Installation State	Groups
A	dd to Group	e from Group(s)				
	GROUP NAME	СОМРА	NY	# OF DEVICES	CREATED E	3Y
	First Linux Group	Saddle	and Pedals	2	herculespo	pular22@
	Sales Team Devices	Saddle	and Pedals	10	herculespo	pular22@
	Remove from Gr	oups			×	
	Do you really want to	remove this dev	vice from device	group(s)?		
				Confi	m Cancel	



Click 'Confirm' to remove the device from the selected groups.

Note - Any group profiles will also be removed from the device.

5.2.5. Manage Android/iOS Devices

- The device details page lets you view hardware/software details, manage profiles and manage installed apps.
- You can also send messages to or sound an alarm on the device, remotely lock the device, track device location and more.

Note: If you haven't done so already, you should first enroll users then enroll their devices.

To view and manage an individual device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of any Android or iOS device to open the 'Device Details' pane:

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					1	
Endpoint Manager		■ Device List				
DASHBOARD	>					
DEVICES	~	© Search group nam	e	Crout	Management	Device Management
Device List		😕 Show all		F		20
Bulk Installation Package		💿 🖶 Default Custome	r		Remote Control Re	emote Tools Run Procedure
A USERS	>	🕂 🖨 Fork Springs Reg	ional Tr	_		BETA
	->	+ 🖶 frontfork		€ Search	for devices	
	>	+ 🖨 Saddle and Peda	ls	0S	NAME	ACTIVE COM
	>				\sim	
SECURITY SUB-SYSTEMS	>				(<u>samsung S</u>	<u>M</u> AG AV
SETTINGS	\rightarrow			Δ	Linux Devic	e AG AV
					DESKTOP-E)8 🧃 🗛 🗛
					O_DECKTODJ	
samsung_SM-G600 Owner: Dyanora)FY	2				
Ē) 🔹	Σ	z ç	0	œþ	Ē	2
Manage Profiles Siren	Send M	lessage Refresh Device Information	Wipe / Corpora	ate Passcode	Delete Device	Owner
Device Name Summa	iry	Installed Apps Asso	ciated Profile:	s Sneak Pe	eek Last K	(nown Location
Device Summary			OS S	Summary		
Custom device	samsu	ng_SM-G600FY	os		Android	
name			OS V	ersion	6.0.1	
Name		ng_SM-G600FY	Build	version	G600FYDD	J1BRD2
Device type	Smartp		Total	RAM	1.85 GB	
Last connection		10/29 11:17:17 AM	Avail	able RAM	940.35 MB	
Registered		10/24 04:58:32 PM	Used	RAM	956.55 MB	
UUID		9fee246b64e		able internal	6.71 GB	
Model	SM-G6		stora			
IMEI			Total	internal	11.82 GB	

The device details screen has seven tabs:

- Device Name Device label. Click the 'Edit' button if you wish to change the device name. See View and Edit Device Name for more details.
- **Summary** General information about the device. Includes basic device information, operating system details, network details and security configuration. See **View Summary Information** for more details.
- **Installed apps** Details of applications installed on the device. You can remotely block/release apps or uninstall applications. See **Manage Installed Applications** for more details.

Device tasks are shown along the top of the interface:

- Associated Profiles Profiles which have been deployed to the device. You can add new profiles or remove existing profiles on the device. See View and Manage Profiles Associated with a Device for more details.
- Sneak Peek Pictures captured by the 'Sneak Peek' feature of Endpoint Manager. The 'Sneak Peek' feature photographs the person holding the device if they enter the wrong passcode too many times. You must enable sneak peek on a profile to use the feature. See View Sneak Peek Pictures to Locate Lost Devices for more details.
- Last Known Location The map location of the device when it last connected to Endpoint Manager. See View the Location of the Device for more details.
- **Groups** Shows all groups of which the Android/iOS device is a member. You can manage group membership from this tab. See **View and Manage Device Group Memberships** for more details.

samsung_SM-G600FY Owner: Dyanora 憉 ø 2 œb Ġ Passcode Manage Profiles Siren Send Message Refresh Device Wipe / Corporate **Delete Device** Owner Information

- Manage Profiles Add or remove device profiles. See Assign Configuration Profiles to Selected Devices for more details.
- Siren Sound an alarm on the device to locate it. See Generate Alarm on Devices for more details.
- Send Message Send a text message to the user. See Send Text Message to Devices for more details
- **Refresh Information** Obtain updated details from the device. See **Update Device Information** for more details.
- Wipe / Corporate Delete all data stored in the device if it is lost or stolen. See Wipe Data from Devices for more details.
- Passcode Create a new screen lock passcode for selected devices. You can also remotely lock or unlock the device. See Set / Reset Screen Lock Password for Selected Devices and Lock / Unlock Selected Devices for more details.
- Delete Device Remove the device from Endpoint Manager. See Remove a Device for more details.
- **Owner** Change the user with whom the device is associated. You can also change the type of device to corporate or personal. See **Change a Device's Owner** and **Change the Ownership Status of a Device** for more details.

5.2.5.1. View and Edit Device Name

- Enrolled devices are listed by the name assigned to them by their owner.
- If no name was assigned then the actual device name or model number is used.
- Admins can change the device name according to their preferences. Name changes apply only in Endpoint Manager. The name will not change on the device itself.
- 'Allow Auto Rename of Device Custom Name' If enabled, the custom name will be replaced automatically by the device name/model number during the next sync..

To change the device's name

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices

Or

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- Select 'Show all' on the left to view every device enrolled to EM
- Click on any Android or iOS device then select the 'Device Name' tab

samsung_S Owner: Dyanora	SM-G60	0FY						
Manage Profiles	Siren	Send Message	C Refresh Device	O Wipe / Corporate	Passcode	Delete Device	Owner	
			Information					
Device Name	Summ	ary Installed	d Apps Asso	ociated Profiles	Sneak Pee	ek Last Kn	nown Location	Groups
							7	Edit
Custom devic samsung_SM	-G600FY	vice custom name						
Enabled	ianie of de	vice custom name						

- Custom device name The current name of the device.
- Allow auto rename of device custom name Indicates whether the device's name will automatically
 replace the custom name in the list during the next sync with communication client.
- To change the name of the device, click the 'Edit' button at the right.

Device Name	Summary	Installed Apps	Associated Profiles	Sneak Peek	Last Known Locati 🕨
					Edit
Custom device samsung_SM- Allow auto rep		stom.name			
Outer decis	K			😮 Can	cel 🖺 Save
Custom device samsung_	SM-G600FY	Restor	e		
Allow aut	to rename of d	evice custom name	5		

- Enter the new name in the 'Custom Device Name' field
- Make sure the 'Allow Auto Rename of Device Custom Name' is disabled to retain the custom name in the list. If this is enabled, the custom name will be automatically replaced with the device's name or model number during the next sync with the communication client on the device.
- Click 'Save' for your changes to take effect.



The device will be listed with its new name.

• To restore the name of the device as it was at the time of enrollment, click 'Edit' from the 'Device Name' interface, click 'Restore' at the right and click 'Save'.

5.2.5.2. View Summary Information

The 'Summary' tab shows general information about the device, its operating system, network and security status.

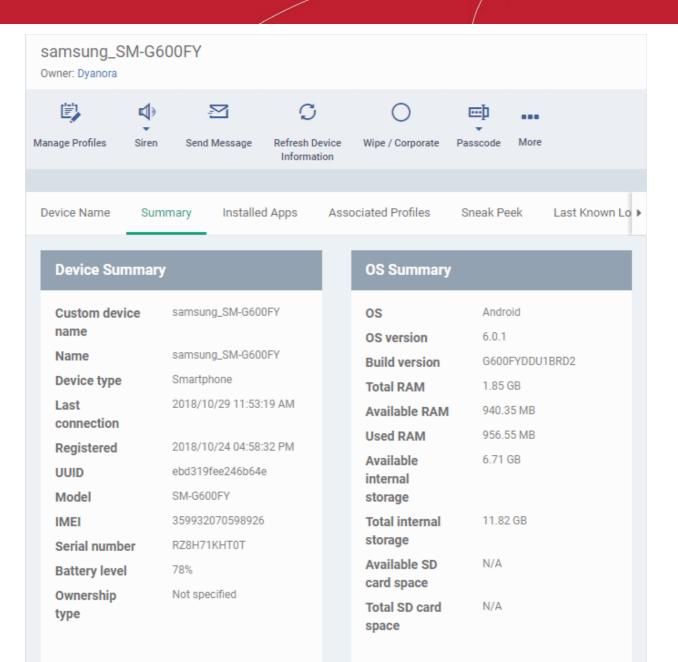
To view device information summary

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or a group to view just their devices

Or

- Select 'Show all' to view every device added to EM
- Click on any Android or iOS device then open the 'Summary' tab (if it is not already open).

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Network Summary

Phone number	N/A
Current network	40440
Current network name	airtel (airtel)
Bluetooth MAC	E4:5D:75:84:02:12
Wi-Fi MAC	E4:5D:75:84:02:13
Wi-Fi SSID	"Airnet"
Roaming	No
Cellular	

Security Summary

Virus DB version	73
Signs DB version	N/A
Is unknown source enabled	Yes
Current application version	6.13.2.14
KNOX standard	5.6



- Device Summary Provides device details such as brand, model, International Mobile Equipment Identification (IMEI) number, last connection time, device battery level (at last connection time) and Ownership type of the device.
- **OS Summary** Provides details about the device's Operating System, including version number, memory usage and available internal and external storage space.
- Network Summary Provides details about the mobile and WiFi networks to which the device is connected, including the MAC addresses of the device for connection through Bluetooth and WiFi.
- Security Summary Provides details about important security settings of the device. For Android devices, details from Comodo Mobile Security (CMS) like Virus Signature Database version and update status are displayed.

5.2.5.3. Manage Installed Applications

- The 'Installed Apps' tab shows all applications installed on a device with their package names and version numbers.
- You can block, unblock or remove apps as required.
- You can also see which other devices have the same applications installed.

To manage installed apps

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices
 Or
 - Select 'Show all' to view every device added to EM
- Click on any Android or iOS device then open the 'Installed Apps' tab

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Manage	Profiles S	Siren S	end Message	Refresh Device Information	Wipe / Corporate	Passcode	Delete Device	Owner	
Device	e Name	Summary	Installed	d Apps Asso	ociated Profiles	Sneak Pe	ek Last Kr	nown Location	
В	ock 💽 l	Unblock	<u> </u> Uninstall	💭 Update A	pplication List			Ø	Y
	NAME		PACKAGE A			VERSIO	N VE	ERDICT	
	NAME Test your Al	ntivirus		erdog1987.com.pr	ruebatuantivirus	VERSIO		ERDICT acklisted (globa	I)
		ntivirus			ruebatuantivirus		BI		I)
	Test your A		avtester.und com.agileso			1.0	BI	acklisted (globa	1)
	Test your Al AndroZip	t	avtester.und com.agileso com.cisco.a	ftresource		1.0	Bi Al 43 Al	acklisted (globa lowed	1)
	Test your An AndroZip AnyConnect	t iorer	avtester.und com.agileso com.cisco.a com.estrong	ftresource nyconnect.vpn.and	droid.avf	1.0 4.7.4 4.6.0014	BI: Al 13 Al 14 Al	acklisted (globa lowed lowed	0

Installed Apps - Column Descriptions				
Column Heading	Description			
Name	 The label of the application. Click the application name to view all devices which have this app installed. This is useful if you want to apply an action to all devices which have a certain app installed. 			
Package	The application ID on the vendor app store. For example, 'cn.wps.moffice_i18n' can be found at https://play.google.com/store/apps/details?id=cn.wps.moffice_i18n.			
Version	The version number of the application.			
Verdict	Whether the application is allowed, blocked or blacklisted by EM.			

• The list of apps on a device is updated in Endpoint Manager every 24 hrs. To refresh the list immediately, click 'Update Application List'.

Sorting and Filtering Options

- Click any column header to sort the items in alphabetical order.
- Click the funnel icon T at the right to open the filter interface:

k	Last Known Location	Groups
	K	
	Name	
	Package	
	Version	
	Verdict	
	Allowed	
	Blocked / Blacklist	ted

• You can filter/search specific items based on app name, package or version. To start, enter the search criteria in full or part in the respective search field and click 'Apply'

es	Sneak Peek L		ast Known Location	Groups	
.ist					T
١	VERDICT 0 filters Apply		Name		
0				subway	
L				Package	
	Allowed				

 Use the check-boxes under 'Verdict' if you wish to see only allowed or only blocked applications in the search results.

You can use any combination of filters to search for specific devices.

- To display all items again, clear the search box(es) and click 'Apply'.
- EM returns 20 results per page. Use the 'Results per page' drop-down to increase the number of results displayed up to a maximum of 200.

Block Unwanted Apps

You can remotely block apps that are identified as malicious, suspicious or junk. The app is not uninstalled from the device but not allowed to run. Blocked apps can be released at a later date and allowed to run.

To block selected apps



• Choose the app(s) that you wish to block and simply click the 'Block' button.

The verdict of the app(s) will change to 'Blocked' and they will not be allowed to run on the device.

To release blocked apps

• Select the blocked app(s) and click 'Unblock'.

The verdict of the app(s) will change to 'Allowed' and they will be allowed to run on the device.

Device	e Name Summary	Installed Apps Associated Profiles	Sneak Peek	Last Known Location
(BI	lock 🚫 Unblock	📋 Uninstall 🧭 Update Application List		O T
	NAME	PACKAGE -	VERSION	VERDICT
	Test your Antivirus	avtester.underdog1987.com.pruebatuantivirus	1.0	Blacklisted (global)
	AndroZip	com.agilesoftresource	4.7.4	Allowed
	AnyConnect	com.cisco.anyconnect.vpn.android.avf	4.6.00143	Allowed
	ES File Explorer	com.estrongs.android.pop	4.1.7.1.14	Allowed
	Authenticator	com.google.android.apps.authenticator2	5.00	Allowed

Uninstall applications

•

Select the app(s) and click 'Uninstall'.

Device	e Name Summ	nary Installed Apps	Associated Profiles	Sneak Peek	Last Known Locate
В	ock 🚫 Unblock	Uninstall	Jpdate Application List		Ø
	NAME	PACHAGE -		VERSION	VERDICT
	Test your Antivirus	avtester.underdog1987	.com.pruebatuantivirus	1.0	Blacklisted (gb.
	AndroZip	com.agilesoftresource		4.7.4	Allowed
	Application	n uninstall			×
	Are you sure y	ou want to uninstall app?			
				Confirm	Cancel

• Click 'Confirm' to uninstall the selected app(s) from the device.



5.2.5.4. View and Manage Profiles Associated with a Device

The 'Associated Profiles' tab displays a list of all currently active configuration profiles on an Android/iOS device. A profile may have been applied to a device because:

- It is a default profile
- It was specifically applied to the device
- It was specifically applied to the user
- The device belongs to one or more device groups and inherited profiles from the group
- The user belongs to one or more user groups and inherited profiles from the group

See 'Profiles for Android Devices', 'Profiles for iOS Devices', 'Viewing and Managing Profiles' and 'Managing Default Profiles', for more details on profiles and default profiles.

To view and manage associated profiles

- Click 'Devices' > 'Device List'
- · Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- · Click on any Android or iOS device then open the 'Associated Profiles' tab

Dyanora Sa Owner: Dyanora	-							
E Manage Profiles	Siren	- 🖸 Send Message	C Refresh Device Information	O Wipe / Corporate	Passcode	Delete Device	Quer Conner	
Device Name	Summ	nary Installe	d Apps Asso	ociated Profiles	Sneak Pe	ek Last Kr	nown Location	Group: 🕨
NAME		s	OURCE ASSOCIAT	ΓED	INFO	RMATION ABOU	T ASSOCIATION	
Samsung Phone	s	C	evice Group: Sam	sung Phones	Succ	essfully processe	ed	
Android Devices in Sales Dept.		ent	Owner User Group: Marketing Staff		Successfully processed			
Finance Dept Android Devices		ces D	levice		Succ	essfully processe	ed	

Associated Profiles - Column Descriptions					
Column Heading Description					
Name	 The profile label. Click the name of a profile to open the 'Edit Profile' interface. See Edit Configuration Profiles for more details. 				
Source Associated	 The channel through which the profile was applied to the device. Configuration profiles can be applied to a device in different ways: Profiles can be directly applied to the device. See Assign Configuration 				

4	
	Profiles to Selected Devices for more details.
	 Profiles applied to a user are deployed to all devices belonging to them. See Assign Configuration Profiles to User Devices for more details.
	 Profiles applied to a user group are deployed to all devices owned by group members. See Assign Configuration Profiles to a User Group for more details.
	 Profiles applied to a device group are deployed to all member devices in the group. See Assign Configuration Profiles to a Device Group for more details.
	Click a source to open the respective details interface.
Information about Association	The status of profile application to the device.

Add or Remove Profiles

Click 'Manage Profiles' at the top to add or remove profiles. See **Assign Configuration Profiles to Selected Devices** for more details.

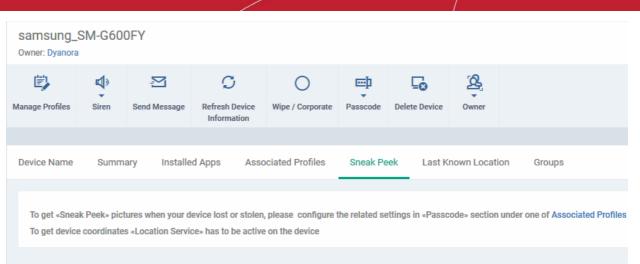
5.2.5.5. View Sneak Peek Pictures to Locate Lost Devices

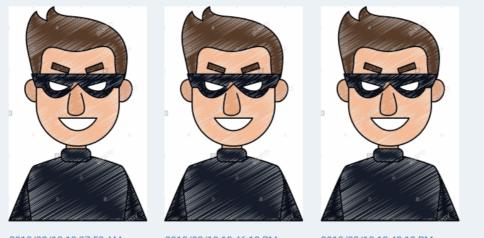
- Click 'Devices' > 'Device List' > click a device name > 'Sneak Peek'
- 'Sneak Peek' takes a photo of the device holder if the wrong password is entered a certain number of times. This helps you to recover mislaid or stolen Android devices.
- The photo is sent to Endpoint Manager along with the location and time it was taken.
- The feature can be enabled on a device profile. You can specify how many incorrect attempts should be allowed.
- If a front camera is not available, a photograph is taken using the rear-facing camera.

To view Sneak Peek pictures

.

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click on the name of any Android device then open the 'Sneak Peek' tab:



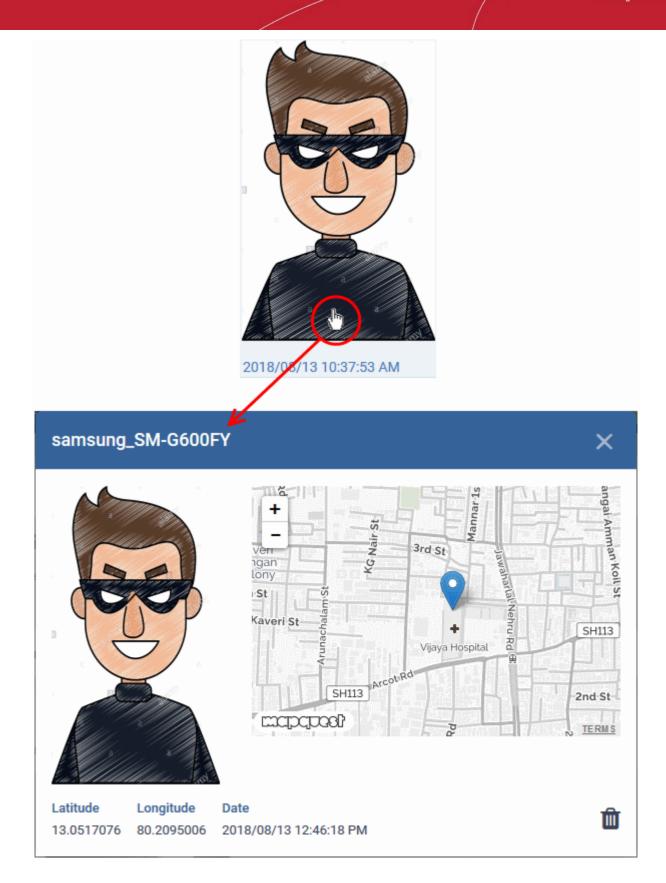


2018/08/13 10:37:53 AM2018/08/13 12:46:18 PM2018/08/13 12:48:18 PMThe page will display all Sneak Peek photographs collected by devices after a series of incorrect passcode entries:

Note: The images shown above are for illustration purposes only. The interface will actually show photographs picked-up by the device camera.

• Click on a picture to view see an enlarged view of the photograph and the location of the device at the time the photo was taken.

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• To remove the sneak peek picture, click the trash can icon at bottom right.



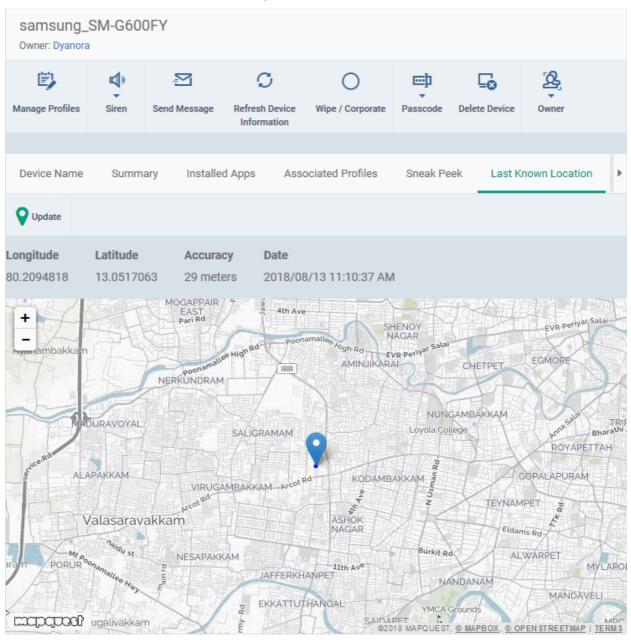
5.2.5.6. View the Location of the Device

- The 'Last Known Location' tab shows from where the device most recently contacted Endpoint Manager.
- You can refresh the location by clicking the 'Update' link.

To view the location

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click on the name of any Android or iOS device then open the 'Last Known Location' tab:

The location of the device will be shown on a map.



The map shows the location of the device the last time it contacted EM.



• To view the current location of the device, click 'Update'.

5.2.5.7. View and Manage Device Group Memberships

- 'Device Details' > 'Groups' shows all groups of which the device is a member.
- You can remove the device from a group or add it to a new group.

To view and manage device group membership

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- · Click the name of any Android or iOS device then select the 'Groups' tab

Dyanora S Owner: Dyanor								
Level 2 Contract Cont	Siren	-Send Message	C Refresh Device Information	O Wipe / Corporate	Passcode	Contraction Delete Device	Owner	
 Vevice Name 	Summa	ary Installed	Apps Asso	ciated Profiles	Sneak Pee	ek Last Kno	own Location	Groups
Add to Gro		Remove from Group		# OF DE1//O	50	ODE ATED DV	005475	
GROU	P NAME	CU	STOMER	# OF DEVIC	ES	CREATED BY	CREATE)
Sams	ung Phones	De	fault Customer	1		herculespopular	22 2018/10/	29 01:58
Flying	Squad Devic	es De	fault Customer	1		herculespopular	22 2018/10/	26 05:18

- The interface lists all groups of which the device is a member.
- Any device group profiles will also be applied to the endpoint.

For more details about applying configuration profiles to device groups, see **Assign Configuration Profiles to a Device Group**.

	Device Groups - Table of Column Descriptions
Column Heading	Description
Group	 The group label. Click the group name to view and edit group details. See Edit a Device Group for more details.
Customer	The name of the company for which the group was created.
Number of Devices	The total count of devices in the group.Click the number to view and edit group details.

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Endpoint Manager - Administrator Guide

	See Edit a Device Group for more details.
Created By	Name of the admin who created the group.
	Click the name to view the admin's details.
	• See View the Details of a User for more details.
Created	The date and time at which the group was created.

To add the device to a new group

Click 'Add to Group'

GROUP NA	ME	COMPANY	NUMBER OF DEVICES	CREATED BY
Running St	aff	Deer Company	3	coyoteewile@yahoo
7 inch tabs		Deer Company	1	coyoteewile@yahoo
Choose grou	ıp(s)			
3		yping their names		

The 'Add Device to Group' dialog will appear.

- In the 'Choose Group(s)' field, start typing the name of the group to which you want to add the device. Select the desired group from the recommendations which appear.
- Repeat the process to add the device to other groups.
- Click 'Add'.

The device will be added to the group.

To remove the device from a group

• Select the group from the list and click 'Remove from Group'.

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Device Name Su	Immary Installed Apps	Associated Profiles	Sneak Peek Last Known Location
Add to Group	Remove from Group		
	CC MPANY	NUMBER OF DEVICES	CREATED BY
Running Staff	Deer Company	3	coyoteewile@yahoo 2.
7 inch tabs	Deer Company	1	coyoteewile@yahoo 2
Results per page: 2			Disple
Remove fro	om Group		Close
Do you really	want to remove this device	from device group?	
		Со	nfirm Cancel

A confirmation dialog will appear.

• Click 'Confirm' to remove the device from the group.

The device will be removed from the group. Any group configuration profiles will also be removed from the device.

5.2.6. View User Information

• User information tells you about the owner of a device. Details include email address and phone number. To view the user information of a device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices
 Or
 - Select 'Show all' to view every device added to EM

The 'Owner' column shows the user of each device.

- Click the user's name to open the 'User Details' pane.
- Click the 'Edit' button to modify user details. For more details on this area, see 'Viewing the Details of a User' section.

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	-			
O Search group name	Loyola			
G All Devices		O		Ø
💿 🖶 ABC TV Services	Exroll Device Manage Profiles Send Password Relete User Recovery Email	Refresh Device	More	T
💿 🖶 Chennai IT Service:				
💽 🖶 Coyote	User Info Associated Devices User Tokens Groups	COMPANY	OWNER	L
💿 🖶 Deer Company		Befault Com	John	2
🕂 🖨 Default Company	Personal 🖻 Edit	Dithers Con_	Loyola	2
+ 🖨 Dithers Constructi	Username *		\bigcirc	
🕘 🖶 Horizon	Loyola	Dithers Con	avantistude	2
💿 🖶 Kanchi Customer	Email * sumeetdomestic@gmail.com	Dithers Con	avantistude	
🕞 🖨 kanchiidly	Phone number 1234567890			
🔹 🖨 Sky walk	Roles Admin_for_purchase_dept_Technician	Dithers Con	Dyanora	2
	Company Dithers Construction Company	Dithers Con	transtar	2
	Change password time Feb 9, 2017, 1:30:56 PM	Deer Compa	Impala	
	Time add Jul 4, 2016, 2:48:29 PM			
	Last login Even 9, 2017, 2:14:03 PM			

5.2.7. Remove a Device

- Click 'Devices' > 'Device List'
- Select target devices
- Click 'Delete Device'.

Warning: Once a device is deleted from EM, all configuration profiles and apps installed by EM will also be removed from the device.

Windows Devices - You can also choose to uninstall the Communication Client (CC) and/or the Comodo Client Security (CCS) software from the devices when removing the device.

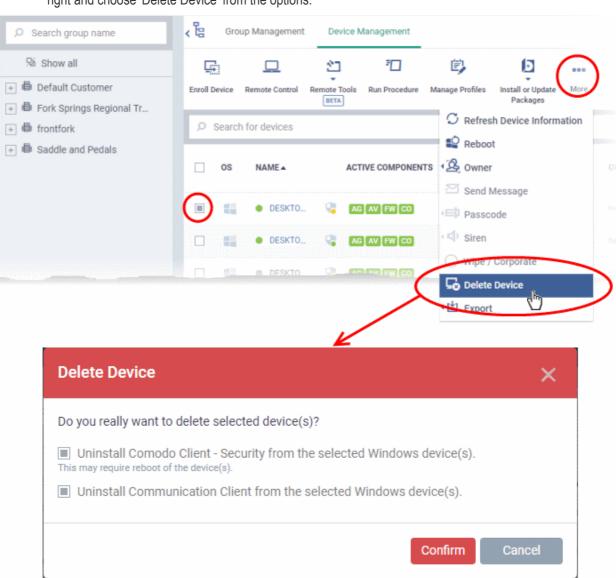
Android, iOS, Mac OS and Linux devices - End users can manually uninstall the communication client and security software or the iOS profile from their devices. Instructions for uninstalling the agent/software are available at the end of this section.

If you wish to reinstate the device in future then a new token should be sent to the user and the device should be re-enrolled as explained in **Enroll User Devices for Management**.

To remove a device from Endpoint Manager

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Select the device(s) to be removed from the list.
- · Click 'Delete Device' from the options at the top. If 'Delete Device' is not available, click 'More' at the top

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right and choose 'Delete Device' from the options.

Alternatively, you can remove a device from its device details interface.

- Click 'Devices' and choose 'Device List'.
- Click on the name of the device to be removed to open the device details interface.

wner: Herald								\frown	
age Profiles Remote Con	rol Remote Tools	E Run Procedure	Install or Upo Packages	date Refres	C In Device mation	Reboot	Export Security Configuration	Delete Device	Owner
evice Name Summa	rv Networks	Associate	d Profiles	Software In	ventory	File List	Exported C	onfigurations	MSI Installation St
evice Name Summa			_						
Device Summary					OS Su	mmary			
		P-D80SVJJ			OS Sui OS	mmary	Wi	ndows	
Device Summary	DESKTO	P-D80SVJJ P-D80SVJJ						ndows crosoft Windows 1	0 Pro (x64)
Device Summary Custom device name	DESKTO				OS	e	Mi		0 Pro (x64)
Device Summary Custom device name Name	DESKTO				OS OS nam	ie ion	Mi	crosoft Windows 1 0.17134	0 Pro (x64)
Device Summary Custom device name Name Logged in user	DESKTO DESKTO john	P-D80SVJJ			OS OS nam OS vers	ie ion pack	Mie 10. N/2	crosoft Windows 1 0.17134	0 Pro (x64)



• Click 'Delete Device' from the options at the top. If 'Delete Device' is not available here, click 'More' at the top right and choose 'Delete Device' from the options.

The 'Delete Device' dialog will appear.

For Windows devices, you can choose to uninstall the communication client and/or the CCS software.

Delete Device	×
Do you really want to delete selected device(s)?	
Uninstall Comodo Client - Security from the selected Windows device(s). This may require reboot of the device(s).	
Uninstall Communication Client from the selected Windows device(s).	
Confirm	Cancel

• Click 'Confirm' to remove the device from Endpoint Manager.

To remove the communication client app from an Android device

- Navigate to 'Settings' > 'Apps' on the Android device
- Select 'Comodo Client'
- Tap the 'Uninstall' button.

The communication client app will be removed from the device.

To remove the EM profile from an iOS device

- Navigate to 'Settings' > 'General' on the iOS device
- Select 'Profile' > 'Comodo Profiles' (certificate and EM)
- Tap the 'Remove' button.

The EM profile will be removed from the device.

To remove the EM profile from Mac OS devices

- Navigate to 'Settings' > 'General' on the Mac OS endpoint.
- Select 'Profile' > 'Comodo Profiles' (certificate and Endpoint Manager)
- Click the 'Remove' button.

The Endpoint Manager profile will be removed from the device.

To remove the communication client from Linux device

- Open the console terminal
- Enter the following command:

\$ sudo systemctl stop itsm && sudo systemctl disable itsm && sudo rm -f /etc/systemd/system/itsm.service && sudo rm -rf /opt/COMODO.

5.2.8. Remote Management of Windows and Mac OS Devices

Click 'Settings' > 'Portal Setup' > 'Extensions Management' to enable Remote Control for your account.

The 'Remote Control' feature lets you remotely access Windows and Mac OS devices to solve issues, install third party software and run system maintenance.

You can takeover Windows and Mac devices using the following tools:

- Remote Control Windows and Mac OS devices. Recommended for most users.
- Comodo Remote Monitoring and Management (RMM) Windows devices only. Legacy tool for Comodo RMM users.

Remote Control

- You first need to install Remote Control (RC) on your admin computer:
 - Click 'Devices' > 'Bulk Installation Package'
 - Select the 'Remote Control by ITarian' tab
 - Choose the operating system of your admin machine
 - Click 'Download'
- Once installed, you can takeover devices:
 - By using the desktop application, or
 - From the EM console: 'Devices' > 'Device List' > 'Device Management' > select a device > click 'Remote Control').
- You can select the location of the server nearest to your location for faster connection
- For an additional security, you can assign custom ports for use by remote connection protocols on the device. These can be configured in the 'Remote Control' component of the profile active on the device. For more details, see Remote Control Settings for Windows devices and Remote control Settings for Mac OS Profile.
- The viewer supports clip-board sharing between your computer and the managed device.
- You can also use key combinations such as 'Ctrl+Alt+Del', 'Alt+F4' and 'Ctrl+C' on the remote machine.
- If the managed endpoint has a multi-monitor setup, the viewer allows you to view individual monitors or all monitors at once.

See the following sections for more help:

- Download and install the Remote Control Viewer
- Use the Desktop Application for Remote Control

Download and install the 'Remote Control' application

Click 'Devices' > 'Bulk Installation Package' > Select the 'Remote Control by ITarian' tab > Choose the
operating system of your admin machine > Click 'Download'.

Tip: Comodo One and ITarian customers - You can also download the remote control application from the Comodo One or ITarian portal.

- Click 'Tools' on the menu bar.
- Locate the 'Remote Control by ITarian' tile.
- Click 'Download'.
- Choose the operating system of your admin machine and click 'Download'.
- See **Download Remote Control Tool** if you need any more help with this.

Use the Desktop Application for Remote Control



- Once installed, the remote control viewer can be launched from your desktop
- You can also take control direct from the EM interface:
 - Click 'Devices' > 'Device List' > 'Device Management' > select a Windows / Mac OS device > Click the 'Remote Control' button.

To access the remote control viewer

• Double click the desktop shortcut 🔁 or the system tray icon 🚨 to open the login screen:

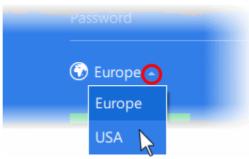
8 Remote Control by ITarian		- 0	×
	ITarian E-mail	Endpoint Manager	
	Password		
	💮 Europe 🚽		
	Sign In	Stay signed in	
	Forgot Password?		

- Comodo One and ITarian customers Click the 'ITarian' tab then login with your Comodo One / ITarian portal username and password
 - If 'Two-Factor Authentication' is enabled for your account, then you have to enter the authentication code generated in the 'Google Authenticator' app on your mobile device. **Click here** to find out how to configure two-factor login settings.



S Remote Control by ITarian		_	×
	Two-Factor Authentic Enter the 6-digit verification code	ation	
	Back	Submit	

- Enter the code and click 'Submit'
 - The region selector allows you to choose the C1 or ITarian hosted service closest to your location. Select the location nearest to you for the best performance / fastest connection.



- Select 'Stay Signed in' if you want the RC application to store your login credentials. The application will not ask for your credentials to login in future.
- Click 'Sign In'
- Stand-alone Endpoint Manager customers Click the 'Endpoint Manager' tab then enter your Endpoint Manager URL and your login credentials. Your EM URL will use the format https://<your company name>.cmdm.comodo.com, where <your company name> is your EM company name.

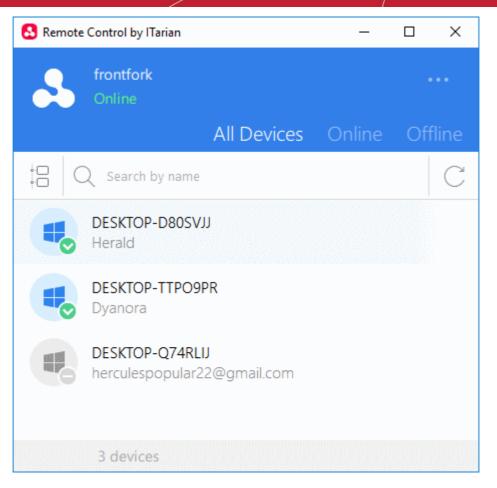
S Remote Control by ITarian		– 🗆	×
	ITarian Domain Login	Endpoint Manager	
	Password		
	Sign In	Stay signed in	

- Select 'Stay Signed in' if you want the RC application to store your login credentials. The application will not ask for your credentials to login in future.
- Click 'Sign In'

Tip: The remote control application will save your login credentials even if you forget to enable 'Stay Signed in'.

The viewer application will open with a list of enrolled Windows / Mac OS endpoints:

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All devices are shown by default. You can filter by 'Online'/'Offline' status, or by 'Company'\'Group' (click the icon next the search box). You can also search individual devices by name. The next section contains more details:

Search and Filter options

• Click the tree-structure icon on the left to search devices by Company/Group.

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S Remote Control by ITarian —		×
Sector frontfork Online		
All Devices Online	e Off	line
Search by name		С
🔄 🕂 🦳 📿 Search by Customer or Device Gro		
묘 All Devices		
Default Customer	^	
Default Group - Default Customer		
First Group		
Flying Squad Devices		
Samsung Phones		
Fork Springs Regional Transports	^	
Default Group - Fork Springs Regional	Trans	
frontfork	^	
Default Group - frontfork		
First Linux Group		
Running Staff		

- Device groups are shown below each company's name.
- Use the search box to look for a specific company or group. Clear the search field to view all companies and groups.
- Click the refresh icon by to update the list with recently added companies/groups.
- Click a company name to view all device(s) belonging to the company.
- Click a device group to view all device(s) in the group.
- Click the arrow at the right of a company name to expand / collapse device groups list
- Click the back-arrow or 'All Devices' to view all again.

In the company / device group / all devices screen:



- To search for an endpoint, start typing its name in the search field and select from the suggestions
- To view an updated list of endpoints including those recently added, click the refresh icon $\mathbb C$
- · Use the 'Online' and 'Offline' tabs to filter the list based on endpoint connection status

To remotely manage an endpoint

Move your mouse over an endpoint and click the icon on the right:

S Remote Control by ITarian	—		×
frontfork Online			
All Devices	Online	Off	line
Search by name			С
DESKTOP-D80SVJJ Herald			
DESKTOP-TTPO9PR Dyanora			
DESKTOP-Q74RLIJ			

A request message will be shown to end-users if configured appropriately:



You have the following configuration options:

- · You can take remote control of device without permission from the user
- You can ask for permission and take control if the user allows, or if the user does not respond within a certain time
- Disable remote control entirely
- See Remote Control Settings for more details.

Once the connection is established, a notification will appear on the endpoint stating that an administrator has taken control:





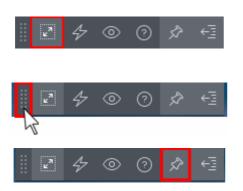
- The end-user can allow the session to continue or terminate it by clicking 'End session'.
- The message will be shown if the endpoint's profile is set to show the notification (in the 'Remote Control' section). See Remote Control Settings for more details.

The remote control application will show the desktop of the remote computer:



Device: DE5KTOP-TTP09PR Status: Connected Connection: Direct Session Duration: 00:10:34

- You can now interact with the target device to perform tasks as required.
- The tool bar at the top of the client interface contains the following menus and settings:



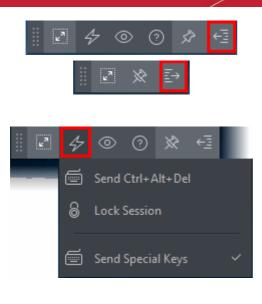
Full Screen - The remote desktop will cover your entire display, without the operating system's window-framing interface.

• Click the same icon to exit full screen mode

Position - Click and drag the tool bar to your preferred location.

Pin - Pin or unpin the tool bar to the title bar in full screen view.

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 \bigcirc

Best Fit

Scaled

Original

Full Screen

(C)

К 7 К 3

⊾⊿

Minimize/Maximize - Show/hide tool bar options.

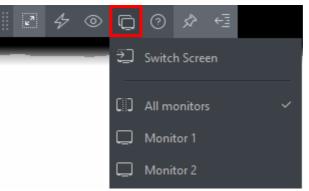
Actions - Send control commands to the endpoint.

- Send Ctrl + Alt + Del (Available only for Windows devices) Opens the Windows security screen. This allows you to lock the computer, log the current user out of the remote machine, change passwords, view the local task manager or shut down/restart/hibernate the machine.
- Lock Session Locks the managed endpoint. A password will be required to unlock the endpoint.
- Send Special Keys If enabled, allows you to send key combination commands such as Ctrl+C, Windows + R and so on.
 - The special key combinations are dependent on the operating systems of the local (admin) device and the managed remote device. See the list of available special key combinations given below.

View - Change the display size of the remote desktop. The available options are:

- **Best Fit** Automatically adjusts the screen resolution for the best visual experience.
- **Scaled** Displays the target desktop with the resolution of the admin computer
- **Original** Displays the target desktop at its own resolution
- Full screen Displays the remote desktop in full screen view

Multi-Screen - The multi-screen icon only appears if the target point endpoint has a multi-monitor setup. The dropdown shows all monitors connected to the endpoint and allows you to choose which to view.



· Select 'Switch Screen' to move to the next screen on the list



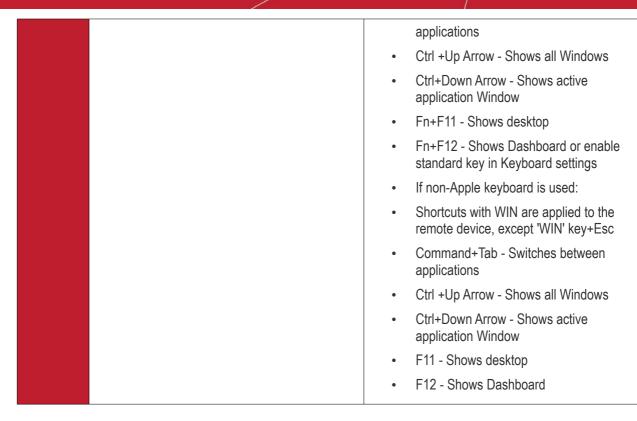
- Select 'All Monitors' to view all connected screens simultaneously
- Select an individual monitor to view it in stand-alone mode

Help - Shows the 'About Remote Control' dialog which shows version number and copyright information.

S DESKTO	P-TTPO9PR - Remote Control by ITarian		
Ø	Not too surprisingly, a prickly critter inspired part of this plant's name.	Ø	Like what you
	About Remote Control by ITarian	×	-
	6.23.18102.18100 The latest version of Remote Control by ITarian is installed. EM server: dmdemo.comodo.com		sert
	© 2018 ITarian LLC All rights reserved.		

Available Special Key Combinations

	Managed Re	emote Device
Admin Device	Windows	Mac OS
Windows	'Windows' key is sent only to the remote device Shortcuts in combination with 'Windows' key are applied only to the remote device	 'Windows'/'Command' key is sent only to the remote device. Exceptions: Ctrl+Alt+Del Win+L PRINT SCREEN and NUMLOCK are not sent to remote device NumPad digit keys always behave as arrow-keys on Mac OS 'Context Menu' key is sent as zero scan code and appears as key 'a'.
Mac OS	All Shortcuts with 'Windows'/'Command' key are applied to the remote device, except 'Windows'/'Command' key+Esc Command+Tab - Switches between applications F11 - Shows desktop Ctrl +Up Arrow - Shows all Windows Ctrl+Down Arrow - Shows active application Window	If Apple is keyboard used: Media buttons (e.g. PLAY, STOP, MISSION CONTROL), POWER, EJECT keys and all system shortcuts with these keys are applied only to the local device. Shortcuts with COMMAND are applied to the remote device, except 'COMMAND' key+Esc • Command+Tab - Switches between



- For a list of Keyboard Shortcuts in Windows, see https://support.microsoft.com/en-us/help/12445/windows-keyboard-shortcuts.
- For a list of Keyboard Shortcuts in Mac OS, see https://support.apple.com/en-us/HT201236.

Use the RMM Console for Remote Control

Comodo's Remote Monitoring and Management (RMM) grants MSPs complete visibility and control over the systems they manage. C1 customers can use RMM to takeover Windows devices.

Prerequisite - You should have already installed the legacy RMM Technician Console on your admin computer and RMM plugins on the managed endpoints.

- Click 'Devices' > 'Device List' > 'Device Management' >
- Select a Windows device and click the 'Remote Control' button
- Select 'With RMM Plugin' from the drop-down
- See https://help.comodo.com/topic-289-1-719-8569-Support-Sessions-Interface-%E2%80%93-An-Overview.html for more details.

You can also open the RMM console on the system it is installed on and remotely manage all Windows devices enrolled to your account. Please note that you can open only one instance of RMM console at a time. For more details on using RMM, refer to its guide at https://help.comodo.com/topic-289-1-719-8539-Introduction-to-Remote-Monitoring-and-Management-Module.html.

5.2.9. Remotely Browse Folders and Files on Windows Devices

- The 'File Explorer' interface lets you remotely access files/folders on any managed Windows device.
- You can also download files from the remote device to your computer.

To view files on a managed Windows device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices

Or

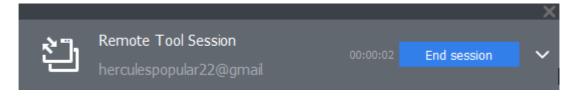
- Select 'Show all' to view every device enrolled to Endpoint Manager
- Select the Windows device you want to view
- Click 'Remote Tools' then choose 'File Explorer' from the options

Search group name	، ۴	Grou	p Management	Dev	vice Management			
B Show all Image: I	Enroll D		Remote Control	temote t		anage Profiles Install or Pack	Update More	
 I ■ Saddle and Pedals 	ρ:	Search	for devices		xplorer		0	
		OS	NAME		ACTIVE COMPONENTS	PATCH STATUS	COMPANY	OWNER
			• DESKTO		AG AV FW CO	(3) 1	frontfork	Avanti
			DESKTO	R	AG AV FW CO	0	frontfork	herculespop
			DESKTO	V	AGCCS	▲ 1	Default Com	Dyanora
					AG AV		Saddle and	Herald

 Alternatively, click the name of the device to open 'Device Details' > select 'Remote Tools' > 'File Explorer' from the options at the top.

DESKTOP-D80SVJJ Owner: Avanti	
Connection to Remote Ho	
Click button below for remote connection	

- Click 'Connect to Remote Host' in the confirmation screen to establish the connection.
- Once the connection is established, the user will be shown a notification.



• The user can terminate the session by clicking the 'End session' button.

The 'File Explorer' interface for the selected device will appear:

DESKTOP-D80SVJJ Owner: Avanti	Active session since 2018/09/06 02:49:53	3 PM End Session	
File Explorer Processes			
€ € ि 🗄 С:\			~ 0
NAME	SIZE	TYPE	MODIFIED
SRecycle.Bin		Hidden folder	2018/08/27 12:31:06 PM
Age_Calculator_v2		File folder	2018/08/28 10:40:14 AM
Astrolog		File folder	2018/08/28 03:14:03 PM
Bank Statements		File folder	2018/09/06 08:41:29 AM
Config.Msi		Hidden folder	2018/09/06 11:30:14 AM
Documents and Settings		Hidden folder	2018/08/27 11:30:28 PM
🗅 Old man Files		File folder	2018/09/03 02:54:08 PM
PerfLogs		File folder	2018/04/12 05:08:20 AM
Program Files		File folder	2018/09/06 10:31:10 AM
🗅 Program Files (x86)		File folder	2018/09/06 11:31:07 AM
🗅 ProgramData		Hidden folder	2018/09/06 11:59:10 AM
C Recovery		Hidden folder	2018/08/27 11:30:45 PM

- Select the drive/partition on the selected remote device from the drop-down at the top
- The folders and the files, including the hidden items in the selected drive/partition will be shown in list view, inside the file explorer pane
- · You can browse through any selected path by double-clicking on the folder

Tip - You can directly enter a folder path in the field at the top of the interface.

- The controls at the top let you to navigate through the folders and download selected folder/file to your computer.
 - Returns to previous file path
 - A Returns to one level up folder path
 - Takes you to root folder of the selected drive/partition
 - Lets you to download the selected folder/file to your computer. See Download Files from Remote Device to your Computer for more details.
 - Refreshes the contents of the displayed folder.

Download Files from Remote Device to your Computer

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- Navigate to the path of the folder to be downloaded
- Select the file



DESKTOP-D80SVJJ • Act Owner: Avanti	tive session since 2018/09/06	02:49:53 PM En	d Session
File Explorer Processes			
€ 🔁 🔂 🔄 C:\Wind	ows\Logs\SetupCleanupTask		
NAME	SIZE	ТҮРЕ	MODIFIEO
Jiagerr.xml	1.9 kB	File	2018/09
🖹 diagwrn.xml	3.4 kB	File	2018 /09

- Click the download icon
- The file will be downloaded.

Note: Only files of size up to 50 MB can be downloaded

The device user can view your file activities by clicking the down arrow in the notification.

				X
ð	Remote Tool Session herculespopular22@gmail	00:06:07	End session	\odot
	-06 15:10:47 File uploaded:\Setu -06 15:05:24 Session Started: hercu		-	

• To close the remote browsing session, click the 'End Session' button at the top.

Endpoint Manager logs your remote browsing sessions and file activities on the managed Windows computers. You can view the logs from the 'Dashboard' > 'Audit Logs' interface. See **Audit Logs** in **The Dashboard** for more details.

5.2.10. Remotely View and Manage Processes Running on Windows Devices

- The 'Processes' interface lets you remotely view running processes on any managed Windows device.
- You can also terminate any unwanted processes.

View running processes on a managed Windows device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
- Select the target Windows device

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Click 'Remote Tools' > 'Process Explorer':

•

Search group name	د ت ظ G	roup Management	t Device Management	_		
면 Show all			2 70	Ē, I	5	
	Enroll Device	e Remote Control	Remote tools Run Procedure		or Update More kages	
→ 🖶 Saddle and Pedals	₽ Sea	rch for devices	File Explorer Process Explorer		()	
	os	NAME 🔺		NTS PATCH STATUS	COMPANY	OWNER
		DESKTO.	🧣 AG AV FW CO	⊛ 1	frontfork	Avanti
		DESKTO.	🤤 😽 🖓 FW CO	⊘	frontfork	herculespop
		DESKTO	😲 🖪 (CCS)	<u>A</u> 1	Default Com	Dyanora
			AG AV		Saddle and	Herald

• Click 'Connect to Remote Host' to establish the connection:

DESKTOP-D80SVJJ Owner: Avanti	
Connection to Remote Host	
Click button below for remote connection with device	
Connect to Remote Host	

Once connected, all running processes on the device are shown in the EM interface:

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14150	SKTOP-D80SVJJ er: Avanti	 Active session since 	2018/10	/17 04:10:13	PM	End Session				
File E	Explorer Processes									
	End process Real-Time	e Auto Update								
Q	Search									C 🗉 Y
	APP/PROCESS A	ACCOUNT	PID	STATUS	CPU	MEMORY	DISK	NETWORK	GPU	START TIME
	ApplicationFrameHost	DESKTOP-D	5328	Running	0 %	1.27 MB	N/A	N/A	0 %	2018/10/17 10:33:18 A
	Astrolog	DESKTOP-D	10220	Running	0 %	2.35 MB	N/A	N/A	0 %	2018/10/17 04:12:34 PI
	audiodg	NT AUTHOR	1992	Running	0 %	3.71 MB	N/A	N/A	0 %	2018/10/17 04:12:22 PI
	backgroundTaskHost	DESKTOP-D	9776	Suspended	0 %	0.04 MB	N/A	N/A	0 %	2018/10/17 04:12:12 PI
	backgroundTaskHost	DESKTOP-D	2588	Suspended	0 %	0.03 MB	N/A	N/A	0 %	2018/10/17 04:12:12 PI
	browser_broker	DESKTOP-D	5296	Running	0 %	0.53 MB	N/A	N/A	0 %	2018/10/17 10:33:28 A

- Use the button 💷 at top-right to toggle between flat list and tree list views
- · Click the funnel icon to filter processes by various criteria
- Click the right arrow beside a process name to view its child-processes.
- Terminate running processes by selecting them then clicking the 'End Process' button
- · 'Real Time Auto-Update' gets the latest information about a process from an endpoint every few seconds

Processes - Column Descriptions						
Column Header	Descriptions					
App/Process	The label of the process or the parent application that triggered the process.					
Account	The user account with which the process the running. The system access privileges for the process are limited by the user account.					
PID	The process identification number.					
Status	Whether the process is running or suspended.					
CPU	Indicates the resource usage of the respective hardware/connection bandwidth					
Memory	by the process.					
Disk						
Network						
GPU						
Start time	The date and time the process commenced.					

The following notification is shown on the endpoint while you are connected:

_				×
اڭ ا	Remote Tool Session	00:00:02	End session	~
	herculespopular22@gmail			

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The endpoint user can view your activities by clicking the arrow on the left:

				<u> </u>
ù	Remote Tool Session herculespopular22@gmail.	00:12:00	End session	0
	9-06 16:02:01 Process killed: Astrolog 9-06 15:58:48 Process killed: chrome			
	9-06 15:55:30 Session Started: hercule:	spopular22@o	gmail.com	

5.2.11. Apply Procedures to Windows Devices

- Procedures are instruction sets designed to accomplish a specific task on target devices. There are two types - script procedures and patch procedures.
- Procedures can be run on single or multiple devices from the 'Devices' > 'Device List' screen.
 - You can also run them on an ad-hoc basis in 'Configuration Templates' > 'Procedures', or by adding them to a profile.
 - See Directly Apply Procedures to Devices and Procedure Settings for details about these methods.

This section explains how to run procedures from the 'Device Management' interface.

- Apply procedures on a single device
- Apply procedures on multiple devices at once

To run a procedure on a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device enrolled to EM
- · Select the target Windows device and click 'Run Procedure' on the top

Or

.

- Click the name of a device to open its details page.
- Click 'Run Procedure' from the options at the top (or click 'More...' and choose 'Run Procedure' from the options)

DESKTOP-TTP09PR **Owner: Triumph** Ň٦ -6 Ë) Run Propedure Manage Profiles Install or Update Remote Control Remote tool **Refresh** Device Packages Information BETA Device Name Summary Netwo rks Associated Profiles Software Inventory Run Procedure × Type approved procedure name to search among procedures O Run as LocalSystem User Run as Logged in User Run

• Type the first few characters of the name of the procedure in the 'Choose Procedure' text box. Select the procedure you want to apply from the search suggestions. Only one procedure can be run at a time. Please note only **approved** procedures will be listed.

Run Procedure		×
Greet User [Script]		
 Run as LocalSystem User Run as Logged in User 		
	Configure parameters	Run

- Run as Local System User / Run as Logged in user Choose the user account with which the procedure has to be run on the device based on the access rights required for the procedure. Please note this option will not be available for a patch procedure.
- Configure parameters Available only for script procedures defined with variable parameters and allows you to enter the values for them.

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To specify values for variable parameters

Click 'Configure Parameters'

Procedure parameters					
Message (Data Type: String)					
Use default value					
Hi, How are you?					
Title (Data Type: String) Use default value					
Message from Administartor					
Close Ap	oply				

A list of variable parameters will appear with their default values pre-populated.

- Enter the value for each parameter in the appropriate text box
- · Select 'Use default value' if you want the default value to be applied for a parameter,
- Click 'Apply'

Tip: You can skip this step If you want to use default values for all parameters. For more info on default values, see Create a Custom Procedure.

• Click the 'Run' button in the 'Run Procedure' dialog.

The command will sent to the device and the selected procedure run. An alert will be generated if the procedure fails (presuming alerts have been configured). The process will be logged. You can view the procedure execution logs in two ways:

- From 'Device Logs' interface:
 - Click 'Devices' > 'Device List' > 'Device Management'
 - Click the device name to open its 'Device Details' interface
 - Select the 'Logs' tab and select 'Script Logs', 'Patch Logs' or 'Third Party Patch logs' depending on the type of the procedure
 - See View Device Logs for more details.
- From the 'Procedures' interface
 - Click 'Configuration Templates' > 'Procedures'
 - Click the name of the procedure to open the procedure configuration interface
 - Select the 'Execution Log' tab
 - See View Procedure Results for more details.

To run a procedure on multiple devices at once

Click 'Devices' > 'Device List'



• Click the 'Device Management' tab in the top-menu

•

- Select a company or a group to view just their devices Or
- Select 'Show all' to view every device enrolled to EM
- Select the Windows devices on which you want to run a procedure
- Click 'Run Procedure'. (or click 'More...' and choose 'Run Procedure' from the options)

<mark>،</mark> ه	Group	Managemen	t Device M	Management				
Enroll De	-	emote Control	Remote tools	₽ Run R ^{lhn} cedure	Manage Profil	es Install or Update Packages	C Refresh Device	
۵Q	earch fo	or devices	BEIA		-	гаскаусь	momation	
	OS	NAME		ACTIVE COMP	PONENTS	PATCH STATUS	COMPANY	
		DESKTO	ор-т. 🤹	AGAVFW	СО	0	Saddle and Ped	
		• DESKTO	🤹	AG AV FW	CO	0	Saddle and Ped	
	1	LENDV	0_Le	AG AV			Saddle and Ped	
	Run	Procedur	e				×	
	Тур	e approved	procedure nar	me to search a	mong proced	lures		
		ın as LocalS ın as Logge	System User d in User					
							Run	

Type the first few characters of the name of the procedure in the 'Choose Procedure' text box. Select the
procedure you want to apply from the search suggestions. Only one procedure can be run at a time. Please
note only approved procedures will be listed.

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Run Procedure		×
Greet User [Script]		
 Run as LocalSystem User Run as Logged in User 		
	Configure parameters	Run

- Run as Local System User / Run as Logged in user Choose the user account with which the
 procedure has to be run on the device based on the access rights required for the procedure.
 Please note this option will not be available for a patch procedure.
- **Configure parameters** Applicable only for script procedures defined with variable parameters and allows you to enter the values for them.

To specify values for variable parameters

Click 'Configure Parameters'

Procedure parameters					
Message (Data Type: String)					
Use default value Hi, How are you?					
Title (Data Type: String)					
Use default value					
Message from Administartor					
Close	Apply				

The list of variable parameters will appear with their default values pre-populated in their respective text fields

- Enter the value for each parameter in the respective text box
- Select 'Use default value' if you want the default value to be applied for a parameter,
- Click 'Apply'

Tip: You can skip this step If you want to use default values for all parameters. For more info on default values, see Create a Custom Procedure.



• Click the 'Run' button in the 'Run Procedure' dialog.

The command will sent to the devices and the selected procedure will be run on them. An alert will be generated if the procedure fails (presuming alerts have been configured). The process will be logged. You can view the procedure execution logs in two ways:

- From 'Device Logs' interface:
 - Click 'Devices' > 'Device List' > 'Device Management'
 - Click the name of a device on which the procedure was run, to open its 'Device Details' interface
 - Select the 'Logs' tab and select 'Script Logs', 'Patch Logs' or 'Third Party Patch logs' depending on the type of the procedure
 - See View Device Logs for more details.
- From the 'Procedures' interface
 - Click 'Configuration Templates' > 'Procedures'
 - Click the name of the procedure to open the procedure configuration interface
 - Select the 'Execution Log' tab
 - See View Procedure Results for more details.

5.2.12. Remotely Install and Update Packages on Windows Devices

The 'Device Management' screen lets you install/update Comodo applications and third-party packages on managed Windows endpoints. You have the following options:

- Additional Comodo Packages Install Comodo Client Security (CCS).
- Custom MSI/Packages Install a package of your choice by specifying the URL of the package.
- Update Additional Comodo Packages Install the latest versions of CCS and/or the communication client.

In both cases you can choose the following installation options:

- Force reboot after 5, 10, 15 or 30 minutes
- Suppress the reboot entirely
- Warn the end-user about the reboot and allow them to postpone it. You can also send a message to the end-user.

To install MSI / EM packages

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device in EM
- Select your target Windows devices using the check-boxes on the left
- Click 'Install or Update Packages':

، Ъ	Gro	up Management	Device	Management		\frown			
L.			21	₽□	Ē,		C	Ď	
Enroll De	evice	Remote Control	Remote tools	Run Procedure	Manage Profiles	Install Dipdate Packages	Refresh Device Information	e Reboot	More
۶ م	Search	n for devices			÷	Install Additio			O Y
	os	NAME	AC	TIVE COMPONEN	TS PATCH S	Install Custon Install macOS Install Linux P	Packages	es	LAST ACTIVITY
		DESKTO	🤁 🖪	CCS	(8) 1	Update Additi	onal Comodo	Packages	2018/09/07 10:
		DESKTO	R	3 AV FW CO	Ø	frontfo	rk hero	ulespop	2018/07/12 04:
		DESKTO	۸۹ 🦻	G AV FW CO	A 1	Defaul	t Com Dya	nora	2018/09/06 03:

• Alternatively, click on the name of the device > select 'Install or Update Packages'.

The drop-down contains the following options:

- Install Additional Comodo Packages
- Update Additional Comodo Packages
- Install Custom MSI/Packages

Tip: You can remotely install CCS on a Windows endpoint by clicking the shield icon 😌 next to the device name.

To install EM packages

• Select 'Install Additional Comodo packages' from the 'Install or Update Packages' drop-down.

Note:

- The packages must be enabled in 'Extensions Management' to appear in this screen.
- Click 'Settings' > 'Portal Set-up' > 'Extensions Management' to enable or disable packages.
- See 'Manage Endpoint Manager Extensions' if you wish to read more about extensions.

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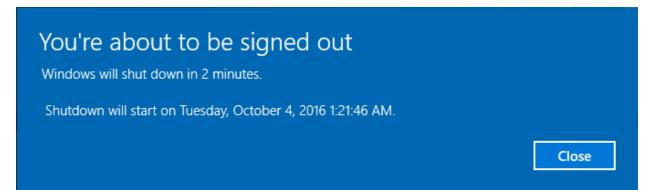
Install Additional Comodo Packages	×
Install Comodo Client - Security	
Reboot options	
Force the reboot in	
5 minutes	~
O Suppress the reboot ()	
O Warn about the reboot and let users postpone it	
Reboot message	
Your device will reboot in 5 minutes because it's required by your administrator	
	11
Insta	all

• Install Comodo Client - Security - Available for endpoints that do not have CCS installed. CCS is a complete endpoint security suite which features a powerful antivirus, enterprise class firewall, advanced host intrusion prevention and automatic containment of unknown files. You can configure which CCS components are installed by applying a configuration profile.

CCS requires the endpoint to be restarted in order for the installation to take effect. You have the following reboot options:

• 'Force the reboot in...' - restart the end-point a certain period of time after installation. Choice of 5, 10, 15 or 30 minutes

The following message will be displayed on the device:



The device will be restarted automatically when the time period elapses.

- 'Suppress the reboot' Do not restart the machine after installation. CCS will only become fully functional after the device is restarted.
- **'Warn about the reboot and let users postpone it'** Show an alert to the user which advises them that their computer needs to be restarted. You can enter a custom message which is shown to the user:

Your device needs a reboot because it's required by your administrator
Remind me in 10 minutes 🔻
Reboot now Postpone

Users can restart the endpoint immediately by clicking 'Reboot now', or postpone it by picking a time in the 'Remind me in' drop-down.

Note: the CCS components which are active depends on the profile applied to the device. Components include firewall, antivirus, auto-containment, HIPS, Valkyrie and more.

- Click 'Devices' > 'Device List' > click device name > 'Associated Profiles', to see the profiles active on a device.
- Click 'Configuration Templates' > 'Profiles' to view and configure profiles
- See View and Manage Profiles Associated with a Device, Assign Configuration Profile(s) to a User's Devices, Assign Configuration Profiles to a User Group and Assign Configuration Profiles to a Device Group for help with profiles.

Update EM Packages

- Select 'Update Additional Comodo packages' from the 'Install or Update Packages' drop-down
- The 'Update Additional Comodo packages' dialog lists all packages with available updates:

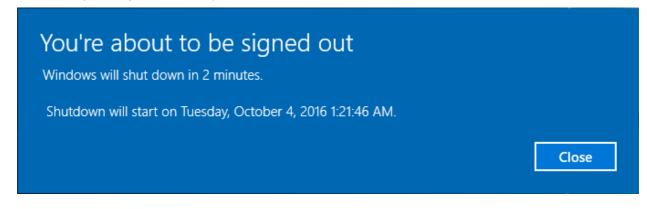
Update Additional Packages × Update Communication Client • • Update Comodo Client - Security • • Reboot options • Force the reboot in (if required by CCS) • 5 minutes • • Suppress the reboot • • Suppress the reboot • • Warn about the reboot and let users postpone it (if required by CCS) Reboot message • Enter a message that the device owner will get before the reboot // Update /

- Update Communication Client Only available for devices with an out-dated version of the the communication client. As the name suggests, the communication client allows EM to send and receive updates to/from devices.
- **Update Comodo Client Security** Install database and software updates for CCS on the device. Only available for endpoints with out-dated versions of CCS.

CCS requires the endpoint to be restarted in order for the installation to take effect. You have the following reboot options:

• 'Force the reboot in...' - restart the end-point a certain period of time after installation. Choice of 5, 10, 15 or 30 minutes

The following message will be displayed on the device:



The device will be restarted automatically when the time period elapses.

• **'Suppress the reboot'** - Do not restart the machine after installation. CCS will only become fully functional after the device is restarted.

COMODO Creating Trust Online • 'Warn about the reboot and let users postpone it' - Show an alert to the user which advises them that their computer needs to be restarted. You can enter a custom message which is shown to the user:

Your device needs a reboot because it's required by your administrator
Remind me in 10 minutes
Reboot now Postpone

Users can restart the endpoint immediately by clicking 'Reboot now', or postpone it by picking a time in the 'Remind me in' drop-down.

Install third-party MSI packages

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Choose 'Install Custom MSI/Packages' from the 'Install or Update Packages' drop-down

The 'Install Custom MSI/Packages' dialog will appear.

Install Custom MSI/Packages х Custom MSI MSI/Package URL * example: https://yourdomain.com/downloads/app.msi Command-line options Read more about command-line options **Reboot options** Force the reboot in 5 minutes Suppress the reboot (1) O Warn about the reboot and let users postpone it Reboot message Your device will reboot in 5 minutes because it's required by your administrator Install

- **MSI/Package URL** enter the location of the installer. Make sure it is from a https site. For example, https://www.hass.de/files/nodes/story/45/npp.6.8.4.installer.msi
- Command-line Options Enter any required installation switches (optional).
 - · You need only enter the command here. E.g. /L or /quiet
 - Click the 'Read more' link to read more about command-line options.
- Choose the reboot option you prefer:
 - 'Force the reboot in...' restart the end-point a certain period of time after installation. Choice of 5, 10, 15 or 30 minutes

The following message will be displayed on the device:



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You're about to be signed out Windows will shut down in 2 minutes.	
Shutdown will start on Tuesday, October 4, 2016 1:21:46 AM.	
	Close

The device will be restarted automatically when the time period elapses.

- **Suppress the reboot**' Do not restart the machine after installation. CCS will only become fully functional after the device is restarted.
- 'Warn about the reboot and let users postpone it' Show an alert to the user which advises them that their computer needs to be restarted. You can enter a custom message which is shown to the user:

Your device needs a reboot because it's required by your administrator
Remind me in 10 minutes -
Reboot now Postpone

Users can restart the endpoint immediately by clicking 'Reboot now', or postpone it by picking a time in the 'Remind me in' drop-down.

5.2.13. Remotely Install Packages on Mac OS Devices

Admins can remotely install CCS onto Mac OS devices from the 'Device Management' interface.

To install Mac OS packages

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device in EM
- · Select the target Mac OS devices using the check-boxes on the left
- · Click 'Install or Update Packages' from the options at the top then choose 'Install macOS Packages'

, ធ្ Group Management Device Management Ë) ٥ 5 S ... Enroll Device Remote tools Manage Profiles Install or Update More Remote Control Run Procedure Refresh Device Packages Information BETA Install Additional Comodo Packages 0 Search for devices Install macOS Packages PATCH S AST **0**S NAME ACTIVE COMPONENTS tall Linux Packages Additional Comodo Packages Upd 2018/09/06 03:. DESKTO. AGAVFWCO A 1 . Herald AG Saddle and .. Herald 2018/09/07 10:... AG CCS frontfork 2018/09/07 11: DESKTO **Avanti** 2018/09/07 11: Joe Linux AG AV Saddle and Herald Install macOS Packages × Install COMODO Client - Security Install

- Alternatively, click on the name of the device > select 'Install mac OS Packages'.
- Choose 'Install Comodo Client Security'
- Click 'Install'
- A command will be sent to target endpoints to install CCS. The application will become effective immediately after installation.
- You can view the installation status as follows:
 - Click 'Devices' > 'Device List'
 - Click on the name of the device > select 'Packages Installation State'.
 - See View Mac OS Packages Installed on a Device through Endpoint Manager for more details.

Note: The actual settings of CCS depends on the profile applied to the device:

- Click 'Devices' > 'Device List' > click device name > 'Associated Profiles', to see the profiles active on a device.
- Click 'Configuration Templates' > 'Profiles' to view and configure profiles

The following sections contain more help on profiles:

- View and Manage Profiles Associated with a Device
- Assign Configuration Profile(s) to a User's Devices

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- Assign Configuration Profiles to Selected Devices
- Assign Configuration Profiles to a User Group
- Assign Configuration Profiles to a Device Group

5.2.14. Remotely Install Packages on Linux Devices

Admins can remotely install CCS onto Linux devices from the 'Device Management' interface.

To install Mac OS packages

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top menu
 - Select a company or a group to view just their devices Or
 - Select 'Show all' to view every device in EM
- Select the target Linux devices using the check-boxes on the left
- Click 'Install or Update Packages' from the options at the top and choose 'Install Linux Packages'

، ۴	Gro	up Management	Device Management					
			20 FD	Ē.		C		
Enroll C)evice	Remote Control	Remote tools Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Information	More	
Q	Searcl	h for devices				nal Comodo Pa		ØT
	OS	NAME -	ACTIVE COMPONEN	NTS PATCH S	Install macOS	n MSI/Packages Packages	5	LAST ACTIVITY
					Install Linux P	ackages		
	() ()	samsun	AGAV		Update Additi	onal Com 🎝 Pa	ackages	2018/09/07 12:
	1	LENOVO	AGAV		frontfo	rk Avanti	i	2018/09/07 09:
	۵	Joe Linux	AG		Saddle	and Herald	ł	2018/09/07 12:
		Herald	AG AV		Saddle	and Herald	ł	2018/09/07 10:

- Alternatively, click on the name of the device > select 'Install Linux Packages'.
- Choose 'Install Comodo Client Security'
- Click 'Install':
- A command will be sent to target endpoints to install CCS. The application will become effective immediately after installation.
- You can view the installation status as follows:
 - Click 'Devices' > 'Device List'
 - Click on the name of the device > select 'Packages Installation State'.
 - See View Linux Packages Installed on a Device through Endpoint Manager for more details.

Note: The actual settings of CCS depends on the profile applied to the device:



- Click 'Devices' > 'Device List' > click device name > 'Associated Profiles', to see the profiles active on a device.
- Click 'Configuration Templates' > 'Profiles' to view and configure profiles

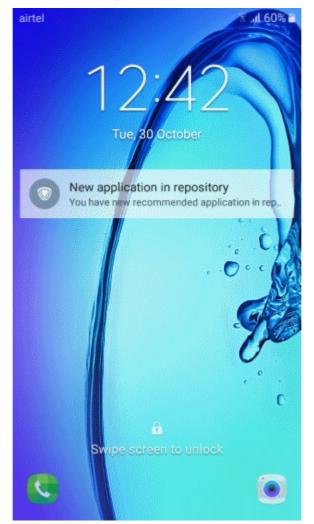
The following sections contain more help on profiles:

- View and Manage Profiles Associated with a Device
- Assign Configuration Profile(s) to a User's Devices
- Assign Configuration Profiles to a User Group
- Assign Configuration Profiles to a Device Group

5.2.15. Install Apps on Android/iOS Devices

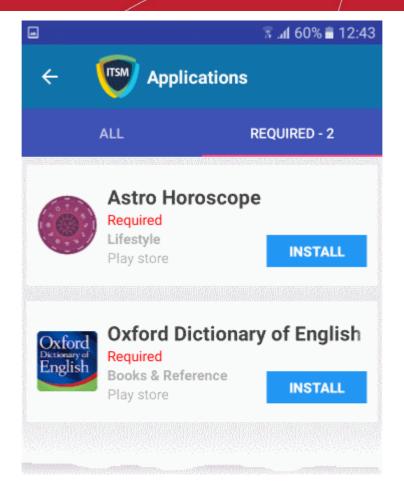
- Endpoint Manager allows you to push applications to all enrolled mobile devices
- You can add apps that you intend to distribute to devices to the EM Application Store.
 - Click 'Application Store' > 'iOS Store' or 'Android Store'
 - See Application Store for help to upload apps
- The sync between the EM server and the devices takes place every 24 hours. Alternatively, you can sync
 immediately by clicking 'Inform Devices Now' in the Android / iOS application store interface.

Managed devices are sent notifications about newly added apps:



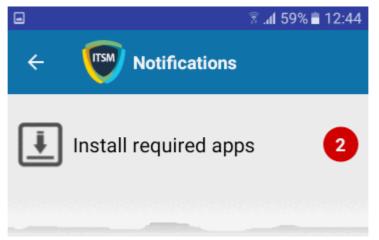
Users should tap the notification to open the 'Applications' page:

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- All Displays all apps available for installation, including mandatory and optional apps.
- **Required** Apps that must be installed to comply with the EM profile applied to the device.
- Tap 'Install' to download and install the apps.

Endpoint Manager also sends notification to devices if a mandatory or recommended app is uploaded to the **Application Store**.



• Tap 'Install required apps' to install mandatory apps.

5.2.16. Generate an Alarm on Devices

• If a device is mislaid, lost or stolen, you can make it sound an alarm to help locate it. The alarm will sound at full volume, even if it is set to silent mode.



- You can stop the alarm from the same interface.
- The alarm can also be generated on several devices at once to grab the attention of users.

Note: This feature is available only for Android devices.

- Generate alarm on a single device
- Generate alarm on several devices

To generate alarm on a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of the device on which you want to sound an alarm

The device details interface opens.

Click 'Siren' on the top then choose 'Siren On'

Dyanora Sa ^{Owner: joesmith}	msung						
Manage Profiles	Siren	- Send Message	C Refresh Device Information	O Wipe / Corporate	Passcode	Delete Device	Que to the second secon
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					(Send	

You can also choose the following extras:

- Vibrate The device will vibrate along with the siren
- · Make screen flash The device screen will flash intermittently along with the siren
- Click the 'Send' button to issue the alarm.
- To switch off the alarm, click 'Siren' > 'Siren Off' from the same interface.

To generate alarm on several devices

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons



- Select a company or group on the left to view only their devices Or
- Select 'Show all' to view every device added to EM
- Select the devices on which you want to sound an alarm
- Click 'Siren' at the top and choose Siren On' or click 'More...', select 'Siren' and choose 'Siren On'

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Enroll	Device	Remote Control	Remote Tools	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Mo Information	ore
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							Send	

You can also choose the following extras:

- Vibrate The devices will vibrate along with the siren
- Make screen flash The devices' screen will flash intermittently along with the siren
- Click the 'Send' button to issue the alarm

To stop the alarm

- Select the device(s) which should stop sounding an alarm, from the 'Device Management' interface.
- Click 'Siren' at the top and choose 'Siren Off'

5.2.17. Lock / Unlock Selected Devices

- Admins can remotely lock devices to prevent them being accessed by unauthorized persons, or to generally block access to the device.
- · Locked devices can only be opened by entering a passcode on the device.



The following sections contain more information on:

- Locking a single device
- Locking several devices at-once

To remotely lock a single device

•

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices
 Or
 - · Select 'Show all' to view every device added to EM
- Click the name of the device you want to lock. This opens the device details interface.
- · Click the 'Passcode' button at the top and choose 'Lock'.
 - If 'Passcode' is not displayed, click 'More...', select 'Passcode' and choose 'Lock' from the options

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					Set Scre	een Passcode	
Device Name	Summ	nary Installe	d Apps	Associated Profiles	Reset S	creen Passcode	Locatio
					Lock	h	
						0	

A command to lock the device is sent immediately. The device can only be unlocked by entering the screen lock password.

To remotely lock several devices at-once

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - · Select 'Show all' to view every device added to EM
- Select all devices that you want to lock
- Click the 'Passcode' button at the top
 - Or click 'More...' and select 'Passcode' from the drop-down.
- Choose 'Lock' from the options

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						・ 🖆 Export	

The lock command is sent. The devices will be locked and the user(s) can unlock the device(s) by entering the screen lock password.

5.2.18. Wipe Selected Devices

- Click 'Devices' > 'Device List' > select a device > Click 'More' > 'Wipe/Corporate'
- Confidential documents and sensitive information can be stolen from a lost or stolen device.
- To prevent such data loss, admins can remotely erase the contents of a lost device.
 - Additionally, you can configure a profile to wipe a device if the wrong password is entered a set number of times.
 - Click 'Configuration Templates' > 'Profiles' > click on an iOS/Android profile > 'Add Profile Section' > 'Passcode', to set this feature.

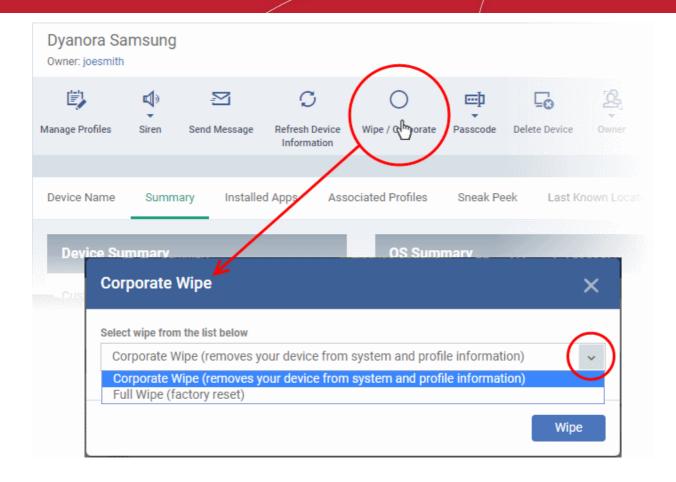
The following sections explain how to:

- Wipe a single device
- Wipe several devices at-once

Wipe a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click on the name of the device you want to wipe. This will open the device details page.
- · Click the 'Wipe / Corporate' button from the options at the top
 - or click 'More...' and choose 'Wipe / Corporate' from the options

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- Choose the type of wipe:
 - Corporate Wipe Removes only the Endpoint Manager communication client and configuration profiles
 - **Full Wipe** Erases all data from the device and the SD card. The device will be returned to default factory settings.
- Click the 'Wipe' button to send the command.

Wipe several devices

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Select the target devices to be wiped
- Click 'Wipe / Corporate' from the options at the top or click 'More...' and choose 'Wipe / Corporate' from the options.

, គ Group Management Device Management \mathcal{O} Enroll Device Remote Tools Manage Profiles Install or Update Refresh Devi More Remote Control Run Procedure Packages Information BETA 🔛 Reboot Search for devices کر 🕰 🖌 cus 🖾 Send Message 0S 🔺 NAME ACTIVE COMPONENTS PATCH STATUS LA <
 <tr>
 Image: Passcode
 LENOVO.. AG AV fron 20 Siren Wipe / Corporate Dyanora .. AG AV DESKTO AG AV FW CO front ▲ Laport Export **Corporate Wipe** × Select wipe from the list below Corporate Wipe (removes your device from system and profile information) Corporate Wipe (removes your device from system and profile information) Full Wipe (factory reset) Wipe

- Choose the type of wipe:
 - Corporate Wipe Removes only the Endpoint Manager communication client and configuration profiles
 - Full Wipe Erases all data from the device and the SD card. The device will be returned to default factory settings.
- Click the 'Wipe' button to send the command.

5.2.19. Assign Configuration Profiles to Selected Devices

- The 'Device Management' interface lets you view the configuration profiles in effect on selected devices. You can also apply new configuration profiles or remove profiles.
- Profiles applied from this interface will be added to any existing profiles on the device (such as profiles from a device group or user group).
- If the settings in a profile clash with those in another profile, Endpoint Manager follows the 'Most Restrictive' policy. For example, if a profile allows the use of the camera and another restricts its use, the device will not be able to use the camera.

See Create Configuration Profiles, for more details on profiles.

To manage profiles applied to a device

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- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - · Select 'Show all' to view every device added to EM
- Select the device you want to manage and click 'Manage Profiles' from the options at the top

D Search group name	Croup Management Device Management	
B Show all		i D
 → ➡ Default Company → ➡ frontfork 	Enroll Device Remote Control Remote tools Run Procedur	e Manage Profiles Install or Update Packages
+ 🖶 Saddle and Pedals	Search for devices	
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Manage Profiles of DESK	TOP-D80SVJJ	
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Add Profiles		
Remove Profiles		O Y
OS TYPE PROFILE NA	IE	OWNER
Finance Depa	rtment Windows Computers	herculespopular22@gmail
First Profile		herculespopular22@gmail

• Alternatively, click the name of the device to be managed to open its 'Device Details' interface and choose 'Manage Profiles' from the options at the top

The list of profiles currently active on the device will be displayed.



	Manage Profiles - Column Descriptions
Column Heading	Description
OS Type	Indicates the operating system of the device.
Profile Name	 The profile label. Click the name of a profile to open the 'Edit Profile' interface. See Edit Configuration Profiles for more details.
Owner	 The admin who created the profile. Click the name to open the user information interface of the admin. See View User Details for more details.

Note: Device group and user group profiles applied to the device will not be shown here. Profiles applied to a device through different channels can be viewed from the respective 'Device Details' interface. See **View and Manage Profiles Associated with a Device** for more details.

• To add a profile to the device, click 'Add Profiles' from the top left.

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Add	Profiles to	o DESKTOP-D80SVJJ	
E s	ave		O Y
	OS TYPE	PROFILE NAME	OWNER
		Default Profile for Windows Devices	herculespopular
		Default Profile for Windows	herculespopular
		Suspicious Files Folder for John	herculespopular
		Monitoring Important Data	herculespopular
	400 800 Ray 800	Patch Procedure	herculespopular

A list of all profiles applicable to the chosen device, excluding those that are already applied to the device is shown.

• Select the profile(s) to be applied to the device

Tip: You can use the search and filter options that appear on clicking the funnel icon at the top right to search for the profile(s) to be applied.

- Click 'Save' at the top left to add the selected profile(s) to the device.
- To remove existing profile(s), select the profiles to be removed from the 'Manage Profiles' interface and click on 'Remove Profiles' from the options that appear on top.

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Add Pro			
(🗇 '	Remove Profil	es	T
	OS TYPE	PROFILE NAME	OWNE
	OS TYPE	PROFILE NAME PC with 1TB hard drive	OWNE coyoteewile@yahoo.com
	1	PC with 1TB hard drive	coyoteewile@yahoo.com

The selected profile(s) will be removed from the device immediately.

5.2.20. Set / Reset Screen Lock Password for Selected Devices

• Endpoint Manager lets you remotely set a new screen lock passcode (or reset the existing code) for enrolled Android devices from the 'Device Management' interface.

Note: This feature is available only for Android devices.

The following sections explain more about:

- Setting and resetting password for a single device
- · Setting and resetting password for several devices at-once

To set a new screen lock password or remove password for a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of the device for which a new passcode is to be created or existing passcode is to be reset

This opens the 'Device Details' interface for the device.

- To set a new password:
 - Click the 'Passcode' button at the top and choose 'Set Screen Passcode'.
 - If 'Passcode' is not displayed, click 'More...', select 'Passcode' and choose 'Set Screen Passcode' from the options

Dyanora Samsung Owner: Dyanora Ë) d) C œ) 50 Manage Profiles **Delete** Device Siren Send Message Refresh Device Wipe / Corporate Passcode Information Set Screen Passcode Rese een Passcode Device Name Summary Installed Apps Associated Profiles Lock Device Summary Summary С Set New Screen-Lock Password × n N Password * 0

• Enter the new password in the 'password' text field.

Tip: You can use the eye icon	۲	at the right end of the text field to display of hide the typed password.
•		

Click 'Set'.

•

The command is sent to the device. This new password should be entered on the device to unlock it.

Note: If a passcode profile has been configured for the selected device, make sure to enter the new password that complies with the profile.

- To clear the existing password on the device:
 - Click the 'Passcode' button at the top and choose 'Reset Screen Passcode'.
 - If 'Passcode' is not displayed, click 'More...', select 'Passcode' and choose 'Reset Screen Passcode' from the options

The command is sent to the device and the current screen lock password will be cleared. A message will also be sent to the device regarding the password change. If a password profile is applied the device, the user will be required to enter a new password that complies with the profile.

To set a new screen lock password or remove password for several devices

- Click 'Devices' > 'Device List'
- · Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices

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Set



Or

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- Select 'Show all' to view every device added to EM
- Select the devices to set/reset their password.
- To set a new password:
 - Click the 'Passcode' button at the top and choose 'Set Screen Passcode'.
 - If 'Passcode' is not displayed, click 'More...', select 'Passcode' and choose 'Set Screen Passcode' from the options

Search group name	Group Managemen	nt Device Management			\sim	
All Devices			♦ ⊠	O 🕑	0	
ABC TV Services	Enroll Device Manage Profile	 Facework Instals of Opdate Packages 	Siren Send Message	Refresh Device Haboar Information	Wipe / Corporate Passcode	More
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Enter the new password in the 'password' text field.

Tip: You can use the eye icon	۲	at the right end of the text field to display of hide the typed password.
TIP. Tou can use the eye icon		rat the right end of the text lield to display of hide the typed password.

Click 'Set'.

The command will be sent to all the devices at-once. From the next unlock operation, the users should enter the new password to unlock the device.

Note: If a Passcode profile has been configured for the selected devices, make sure to enter the new password that complies with the profile.

- To clear the existing passwords:
 - Click the 'Passcode' button at the top and choose 'Reset Screen Passcode'.
 - If 'Passcode' is not displayed, click 'More...', select 'Passcode' and choose 'Reset Screen Passcode' from the options

The command will be sent to all the devices and the current screen lock password will be cleared. A message also will be sent to the device regarding the screen lock password change. If a password profile is configured in the device, the user will be required to enter a new password that complies with the profile.



5.2.21. Update Device Information

- The communication client on an enrolled device sends information about the device to Endpoint Manager.
- This includes OS version, memory status, network details, IMEI number, location, MAC address of Bluetooth, MAC address of WiFi and so on.
- The interval at which the device sends this information can be configured in the 'Settings' interface.
- Device information can also be fetched in real time by opening device details then clicking 'Refresh Device Information'.

The following sections explain more about:

- · Getting updated information from a single device
- Getting updated information from several devices at once

To get updated information from a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of the device to refresh the information from

The 'Device Details' interface will open with information on the device fetched from last polling time of the agent installed on the device.

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Manage Profiles Siren Send Message Refrest Vice Information Wipe / Corporate Passcode Delete Devi	ce Owner
Device Name Summary Installed Apps Associated Profiles Sneak Peek Las	st Known Locat
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Custom device Dyanora Samsung OS Android	
name OS version 6.0.1	
Name samsung_SM-G600FY Build version G600FYDD Device type Smartphone Smartphone <td></td>	

Click 'Refresh Information' from the options at the top

To get updated information from several devices

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or



- Select 'Show all' to view every device added to EM
- Select the devices to refresh information from.
- Click 'Refresh Device Information' from the options at the top
 - If 'Refresh Device Information' is not displayed, click 'More...', and choose 'Refresh Device Information' from the options

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		DESKTO		AV FW CO	<u> </u>	frontf	ork	herculespop

5.2.22. Send Text Message to Devices

Endpoint Manager lets you send text messages to enrolled Android and iOS devices. This comes in handy if you need to send important notifications to all users.

Note: For iOS devices, the EM communication client should be installed for this feature to be supported.

- Send message to a single device
- Send message to several devices at-once

To send a text message to a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- · Click the name of the target device to which the message should be sent

The 'Device Details' interface opens.

Click 'Send Message' from the options at the top.

Dyanora Samsung Owner: Dyanora Ë) \mathcal{O} œb ይ Lċ Send Message Manage Profiles Siren Refresh Device Wipe / Corporate Passcode Delete Device Owner Information Installed Apps Associated Profiles Device Name Summa Sneak Peek Last Known Location **OS Summary** Device Summar Send Message × Message * Your device password is changed. Please contact admin. Send

- Enter the text message in the 'Message' field.
- Click the 'Send' button.

The message will be sent to the device for the user's attention.

To send a text message to several devices at-once

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Select the target devices to which you wish to send messages
- Click 'Send Message' from the options at the top or click 'More...' and choose 'Send Message' from the drop-down

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roll Device	Remote Control	Remote Tools	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Information	Reboot Owner	Send Message M
O Searcl	n for devices							3
OS	NAME		ACTIVE CO	MPONENTS	PATCH STATUS	OUSTOMER	OWNER	LAST ACTIVI
	Dyanora	Sams	AGAV			Default Customer	Dyanora	2018/10/30 1
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	You	ır device p	password i	s changed.	Please contac	ct admin.		ĥ

- Enter the text message in the 'Message' field.
- Click the 'Send' button.

The message will be sent to the selected devices for the users' attention.

5.2.23. Restart Selected Windows Devices

Endpoint Manager allows you to remotely restart Windows machines as required. You can also specify how long to delay the restart, add a warning message to be displayed to users and allow them to postpone the restart.

Note: The reboot option is only available for Windows devices.

The following sections explain more about:

- Restart a single device
- Restart several devices at-once

To restart a single device

•

- Click 'Devices' > 'Device List'
- · Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of the Windows device to be restarted

The device details interface opens.

Click the 'Reboot' option at the top.

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e Profiles	C Remote Control	Remote Tools	P	Install or Update Packages	C Refresh Device Information	Rebeler	Export Security Configuration	Delete Device	Gwner
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evice S	ummary				OS Summ	ary			
ustom de ame ogged in	evice name user	DESKTOP-D DESKTOP	L. V2080		OS OS name OS version		Windows Microsof 10.0.171	ft Windows 10 Pr	o (x64)
Rel	eboot boot options Force the	rehoot in						>	<
	5 minute							~	
	Warn abou		ot and let (users postpo	ne it				
	-		t in 5 minu	tes because	it's required l	oy your a	dministrate	or	
						0	nessage an		

• Configure your reboot options in the 'Reboot' dialog

To restart the end-point after a certain period of time

- Choose 'Force the reboot in' and select the delay period.
- Click 'Send message and reboot'

The message will be displayed at the device as shown below:

You're about to be signed out

Windows will shut down in 2 minutes.

Shutdown will start on Tuesday, October 4, 2016 1:21:46 AM.

Close

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The device will be restarted automatically when the time period elapses.

To restart the end-point at user's convenience

- Choose 'Warn about the reboot and let users postpone it.
- Enter the message to be displayed to the user in the 'Reboot message' field.
- Click 'Send message and reboot'

The message will be displayed at the device as shown below:

Your device needs a reboot because it's required by your administrator
Remind me in 10 minutes
Reboot now Postpone

• The user can choose to restart the endpoint immediately by clicking 'Reboot now' or postpone the restart operation by selecting the period from the 'Remind me in' drop-down and clicking 'Postpone'.

To restart several devices at once

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - · Select 'Show all' to view every device added to EM
 - Select the target Windows devices to be restarted
- Click 'Reboot' from the options at the top or click 'More' and choose 'Reboot' from the options

<u>،</u> ه Group Management Device Management 20 • **G**; C =C Install or Update Refresh Devi Enroll Device Remote Tools Run Procedure Manage Profiles Remote Control Rebn Aore BETA Packages Info Search for devices H STATUS **0**S NAME . ACTIVE COMPONENTS PAT CUSTOMER OWNER LA \odot Saddle and P... 副目目 AG AV DESKTOP. Herald DESKTOP. AG AV FW CO \odot frontfork herculespopu. Reboot × Reboot options Force the reboot in 5 minutes Warn about the reboot and let users postpone it Reboot message Your device will reboot in 5 minutes because it's required by your administrator Send message and reboot

· Configure your reboot options in the 'Reboot' dialog

To restart the end-points after a certain period of time

- Choose 'Force the reboot in' and select the delay period.
- · Click 'Send message and reboot'

The message will be displayed at the device as shown below:

You're about to be signed out

Windows will shut down in 2 minutes.

Shutdown will start on Tuesday, October 4, 2016 1:21:46 AM.

Close

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The device will be restarted automatically when the time period elapses.

To restart the end-point at user's convenience

- Choose 'Warn about the reboot and let users postpone it'.
- Enter the message to be displayed to the users in the 'Reboot message' field.
- Click 'Send message and reboot'

The message will be displayed at the devices as shown below:

Your device needs a reboot because it's required by your administrator
Remind me in 10 minutes
Reboot now Postpone

• Users can choose to restart their endpoints immediately by clicking 'Reboot now'. They can delay the restart by selecting a time-period from the 'Remind me in...' drop-down and clicking 'Postpone'.

5.2.24. Change a Device's Owner

Endpoint Manager allows you to assign device ownership from one user to another user.

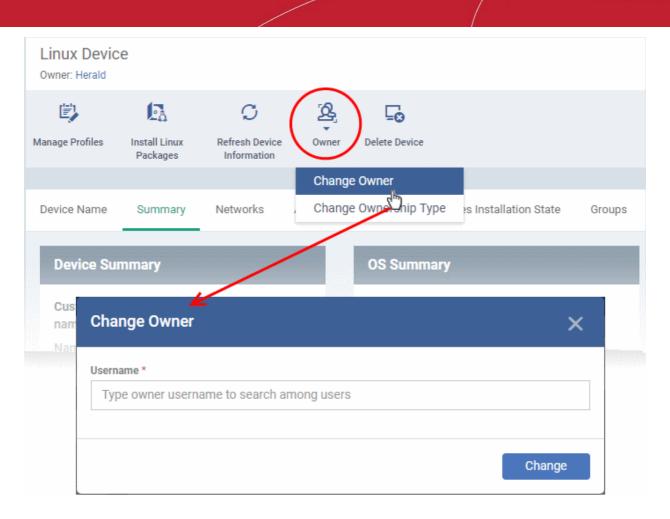
- Change ownership of a single device
- Assign multiple devices to single owner at-once

To change the device ownership of a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Click the name of the device whose ownership is to be changed

The 'Device Details' interface opens.

- Click 'Owner' from the options at the top or click 'More' and choose 'Owner' from the drop-down
- Select 'Change Owner' from the options
- Start typing the first few characters of the name of the new user to whom the device is to be assigned and choose the user from the options
- Click 'Change'



The ownership of the device will be changed to the new user. The configuration profiles in effect on the device, associated with the previous user and the user group to which the previous user is a member, will be removed and the profiles, pertaining to the new user and the user group to which the new user is a member, will be applied to the device.

To assign several devices to a user at-once

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Select the target devices to be associated with a new user

Tip: You can change devices pertaining to different users to be assigned to a single new user.

- · Click 'Owner' from the options at the top or click 'More' and choose 'Owner' from the drop-down
- Select 'Change Owner' from the options

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، в	Gro	up Management	Device N	lanagement							
<u>Le</u>	1		21	2	E)	Ð	C	2	2	M	•••
Enroll (evice)	Remote Control	Remote Tools	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Information	Reboot	Owner	Send Messa	ge More
Q	Search	for devices							Change	e Owner Ownership	>
	OS	NAME •		ACTIVE	COMPONENTS	PATCH STATUS	CUSTOMER		OWNER		LAST ACTIV
	۵	Linux De	wice	AG AV			Saddle and Pe	dals	Herald		2018/1 0/30
		LENOVO	Lenovo	AG AV			frontfork		Avanti		2018/ 10/30
		Change (Owner							×	
		Username *									
		Type own	ner userna	ime to seai	rch among u	isers					
									Char	nge	

- Start typing the first few characters of the name of the new user to whom the device is to be assigned and choose the user from the options
- Click 'Change'

All selected devices will be assigned to the new user. The configuration profiles in effect on the device, associated with the previous users and the user groups to which the previous users are members, will be removed and the profiles, pertaining to the new user and the user group to which the new user is a member, will be applied to the device.

5.2.25. Change the Ownership Status of a Device

- Admins can set the ownership status of a device depending on whether it belongs to a user or to the company.
- There are three ownership types 'Personal', 'Corporate' and 'Not Specified'. The ownership type is listed in the 'Summary' tab of the device configuration area.
- By default, any new device enrolled to Endpoint Manager will have an ownership status of 'Not Specified'.
- Ownership types do not have any impact on device security policy or how the device is treated by EM. It is a just a descriptive label which allows admins to more easily identify and group devices.

The following sections explain more about:

- Changing ownership status of a single device
- Changing ownership status of several devices at-once

To set the ownership status of a single device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - · Select a company or group on the left to view only their devices



Or

- Select 'Show all' to view every device added to EM
- Click the name of the target device whose ownership status you wish to change.

The device details interface opens.

Dyanora Sa Owner: joesmith							
E Manage Profiles	Siren	Send Message	C Refresh Device Information	O Wipe / Corporate	Passcode	Delete Device	Quiner Quiner
		-					Change Owner Change Ownership Type
Cha	ange C)wnership ⁻	Туре 🗲				×
01	Not spec Personal Corporat	I					
							Change

- Click 'Owner' from the options at the top or click 'More' and choose 'Owner' from the drop-down
- Select 'Change Ownership Type' from the options
- Choose the ownership type from the following options:
 - Personal
 - Corporate
 - Not Specified
- Click 'Change'.

To set the ownership status of several devices at-once

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab above the control buttons
 - Select a company or group on the left to view only their devices Or
 - Select 'Show all' to view every device added to EM
- Select the devices whose ownership status you wish to change.
- Click 'Owner' from the options at the top or click 'More...' and choose 'Owner' from the drop-down
- Select 'Change Ownership Type' from the options

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i G	roup Management	Device N	lanagement					
P		20	7	e 3	Ð	C	(逸
noll Device	e Remote Control	Remote Tools	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Information	Reboot	Owner More
🔎 Sea	rch for devices							Change Owner
								Change Ownership Typ
0	S▲ NAME		ACTIVE COMP	PONENTS PA	TCH STATUS	CUSTOMER	OWNER	LAST ACTIVITY
	🏥 💿 Dyanora	Sa	AGAV			Saddle and B.d	joesmith	2018/10/30 12:09
J	ENOVO)_Le_	AG AV		/	frontfork	Avanti	2018/10/30 12.14
	DESKTO	P-D: 🥞	AG AV FW	co		frontfork	herculespopula	r 2018/07/12.04.39
	Change	Ownersl	пір Туре					×
	Not spe	cified						
	O Persona							
	O Corpora	ate						
							С	hange

- Choose the ownership type to be assigned to the selected devices and click 'Change'. The available options are:
 - Personal
 - Corporate
 - Not Specified

5.2.26. Generate Device List Report

- You can create a report on all managed devices listed in the 'Device Management' table.
- The report contains operating system details, hardware details, last activity, CCS configuration, resource usage and more for each device.
- You can apply filters the report only contains the information you need.

Generate a device list report

• Click 'Devices' > 'Device List' > 'Device Management'

, ¹ 6	Grou	up Management	Device M	anagement											
Eccol Der		<u>.</u>	70	(L) Manage Profiles	instali or Update	C) Refrects Devi	en Rebeer	2 Owner	Send Message	Passode	⊈) Shen) Wipe / Companie	Delete Device	ta Copert	
		th for devices	Ran Processie	Manage Promes	Packages	Information		UNIE	and message	Passooga	(Januari)	mpe / corporare	Desite Device	Laport	0 1
D	os	NAME			ACTIVE COMP	ONENTS	PATCH STATUS	СОМРА	NY		OWNER			LAST ACTIVITY	
		 citeal-3 	100	4	NG NV [TW	co	<mark>▲</mark> 2	kamal			kamalgy	opmail.com		2018/04/19 10:31:15 AM	
		• DESKTO	P-FRCUSGJ				▲ 1	kamal			kamal@y	opmail.com		2018/04/20 02:57:08 PM	
	11	DESKTO	P-81RSI00	4	AS AV FW	60	12 12	kamal			kamalĝy	opmail.com		2018/04/17 01:52:14 PM	
(B)		e C1-Mac			143 AV			kamal			kamalgy	opmail.com		2018/04/16 04:26:54 PM	

- Apply any filters that you require.
- Click 'Export' > 'Export to CSV' or click 'More' > 'Export' > 'Export to CSV':



A confirmation message is shown:

Report has been created. Please, check «<u>Reports</u>» in dashboard

See 'Reports' in 'Dashboard' for more information on how to view and download reports.

5.3. Bulk Enrollment of Devices

- The 'Bulk Enrollment Package' interface allows you to:
 - Download the communication client package which lets you bulk-enroll Windows and Mac devices from Active Directory. You can also manually install the agent on devices if you wish to enroll them offline.
 - Download the Remote Control (RC) tool for remote desktop management of Windows and Mac OS devices For help to download and install the RC tool, see Download Remote Control Tool.
- Click 'Devices' on the left then choose 'Bulk Enrollment Package'

Endpoint Manager allows bulk enrollment of Android, iOS, Windows and Mac OS devices in the following ways:

Windows and Mas OS devices:

- Admins can download the EM communication client installer package and create a group policy object (GPO) on an AD server to install the package on endpoints which have been added to the AD domain.
- Alternatively, devices can be enrolled by using Auto Discovery and Deployment Tool (ADDT), or by manual
 installing the client on endpoints.

Once the agent is installed, it communicates with your EM portal and enrolls the device automatically. See the following sections for more details:



- Enroll Windows and Mac OS Devices by Installing the EM Communication Client Package
 - Enroll Windows Devices Via AD Group Policy
 - Enroll Windows and Mac OS Devices by Offline Installation of Agent
 - Enroll Windows Devices using Auto Discovery and Deployment Tool

Android and iOS Devices:

.

- Bulk enrollment of iOS and Android devices is possible for devices belonging to users that were imported to EM via Active Directory integration. Help to import users from AD is available in Import User Groups from LDAP.
- After importing the users, Android devices can be enrolled by installing the agent. iOS devices can be enrolled by deploying a configuration profile.

For help to bulk enroll iOS and Android devices, see Enroll Android and iOS Devices of AD Users.

5.3.1. Enroll Windows and Mac OS Devices by Installing the EM Communication Client Package

Endpoint Manager requires a communication client (a.k.a 'agent') to be installed on each managed Windows and Mac OS device to enable communication with the EM Central Service Server. The following options are available:

- For individual devices, the agent will be automatically installed during enrollment and will establish a connection to the server. See Enroll Windows Endpoints and Enroll Mac OS Endpoints for more details.
- Administrators can manually enroll devices by downloading the installation package from EM and installing it on a target device.
- Administrators can bulk enroll devices by downloading the agent package from EM and creating a software installation group policy for their Active Directory (AD) server.
- Comodo One and ITarian customers Admins can bulk enroll devices using the 'Auto Discovery and Deployment Tool'.
 - Login to your Comodo One or ITarian account
 - Click 'Tools'
 - Click 'Download' in the 'Auto Discovery and Deployment Tool' tile to download the tool
 - See Enroll Windows Devices using Auto Discovery and Deployment Tool for help to configure the tool.

The 'Bulk Installation Package' interface allows you to download the agent and communication client packages for offline installation and for installation via Active Directory rules. The package can be configured to include Comodo One Client Security (CCS) and to apply selected configuration profiles to target devices.

- Click 'Devices' > 'Bulk Installation Package'.
- Select the 'Bulk Installation Package' tab.

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Endpoint Manager	= Bulk Installation Package License Options ② 各 Logout (herculespopular22@gmail.com)
DASHBOARD >	
DEVICES	Bulk Installation Package Remote Control by ITarian
Device List	User *
Bulk Installation Package	herculespopular22@gmail.com
<u>A</u> USERS >	By default, an installation package will be prepared for the logged in user. If you would like to change the user, please input the corresponding user name into the
CONFIGURATION TEMPLATES	field above.
APPLICATION STORE	Customer * frontfork
APPLICATIONS >	Device group
SECURITY SUB-SYSTEMS	Default Group - frontfork
🔅 SETTINGS >	Package Options
	Choose operating system
	Windows x64
	Choose clients
	Communication Client
	Comodo Client - Security
	Additional options

You can download MSI/MST packages for deployment via AD server and a .EXE package for offline installation to individual endpoints. See the following sections for more details:

- Enrollment of Windows Devices Via AD Group Policy.
- Enrollment of Windows and Mac OS Devices by Offline Installation of Agent
- Enrollment of Windows Devices using Auto Discovery and Deployment Tool

5.3.1.1. Enroll Windows Devices Via AD Group Policy

- Enrollment via Active Directory (AD) group policy lets you add devices in bulk
- You need to download and install the EM communication client package and, if required, the transformed MST installation file. You then need to add these items to the GPO.
- The MST file includes details of the proxy that the communication client (CC) and CCS should use to connect to EM and Comodo servers.
- All devices enrolled by bulk installation through AD rules will be assigned to the currently logged-in
 administrator by default. If required, administrators can specify a different user to whom the devices should
 be assigned during the package download process.
- You can re-assign the devices to the correct owners from the 'Devices' interface at a later time. See Change a Device's Owner for more details.

Note: The AD method only allows you to install communication client (CC) on target endpoints. You can remotely install the endpoint security software, Comodo Client - Security (CCS), at a later time from the EM interface. See **Remotely Install and Update Packages on Windows Devices** for more details.

To download the installation package

Click 'Devices' > 'Bulk Installation Package'

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Select the	'Bulk	Installation	Package'	tab
------------	-------	--------------	----------	-----

•

	Installation Package Remote Control by ITarian	
U	iser *	
	herculespopular22@gmail.com	
W	y default, an installation package will be prepared for the logged in user. If you ould like to change the user, please input the corresponding user name into the eld above.	
с	ustomer *	
	frontfork	
D	evice group	
	Default Group - frontfork	
F	Package Options	
С	hoose operating system	
	Windows x64 🗸	
С	hoose clients	
	Communication Client	
C	Comodo Client - Security	
	dditional options	
c	onfirmation message	
	li li	
	Download Installer	
	By downloading these files you automatically agree with «End	
	User License Agreement.»	
F	Proxy settings	
P	roxy host *	
	Proxy host	
P	roxy port *	
	Proxy port	
	Proxy login	
	Proxy login Proxy password	

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Endpoint Manager - Administrator Guide

Bulk Installation Package - Form Parameters					
Parameter	Description				
User	Devices that are enrolled by installing the agent through AD Group Policy are assigned to the currently logged-in administrator by default. If you want the devices to be assigned to a different user, specify the user. • Start typing the name of a user and choose from the suggestions that appear.				
Compony					
Company	 Choose the customer organization to which the endpoints should be assigned. This field only applies to C1 MSP and ITarian MSP customers. It does not apply to C1 Enterprise, ITarian Enterprise or EM stand-alone customers. 				
Device Group	The device group to which the enrolled devices should be added (optional).				
	Any group profiles will also be applied to the devices you add.				
	See Assign Configuration Profiles to a Device Group if you want more help with this.				
Package Options	 Operating system - Choose the OS of the target endpoints. Clients: Communication Client (CC) - Mandatory. This client enrolls the endpoint. Comodo Client Security (CCS) - Optional. This client installs security software such as antivirus, firewall and auto-containment. To create an installation package in MSI/MST file format for bulk enrollment through AD Group Policy, leave only the 'Communication Client' selected and 'Comodo Client Security' unselected. You can remotely install CCS at a later time on required endpoints from the EM. See Remotely Install and Update Packages on Windows Devices for more details. The rest of the configuration options related to CCS will not be enabled, if 'Security' is not selected under 'Comodo Client'. 				
Proxy Settings	 Proxy settings allows you to specify a proxy server through which Comodo Client Security (CCS) and the communication client (CC) on the endpoints should connect to EM management portal and Comodo servers. If you choose not to set these, then CCS and CC will connect directly as per the network settings. Enter the IP address/hostname of the proxy server and port in the respective fields. Enter the user-name and password of an administrative account on the proxy server in the Proxy Login and Proxy Password fields 				
	Note: If proxy is used then it is mandatory to configure the same proxy settings in client proxy settings in the profile(s) applied to the enrolled devices.				

 Click 'Download Default MSI' to download the agent setup file for installation via Group Policy Object (GPO),

The agent package will be downloaded in .msi format. You can transfer the file to the required network location and create a software installation policy for deployment to network endpoints. Once the agent is installed, it establishes communication with the EM server to begin importing the device.

• To download the installation file to include a proxy server for CC and CCS communication to EM and Comodo servers, click 'Download MST File'

EM will create a .mst transform file containing the proxy server installation commands. As above, you can save the file on the AD server from where you want to enroll the endpoints, and add to the GPO created for .msi file. After the agent is installed, it will establish communications with EM via the configured proxy servers to begin importing the device.

For more details about how to create a GPO for bulk enrollment see https://help.comodo.com/topic-399-1-856-11229-EM---Bulk-Enrollment-via-Active-Directory.html.

Upon successful enrollment, any configuration profiles assigned to the user and groups to which the user belongs will be automatically applied to the devices.

Tip: For more details on creating Group Policy Object for remote installation of software, please refer to https://support.microsoft.com/en-us/kb/816102.

5.3.1.2. Enroll Windows and Mac OS Devices by Offline Installation of Agent

Admins can download an installation package containing the communication client and the Comodo Client - Security (CCS) software for offline installation. This is useful for endpoints which could not be reached by EM for autoinstallation of the agent during enrollment.

EM allows administrators to specify the user to whom the enrolled device should be assigned and the initial configuration profile to be applied to the device. This will provide you with a package which is pre-configured for the user and the device.

Prerequisite - The end-user of the device should have been already added to EM. Admins can download installation packages only for existing users.

To download the installation package

- Click 'Devices' > 'Bulk Installation Package'
- Select the 'Bulk Installation Package' tab



	Remote Control by ITarian	
User *		
herculespopular22@	gmail.com	
By default, an installation page	ckage will be prepared for the logged in user. If you r, please input the corresponding user name into the	
Customer *		
frontfork		
Device group		
Default Group - front	fork	
Package Option	ns	
Choose operating system		
Windows x64	~	
Choose clients		
Communication Cli	ent	
Comodo Client - Se		
Additional options		
Confirmation message		
	Download Installer	
	Download installer	
By downloading t	hese files you automatically agree with «End	
of someoung t	User License Agreement.»	
of someoung t	User Electise Agreement.»	
	User Livense Agreement.»	
Proxy settings	User Livense Agreement.»	
Proxy settings Proxy host *	User Electise Agreements	
Proxy settings Proxy host * Proxy host	User Electise Agreements	
Proxy settings Proxy host * Proxy host Proxy port *		
Proxy settings		
Proxy settings Proxy host * Proxy host Proxy port *		
Proxy settings Proxy host * Proxy host Proxy port * Proxy port		

	Bulk Installation Package - Form Parameters
Parameter	Description
User	Specify the user to whom the target endpoints are assigned.Start typing the name of a user and choose from the suggestions that appear.
Company	 Choose the customer organization to which the endpoints should be assigned. This field only applies to C1 MSP and ITarian MSP customers. It does not apply to C1 Enterprise, ITarian Enterprise or EM stand-alone customers.
Device Group	The device group to which the enrolled devices should be added (optional). Any group profiles will also be applied to the devices you add.
Package Options	 See Assign Configuration Profiles to a Device Group if you want more help with this. Operating system - Choose the OS of the target endpoints. Clients: Communication Client (CC) - Mandatory. This client enrolls the endpoint. Comodo Client Security (CCS) - Optional. This client installs security software such as antivirus, firewall and auto-containment. Additional Options: Enrollment Link - This field is available if you select Mac OS as the operating system. This is pre-populated with the URL to download the configuration profile pertaining to the selected company and group. Database - Choose whether to include the latest virus database with the installation package. This increases file size. If disabled, the client will download the latest database anyway when you run the first scan. Profile - Choose a configuration profile for the endpoints (optional). Type the first few characters of a profile and choose from the suggestions that appear.
	If you do not choose a profile then the default profiles for the operating system will be applied. Tip: You can add or remove profiles later. See View and Manage Profiles Associated with a Device for more details.
Restart Control Options	 CCS only. Endpoints need to be restarted to complete CCS installation. You have the following restart options: Force the reboot in Restart the endpoint a certain length of time after installation. Select the delay period from the drop-down. A warning message will be shown to the user prior to the restart. Suppress reboot - Endpoint is not auto-restarted. The installation will be finalized when the user next restarts the endpoint. Warn about reboot and let users postpone it - Shows a message to the user which tells them that the endpoint needs to be restarted. The user can choose when the restart happens. Optional. Type a custom message in the 'Reboot Message' field.
UI Options	 Configure which messages are shown to the user regarding the installation. Show error messages if installation failed - Notifies the user if the installation is not successful.

		• Show a confirmation message upon completion of installation - Notifies the user if the installation is successful. Type your message in the box provided.
Proxy	' Settings	Leave these blank as these settings are not required for the offline installation package.

Click 'Download Installer'.

For Windows Devices

Endpoint Manager will create a custom installation file in .msi (if only agent is selected) or .exe format (if both agent and CCS are selected) for installation on to the user's device. Administrators should transfer the file to the target device for manual installation. Upon successful installation, CCS will be applied with the chosen profile irrespective of the online status of the endpoint(s). Once connected the agent will establish communication with the EM server and the device will be automatically enrolled.

For Mac OS Devices

Endpoint Manager will create a custom installation file in .pkg format for installation on to the user's Mac OS devices. Admins should transfer the file to the target device for manual installation. After successful installation of agent and CCS, administrators should forward the **enrollment link** to the end user for installing the configuration file. The link should be clicked from the user's device for installing the configuration profile. Mac OS devices will be enrolled to EM only after both the agent and the configuration profile are installed on the devices.

5.3.1.3. Enroll Windows Devices using Auto Discovery and Deployment Tool

- You can use the auto-deployment tool to install the Endpoint Manager communication and security clients on target endpoints.
- By installing the clients you will enroll the endpoints to Endpoint Manager.
- · You first need to create client installation files using the 'Bulk Installation Package' interface in 'Devices'

Note - The user of the device should already have been added to EM. You can download installation packages only for existing users.

To download ADDT and installation packages

- Click 'Devices' > 'Bulk Installation Package'
- Each installation package is custom-created for a specific user, customer, group, operating system etc.
- You will complete the fields in the form to generate your custom package:



User *
herculespopular22@gmail.com
By default, an installation package will be prepared for the logged in user. If you would like to change the user, please input the corresponding user name into the field above.
Customer *
frontfork
Device group
Default Group - frontfork
Package Options
Choose operating system
Windows x64
Choose clients
Communication Client
Comodo Client - Security
Additional options
Confirmation message
li,
Download Installer
Du develorading these files you submetically agree with End
By downloading these files you automatically agree with «End User License Agreement.»
Proxy settings
i loxy settings
Proxy host *
Proxy host
Proxy port *
Proxy port
Proxy login

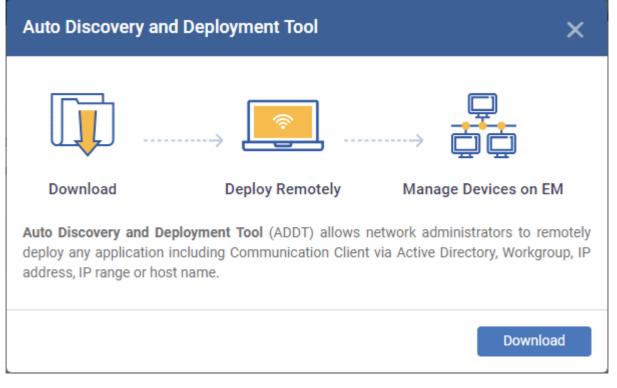
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	Bulk Installation Package - Form Parameters	
Parameter	Description	
User	 Specify the user to whom the target endpoints are assigned. Start typing the name of a user and choose from the suggestions that appear. 	
Company	 Choose the customer organization to which the endpoints should be assigne This field only applies to C1 MSP and ITarian MSP customers. It do not apply to C1 Enterprise, ITarian Enterprise or EM stand-alone customers. 	
Device Group	The device group to which the enrolled devices should be added (optional). Any group profiles will also be applied to the devices you add. See Assign Configuration Profiles to a Device Group if you want more help with this.	
Package Options	 Operating system - Choose the OS of the target endpoints. Clients: Communication Client (CC) - Mandatory. This client enrolls the endpoint. Comodo Client Security (CCS) - Optional. This client installs security software such as antivirus, firewall and auto-containment. Additional Options: Enrollment Link - This field is available if you select Mac OS as the operating system. This is pre-populated with the URL to download the configuration profile pertaining to the selected company and group. Database - Choose whether to include the latest virus database with the installation package. This increases file size. If disabled, the client will download the latest database anyway when you run the first scan. Profile - Choose a configuration profile for the endpoints (optional). Type the first few characters of a profile and choose from the suggestions that appear. If you do not choose a profile then the default profiles for the operating system will be applied. Tip: You can add or remove profiles later. See View and Manage Profiles Associated with a Device for more details. 	
Restart Control Options	 CCS only. Endpoints need to be restarted to complete CCS installation. You have the following restart options: Force the reboot in Restart the endpoint a certain length of time after installation. Select the delay period from the drop-down. A warning message will be shown to the user prior to the restart. Suppress reboot - Endpoint is not auto-restarted. The installation will be finalized when the user next restarts the endpoint. Warn about reboot and let users postpone it - Shows a message to the user which tells them that the endpoint needs to be restarted. The user can choose when the restart happens. Optional. Type a custom message in the 'Reboot Message' field. 	

UI Options	 Configure which messages are shown to the user regarding the installation. Show error messages if installation failed - Notifies the user if the installation is not successful. 		
	 Show a confirmation message upon completion of installation - Notifies the user if the installation is successful. Type your message in the box provided. 		
Proxy Settings	Leave these blank as these settings are not required for offline installation packages.		

- Click 'Download Installer' when you have completed the form.
- You will now download TWO items:
 - 1. The installation package. This will have a name like 'installer_2dr846534e83.exe'
 - 2. The Auto-Deployment tool (ADDT). This tool helps you deploy the installation package to your network:



ADDT is a portable app which does not require installation. ADDT lets you deploy the clients via Active Directory, Workgroup or network address.

- Comodo One customers For more details about how to deploy applications via ADDT, visit https://help.comodo.com/topic-289-1-851-11043-Introduction-to-Comodo-Auto-Discoveryand-Deployment-Tool.html.
- ITarian customers For more details about how to deploy applications via ADDT, visit https://help.comodo.com/topic-452-1-955-13345-Introduction-to-Auto-Discovery-and-Deployment-Tool.html

5.3.2. Enroll the Android and iOS Devices of AD Users

- This section explains how to enroll the devices of users who were imported from Active Directory. See **Import User Groups from LDAP** if you need help to import users first.
- Setup involves installing the communication client on the user's device. After installation, the user should



login to the client using their domain username and password.

• Please follow the steps below to import the devices:

Get the enrollment links

Import Android devices

Import iOS devices

Get the enrollment links

- Click 'Devices' > 'Device List' on the left
- Click the 'Enroll Device' button above the table

Or

Click the 'Add' button on the menu bar and choose 'Enroll Device'.

Endpoint Manager						Licens	e Options 👩
DASHBOARD	>						
DEVICES	~	Ø Search group name	< ¹ 6	Group	Manageo	4	Create User
Device List		Ri Show all	G			-	Enfoll Device
Bulk Installation Package		+ 🖨 Default Customer	Enroll D		emote Corn:		()
A USERS	>	+ 🖶 Fork Springs Regional Tr					0
CONFIGURATION TEMPLATES	>	+ 🖨 frontfork	P s	search f	or device		
	>	+ 🖨 Saddle and Pedals		os	NAME		
APPLICATIONS	>						
SECURITY SUB-SYSTEMS	>				Here		
-Ö- SETTINGS							

Click 'Show Enrollment Instructions' in the enroll devices dialog:

Enroll Devices	×
Please choose the device owner(s) herculespopular22@gmail.com(frontfork) ×	
Show enrollment instructions	Email enrollment instructions
Snow enrollment instructions	Email enrollment instructions

• Scroll down the section 'Or enroll Active Directory Services':



Enroll Device

Make sure that you selected the operating system of the device that you want to enroll.

For Windows devices

Enroll using this link: https://frontfork-frontforkmsp.dmdemo.comodo.com:443/enroll/windows/msi/token/c0d79905564935390076bff051546b41

For macOS devices

1) Open the following link on the browser of the device you want to enroll https://frontfork-f

 When you have installed *itsm.mobileconfig* file, use this link to download and install Communication Client application: <u>https://static.dmdemo.comodo.com/download/itsmagent-installer.pkg</u>

For iOS devices

1) Open the following link on the browser of the device you want to enroll https://frontfork-frontfork-

Use the following settings:

Port: 443

Token: c0d79905564935390076bff051546b41

Or enroll active directory devices

For Windows devices

https://help.comodo.com/topic-399-1-856-11229-ITSM-%E2%80%93-Bulk-Enrollment-via-Active-Directory.html

For Apple devices

Enroll using this link: https://frontfork-msp.dmdemo.comodo.com:443/enroll/apple/login

Use the login and password of your domain.

For Android devices

Download and install Communication Client tapping the following link: https://play.google.com/store/apps/details?id=com.comodo.mdm

Upon completion of the installation, enroll using this link: <u>https://frontfork-msp.dmdemo.comodo.com:443/enroll/android/login</u>

Use the login and password of your domain.

- You next need to send your target users the appropriate setup links for their device operating system.
- They should open the links on the target device itself



See either Import Android devices or Import iOS devices for help with each OS

Android Devices:

- Email the Android client download and enrollment links to target users
- Target users should open the mail on the device you want to enroll
- First click the agent download link then install the client on the device.
- After installation is complete, the user should next open the enrollment link.
- This will open the Endpoint Manager login page. Users can login with their domain username and password:

COMOI Login	≌ "⊪ 98% ∎ 16:57
PIN CODE	AD CREDENTIALS
Login	
Password	
LC	DGIN

• After agreeing to the EULA, the user should hit 'Activate' to grant admin privileges to the communication client:



🔍 🗖



← Device administrator



Comodo Client

Activating administrator will allow Comodo Client to perform the following operations:

Erase all data

Erase the phone's data without warning by performing a factory data reset.

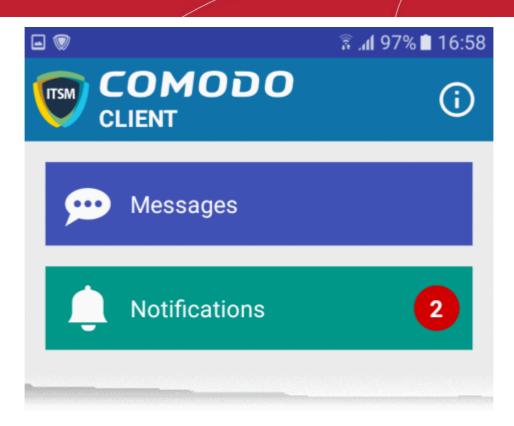
- Change the screen lock Change the screen lock.
- Set password rules
 Control the length and the characters
 allowed in screen lock passwords and
 PINs.
- Monitor screen-unlock attempts
 Monitor the number of incorrect passwords
 typed when unlocking the screen and lock
 the phone or erase all the phone's data if
 too many incorrect passwords are typed.
- Lock the screen Control how and when the screen locks.
- Set screen lock password expiry Change how frequently the screen lock password, PIN or pattern must be changed.

CANCEL

ACTIVATE

After activation, the client will open at the home screen :

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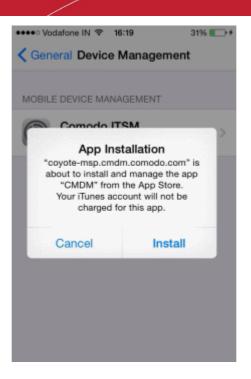
• The device is now enrolled and can be remotely managed from the Endpoint Manager console.

iOS Devices:

- iOS users first need to install a device profile, then install the Endpoint Manager app.
- Email the Apple enrollment link to all target users. Users should open the mail on the device you want to enroll.
- Users should open the link to download and install the enrollment profile:

●●●●○ Vodafon	e IN ᅙ 16:12		26% 💽 🗲
Cancel	Install Pro	file	Install
	Comodo ITS		
Signed by	*.cmdm.comodo.	.com	
Description	Configuration IT	and Securit	y Manager
Containa	Device Enrollmer	t Challeng	-

- Users should follow the wizard to complete profile installation.
- The Endpoint Manager login page will appear when installation is complete. Users should login with their domain username / password.
- The device will connect to Endpoint Manager and commence the app installation process:



- User should select 'Install'. The app is downloaded from the iTunes store account. Users may need to login with their Apple ID for the download to commence.
- After installation, users should open the green 'Run After Install' icon:



· User should next accept the EULA to complete device enrollment:

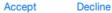
No Service 후 18:45

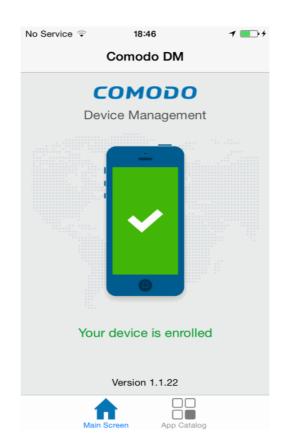
END USER LICENSE AGREEMENT AND TERMS OF SERVICE

COMODO DEVICE MANAGEMENT VERSION 4.5

THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE.

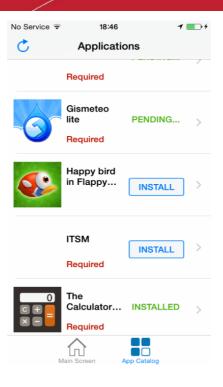
IMPORTANT - PLEASE READ THESE TERMS CAREFULLY BEFORE USING THE COMODO DEVICE MANAGEMENT SOFTWARE (THE "PRODUCT"). THE PRODUCT MEANS ALL OF THE ELECTRONIC FILES PROVIDED BY DOWNLOAD WITH THIS LICENSE AGREEMENT. BY USING THE PRODUCT, OR BY CLICKING ON "I ACCEPT" BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, THAT YOU UNDERSTAND IT, AND THAT YOU AGREE TO BE BOUND BY ITS TERMS. IF YOU DO NOT AGREE TO THE TERMS HEREIN, DO NOT USE THE SOFTWARE, SUBSCRIBE TO OR USE THE SERVICES, OR CLICK ON "I ACCENT





App Catalog - Shows Endpoint Manager apps that are ready to be installed:

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5.3.3. Download and Install the Remote Control Tool

- The Remote Control (RC) tool allows admins and staff to remotely take control of managed Windows and Mac OS endpoints.
- This is useful in a number of circumstances, including troubleshooting, running system maintenance and providing training to users.
- You can download the tool from Endpoint Manager or the Comodo One / ITarian consoles:
 - EM interface Click 'Devices' > 'Bulk Enrollment Package' > 'Remote Control by ITarian'.
 - C1 or ITarian Console Click 'Tools' > Click 'Download' in the 'Remote Control by ITarian' tile.
- The tool should be installed on your admin computer (the computer from which you want to control the remote endpoints).
- Once installed, the tool can be started from the desktop application or from the EM admin console.
- See Remote Management of Windows and Mac OS Devices for more help to takeover Windows and Mac OS devices

Limitations:

- The remote control tool uses WebRTC and Chromoting protocols to connect to Windows devices. It uses
 the Chromoting protocol alone to connect to Mac OS devices.
- Chromoting is supported by MAC OS and by Windows 7, 8/8.1, 10. It is not support by Windows XP.
- WebRTC is not supported by Mac OS

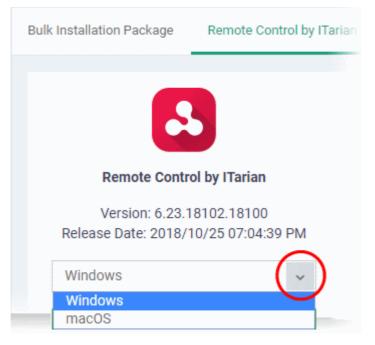
Download RC from EM interface

- Click 'Devices' > 'Bulk Installation Package'.
- Select the 'Remote Control by ITarian' tab

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Endpoint Manager	<u>Bulk Installation Package</u> / Remote Control by ITarian	
DASHBOARD >		
DEVICES ~	Bulk Installation Package Remote Control by ITarian	
Device List		
Bulk Installation Package		
<u>A</u> users >		
CONFIGURATION TEMPLATES	Remote Control by ITarian	
APPLICATION STORE >	Version: 6.23.18102.18100 Release Date: 2018/10/25 07:04:39 PM	
APPLICATIONS >	Windows	
SECURITY SUB-SYSTEMS		
🔅 SETTINGS >	Download	

• Select the OS of the computer on which you want to install the tool.



• Click 'Download' and save the setup file.

Download RC from Comodo One or ITarian Console

- Comodo One customers Login to your Comodo One account
- ITarian customers Login to your Comodo One account
- Click 'Tools' from the top

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- The 'Tools' area is a repository of enterprise productivity and security tools
- Click the 'Download' button in the 'Remote Control for ITarian' tile

	8	
	Remote Control by ITarian	
	Windows Version: 6.23.18102.18100 Mac OS Version: 6.23.18093.18100 Downloads: 111	
k	Info 📥 Download	
Download		×
Please select o	operating system.	
Windows		
Windows		
Mac OS		
		Download

The 'Download' dialog will appear.

• Select the operating system of your admin machine. Click 'Download' and save the setup file.

To install the tool

• Launch the set up file to start the installation wizard:

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Remote Control by ITarian Setup	×
Remote Control by ITarian	
ITARIAN PLATFORM TERMS AND END USER LICENSE AGREEMENT	^
THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE	
IMPORTANT—PLEASE READ THIS AGREEMENT CAREFULLY BEFORE SUBSCRIBING TO OR USING THE ITARIAN PLATFORM ("THE "PRODUCT" BY SUBSCRIBING TO, ACCESSING OR USING THE PRODUCT OR BY CLICKING ON "I ACCEPT" BELOW, YOU ACKNOWLEDGE THAT 1) YOU HAVE READ THIS AGREEMENT, 2) YOU UNDERSTAND IT, AND 3) YOU AGREE TO THE TERMS HEREIN. IF YOU DO NOT AGREE TO THE TERMS HEREIN, DO NOT SUBSCRIBE TO OR USE THE PRODUCT AND CLICK "DECLINE" BELOW.).
Version 6.23.18102.18100	
See Install Close	2

• You must read and accept the End User License Agreement before continuing. After doing so, click 'Install' to start the installation.

Remote Control by ITarian Setup	—		×
Remote Control by ITarian			
Installation Successfully Completed			
	unch	<u>C</u> lo	se

• After installation is complete, click 'Launch' to start the application.

😫 Remote Control by ITarian	- 0	×
	ITarian Endpoint Manager E-mail Password	
	💮 Europe 🗸	
	Sign In Stay signed in	
	Forgot Password?	

- Login to the application to start managing Windows or Mac OS endpoints.
 - Comodo One and ITarian customers Click the 'ITarian' tab then login with your Comodo One / ITarian portal username and password
 - Stand-alone Endpoint Manager customers Click the 'Endpoint Manager' tab then enter your Endpoint Manager URL and your login credentials. Your EM URL will use the format https://<your company name>.cmdm.comodo.com, where <your company name> is your EM company name.
- See Remote Management of Windows and Mac OS Devices for more details on using the desktop application.

6.Configuration Templates

The 'Configuration Templates' section lets you create and manage profiles for Android, iOS, Mac, Windows and Linux devices.

- Each profile lets you to specify a device's network access rights, overall security policy, antivirus scan schedule and other settings.
- Once created, profiles can be applied to devices/device groups and users/user groups.
- You can also add procedures and monitors to a profile (Windows devices only).
 - Procedures let you automate a range of tasks on your protected endpoints. Example procedures include patch installation, disk de-fragmentation and so on. Procedures can also be deployed as stand-alone instructions.
 - Monitors are scripts which track events on your endpoints and take specific actions if their conditions are met. For example, 'Alert me when a USB removable disk is connected to the system', or 'Create a log entry if CPU usage goes above 75% for a certain length of time'.
- Alerts You can configure monitors to generate alerts if their conditions are met.
 - The 'Alerts' area contains templates which specify general settings for those alerts.
 - For example, 'Create a ticket on service desk', 'Create a notification in the portal', 'Send a
 notification to the following users'.
 - · You can create different alert templates and apply them to different monitors as required.

Endpoint Manager		≡	Profil	es					
DASHBOARD	>								
DEVICES	>		Profile	s	Default	Profiles			
A USERS	>		ţ		Ē	E∎		Ē	
CONFIGURATION TEMPLATES	\sim		Create		Import	Export Profile	Clone Pro	file Delete Prof	file Ex.
Profiles				OS	NAME			CREATED BY	
Alerts				00	1 Allin	-		UNEATED DT	
Procedures				ı	Andro	id Devices in Sa	les Dept.	herculespopula	ar22@gn
Monitors									
APPLICATION STORE	>			 	Andro	id - Security Lev	el 1 Pr	admin	
	>				Defau	It Profile for Win	dows	herculespopula	
SECURITY SUB-SYSTEMS	>				Defau	It Profile for Win	idows	herculespopula	
	>				File Ra	ating Scan		herculespopul	

The 'Configuration Templates' tab contains four sub sections:

- Profiles A list of every profile added to Endpoint Manager.
 - A profile lets you define a device's security policy, network access rights, antivirus scan schedule and other settings.



- 'Default Profiles' are applied to newly added devices if no user or user group profile exists. Default
 profiles are available for iOS, Android, Mac OS, Windows and Linux devices
- · You can mark custom profiles as 'default' if you wish.
- Profiles can be applied to individual devices/users, device groups and user groups. You can add new profiles, export profiles, and import profiles.
- Alerts Alert templates govern what happens when you receive an alert from a procedure/monitor. For example, an alert template can tell EM to send you a notification if the conditions of a monitor are met.

Unless you change it, the 'Default Alert' settings are applied to new monitors/procedures. Click 'Configuration Templates' > 'Alerts' then click on 'Default Alert' to view these settings. You can also create custom alert templates as required.

See 'Manage Alerts' for more details.

- **Procedures** Contains a list of predefined and custom procedures that can be executed on enrolled devices. Procedures can be run ad-hoc on selected devices or scheduled in a profile to run at set intervals. See 'Manage Procedures' for more details.
- Monitors A monitor is a script which tracks events on your network and takes specific actions if its conditions are met. For example, 'Alert me when a USB removable disk is connected to the system', or 'Create a log entry if CPU usage goes above 75% for a certain length of time'.

You can add a monitor to a Windows profile by adding a 'Monitoring' section. See **Manage Monitors** for more details.

The interface allows the administrator to:

- Create/Import Configuration Profiles
- View the Profiles
- Edit Configuration Profiles
- Manage Default Profiles
- Manage Procedures
- Manage Alerts
- Manage Monitors

6.1. Create Configuration Profiles

- Click 'Configuration Templates' > 'Profiles'
- A configuration profile is a collection of settings which can be applied to devices managed by Endpoint Manager.
- Each profile lets you specify a device's network access rights, overall security policy, antivirus scan schedule and other settings.
- Profiles can be created and managed separately for iOS, Android, Mac OS, Windows and Linux devices.
- Once created, a profile can be applied to an individual device, to a group of devices, to a user, to a user group, or designated as a 'default' profile.
- The 'Profiles' interface lets you create new profiles as well as to edit or delete existing profiles. You can also create new profiles by cloning or importing a profile.

To create a configuration profile

- Click the 'Configuration Templates' > 'Profiles'
- Click 'Create' from the options at the top

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Endpoint Manager	E Profiles	
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
<u>A</u> users >		
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete Profile	
Profiles	Create Android Profile CREATED BY	
Alerts	Create iOS Profile	
Procedures	Create macOS Profile s in Sales Dept. herculespopular22@gr	
Monitors	Create Windows Profile	
	Create Linux Profile	

The 'Create' drop-down lets you add new profiles for Android, iOS Mac OS, Windows and Linux devices.

- You can create as many profiles as you want for different use-cases.
- You can apply multiple profiles to a single device. The most restrictive policy will prevail if there is a conflict in settings.
 - For example, if one profile allows the use of camera and another restricts its use, the device will not be able to use the camera.
- You can create a new Windows profile by defining security settings for each component of Comodo Client Security (CCS). In addition, you can import the current CCS configuration from an endpoint to use as a profile for other endpoints.
- The interface also allows you to export an existing Windows profile in .cfg format. You can import the profile at a later time for re-use or modification.

See the following sections for help with OS-specific profiles:

- Profiles for Android Devices
- Profiles for iOS Devices
- Profiles for Mac OS Devices
- Profiles for Linux Devices
- Profiles for Windows Devices
- Import Windows Profiles

6.1.1. Profiles for Android Devices

Android profiles let you configure a device's network access rights, security restrictions, scan schedule and other settings.

Process in brief:

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' > 'Create Android Profile'
- Type a name and description for your profile then click the 'Create' button. The profile will now appear in 'Configuration Templates' > 'Profiles'.

- New profiles have only one section 'General'. Click 'Add Profile Section' to add settings for various security and management features. Each section you add will appear as a new tab.
- Once you have fully configured your profile you can apply it to devices, device groups, users and user groups.
- You can make any profile a 'Default' profile by selecting the 'General' tab then clicking the 'Edit' button.

This part of the guide explains the processes above in more detail, and includes in-depth descriptions of the settings available for each profile section.

To create an Android profile

- Click 'Configuration Templates' > 'Profiles'
- Click the 'Create' button > 'Create Android Profile':

Endpoint Manager	≡ Profiles	License
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
△ USERS >		Ë _o
CONFIGURATION TEMPLATES V	Create Import Export Profile Clone Pro	file Delete Profile Exp
Profiles	Create Android Profile	CREATED BY
Alerts	Vicate iOS Profile	
Procedures	Create macOS Profile s in Sales Dept.	herculespopular22@gma
Monitors	Create Windows Profile	admin
	Create Linux Profile	

Create Android Profile	×
Name *	
Name	
Description	
Description	
	Create

- Enter a name and description for the profile
- Click the 'Create' button

The Android profile will be created and the 'General Settings' section will be displayed. The new profile is not a 'Default Profile' by default.

dd Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default	
eral	10-11				I Edi
Name *	Il Settings Devices in Purchase Ime of the profile (sh				
Display na					
	-				

- A 'default' profile is one that is applied automatically to any device which matches its operating system. You can have multiple 'default' profiles per operating system.
- Click the 'Make Default' button if you want this profile to be a default.
 - Alternatively, click the 'Edit' button on the right of the 'General' settings screen and enable 'Is Default'.
- Click 'Save'.

Tip: You can set any profile as a default in the 'Profiles' screen. See Edit Configuration Profiles for more details.

The next step is to add profile sections.

- Each profile section contains a range of settings for a specific security or management feature.
- For example, there are profile sections for 'Browser Restrictions', 'Antivirus Settings', 'Network Restrictions', 'VPN' and so on.
- You can add as many different sections as you want when building your device profile.
- To get started:
 - Click 'Add Profile Section'
 - Select the security component that you want to include in the profile:

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Android Devices in	n Purchase l	Dept.	
Add Profile Section	Clone Profile	Delete Profile	E) Make Defaul
Antivirus Settings			
Bluetooth Restrictions	PN Wi-Fi		
Browser Restrictions			
Certificate			
CCM Certificates			
Email	e Dept.		
ActiveSync Settings	hown on the device)		
Kiosk			
Native App Restrictions	and the second second		
	os used by purchai nts or purpose of th	A STORE REPORT	
Passcode			
Restrictions			
VPN			
Wi-Fi			
Other Restrictions			

Note: Many Android profile settings have small information boxes next to them which indicate the OS and/or device required for the setting to work correctly. For example, the following box indicates that the setting supports Android 4+ devices and SAFE 1.0+ (Samsung For Enterprises) devices:

Android 4.0+/SAFE 1.0+

The settings screen for the selected component will be displayed. After saving it will become available as a link at the top.

Android Devices in Purchase Dept. 膨 ά³ 嶹 ËÖ 5 Add Profile Export Profile **Clone Profile** Delete Profile Make Default Section General Antivirus Settings Browser Restrictions **Browser Restrictions** Allow Pop-ups

The following sections explain more about each of the sections:

- Antivirus
- Bluetooth Restrictions
- Browser Restrictions
- Certificate
- CCM Certificates
- Email
- Active Sync
- Kiosk
- Native App Restrictions
- Network Restrictions
- Passcode
- Restrictions
- VPN
- Wi-Fi
- Other Restrictions

To configure Antivirus settings

· Click 'Antivirus Settings' from the 'Add Profile Section' drop-down

The 'Antivirus Settings' screen will be displayed.

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eral	Antivirus Settings	
Ant	tivirus Settings	X Cancel 🕞 Sav
AV s	scanning exclusion list	
A	V scanning exclusion list	+Variables
	Sunday Monday	
	Monday Tuesday	
	Monday	
	Monday Tuesday Wednesday	

	Anti	virus Settings - Table of Parameters
Form Element	Туре	Description
AV scanning exclusion list	Text Field	Allows administrators to add trusted Apps. Trusted apps will be excluded from real-time, on-demand and scheduled Antivirus scans run on the devices. You can add apps installed from the Google Play Store and apps installed through the EM App store.
		• Enter the bundle identifier of the app that you want to exclude from antivirus scanning.
		For more details on getting the bundle identifier for an app, see the explanation given below this table.
		You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
		Click to add more 'AV scanning exclusions list' fields.
		To remove an item from the 'AV scanning exclusion list ' field, click the button beside it.
Automatically terminate malware process	Checkbox	If enabled, any malware process detected during scanning will be terminated immediately on the devices.
Schedule scan	Checkbox	Select if you want to automate the process of antivirus scanning. Select the checkbox beside the day(s) that you want the scheduled scan to run.

• Click the 'Save' button.

The settings will be saved and displayed under the 'Antivirus Settings' tab. You can edit settings or remove the 'Antivirus Settings' section from the profile at anytime. See **Edit Configuration Profiles** for more details.



Obtaining Bundle/Package Identifier

The bundle identifier is a string that identifies the .apk package used to install the app.

For Google Play Apps:

The bundle identifier can be found at the end of the app's Google Play download URL.

For example, 'com.comodo.batterysaver' is the Comodo Battery Saver app id in the URL

https://play.google.com/store/apps/details?id=com.comodo.batterysaver

For Enterprise Apps installed through EM App Store:

The bundle identifier can be viewed from the App Details screen of the App.

- · Click 'App Store' from the left and choose Android
- Click on the app from the list displayed at the right

ame kype for Business ersion	
kype for Business	
.3.0.2	
undle ID	
om.microsoft.office.lync15	
ategory	

The bundle identifier is displayed in the 'Bundle ID' field.

To configure Bluetooth Restrictions settings

The feature is supported for Samsung for Enterprise (SAFE) devices only.

· Click 'Bluetooth Restrictions' from the 'Add Profile Section' drop-down

The 'Bluetooth Restrictions' settings screen will be displayed.

General Bluetooth Restrictions	
Bluetooth Restrictions	X Cancel Save
Allow Device discovery via Bluetooth	SAFE 2.0+
Allow Bluetooth Pairing	SAFE 2.0+
Allow Outgoing Calls	SAFE 2.0+
Allow Bluetooth Tethering	SAFE 2.0+
Allow connection to Desktop or Laptop via Bluetooth	SAFE 2.0+
Allow data transfer	SAFE 2.0+

Bluetooth Restrictions Settings - Table of Parameters		
Form Element	Туре	Description
Allow Device discovery via Bluetooth	Checkbox	Allows discovery of other devices via Bluetooth.
Allow Bluetooth Pairing	Checkbox	Allows users' devices to pair with other their devices via Bluetooth.
Allow Outgoing Calls	Checkbox	Allows users to make calls using Bluetooth enabled devices (eg. hands- free devices)
Allow Bluetooth Tethering	Checkbox	Allows users to enable/disable Bluetooth tethering option.
Allow connection to Desktop or Laptop via Bluetooth	Checkbox	Allow users to enable/disable Bluetooth connection with Desktop or Laptop.
Allow data transfer	Checkbox	Allows data transfer between devices via Bluetooth.

• Click the 'Save' button.

The settings will be saved and displayed under the 'Bluetooth Restrictions' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Browser Restrictions settings

The feature is supported for Samsung for Enterprise (SAFE) devices only.

Click 'Browser Restrictions' from the 'Add Profile Section' drop-down

The 'Browser Restrictions' settings screen will be displayed.

eral Browser Restrictions	
Browser Restrictions	🗙 Cancel 📄 Save
Allow Pop-ups	SAFE 2.0-
Allow Javascript	SAFE 2.0
Accept Cookies	SAFE 2.0-
Remember Form Data for later use	SAFE 2.0-
Show Fraud Warning Settings	SAFE 2.0-

Browser Restrictions Settings - Table of Parameters		
Form Element	Туре	Description
Allow Pop-ups	Checkbox	Pop-ups in browsers will be allowed on user devices.
Allow Javascript	Checkbox	Java scripts will be allowed on user devices
Accept Cookies	Checkbox	Users will be allowed to modify Cookies settings on their devices.

Browser Restrictions Settings - Table of Parameters		
Remember Form Data for later use	Checkbox	Users will be allowed to use Auto Fill settings on their devices.
Show Fraud Warning Settings	Checkbox	Users will be allowed to view Fraud Warning Settings on their devices.

• Click the 'Save' button.

The settings will be saved and displayed under the 'Browser Restrictions' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Certificate settings

The 'Certificate' settings section is used to upload certificates and will act as a repository from which certificates can be selected for use in other areas like 'Wi-Fi, 'Exchange Active Sync' and 'VPN'. You can also enroll user or device certificates from Sectigo Certificate Manager (SCM) after activating your SCM account under Settings > Portal Set-Up > Certificates Activation. See Integrate with Sectigo Certificate Manager for more details.

Click 'Certificate' from the 'Add Profile Section' drop-down

The 'Certificate' settings screen will be displayed.

Certificate	🗙 Cancel 🔲 Sa
Name *	+ Variable
Description	
Data *	

Certificate Settings - Table of Parameters		
Form Element	Туре	Description
Name	Text Field	Enter the name of the certificate. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Description	Text Field	Enter an appropriate description for the certificate.
Data	Browse button	Browse to the location of the stored certificate and select the certificate. Note : Only certificate files with extensions 'pub', 'crt' or 'key' can be uploaded.

· Click the 'Save' button.

The certificate will be added to the certificate store.

General Certificate	
Add Certificate	
	DESCRIPTION
Alice	Not Set

- To add more certificates, click 'Add Certificate' and repeat the process.
- To view the certificate key and edit the name, click on the name of the certificate
- To remove an unwanted certificate, select it and click 'Delete Certificate'

You can add any number of certificates to the profile and remove certificates at anytime. See Edit Configuration **Profiles** for more details.

To add 'CCM Certificates' section

The 'CCM Certificates' profile section lets you add requests for client and device authentication certificates from Sectigo Certificate Manager (SCM).

Note - Sectigo Certificate Manager is the new name for Comodo Certificate Manager. We are in the process of updating the Endpoint Manager UI to reflect this name change. **Click here** if you want to read more about the Comodo CA/Sectigo rebrand.

- The certificate request is forwarded to SCM after you apply the profile to a device,
- After issuance, the certificate is sent to EM which in turn pushes it to the device for installation.
- You can add any number of certificates to a single profile. Appropriate certificate requests are generated on each device to which the profile is applied.

In addition to user authentication, client certificates can be used for email signing and encryption.

Prerequisite: Your SCM account should have been integrated to your EM server in order for EM to forward requests to SCM. For more details, see Integrate with Sectigo Certificate Manager.

Configure 'SCM Certificates' settings

- Click 'Configuration Templates' > 'Profiles'
- Click the name of the profile you want to configure
- Click 'Add Profile Section' > 'CCM Certificates'

inistrator Guide		COMOD Creating Trust C
ult		
NCE NAME LOCALITY NAME (EG. CITY)	ORGANIZATION NAME	ORGANIZATIONAL UNIT
3	ault	

• Click 'Add Certificate' to add a certificate request to the profile:

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Add Certificate	×
Name *	
Туре	
S/MIME certificate	~
Identifier *	
%u.username%	+ Variables
Country name *	
Albania	~
State or province name	
Locality name (eg. city)	
Organization name	
Organizational unit	
	Add

Add Certificate - Table of Parameters		
Form Element	Туре	Description
Name	Text Field	Create a label for the certificate
Туре	Drop-down	 Select the kind of certificate you want to add. The options are: S/MIME Certificate (Client Certificate) Device Certificate
Identifier	Text Field	 The 'Identifier' field will be auto-populated with mandatory variables depending on the chosen certificate type. For client certificate, %username% will be added for fetching

	Ad	d Certificate - Table of Parameters
		the username to be included as subject in the certificate request.
		• For device certificate, %d.uuid% will be added for fetching the device name to be included as subject in the certificate request.
		You can add more variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
Country Name	Text Field	Address details of the user/organization.
State or Province Name		
Locality Name (eg. City)		
Organization Name	Text Field	The customer company to whom the user/device belongs.
		Prerequisite : The organization should have been added to your SCM account.
Organizational Unit	Text Field	The department to company to whom the user/device belongs.
		Prerequisite : The department should have been defined under the organization in your SCM account.

- Click 'Add' once you have completed the form.
- Repeat the process to add more certificate requests.

The certificate requests will be generated from the devices once the profile is applied to them.

To configure Email settings

Note: The feature is supported for Samsung for Enterprise (SAFE) devices only. This area allows administrators to configure email settings on devices.

Click 'Email' from the 'Add Profile Section' drop-down

The settings screen for Email configuration will be displayed.

General Certificate Email Email Image: Configure for Type * Save IMAP Image: Configure for Type * SAFE 20+ IMAP Image: Configure for Type * SAFE 20+ Image: Control Safe 20+ Image: Configure for Type * SAFE 20+ Image: Control Safe 20+ Image: Configure for Type * SAFE 20+ Image: Control Safe 20+ Image: Configure for Type * SAFE 20+ Image: Control Safe 20+ Image: Configure for Incoming Maily * SAFE 20+ Image: Control Safe 20+ Image: Configure for Incoming Maily * SAFE 20+ Image: Control Safe 20+ Image: Configure for Incoming Maily * SAFE 20+ Image: Control Safe 20+ Image: Control

Email Settings - Table of Parameters			
Form Element	Туре	Description	
Configure for Type*	Drop-down	Choose the protocol for incoming mail server from IMAP and POP.	
Email address*	Text Field	If the profile is for a single user, enter the email address of the user at the incoming mail server. If the profile is for several users, click the 'Variables' button + Variables, and click + beside '%u.mail%' from the 'User Variables' list. The email address of the users to whom the profile is associated will be automatically added to the profile while rolling out the same to the devices. For more details on variables, see Create and Manage Custom Variables .	
Account Display Name	Text Field	If the profile is for a single user, enter the name to identify the user's email account at the incoming mail server. If the profile is for several users, click the 'Variables' button * Variables , and click + beside '%u.login%' from the 'User Variables list'. The email address of the users to whom the profile is associated will be automatically added to the profile while rolling out the same to the devices. For more details on variables, see Create and Manage Custom Variables .	
Set as Default Account	Checkbox	If enabled, the email account will be set as default for the users.	
Mail Server Host Name (for Incoming Mail) *	Text Field	For a single user, enter the host name or IP address of the incoming mail server.	
		For several users, add the variable to fetch the incoming mail server hostname/IP address by clicking the 'Variables' button + Variables and clicking + beside the variable. For more details on variables, see Create and Manage Custom Variables.	
Mail Server Port Number (for Incoming Mail) *	Text Field	For a single user, enter the server port number used for incoming mail service. For POP3, it is usually 110 and if SSL is enabled it is	

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Email Settings - Table of Parameters			
		995. For IMAP, it is usually 143 and if SSL is enabled it is 993. For several users, add a variable to fetch the incoming mail server port number by clicking the 'Variables' button * Variables and clicking + beside the variable. For more details on variables, see Create and Manage Custom Variables .	
Login (for Incoming Mail)*	Text Field	If the profile is for a single user, enter the username for the email account of the user at the incoming mail server. If the profile is for several users, click the 'Variables' button + Variables, select '%u.mail %' from the 'User Variables' list and click + . The email usernames of the users to whom the profile is associated will be automatically added to the profile while rolling out to the devices. For more details on variables, see Create and Manage Custom Variables.	
Password (for Incoming Mail)*	Text Field	If the profile is for a single user, enter the password for the email account of the user at the incoming mail server. If the profile is for several users, click the 'Variables' button * Variables and click + beside the variable from the list. The email passwords of the users to whom the profile is associated will be automatically added to the profile while rolling out to the devices. For more details on variables, see Create and Manage Custom Variables .	
Use SSL Incoming	Checkbox	If enabled, communication between incoming mail server and devices is encrypted using SSL (Secure Socket Layer Protocol).	
Accept All Certificates (for Incoming Mail)	Checkbox	If enabled, the device automatically accepts all SSL certificates.	
Accept TLS Certificates (for Incoming Mail)	Checkbox	If enabled, the device automatically accepts all secure certificates for TLS (Transport Secure Layer Protocol).	
Mail Server Host Name (for Outgoing mail)*	Text box	For a single user, enter the host name or IP address of the outgoing (SMTP) mail server. For several users, include the variable to fetch the outgoing mail server hostname/IP address by clicking the 'Variables' button Variables and click + beside the variable from the list. For more details on variables, see Create and Manage Custom Variables	
Mail Server Port Number (for Outgoing Mail) *	Text box	For a single user, enter the server port number used for outgoing (SMTP) mail service. If no port number is specified then ports 25, 587 and 465 are used in the given order. For several users, include the variable to fetch the outgoing mail server port number by clicking the 'Variables' button * Variables' and clicking * beside the variable from the list. For more details on variables, see Create and Manage Custom Variables .	
Login (for outgoing Mail)*	Text Field	If the profile is for a single user, enter the username for the email account of the user at the outgoing (SMTP) mail server. If the profile is for several users, click the 'Variables' button * Variables, and click + beside '%u.login%' from the 'User Variables' list. The email usernames of the users to whom the profile is associated will be automatically added to the profile while rolling out to the devices. For	

Email Settings - Table of Parameters			
		more details on variables, see Create and Manage Custom Variables.	
Password (for outgoing Mail)*	Text Field	If the profile is for a single user, enter the password for the email account of the user at the outgoing (SMTP) mail server. If the profile is for several users, click the 'Variables' button * Variables and click * beside the variable created to fetch the email password of the user from the 'User Variables' list. The email passwords of the users to whom the profile is associated will be automatically added to the profile while rolling out to the devices. For more details on variables, see Create and Manage Custom Variables .	
Use SSL (for Outgoing Mail)	Checkbox	If enabled, communication between outgoing mail server and devices is encrypted using SSL.	
Accept All Certificates (for Outgoing Mail)	Checkbox	If enabled, the device automatically accepts all SSL certificates.	
Accept TLS Certificates (for Outgoing Mail)	Checkbox	If enabled, automatically accepts all secure certificates for TLS (Transport Secure Layer Protocol).	
Sender Name	Text Field	For a single user, enter the name that should appear in the 'From' field of the sent emails from the device. For several users, add the variable to fetch the sender name by clicking the 'Variables' button * Variables and clicking + beside the variable. For more details on variables, see Create and Manage Custom Variables .	
Set Signature	Text Field	Enter the signature and other details that will appear at the end of the mails sent from the device. You can add variables to the text by clicking the 'Variables' button + Variables and clicking + beside the variable. For more details on variables, see Create and Manage Custom Variables.	
Prevent Moving Mail to other Accounts	Checkbox	If enabled, the user cannot move sent or received mails to another account.	
Always Vibrate on New Email Notification	Checkbox	If enabled, the device will vibrate in addition to sound alert when a new email is received.	
Vibrate on New Email Notification if device is silent	Checkbox	If enabled, the device will vibrate when a new email is received, when the device is in silent mode.	

• Click the 'Save' button.

The settings will be saved and displayed under the 'Email' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure ActiveSync settings

ActiveSync settings allows you to configure user access to Exchange Server mail accounts.

Note: Please make sure users are not blocked from using the email client on their devices in Native App



Restrictions

Click 'ActiveSync Settings' from the 'Add Profile Section' drop-down

The 'ActiveSync Settings' screen will be displayed.

ActiveSync Settings		🗙 Cancel 🔲 Sa
Email Address *	SAFE 2.0+	
	+ Variables	
User Name *	SAFE 2.0+	
	+ Variables	
Domain *	SAFE 2.0+	
	+ Variables	
Server Address *	SAFE 2.0+	
	+ Variables	
Password	SAFE 2.0+	
	+ Variables	
Account Display Name	SAFE 2.0+	
Account Display Name	SAFE 2.0+ + Variables	
Email Signature		

ActiveSync Settings - Table of Parameters			
Form Element	Туре	Description	
Email Address *	Text Field	Click the 'Variables' button + Variables and click + beside '%u.mail' from the User Variables' list. The email address of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables .	
User Name *	Text Field	Click the 'Variables' button + Variables' and click + beside '%u.login' from the User Variables' list. The username of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables.	
Domain *	Text Field	Enter the domain name in the field. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .	
Server Address *	Text Field	Enter the server address of the ActiveSync. You can also add variables by clicking the 'Variables' button + Variables variable you want to add. For more details on variables, see Create and Manage Custom Variables.	
Password	Text Field	Leave the field blank. The user will be prompted to enter the password while configuring the email account for the first time. After it is validated,	

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ActiveSync Settings - Table of Parameters			
		the users can access the email account without entering the password.	
Account Display Name	Text Field	If the profile is for a single user, enter the name to identify the user's email account at the exchange server. If the profile is for several users, click the 'Variables' button Variables and click + beside '%u.login%' from the 'User Variables list'. The email address of the users to whom the profile is associated will be automatically added to the profile while rolling out the same to the devices. For more details on variables, see Create and Manage Custom Variables .	
Email Signature	Text Field	Enter the signature and other details that will appear at the end of the mails sent from the device. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .	
Maximum Email Size	Comobo Box	The maximum size of email that the user can download from the server. Use the controls or enter the value in the field. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .	
Sync Emails	Drop-down	Choose the period for which the emails are to be kept synchronized between the device and the exchange server from the recent past, from the drop-down.	
Sync Calendar	Drop-down	Select the period for which the calendar events are to be synchronized between the device and the exchange server, from the drop-down.	
Use SSL	Checkbox	If enabled, communication between the device and the exchange server is encrypted using SSL (Secure Socket Layer Protocol).	
As Default Account	Checkbox	If enabled, the email address will be used as default for sending out emails.	
Accept All Certificates	Checkbox	If enabled, the device automatically accepts all SSL certificates.	
Can Sync Contacts	Checkbox	Select this option if you wish to allow synchronization of user contacts between device and exchange server.	
Can Sync Calendar	Checkbox	Select this option if you wish to allow the synchronization of the calendar events set by the user at the device and the exchange server.	
Can Sync Tasks	Checkbox	Select this option if you wish to allow the synchronization of Tasks scheduled by the user at the device and the email server.	
Manual Roaming Sync	Checkbox	If enabled, the user can use the sync feature manually while away from the home network.	
Always Vibro on New Email	Checkbox	If enabled, the device will vibrate when a new email is received.	

Fields with * are mandatory.

• Click the 'Save' button.

The settings will be saved and displayed under the 'ActiveSync Settings' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.



To configure Kiosk settings

Note: This feature is only supported by Samsung for Enterprise (SAFE) devices.

Background: Kiosk mode is a feature intended to help administrators lock-down mobile devices by limiting the applications that are able to run on a device. 'Locking' a device to particular applications can prevent users from opening other applications or straying into important device configuration areas. You can also block aspects of the OS should you wish. An example is a retail or school environment where only certain apps should be used on the device.

Click 'Kiosk' from the 'Add Profile Section' drop-down

The 'Kiosk' settings screen will be displayed.

Kiosk		X Cancel
Kiosk Mode Type *		
Default Mode	~	
Enter ID of Kiosk Apps *	SAFE 2.0+	
Enter ID of Kiosk Apps	+Variables	
Block Multi-Window Mode	SAFE 2.0+	
Block Task Manager	SAFE 2.0+	
Hide Navigation Bar	SAFE 2.0+	
Hide Status Bar	SAFE 2.0+	
Hide System Bar	SAFE 2.0+	
SMS/MMS blocking	SAFE 2.0+	
Block Keys	SAFE 2.0+	

Kiosk Settings - Table of Parameters			
Form Element	Туре	Description	
Kiosk Mode Type	Drop-	The two Kiosk modes are:	
	down	 Default mode - Run multiple apps in Kiosk mode. Users will not be able to run non-kiosk applications. Kiosk mode can only be exited by entering the admin bypass password. 	
		 Single App mode - Users can only run the single application that you specify. Users will not be able to run non-kiosk applications. Kiosk mode can only be exited if the admin disables it in the EM console. 	
		Restrictions on access to other device functions, such as task manager and the status bar, can also be configured for either mode.	
If 'Single App' is selected as	Kiosk Mode	Туре:	
Enter ID of Kiosk Apps	Text Field	Enter the Package ID of the app that will run in Kiosk mode. You can	



	Kic	osk Settings - Table of Parameters	
		also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables. For more details on Package ID, see Obtaining Bundle/Package Identifier.	
If 'Default mode' is selected	as Kiosk Moo	de Type:	
Enter ID of Kiosk Apps	Text Field	Enter the package IDs of the apps that will run in Kiosk mode. You can also add variables by clicking the 'Variables' button Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables . For more details on Package ID, see Obtaining Bundle/Package Identifier . Click + to add more 'App IDs for allowed Apps om Kiosk Mode' fields. To remove a field, click the — button beside it.	
Block Multi-Window Mode	Checkbox	If selected, users cannot open multiple windows.	
Block Task Manager	Checkbox	If selected, users cannot access task manager screen.	
Hide Navigation Bar	Checkbox	If selected, the navigation bar will be hidden on the devices.	
Hide System Bar	Checkbox	If selected, the system bar will not be displayed.	
SMS/MMS blocking	Checkbox	If selected, the all the SMSs and MMSs to the device will be blocked.	
Block Keys	Drop- down	This feature allows to selectively block touch keys and icons available on device screen. For example, if you do not want the device owners to use Caps Lock key and so on, then these can be blocked.	
		To select the key to be blocked, click in the 'Block Keys' field: Select Keys The keys will be displayed from the drop-down. Scroll down to view the full list and select the required key to be blocked. Add more keys to be blocked similarly.	
The following features will be	visible if 'De	efault mode' is selected as Kiosk Mode Type:	

Kiosk Settings - Table of Parameters			
Show messenger App	Checkbox	If selected, the messenger app will be available.	
Show email App	Checkbox	If selected, email app will be available.	
Show dialer App	Checkbox	If selected, dialer app will be available.	
Show admin bypass button	Checkbox	If selected, the 'Admin bypass button' will be available, which an admin can tap, enter the password to exit from the Kiosk mode.	
Admin bypass password	Text Field	Enter the password required to exit the Kiosk mode. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.	

• Click the 'Save' button.

The settings will be saved and displayed under the 'Kiosk' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Native App Restriction settings

Native applications are those applications that come with the device operating system. Examples include the email and gallery apps. Admins can restrict users from accessing these native applications if required.

Note: Native app restrictions are only available on Samsung which support KNOX 1.0 +

General Certificate Native App Restric	ions	
Native App Restrictions		X Cancel 🕞 Save
Allow Gmail	Android 4.0+/SAFE 1.0+	
Allow Email	Android 4.0+/SAFE 1.0+	
Allow Browser	Android 4.0+/SAFE 1.0+	
Allow Gallery	Android 4.0+/SAFE 1.0+	
Allow Settings	Android 4.0+/SAFE 1.0+	
Allow Google Play	Android 4.0+/SAFE 1.0+	
Allow Youtube App	Android 4.0+/SAFE 1.0+	
Allow Google Maps & Navigation	Android 4.0+/SAFE 1.0+	
Allow Google and Voice Search	Android 4.0+/SAFE 1.0+	

Click 'Add Profile Section' > 'Native App Restrictions'

Native Application Restrictions Settings - Table of Parameters		
Form Element Type Description		
Allow Gmail Checkbox Select this to allow users to access Gmail app.		Select this to allow users to access Gmail app.

Native Application Restrictions Settings - Table of Parameters		
Allow Email	Checkbox	Select this to allow users to access the default Email app.
Allow Browser	Checkbox	If enabled, users can access the default Android browser on their devices.
Allow Gallery	Checkbox	If enabled, users can access Gallery on their devices.
Allow Settings	Checkbox	Select this to enable users to change their device settings.
Allow Google Play	Checkbox	If enabled, users can access Google Play on their mobile devices.
Allow YouTube App	Checkbox	If enabled, users can access the YouTube app.
Allow Google Maps & Navigation	Checkbox	If enabled, users can access Google Maps and Navigation app on their devices.
Allow Google and Voice Search	Checkbox	If enabled, users can use Google and Voice Search services.

• Click the 'Save' button.

The settings will be saved and displayed under the 'Native App Restriction' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Network Restriction settings

The feature is supported for Samsung for Enterprise (SAFE) devices only.

· Click 'Network Restrictions' from the 'Add Profile Section' drop-down

The 'Network Restrictions' settings screen will be displayed.

neral Certificate Network Restrictions		
Network Restrictions		🗙 Cancel 📄 Save
Allow Emergency Calls only	SAFE 2.0+	
Allow Voice Roaming	SAFE 3.0+	
Allow Sync during Roaming	SAFE 1.0+	
Allow Data Roaming	SAFE 2.2+	
Allow USB Tethering	SAFE 2.2+	
Allow wi-fi access point settings editing	SAFE 2.2+	
Allow user to add Wi-Fi networks	SAFE 2.2+	
Wi-Fi Network Minimum Security Level	SAFE 2.0+	
Open	*	
Allow SMS	SAFE 3.0+	
All	~	
Allow MMS		
		^



Network Restrictions Settings - Table of Parameters				
Form Element	Туре	Description		
Allow Emergency Calls only	Checkbox	Allows users to make only emergency calls.		
Allow Voice Roaming	Checkbox	Allows users to make/receive voice call during roaming.		
Allow Sync during Roaming	Checkbox	Allows the use of Sync feature while roaming.		
Allow Data Roaming	Checkbox	Allows users to enable 'Data Roaming' option on their devices to access data services during roaming.		
Allow USB Tethering	Checkbox	Allows users to enable 'USB Tethering' option for sharing their data connection through USB tethering.		
Allow Wi-Fi access point settings editing	Checkbox	Allows users to edit the Wi-Fi access point settings to create a Wi-Fi hotspot for sharing their data connection.		
Allow user to add Wi-Fi networks	Checkbox	Allows users to add additional Wi-Fi networks.		
Wi-Fi Network Minimum Security Level Allow SMS	Drop-down	Select the minimum security level required for the user to access the Wi- Fi network. The options available are: Open WEP WPA 802.1x EAP (LEAP) 802.1x EAP (FAST) 802.1x EAP (PEAP) 802.1x EAP (TTLS) 802.1x EAP (TLS) Allows text messages as per the option selected:		
Allow SMS	Drop-down	 Allows text messages as per the option selected: All - Allows both incoming and outgoing text messages. Incoming Only - Allows incoming text messages only. Outgoing Only - Allows outgoing text messages only. None - Both incoming and outgoing text messages are blocked. 		
Allow MMS	Drop-down	 Allows multimedia messages as per the option selected: All - Allows both incoming and outgoing multimedia messages. Incoming Only - Allows incoming multimedia messages only. Outgoing Only - Allows outgoing multimedia messages only. None - Both incoming and outgoing multimedia messages are blocked. 		
Blacklisted SSIDs	Text Field	Specify the name (SSID) of the wireless network that should be blacklisted. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables. Click the button to add more 'Blacklisted SSID' fields. To remove a Blacklisted SSID field from the screen, click the minus — button		



Network Restrictions Settings - Table of Parameters		
		beside it.

• Click the 'Save' button.

The settings will be saved and displayed under the 'Network Restrictions' tab. You can edit the settings or remove the section from the profile at anytime See Edit Configuration Profiles for more details.

To configure Passcode settings

Click 'Passcode' from the 'Add Profile Section' drop-down

The Passcode settings screens will be displayed.

ral Certificate Passcode		
Passcode		X Cancel
Passcode Type		
No passcode enforcement	~	
Minimum passcode length		
Default	~	
Maximum Idle Time		
Never timeout	· · · · · · · · · · · · · · · · · · ·	
Maximum Failed Attempts for Wipe		
0	~	
Device will be wiped if this limit exceeds		
Maximum Failed Attempts for Sneak Peek		
0	✓	
Device will be SneakPeak if this limit exceeds		
Maximum passcode age (days)		
Passcode History Requirements	Android 3.0+	



Passcode Settings - Table of Parameters				
Form Element	Туре	Description		
Passcode Type	Drop-down	Select the type of passcode from the drop-down that the user should configure for unlocking screen lock. The options available are: No passcode enforcement Only letters Letters and numbers Only numbers Letters, numbers and a special symbol Requires some kind of password		
Minimum Passcode Length	Drop-down	Select the minimum number of passcode characters that can be configured by the user. (4-16 characters).		
Maximum Idle Time	Drop-down	Select the maximum time period that can be set as idle time out period for device screen lock, from the drop-down.		
Maximum Failed Attempts for Wipe	Drop-down	Select the maximum number of allowed unsuccessful login attempts for device wipe (4-16). Set the value as '0' for unlimited.		
		If the number of failed attempts crosses this value, the data in the device will be automatically wiped off. This is useful to prevent the data from the device being stolen, if somebody, other than the user, tries to login to the device by entering guessed passcodes.		
Maximum Failed Attempts for Sneak Peek	Drop-down	Select the maximum number of allowed unsuccessful login attempts for 'Sneak Peek' feature (4-16). Set the value as '0' for unlimited.		
		The 'Sneak Peek' feature makes the device take a photograph with the front-facing camera if the wrong passcode is entered a certain number of times - hopefully getting a picture of the person holding a lost/stolen device. Photographs are forwarded to the EM server.		
		The photograph(s) sent by the device can be viewed from the 'Device Details' interface that can be accessed by clicking 'Devices' > 'Device List' > the device name > 'Sneak Peek' tab. See View Sneak Peek Pictures to Locate Lost Devices for more details.		
		Note : If the device does not have a front camera, the rear camera will capture a photograph and forward to the EM server.		
Maximum Passcode Age (days)	Text Field	Enter the maximum period in days for which a passcode can be valid. After the number of days specified in this field, the passcode will expire. The user needs to change the passcode before the current one expires.		
Passcode History Requirements	Text Field	Set how many unique, new passcodes must be created before the user can re-use an old password.		
		This feature is available for Android 3.0 and later versions only.		

• Click the 'Save' button.

The settings will be saved and displayed under the 'Passcode' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.



To configure Restriction settings

· Click 'Restrictions' from the 'Add Profile Section' drop-down

The 'Restrictions' settings screen will be displayed.

General	Certificate	Restrictions				
Res	trictions				× Cancel	Save
	llow Turn-off b ersion 5.* and h	ackground Sync (Not suppo higher)	rted on Android			
■ <i>I</i>	llow Bluetooth	1				
• 4	llow Camera					
II /	llow Un-encryp	oted devices	Android 3.0+			
•	llow To Run Ap	ops Installed From Unknown	Sources			
Cellu highe	lar Connection Co r)	ontrol (Not supported on Android	version 5.* and			
(Cellular Cor	nnection On				
(Cellular Cor	nnection Off				
(User Choice	e				
WiFi	Connection Contro	lor				
(Wi-Fi Conne	ection On				
(Wi-Fi Conne	ection Off				
6	User Choice	e				
Local	tion Service Contr	rol				
(Location Se	ervice Always On				
(Location Set	ervice Always Off				
6	Llear Choice	8				

Restrictions Settings - Table of Parameters				
Form Element	Туре	Description		
Allow Turn-off background Sync	Checkbox	Select this to allow users to disable background synchronization setting on their devices.		
Allow Bluetooth	Checkbox	Select this to allow users to enable/disable Bluetooth on their devices.		
Allow Camera	Checkbox	Select this to allow users to use the camera		
Allow Un-encrypted devices	Checkbox	Select this to enable users to use device without turning on the storage encryption feature. This feature is available for Android 3.0 and later versions only.		
Allow to run Apps installed from unknown sources	Checkbox	Select this to allow users to run installed applications that were download from unknown sources		
Cellular Connection Control	Radio Buttons	Choose whether or not to allow the device to connect to the internet through a cellular network (2G/3G/4G):		
		 Cellular Connection on - Maintains the data connection through cellular network enabled, irrespective of user settings under 'Settings' > 'Wireless and Network settings' in the device. 		

Restrictions Settings - Table of Parameters					
Restrictions Octaings - Table of Farameters					
		 Cellular Connection off - Maintains the data connection through cellular network disabled, irrespective of user settings under 'Settings' > 'Wireless and Network settings' in the device. 			
		 User Choice - The connection is enabled or disabled as per the user's setting under 'Settings' > 'Wireless and Network settings' in the device. 			
WiFi Connection Control	Radio Buttons	Choose whether or not to allow the device to connect to WiFi networks and hotspots from the options.			
		 WiFi Connection on - Always maintains the WiFi connection enabled, irrespective of user's setting under 'Settings' > 'Wireless and Network settings' in the device. 			
		 WiFi Connection off - Always maintains the WiFi connection disabled, irrespective of user's setting under 'Settings' > 'Wireless and Network settings' in the device. 			
		 User Choice - The connection is enabled or disabled as per the user's setting under 'Settings' > 'Wireless and Network settings' in the device. 			
Location Service Control	Radio Buttons	Choose whether or not to allow the location services on the device from the options:			
		 Location Service Always On - Always maintains the location services enabled, irrespective of the user's setting on the device. 			
		 Location Service Always Off - Always maintains the location services disabled, irrespective of the user's setting on the device. 			
		User Choice - The location service is enabled or disabled as per the user's setting on the device.			

• Click the 'Save' button.

The settings will be saved and displayed under the 'Restrictions' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure VPN settings

Note: The feature is supported for only Samsung for Enterprise (SAFE) devices.

Click 'VPN' from the 'Add Profile Section' drop-down

The settings screen for VPN will be displayed.

eral Certificate VPN		
VPN		X Cancel
Configure for type *	SAFE 2.0+	
L2TP	✓ [↓]	
VPN Connection Name	SAFE 2.0+	
	+ Variables	
Host name of the VPN Server	SAFE 2.0+	
	+ Variables	
Username *	SAFE 2.0+	
	+ Variables	
Password *	SAFE 2.0+	
	+ Variables	
Enable L2TP Secret	SAFE 2.0+	
L2TP Secret		
	+ Variables	~

	VPN Settings - Table of Parameters				
Form Element	Туре	Description			
Configure for type	Drop-down	Choose the VPN connection type from drop-down. The options available are: L2TP, PPTP, L2TP/IPSec PSK, IPSec, XAuth PSK and IPSec XAuth RSA.			
VPN Connection Name	Text Field	Enter the name of the connection, which will be displayed on the device. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .			
Host name of the VPN Server	Text Field	Enter the IP address or host name of the VPN server. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.			
Username	Text Field	For a single user account for VPN connection, enter the username for connection to the network. For several users, click the 'Variables' button, Variables select the variable for fetching the VPN username from the 'Variables list' and click ' + . The usernames of the users to whom the profile is associated will be automatically included in the profile while rolling out the profile to respective devices. For more details on variables, see Create and Manage Custom Variables .			
Password	Text Field	If the profile is for a single user account for VPN connection, enter the password for the account. If the profile is for several users, click the			

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VPN Settings - Table of Parameters				
		'Variables' button * Variables , select the variable created to fetch the password of the user from the 'User Variables' list and click + . The VPN connection passwords for the accounts of the users to whom the profile is associated will be automatically added to the profile while rolling out to respective devices. For more details on variables, see Create and Manage Custom Variables .		
DNS Search Domains	Text Field	Enter the IP address or hostname of the DNS server that devices will use for searching domain names. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.		
If L2TP is selected:				
Enable L2TP Secret	Checkbox	If enabled, the pre-shared L2TP should be entered in the next field L2TP Secret		
L2TP Secret	Text Field	If L2TP Secret is enabled, then the pre-shared key should be entered here by the user or selected from 'Variables'		
If PPTP is selected:				
Enable Encryption	Checkbox	If selected, the connection is encrypted between the devices and the VPN server.		
If L2TP/IPSec PSK is selected	ed:			
Enable L2TP Secret	Checkbox	If enabled, the pre-shared L2TP should be entered in the next field L2TP Secret		
L2TP Secret	Text Field	If L2TP Secret is enabled, then the pre-shared key should be entered here by the user or selected from 'Variables'		
IPSec Pre-Shared Key	Text Field	If IP Sec Identifier is enabled, then the pre-shared key should be entered here by the user or selected from 'Variables'		
If IPSec Xauth PSK is select	ed:			
IP Sec Identifier	Text Field	Enter the IPSec identifier in the field. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
IPSec Pre-Shared Key	Text Field	If IP Sec Identifier is enabled, then the pre-shared key should be entered here by the user or selected from 'Variables'.		
Use for persistent connect	Checkbox	Forcibly maintains the VPN connection always at the enabled state, irrespective of user's settings through 'Settings' > 'Wireless and Networks' in the device. In order to enable this feature, the following conditions are to be satisfied:		
		• The profile should have been created already and rolled out to the devices. Hence the administrator will be able to enable this feature after rolling out the profile and then by editing the profile. See Edit Configuration Profiles for more details.		
		Suits to all VPN connections types, except PPTP		
		The VPN server and the DNS server should have been		

VPN Settings - Table of Parameters				
		specified by their IP addresses in IPv4.		

· Click the 'Save' button after entering or selecting the parameters.

The VPN settings will be added to the profile.

General Certificate VPN			
Add VPN			
	TYPE	SERVER HOST	PERSIST CONNECT
VPN id 1	L2TP	-	Enabled

You can add multiple VPN connection settings for the profile.

- To add another VPN connection, click 'Add VPN' and repeat the process
- To view and edit the VPN settings of a connection, click the name of the connection
- To remove a VPN connection, select VPN then click 'Delete VPN'

You can add any number of VPN connection settings to the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Wi-Fi settings

• Click 'Wi-Fi' from the 'Add Profile Section' drop-down The settings screen for Wi-Fi will be displayed.

neral	Certificate	VPN	Wi-Fi					
Wi-F	Fi						× Cance	Save
SSID	*							
				+ Varia	bles			
H	lidden SSID							
Wi-Fi	Configuration Ty	pe						
	en				~			

Wi-Fi Settings - Table of Parameters						
Form Element	Туре	Description				
SSID	Text Field	Enter the Service Set Identifier (SSID), the name of the wireless network that a device should connect to. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.				
Hidden SSID Checkbox		If enabled, users will be able to access the hidden wireless network too. Users must know the hidden SSID details and the required credentials.				
Wi-Fi Configuration Type	Drop-down	Select the type of encryption used by the wireless network from the drop-				



Wi-Fi Settings - Table of Parameters						
	down. The options available are:					
	• Open					
	• WEP					
	• WPA / WPA2 - PSK					
	• 802.1x EAP					
	The settings for each type is explained in the next table Wi-Fi configuration type settings .					

Wi-Fi Configuration Type settings

Wi-Fi Configuration Type Settings - Table of Parameters					
Security Configuration Type	Description				
Open	No password is required for accessing the Wi-Fi network by the user.				
WEP	Authentication Password - Enter the password to access the Wi-Fi network. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .				
WPA / WPA2 - PSK	Authentication Password - Enter the password to access the Wi-Fi network. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.				
802.1x EAP	 EAP Authentication Protocol - Select the EAP authentication protocol from the drop-down. Applicable for Samsung for Enterprise devices SAFE 1.0 + version. PEAP TLS TTLS Phase 2 Authentication Protocol - Select the Phase 2 authentication protocol from the drop-down. Applicable for Samsung for Enterprise devices SAFE 1.0 + version. None PAP MSCHAP MSCHAPV2 GTC Certificate - Select the user certificate from the drop-down or upload it using the 'Add New' button. CA Certificate - Select the CA certificate from the drop-down or upload it using the 'Add New' button. Authentication Username - Enter the username for Wi-Fi authentication. Applicable for Samsung for Enterprise devices SAFE 1.0 + version. 				



Wi-Fi Configuration Type Settings - Table of Parameters
6. Authentiation Password - Enter the password for Wi-Fi authentication. Applicable for Samsung for Enterprise devices SAFE 1.0 + version.
7. Authentication Domain - Enter the details for RADIUS Server authentication. pplicable for Samsung for Enterprise devices SAFE 1.0 + version.
8. Anonymous Identity - Enter the username that can be used for anonymous access. Applicable for Samsung for Enterprise devices SAFE 1.0 + version.
9. Encryption Key - Enter the encryption key to access the Wi-Fi network. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
For items in the list from 5 to 8, you can also include a variable to the field by clicking the 'Variables' button * Variables and clicking + beside the variable from the list. For more details on variables, see Create and Manage Custom Variables .

• Click the 'Save' button after entering or selecting the parameters.

The 'Wi-Fi' network settings' will be saved for the profile.

General Certificate VPN Wi-FI	
Add WI-Fi 💼 Delete WI-Fi	
SSID SSID	WI-FI CONFIGURATION TYPE
Wi-Fi_purchase	WEP

You can add multiple Wi-Fi networks for a profile.

- To add another Wi-Fi SSID, click 'Add Wi-Fi' and repeat the process
- To view and edit the Wi-Fi network settings, click the SSID of the network
- To remove a Wi-Fi network, select it from the list and click 'Delete Wi-Fi'

You can add or remove Wi-Fi networks at any time. See Edit Configuration Profiles for more details.

To configure 'Other Restrictions' settings

The feature is supported for Samsung for Enterprise (SAFE) devices only.

Click 'Other Restrictions' from the 'Add Profile Section' drop-down

The 'Other Restrictions' settings screen will be displayed.

General Certificate VPN WI-FI Other R	estrictions	
Other Restrictions		X Cancel Save
Allow USB	SAFE 2.0+	
Use Network Time	SAFE 2.0+	
Allow Near Field Communication (NFC)	SAFE 2.0+	
Allow Mock Locations Allow SD Card	SAFE 2.0+	
 Allow SD Card Write Allow Screen Capture 	SAFE 3.0+	
 Allow Clipboard 	SAFE 2.0+	
 Backup my data Visible Passwords 	SAFE 2.0+	
 Allow USB Debugging 	SAFE 2.0+	
 Allow Factory Reset Allow OTA Upgrade 	SAFE 2.0+ SAFE 3.0+	

Other Restrictions Settings - Table of Parameters						
Form Element	Туре	Description				
Allow USB	Checkbox	Allows users to establish connections via USB ports.				
Use Network Time	Checkbox	Allows users to enable/disable network provided values in Date & Time settings.				
Allow Microphone	Checkbox	Allows users to use microphone. If this is disabled, users can use microphone for receiving and making calls only.				
Allow Near Field Communication (NFC)	Checkbox	Allows devices to establish connection via NFC				
Allow Mock Locations	Ilow Mock Locations Checkbox Allows users to enable/disable 'Mock Location' in develope settings.					
Allow SD Card Checkbox Users can use SD card on their deviation		Users can use SD card on their devices.				
Allow SD Card Write Checkbox Users of		Users can store data on the SD card.				
Allow Screen Capture	Checkbox	Users can take screenshot of the device screen.				
Allow Clipboard	Checkbox	Users will be allowed to use clipboard memory.				
Backup my data	Checkbox	Users will be allowed to take a backup of data in their devices.				

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Other Restrictions Settings - Table of Parameters					
Visible Passwords Checkbox Alle		Allows users to enable/disable show password feature.			
Allow USB Debugging	Checkbox	Allows users to enable/disable 'USB Debugging' option in developer mode settings.			
Allow Factory Reset	Checkbox	Allows users to reset the device to factory settings.			
Allow OTA Upgrade	Checkbox	Allows devices to receive Over-the-air (OTA) upgrade for software updates.			

• Click the 'Save' button.

The settings will be saved and displayed under 'Other Restrictions' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

6.1.2. Profiles for iOS Devices

iOS Profiles allow you to specify a device's network access rights, restrictions and other general settings.

Process in Brief:

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' > 'Create iOS Profile'
- Type a name and description for your profile then click the 'Create' button. The profile will now appear in 'Configuration Templates' > 'Profiles'.
- New profiles have only one section 'General'. Click 'Add Profile Section' to add settings for various security and management features. Each section you add will appear as a new tab.
- Once you have fully configured your profile you can apply it to devices, device groups, users and user groups.
- You can make any profile a 'Default' profile by selecting the 'General' tab then clicking the 'Edit' button.

This part of the guide explains the processes above in more detail, and includes in-depth descriptions of the settings available for each profile section.

To create an iOS profile

- Click 'Configuration Templates' > 'Profiles'
- Click the 'Create' button > 'Create iOS Profile':

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Endpoint Manager				Li	cense
DASHBOARD >					
DEVICES >	Profiles	Default Profiles			
<u>A</u> USERS >		国 副	Ľ.	Ē	
CONFIGURATION TEMPLATES	Create	Import Export Profil		Delete Profile	
Profiles	Create Ar	adroid Profile		REATED BY	
Alerts	Create iO	S Profile	Cr	CEATED BY	
Procedures	reate m	acos Prefile in S	ales Dept. he	rculespopular2	2@gma
Monitors	Create W	indows Profile			
	/	ity Le	vel 1 Pr ad		
Create iOS Profile				×	
Name *					
Name					
Description					
Description					
				11	
				Prosto	
				Create	

- Enter a name and description for the profile
- Click the 'Create' button

The new profile will open at the 'General Settings' section:

iOS Profile for Purchase Dept.							
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Hake Default			
eneral							
eneral							
General	Settings						
	for Purchase Dep ne of the profile (sho						
is Default Disabled							
	n es and iPads used nation of the conten						

• The profile is not a 'default' profile at this stage. A 'default' profile is one that is applied automatically to any device which matches its operating system. You can have multiple 'default' profiles per operating system.



- Click the 'Make Default' button if you want this profile to be a default.
 - Alternatively, click the 'Edit' button on the right of the 'General' settings screen and enable 'Is Default'.
- Click 'Save'.

The next step is to add profile sections.

- Each profile section contains a range of settings for a specific management feature.
- For example, there are profile sections for 'Email', 'Single Sign-On', 'LDAP', 'Cellular Networks' and so on.
- You can add as many different sections as you want when building your device profile.
- To get started:
 - Click 'Add Profile Section'
 - Select the component that you want to include in the profile:

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iOS Prof	for Purc	hase Dept			
Add Profile Section	Export Profile	Clone Profile Delete			
Air Play					
Air Print					
APN					
Calendar					
Cellular Networ	ks				
Certificate					
CCM Certificate	s ^{no}	wn on the device).			
Contacts					
ActiveSync Settings					
Global Proxy HT	TD	by purchase dept state s or purpose of the prote			
LDAP					
Email					
Passcode					
Proxy					
Restrictions					
Single Sign-On					
Subscribed Cale	Subscribed Calendars				
VPN					
Per-App VPN					
Web Clip					
Wi-Fi					
App Lock					

Note: Many iOS profile settings have small information boxes next to them which indicate the iOS version required for the setting to work correctly.

For example, the following box indicates that the setting supports Apple devices with iOS version 7 and above only: iOS 7+

The settings screen for the selected component will be displayed. After configuring the component and saving the settings, it will be available as a tab at the top.

🇯 iOS Pro	ofile for Pure	chase Dept									
Add Profile Section	Export Profile	Clone Profile	Delete Profile	瞙 Make Default							
General Ai	ir Play Air P	rint									
General	Settings								7	Edit	
	for Purchase Dep ne of the profile (sh										
is Default Disabled											

Following sections explain more about each of the settings:

- Air Play
- Air Print
- APN
- Calendar
- Cellular Networks
- Certificate
- SCM Certificates
- Contacts
- Active Sync
- Global Proxy HTTP
- LDAP
- E-Mail
- Passcode
- Proxy
- Restrictions
- Single Sign-On
- Subscribed Calendars
- VPN
- Per -App VPN
- Web Clip
- Wi-Fi
- App Lock

To configure AirPlay settings

These settings allow you to whitelist devices (televisions, stereo systems etc) which can be used to play content from managed iOS devices via Apple's Airplay system.

Note: If you do not create a whitelist then managed mobile devices will be able to broadcast to any Airplay capable



device.

• Click 'Air Play' from the 'Add Profile Section' drop-down The 'Air Play' settings screen will be displayed.

Air Play	🗙 Cancel 🔲 Sa
White List Devices Id	Supervised only, IOS
White List Devices Id	+Variables
Devices	105
Device Name *	
Device Name	
Password *	
Password	

	AirPlay Set	ttings Configuration - Table of Parameters
Form Element	Туре	Description
White List Devices ID	Text Field	Enter the ID of the output device that you want to whitelist for Airplay. The ID numbers of the devices should be entered in the format as given below:
		XX:XX:XX:XX:XX
		Note: The whitelist is applicable for supervised iOS 7+ devices and will not apply for all other devices.
		You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
		Click to add more 'Device ID' fields. To remove an AirPlay destination device, click the — button beside it.
Device Name	Text Field	Enter the name of the AirPlay output device that you entered above. You can also add a variable to the field by clicking the 'Variables' button Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
		Click the 'Add' button to add more 'Device name' and 'Password' fields. To remove an AirPlay device, click the 🗱 button beside it.
Password	Text Field	Enter the password for the AirPlay destination that you entered above.
Add	Button	Click this button to add another 'Devices' section.

• Click the 'Save' button.

The 'Air Play' device will be added to the list.

General Air Play	
Add Air Play	
	AIR PLAY COUNT
🔲 Air Play 1	1

You can add multiple Air Play devices for the profile.

- To add more devices, click 'Add Air Play' at the top and repeat the process.
- To view and edit the settings for a device, click on its name
- To remove an Air Play device, select it and click 'Delete Air Play'

The settings will be saved and displayed under 'Air Play' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure AirPrint settings

These settings allow you to specify the default AirPrint printer to be used by devices on this profile.

· Click 'Air Print' from the 'Add Profile Section' drop-down

The 'Air Print' settings screen will be displayed.

Air Print	× Cancel
Item	105
IP Address *	
IP Address	
Resource Path *	
Resource Path	
	bbA

	AirPrint Settings - Table of Parameters			
Form Element	Туре	Description		
IP Address	Text Field	Enter the IP Address of the AirPrint printer you wish to use.		
Resource Path	Text Field	Enter the resource path of the printer, for example, printers/ HP_LaserJetPro_M1136_series.		
Add	Button	Click this button to add another AirPrint section.		

You can add more printers by repeating the process. To remove a printer, click the 'X' button beside the printer.

• Click the 'Save' button.

The printer will be added to the list.

Gene	eral Air Play	Air Print	
₽	Add Air Print 👘	Delete Air Print	
O	NAME		AIR PRINT COUNT
	Air Print 1		1

- To add another printer, click 'Add Air Print' and repeat the process
- To view and edit the settings of a printer, click the name of the printer
- · To remove a printer, select it and click 'Delete Air Print'

The settings will be saved and displayed under the 'Air Print' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure APN settings

Note: APN settings have been deprecated in favor of Cellular settings in iOS 7 and above.

• Click 'APN' from the 'Add Profile Section' drop-down

The 'APN' settings screen will be displayed.

APN	X Cancel
Access Point Name (APN) *	
	HacineV +
The name of the carrier (GPRS) access point.	
Access Point User Name	
	+ Variable
The user name to connect to the access point.	
The user name to connect to the access point. Access Point Password	
	+ Variabl
	+ Variabl
Access Point Password	+ Variable
Access Point Password The password to connect to the access point.	+ Variable + Variable
Access Point Password The password to connect to the access point.	

APN Settings - Table of Parameters				
Form Element	Туре	Description		
Access Point Name (APN)*	Text Field	Enter the name of the GPRS access point provided by the carrier. You		

	A	PN Settings - Table of Parameters
		can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
Access Point User Name	Text Field	Enter the username to connect to the access point. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Access Point Password	Text Field	The password to connect to the access point. You can also add variables by clicking the 'Variables' button Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Proxy Server	Text Field	Enter the proxy host settings provided by the carrier. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Proxy Port	Text Field	Enter the port number of the proxy host provided by the carrier. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.

Fields marked * are mandatory.

• Click the 'Save' button.

The settings will be saved and displayed under the 'APN' tab. You can edit these settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Calendar settings

Click 'Calendar' from the 'Add Profile Section' drop-down

The 'Calendar' settings screen will be displayed.

Calendar	🗙 Cancel 🔲 S
Account Description	
	+ Variable
The display name of the account (e.g. "Company CalDAV Account")	
Account Hostname *	
	+ Variable
The CaIDAV hostname or IP address and port number	
Account Port	
	+ Variable
CalDAV Account	
	+ Variable
The CalDAV username	
Account Password	
	+ Variable
The CalDAV password	
Use SSL	
Enable Secure Socket Layer communication with CalDAV server	
Principal URL	
	+ Variable

	Cale	ndar Settings - Table of Parameters
Form Element	Туре	Description
Account Description	Text Field	Enter the display name of the CalDav account. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Account Host Name*	Text Field	Enter the CalDav host name or IP address. You can also add variables by clicking the 'Variables' button Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Account Port	Text Field	Enter the port number on which to connect to the server. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
CalDav Account	Text Field	The user name of the CalDav user. Click the 'Variables' button • Variables' and click + beside '%u.login%' from the 'User Variables' list. The Usernames of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables.
Account Password	Text Field	The password for the CalDav account. Leave the field blank. The user will be prompted to enter the password while configuring the account for the first time. After it is validated, the users can access the account

Calendar Settings - Table of Parameters			
without entering the credentials.			
Use SSL	Checkbox	If enabled, SSL connection will be established with the CalDav server.	
Principal URL	Text Field	Enter the Principal URL of the CalDav account. You can also add variables by clicking the 'Variables' button * Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .	

Fields marked * are mandatory.

• Click the 'Save' button after entering or selecting the parameters.

The calendar account host will be added to the list.

Genera	l Air Play Air Pri	int Calendar	
T Ad	d Calendar 👖 Delete	e Calendar	
	HOST NAME		PORT
	Purchase CalDav		

- To add another Calendar server, click 'Add Calendar' and repeat the process
- To view and edit the calendar server settings, click on the hostname in the list
- To remove Calendar server, select it and click 'Delete Calendar'

The settings will be saved and displayed under 'Calendar' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Cellular Network settings

Note: A cellular network setting cannot be applied if an APN setting is already installed. This feature is available for iOS 7 and later versions only.

Click 'Cellular Networks' from the 'Add Profile Section' drop-down

The 'Cellular Networks' settings screen will be displayed.

Air Play General Air Print Cellular Networks Calendar 🗙 Cancel 📄 Save Cellular Networks Name * + Variables Authentication Type CHAP v Username Password APNs Name * Name Authentication Type CHAP User Name User Name Password Password Add

Cellular Settings - Table of Parameters				
Form Element Type		Description		
Name	Text Field	Enter the name for this configuration, specifying the cellular service provider.		
		You can also add variables by clicking the 'Variables' button + Variables		
		and clicking ⁺ beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Authentication Type	Drop- down	Select the authentication type from the drop-down. The options are CHAP or PAP.		
Username	Text Field	Enter the user name used for authentication. You can also add varial by clicking the 'Variables' button * Variables and clicking + beside variable you want to add. For more details on variables, see Create Manage Custom Variables .		
Password Text Field Enter the password used for authentication. You		Enter the password used for authentication. You can also add variables		
		by clicking the 'Variables' button + Variables and clicking + beside the		

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	Cell	lular Settings - Table of Parameters	
	variable you want to add. For more details on variables, see Create Manage Custom Variables.		
		APNs	
Note : You can add more AP bottom left.	N accounts f	or a single service provider by clicking the Add button at the	
Name	Text Field	Enter a name for specifying the APN configuration. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .	
Authentication Type	Drop- down	Select the authentication type from the drop-down. The options are CHAP or PAP.	
User Name	Text Field	Enter the user name used for authentication. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.	
Password	Text Field	Enter the password used for authentication. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .	

• Click the 'Save' button.

The settings will be saved and displayed under the 'Cellular Networks' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Certificate settings

The 'Certificate' settings section is used to upload certificates and will act as a repository from which certificates can be selected for use in other areas like 'Wi-Fi, 'Exchange Active Sync' and 'VPN'. You can also enroll user or device certificates from Sectigo Certificate Manager (SCM) after activating your SCM account under Settings > Portal Set-Up > Certificates Activation. See Integrate with Sectigo Certificate Manager for more details.

Click 'Certificate' from the 'Add Profile Section' drop-down

The 'Certificate' settings screen will be displayed.

neral	Air Play	Air Print	Calendar	Certificate	
Cert	ificate			× Cancel	🕞 Save
Name	•				+ Variables
Desci	iption				
Data	•				
Sele	ct certificat	e Brov	vse		

Certificate Settings - Table of Parameters				
Form Element Type Description				
Name	Text Field	Enter the name of the certificate. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Description	Text Field	Enter an appropriate description for the certificate.		
Data	Browse button	Browse and upload the required certificate. Only certificate files with extensions 'pub', 'crt' or 'key' can be uploaded.		

• Click the 'Save' button.

The certificate will be added to the certificate store.

Gener	al Air Play	Air Print	Calendar	Certificate	
= 0 A	dd Certificate	Delete Ce	rtificate		
	NAME				DESCRIPTION
	Acme Certificate				Not Set

- To add more certificates, click 'Add Certificate' and repeat the process.
- To view the certificate key and edit the name, click on the name of the certificate
- · To remove an unwanted certificate, select it and click 'Delete Certificate'

You can add any number of certificates to the profile and remove certificates at anytime. See Edit Configuration **Profiles** for more details.

To add SCM Certificates section

The 'CCM Certificates' profile section lets you request client and device authentication certificates from Sectigo Certificate Manager (SCM).

Note - Sectigo Certificate Manager is the new name for Comodo Certificate Manager. We are in the process of updating the Endpoint Manager UI to reflect this name change. **Click here** if you want to read more about the



Comodo CA/Sectigo rebrand.

- The certificate request is forwarded to SCM after you apply the profile to a device,
 - After issuance, the certificate is sent to EM which in turn pushes it to the device for installation.
- You can add any number of certificates to a single profile. Appropriate certificate requests are generated on each device to which the profile is applied.

In addition to user authentication, client certificates can be used for email signing and encryption.

Prerequisite: Your SCM account should have been integrated to your EM server in order for EM to forward requests to SCM. For more details, see **Integrate with Sectigo Certificate Manager**.

Configure 'SCM Certificates' settings

- Click 'Configuration Templates' > 'Profiles'
- Click the name of the Mac OS profile you want to configure

🗯 iOS Pro	of for Purchase	e Dept				
Add Profile Section		e Profile Delete	Profile Make Default			
General C	CM Certificates					
Add Certifi	cate 🔯 Delete C	Certificate				T
NAME	COUNTRY NAME	Е ТҮРЕ	STATE OR PROVINCE NAME	LOCALITY NAME (EG. CITY)	ORGANIZATION NAME	ORGANIZATIONAL UNIT

Click 'Add Certificate' to add a certificate request to the profile:

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Add Certificate	×
Name *	
Туре	
S/MIME certificate	~
Identifier *	
%u.username%	+ Variables
Country name *	
Albania	~
State or province name	
Locality name (eg. city)	
Organization name	
Organizational unit	
	Add

Add Certificate - Table of Parameters				
Form Element Type		Description		
Name	Text Field	Create a label for the certificate		
Туре	Drop-down	 Select the kind of certificate you want to add. The options are: S/MIME Certificate (Client Certificate) Device Certificate 		
Identifier	Text Field	 The 'Identifier' field will be auto-populated with mandatory variables depending on the chosen certificate type. For client certificate, %username% will be added for fetching 		

	Ad	d Certificate - Table of Parameters
		the username to be included as subject in the certificate request.
		 For device certificate, %d.uuid% will be added for fetching the device name to be included as subject in the certificate request.
		You can add more variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Country Name	Text Field	Address details of the user/organization.
State or Province Name		
Locality Name (eg. City)		
Organization Name	Text Field	The customer company to whom the user/device belongs.
		Prerequisite : The organization should have been added to your SCM account.
Organizational Unit	Text Field	The department to company to whom the user/device belongs.
		Prerequisite : The department should have been defined under the organization in your SCM account.

- Click 'Add' once you have completed the form.
- Repeat the process to add more certificate requests.

The certificate requests will be generated from the devices once the profile is applied to them.

To configure Contacts settings

Click 'Contacts' from the 'Add Profile Section' drop-down

The 'Contacts' settings screen will be displayed.

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-	
Contacts	X Cancel 🕞 Sav
Account Description	
	+ Variables
The display name of the account (e.g. "Company CardDAV Account")	
Account Hostname *	
	+ Variables
The CardDAV hostname or IP address and port number	
Account Port *	
	+ Variables
Account Username	
	+ Variables
The CardDAV username	
Account Password	
	+ Variables
The CardDAV password	
Use SSL	
Enable Secure Socket Layer communication with CardDAV server	
Principal URL	,
	+ Variables
The Principal URL for the CardDAV account	

Contacts Settings - Table of Parameters		
Form Element	Туре	Description
Account Description	Text Field	Enter the display name of the CardDav account. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Account Host Name*	Text Field	Enter the CardDav host name or IP address. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
Account Port*	Text Field	Enter the port number on which to connect to the server. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
Account Username	Text Field	The user name of the CardDav user. Click the 'Variables' button • Variables' and click + beside '%u.login%' from the 'User Variables' list. The Usernames of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables.

Contacts Settings - Table of Parameters				
Account Password	Text Field	The password for the CardDav account. Leave the field blank. The user will be prompted to enter the password while configuring the account for the first time. After it is validated, users will be able to access the account without entering a password.		
Use SSL	Checkbox	If enabled, a secure SSL connection will be used for communications with the CardDav server.		
Principal URL	Text Field	Enter the Principal URL of the CardDav account.		

Fields marked * are mandatory.

• Click the 'Save' button after entering or selecting the parameters. The CardDav account will be added to the list.

General	Air Play	Air Print	Calendar	Certificate	Contacts	
🗟 Add C	ontacts	Delete Cont	acts			
но:	ST NAME					PORT
Pur	chase CardDav					486

You can add multiple CardDav accounts to the profile.

- · To add another account, click 'Add Contacts' and repeat the process
- To view or edit a contact account, click on the Hostname of the contact account
- To remove a contact account, select it and click 'Delete Contacts'

The settings will be saved and displayed under 'Contacts' tab. You can edit the contacts or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure ActiveSync settings

• Click 'ActiveSync Settings' from the 'Add Profile Section' drop-down The 'ActiveSync Settings' settings screen will be displayed:

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Gene	eral	Air Play	Air Print	Calendar	Certificate	Contacts	ActiveSync Settings		
		veSync Se	ttings					X Cancel	Save
	Accou	int Name							+ Variables
			ige ActiveSync ad	count					
	Excha	nge ActiveSy	nc Host *						+ Variables
	Micros	oft Exchange	Server						
	hand 1	llow Move	nessages from th	is account					
			Recent Synci						
		revent App		only from Mail a	pp				
	-	se SSL	tion through secu	ire socket layer					
	🗆 S	/MIME enab							
	Doma								* Variable
	Doma	n for the accos	201						

ActiveSync Settings - Table of Parameters				
Form Element	Туре	Description		
Account Name	Text Field	Enter the Exchange ActiveSync account name. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.		
Exchange ActiveSync host*	Text Field	Enter the Exchange host name (Microsoft Exchange Server). You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Allow Move	Checkbox	If enabled, the user can move sent or received mails to another account.		
Disable Mail Recent Syncing	Checkbox	If enabled, recently used emailed addresses are not synced with other devices via iCloud.		
Prevent App Sheet	Checkbox	If enabled, mails cannot be sent using third-party applications.		
Use SSL	Checkbox	If enabled, communication between Exchange server and devices will be encrypted using SSL.		
S/MIME Enabled	Checkbox	If enabled, users can sign and encrypt email messages from their devices. Please note that certificates have to be installed in users' devices before this feature can be used.		
Domain	Text Field	Address of the account. Click the 'Variables' button + Variables and click		



	ActiveSync Settings - Table of Parameters				
		the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables .			
User Name	Text Field	User name for the account. Click the 'Variables' button + Variables' and click + beside '%u.login%' from the 'User Variables' list. The Usernames of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables.			
Email Address	Text Field	Address of the account. Click the 'Variables' button * Variables and click + beside '%u.mail' from the 'User Variables' list. The email address of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables .			
Password	Text Field	Leave the field blank. The user will be prompted to enter the password while configuring the email account for the first time. After it is validated, the users can access the email account without entering the password.			
Past days of mail to sync	Drop-down	Choose the period for which the emails are to be kept synchronized between the device and the exchange server from the recent past, from the drop-down.			
User Certificate	Drop-down	Select the user client authentication certificate from the drop-down or upload it using the 'Add New' button.			

• Click the 'Save' button.

The settings will be saved and displayed under 'ActiveSync Settings' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Global HTTP proxy settings

Click 'Global Proxy HTTP' from the 'Add Profile Profile Section' drop-down

The 'Global Proxy HTTP' settings screen will be displayed.

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neral	Air Play	Air Print	Calendar	Certificate	Contacts	Global Proxy HTTP		
Glob	al Proxy H	ПТР					× Cancel	Save
Name	*							
Proxy	Type *							+ Variables
Au	to							*
Proxy	Pac URL							+ Variables
Server	from which to	get proxy setting	JS.					
P	revents the (device from	connecting di	rectly to the de	stination if the	e PAC file is unreachable		10S 7+
🗆 A	llows the de	vice to bypa	ss the proxy s	erver to display	/ the login pag	ge for captive networks		i0S 7+

Global HTTP Proxy Settings - Table of Parameters				
Form Element	Туре	Description		
Name	Text Field	Enter the name of the HTTP proxy to be displayed on devices to which the profile is applied.		
		You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Proxy	Drop-down	Select the proxy type from the drop-down. The options available are:		
		None		
		Manual		
		• Auto		
		If you select 'Manual', enter the IP address of the proxy server, proxy server port, proxy username and proxy password in the respective fields.		
		You can also add variables by clicking the 'Variables' button + Variables		
		and clicking $^+$ beside the variable you want to add.		
		If you select 'Auto', enter the URL of the Proxy Pac, select whether or not the device can directly connect to the destination if Pac server is not reachable and whether or not the device can bypass the proxy server to display the login page for captive networks from the respective check box options.		
		You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.		

• Click the 'Save' button.

The settings will be saved and displayed under 'Global Proxy HTTP' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

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To configure LDAP settings

Click 'LDAP' from the 'Add Profile Section' drop-down

The 'LDAP' settings screen will be displayed.

General	Air Play	Air Print	Calendar	Certificate	Contacts	LDAP		
LDA	P						X Canc	el 📄 Save
Acco	unt Descriptio	n						+ Variables
	isplay name of 1 unt Hostname		"Company LDAF	Account")				
The L	DAP hostname	or IP address						+ Variables
Acco	unt Username							+ Variables
	sername for this	s LDAP account						
The p	assword for thi	s LDAP account						+ Variables
	Jse SSL e Secure Socke	t Layer for this c	onnection.					
	ch Settings escription							
	Description							
S	c ope Base							
s	earch Base							*
	Search Base	2						
								Add
Searc	h settings for th	nis LDAP server.						

LDAP Settings - Table of Parameters				
Form Element	Туре	Description		
Account Description	Text Field	Enter the display name of the LDAP account. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Account Hostname	Text Field	Enter the LDAP hostname or IP address. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.		
Account Username	Text Field	The username for the LDAP account. You can also add variables by		

LDAP Settings - Table of Parameters				
		clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Account Password	Text Field	The password for the LDAP account. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Use SSL	Checkbox	If enabled, the communication will be encrypted.		
Search Settings		Configure the settings for searching email contacts from the LDAP server. See 'Search the LDAP directory' below for more details.		

Search the LDAP directory

Admins can search for email contacts in the domain using the search feature.

Use SSL	
nable Secure Socket Layer for this connection.	
earch Settings	
Description	
Description	
Scope	
Base	~
Search Base	
Search Base	
	Add
arch settings for this LDAP server.	

LDAP Search Settings - Table of Parameters					
Form Element	Туре	Description			
Description	Text Field	Enter the name of the search			
Scope	Drop-down	Select from the drop-down to what level in the LDAP tree structure the search should run.			
		 Base - Searches only the defined search base. 			
		One level - Searches the base and the first level below it.			
		• Subtree - Searches the base and all the levels below it.			
Search base	Text Field	Enter the search base for which the search will be restricted. For example, you might want to allow users to search only for other email users via LDAP.			



You can add more 'Search Settings' by clicking the

Add button below.

- To remove an item, click the X button.
- Click the 'Save' button.

The LDAP account will be added to the list.

Ger	neral	Air Play	Air Print	Calendar	Certificate	Contacts	LDAP		
To	Add LD	AP 💼	Delete LDAP						
	HOST	TNAME		USER NAME		DESCRIPTION		SETTINGS COUNT	
	test.c	mo				LDAP 1		1	

You can add multiple LDAP accounts.

- To add another LDAP server, click 'Add LDAP' and repeat the process
- To view and edit the settings of an LDAP account, click the hostname of it
- To remove an LDAP account, select it and click 'Delete LDAP'

The settings will be saved and displayed under 'LDAP' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure E-Mail settings

Click 'E-mail' from the 'Add Profile Section' drop-down

The 'E-mail' settings screen will be displayed.

E-mail	X Cancel 🕒 Sa
Email Account Description	
	+ Variable
The display name of the account (e.g. "Company Mail Account")	
Allowed values are email type POP and email type IMAP *	
IMAP	
The protocol for accessing the email account	
Path Prefix	
	+ Variable
Email Account Name	
	+ Variable
The name c- the user (e.g. John Appeseed)	
Email Address	
	+ Variable
Allow Move	
Allow user to move messages from this account	
Designates the incoming mail server host name (or IP address) *	

Mail Account Settings - Table of Parameters				
Form Element	Туре	Description		
Email Account Description	Text Field	Enter a description for the email account. You can also add variables by clicking the 'Variables' button <u>variables</u> and clicking <u>beside</u> the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Allowed values are email type POP and email type IMAP *	Drop-down	Select IMAP or POP from the email type for the profile.		
Path Prefix	Text Field	This will be visible if IMAP is chosen as Email Type in the previous step. Enter the path of the inbox in the field. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		
Email Account Name	Text Field	If the profile is for a single user, enter the name to identify the user's email account. If the profile is for several users, click the 'Variables' button • Variables, and click + beside '%u.login%' from the 'User Variables list'. The email address of the users to whom the profile is associated will be automatically added to the profile while rolling out the same to the devices. For more details on variables, see Create and Manage Custom Variables.		
Email Address	Text Field	If the profile is for a single user, enter the email address of the user. If the		

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Mail Account Settings - Table of Parameters					
		profile is for several users, click the 'Variables' button <u>Variables</u> , and click <u>beside</u> '%u.mail%' from the 'User Variables' list. The email address of the users to whom the profile is associated will be automatically added to the profile while rolling out the same to the devices. For more details on variables, see Create and Manage Custom Variables.			
Allow Move	Checkbox	If enabled, the user can move sent or received mails to another account.			
Designates the incoming mail server host name (or IP address)*	Text Field	Enter the host name of the incoming mail server or its IP address. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .			
Designates the incoming mail server port number*	Text Field	Enter the server port number used for incoming mail service. For POP3, it is usually 110 and if SSL is enabled it is 995. For IMAP, it is usually 143 and if SSL is enabled it is 993. You can also add variables by clicking the 'Variables' button * Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .			
Incoming Mail Server Username	Text Field	If the profile is for a single user, enter their username for the incoming mail server. If the profile is for several users, click the 'Variables' button • Variables' and click + beside '%u.login%' from the 'User Variables' list. The Usernames of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables.			
Allowed values are email auth password and email auth none *	Drop-down	 Select the type of authentication method for the mail account from the drop-down. The options available are: None Password CRAM MD5 NTLM HTTP MD5 			
Incoming Password	Text Field	Leave the field blank. If authentication is chosen in the previous step, then user will be prompted to enter the password while configuring the email account for the first time. After it is validated, the users can access the email account without entering the password.			
Incoming Mail Server use SSL	Checkbox	If enabled, communication between incoming mail server and devices is encrypted using SSL.			
Outgoing Mails Server Host Name*	Text Field	Enter the host name or IP address for the outgoing mail server. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.			
Designates the outgoing mail server port number*	Text Field	Enter the server port number used for outgoing mail service. If no port number is specified then ports 25, 587 and 465 are used in the given order. You can also add variables by clicking the 'Variables' button			

	Mail A	Account Settings - Table of Parameters
		* Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
Outgoing Mail Server Username	Text Field	If the profile is for a single user, enter the username of the user to login to outgoing mail server. If the profile is for several users, click the 'Variables' button * Variables and click + beside '%u.login%' from the 'User Variables' list. The Usernames of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables .
Outgoing Mail Server Authentication*	Drop-down	Select the type of authentication method for outgoing mail server from the drop-down. The options available are: None Password CRAM MD5 NTLM HTTP MD5
Outgoing Password	Text Field	Leave the field blank. If authentication is chosen in the previous step, then user will be prompted to enter the password while configuring the email account for the first time. After it is validated, the users can access the email account without entering the password.
Outgoing Password Same as Incoming Password	Checkbox	If enabled, the password for incoming mail server will be used for outgoing mail server too.
Disable Mail Recents Syncing	Checkbox	If enabled, recently used emailed addresses are not synced with other devices via iCloud.
Signing and encryption per-message	Checkbox	If enabled, the device digitally signs and encrypts your mail per-message.
Prevent App Sheet	Checkbox	If enabled, outgoing mails can be sent from this account only via mail app.
Outgoing Mail Server Use SSL	Checkbox	If enabled, communication between outgoing mail server and devices is encrypted using SSL.
SMIME enabled	Checkbox	If enabled, users can sign and encrypt email messages from their devices. Please note that certificates have to be installed in users' devices before this feature can be used.

• Click the 'Save' button.

The e-mail account will be added to the profile.

General	Air Play	Air Print	Calendar	E-mail	
🔁 Add M	ail 📋	Delete Mail			
	IE	AC	COUNT NAME		ACCOUNT TYPE
📋 Mail	1				IMAP

You can add several email accounts to the same profile.



- To add another email account, click 'Add Mail' and repeat the process
- To view and edit the settings for an email account, click on its name
- To remove an email account, select it and click 'Delete Mail'

The settings will be saved and displayed under the 'Email' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Passcode settings

· Click 'Passcode' from the 'Add Profile Section' drop-down

The 'Passcode Settings' screen will be displayed.

Passcode	🗙 Cancel 📄 Sa
Allow simple value	
Permit the use of repeating, ascending, and descending character sequences.	
Require alphanumeric value	
Require passcodes to contain at least one letter.	
Minimum passcode length	
Default	
Minimum number of non-alphanumeric characters allowed.	
Minimum number of complex characters	
Default	
Minimum number of passcode characters allowed.	
Maximum passcode age	
	+ Variables
Days (1-730) after which passcode must be changed.	
Maximum idle time	
Default	

Passcode Settings - Table of Parameters				
Form Element	Туре	Description		
Allow Simple Value	Checkbox	Selecting this will allow the users to configure repeated or sequential characters in their passwords. For example, '9999' or ABCD.		
Require Alphanumeric Value	Checkbox	Selecting this will compel the user to configure at least one number or letter in their passwords.		
Minimum Passcode Length	Drop-down	The minimum number of characters that a password should contain. The option is available to set from 1 to 16.		
Minimum Number of Complex Characters	Drop-down	The minimum number of symbols (non alphanumeric characters such as $*, \%, @$) that a password should contain. The option is available to set from 1 to 4.		
Maximum Passcode Age	Text Field	Enter the maximum number of days that a password can be valid. The option is available from 1 day to 730 days. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the		

Passcode Settings - Table of Parameters				
		variable you want to add. For more details on variables, see Create and Manage Custom Variables.		
Maximum Idle Time	Drop-down	Select the period of time in minutes that a device can be idle before it's screen is automatically locked.		
Passcode History	Text Field	New passwords should not match previously used passwords. Specify the number of last used passwords that should be stored for comparison. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.		
Maximum Grace Period for Device Lock	Drop-down	Select the period from the drop-down how soon the device can be unlocked since last used without prompting the user to enter the password. The option is available from 'Immediately' to '4 Hours' If 'Immediately' is selected, the user has to enter the password each time the device is unlocked.		
Maximum Number of Failed Attempts	Drop-down	Select the number of unsuccessful login attempts that can be tried by a user before the device is wiped clean of all its data and settings. The option is available to set from 4 to 10. After 6 unsuccessful login attempts, there will be a time delay before a password can be entered again and the time delay period increases with each failed login attempt. This time delay begins only after the sixth attempt, so if you select the period as 6 or lower, there will be no time delay and data will be erased after the final attempt.		
Allows the user to modify Touch ID	Check box	If enabled, allows user you to modify the biometric authentication to unlock your device, make purchases and so on.		

• Click the 'Save' button.

The settings will be saved and displayed under the 'Passcode' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Proxy settings

Click 'Proxy' from the 'Add Profile Section' drop-down

The 'Proxy' settings screen will be displayed.

eral	Air Play	Air Print	Calendar	Proxy	
Prox	y				🗙 Cancel 🕞 Sa
Name	*				
					+ Variable
Proxy	type *				
Ma	nual				
Proxy	server				
					+ Variable
Fully q	ualified addres	s and port of the	proxy server.		
Ргоку	server port				
					+ Variable
Ргоху	username				
					+ Variable
Usema	ame used to co	nnect to the pro-	xy server.		
Ргоху	password				
					+ Variable
Passw	ord used when	connecting to the	he proxy.		

	Proxy Settings - Table of Parameters				
Form Element	Туре	Description			
Name	Text Field	Enter the name of the that will be displayed to the users for the policy. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .			
Proxy	Drop-down	 Select the proxy type from the drop-down. The options available are: None Manual Auto If you select 'Manual', enter the details for IP address of the proxy server, proxy server port, proxy username and proxy password in the respective fields. You can also add variables by clicking the 'Variables' button Variables and clicking + beside the variable you want to add. If you select 'Auto', enter the URL of the Proxy Pac. You can also add variables by clicking the 'Variables' and clicking + beside the variables and clicking + beside the variables on variables, see Create and Manage Custom Variables. 			

• Click the 'Save' button.

The proxy server configuration will be added to the profile.



You can add more proxy server accounts to the profile.

- · To add another proxy server account, click 'Add Proxy' and repeat the process
- To view or edit a proxy server account, click on its name
- To remove a proxy server account, select it then click 'Delete Proxy'

The settings will be saved and displayed under the 'Proxy' tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Restrictions settings

· Click 'Restrictions' from the 'Add Profile Section' drop-down

The 'Restrictions' settings screen will be displayed.

General	Air Play Air Print Calendar Proxy Res	trictions
Re	strictions	🗙 Cancel 🕞 Save
Enal	Device functionality ble use of device features	
	Allow App installation	Supervised only
	Allow App uninstall	Supervised only
	Allow use of the iMessage	Supervised only
	Allow camera	
[Allow face time	
	Allow screen shot	
	Allow global background fetch when roaming	
	Allow assistant	
	Allow assistant while locked	
	Allow assistant user generated content	Supervised only, iOS 7+
	Forces the use of the profanity filter assistant	
	Allow voice dialing	^



Restrictions Settings - Table of Parameters				
		Device Functionality		
Form Element	Туре	Description		
Allow App Installation	Checkbox	Allows the user to install or update apps from the Apple App Store. If left unchecked, the App Store icon is removed from the device's home screen.		
Allow App uninstall	Checkbox	Allows the user to uninstall applications.		
Allow use of iMessage	Checkbox	Allows the user to quickly and easily chat over iMessage or SMS/MMS.		
Allow camera	Checkbox	Allows the user to take photos, videos or use FaceTime (if enabled). If left unchecked, the camera icon is removed from the device and camera is disabled.		
Allow face time	Checkbox	Allows the user to use FaceTime. Please note the 'Allow face time' can be enabled only if 'Allow Camera' is enabled.		
Allow screen shot	Checkbox	Select this to allow the user to take screenshots.		
Allow global background fetch when roaming	Checkbox	Select this to allow the device to sync data when in roaming mode abroad.		
Allow assistant	Checkbox	If enabled, users can use Siri voice commands and dictation.		
Allow assistant while Locked	Checkbox	If enabled, users can use Siri even when the device is locked. The checkbox will be active only when 'Allow Assistant' is enabled.		
Allow assistant user generated content	Checkbox	If enabled, users can use Siri to query user-generated content from the Internet or device. (Supervised mode only.)		
Forces the use of the profanity filter assistant	Checkbox	If enabled, enforces profanity filter for Siri.		
Allow voice dialing	Checkbox	Select this to allow the user to dial their phone using voice commands.		
Allow passbook while locked	Checkbox	If enabled, Passbook notifications will be displayed even when the device is locked.		
Allow in app purchases	Checkbox	Select this to allow the user to make in-app purchases from the device.		
Force iTunes store password entry	Checkbox	If enabled, users have to enter their Apple ID to enter the iTunes store.		
Allow multiplayer gaming	Checkbox	Select this to allow the user to play multiplayer games in Game Center.		
Allow adding game center friends	Checkbox	If enabled, users can add friends in Game Center.		
Allow account modification	Checkbox	Select this to allow user account modifications on devices. Note: This feature is available for iOS 7+ and supervised devices only.		
Allow air drop	Checkbox	Select this to allow Air Drop on devices.		
		Note: This feature is available for iOS 7+ and supervised devices only.		
Allow find my friends modification	Checkbox	Select this to enable Find My Friends feature on devices. Note: This feature is available for iOS 7+ and supervised devices only.		



	Restri	ctions Settings - Table of Parameters
Allow fingerprint for unlock	Checkbox	Select this to enable Touch ID to unlock devices.
		Note: This feature is available for iOS 7+ and supervised devices only.
Allow game center	Checkbox	If enable, users can access Game Center, an online multiplayer social gaming network. Note: This option is available for supervised devices only.
Allow host pairing	Checkbox	Select this to allow host pairing on devices.
		Note: This feature is available for iOS 7+ and supervised devices only.
Allow lock screen control center	Checkbox	Select this option to allow Control Center to be displayed in the lock screen.
		Note: This feature is available for iOS 7 and later versions.
Allow lock screen notifications view	Checkbox	Select this option to allow Notification Center to be displayed on the lock screen.
		Note: This feature is available for iOS 7 and later versions.
Allow lock screen today view	Checkbox	Select this option to allow the Today View from Notification Center to be displayed in the lock screen.
		Note: This feature is available for iOS 7 and later versions.
Allow OTAPKI updates	Checkbox	Select this option to allow over-the-air public key infrastructure (OTAPKI) updates on the device.
		Note: This feature is available for iOS 7 and later versions.
Allow UI configuration	Checkbox	Select this option to allow users to install UI configuration profiles.
profile installation		Note: This option is available for supervised devices only.
Force limit ad tracking	Checkbox	Select this to limit ad tracking on devices.
		Note: This feature is available for iOS 7 and later versions.
Forces all devices receiving AirPlay requests from this device to use a pairing password	Checkbox	If enabled, forces the use of pairing password for all other devices sending AirPlay requests to the device.
Allow managed applications from using cloud sync	Checkbox	If enabled, users can restrict managed apps backing up any data to iCloud, while still allowing it for user downloaded apps.
Allow the "Erase All Content And Settings" option in the	Checkbox	If enabled, users can remove his/her personal information: credit or debit card, photos, contacts, music, or apps.
Reset UI		Note: This feature is available for supervised devices only.
Spotlight will return Internet search results	Checkbox	If enabled, the spotlight features will provide suggestions from the Internet, iTunes, and the App Store for the user to quickly find any file, documents, emails, apps contacts and more on the device. (For supervised devices only.)
Allow the "Enable Restrictions" option in the Restrictions UI in Settings	Checkbox	If enabled, users can enable or disable 'Enable Restrictions' option in the 'Restrictions' user interface on the device. (For supervised devices only.)
Allow Activity Continuation	Checkbox	If enabled, user can control data flow through iCloud.



	Restrictions Settings - Table of Parameters				
Allow backed up Enterprise books	Checkbox	If enabled, users can backup iBooks and restrict synchronization to iCloud.			
Enterprise books notes and highlights will be synced	Checkbox	If enabled, allows the user to to sync Enterprise books, notes and highlights to iCloud.			
Allow podcasts	Checkbox	If enabled users can receive their favorite podcasts.			
		Note: This feature is available only for supervised devices with iOS 8 and later versions.			
Allow definition lookup	Checkbox	If enabled, allows the user to enable or disable spell check and definition features on the device.			
		Note: This feature is available only for supervised devices with iOS 8.1.3 and later versions.			
Allow predictive keyboard	Checkbox	If enabled, users can enable or disable the predictive keyboard feature.			
		Note: This feature is available only for supervised devices only with iOS 8.1.3 and later versions.			
Allow keyboard auto-	Checkbox	If enabled, allows user to enable/disable keyboard auto-correct feature.			
correction		Note: This feature is available only for supervised devices with iOS 8.1.3 and later versions.			
Allow keyboard spell-check	Checkbox	If enabled, allows user to enable/disable keyboard spell check feature.			
		Note: This feature is available only for supervised devices with iOS 8.1.3 and later versions.			
Paired Apple Watch will be forced to use Wrist	Checkbox	If an Apple Watch is paired with the device, the device forces the Apple Watch to enable Wrist Detection.			
Detection		Note: This feature is available for iOS 8.2 and later versions.			
Allow Music service and Music	Checkbox	If enabled, it allows third-party apps to add music to user's iCloud music library.			
		Note: This feature is available for iOS 9.0 and later versions.			
Allow iCloud Photo Library	Checkbox	If enabled, allows the user to upload photos and videos to iCloud photo library.			
Allow News	Checkbox	If enabled, users can subscribe to news services.			
		Note: This feature is available only for supervised devices with iOS 9.0 and later versions.			
Causes AirDrop to be considered an unmanaged	Checkbox	If enabled, all targets specified for the AirDrop feature will be considered as unmanaged drop targets.			
drop target		Note: This feature is available for iOS 9.0 and later versions.			
Enable the App Store on the Home screen	Checkbox	If enabled, displays the AppStore icon on the home screen of the device.			
Allow keyboard shortcuts	Checkbox	If enabled, allows the user to create and use keyboard shortcuts for typing snippets.			
		Note: This feature is available only for Supervised devices with iOS 9.0 and later versions.			
Allow pairing with an Apple	Checkbox	If enabled, allows the user to pair the device with an Apple Watch.			



	Restrie	ctions Settings - Table of Parameters
Watch		Note: This feature is available only for Supervised devices with iOS 9.0 and later versions.
Allow device passcode from being added, changed, or removed	Checkbox	If enabled, users can create and modify screenlock passcodes for the device. Note: This feature is available only for supervised devices with iOS 9.0 and later versions.
Allow device name modification	Checkbox	If enabled, allows users to change the device name. Note: This feature is available for only Supervised devices with iOS 9.0 and later versions.
Allow wallpaper modification	Checkbox	If enabled, allows user to change wallpaper displayed on the device. Note: This feature is available only for supervised devices with iOS 9.0 and later versions.
Allow automatic download applications	Checkbox	If enabled, allows applications in the device to automatically download and install apps and updates. Note: This feature is available only for supervised devices with iOS 9.0 and later versions.
Allow enterprise application trust	Checkbox	If enabled, 'Trusted' status is automatically applied to enterprise applications. Note: This feature is available for iOS 9.0 and later versions.
Allow enterprise application trust modification	Checkbox	If enabled, users can manually change the Trust status of enterprise applications. Note: This feature is available only for Supervised devices with iOS 9.0 and later versions.
Allow radio service	Checkbox	If enabled, users can use Radio services on their device. Note: This feature is available only for Supervised devices with iOS 9.3 and later versions.
Allow notifications modification	Checkbox	If enabled, user can modify 'Apple Push Notifications' settings on the device. Note: This feature is available only for Supervised devices with iOS 9.3 and later versions.
Whitelisted application bundles	Text box	 Allows you to add applications to the app whitelist. The applications in the whitelist will be skipped from security checks during installation and usage. Enter the App bundle ID of the application to be added to the whitelist. For more details on obtaining the App bundle ID, see the explanation at the end of this section. You can also add variables by clicking the 'Variables' button Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables. To add more Whitelisted application bundles, click + button.

	Postri	ctions Settings - Table of Parameters
	Restric	
		• To remove an app, click the — beside it.
		Note: This feature is available only for supervised devices with iOS 9.3 and later versions.
Blacklisted application bundles	Text box	Allows you to add applications to the app blacklist. The applications in the blacklist will not be allowed to be installed or used.
		 Enter the App bundle ID of the application to be added to the blacklist.
		For more details on obtaining the App bundle ID, see the explanation at the end of this section.
		You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
		 To add more Blacklisted application bundles, click the button. To remove an app, click the beside it.
		Note: This feature is available only for Supervised devices with iOS 9.3 and later versions.
		Security and privacy
Allow diagnostic submission	Checkbox	If enabled, the device will be enabled to submit its iOS diagnostic information to Apple.
Allow untrusted TLS prompt	Checkbox	If enabled, users will be prompted if they want to trust unverified certificates.
		This setting applies to Calendar accounts, Contacts, Safari and to Mail.
Force encrypted backup	Checkbox	If left unchecked, users can select whether or not to encrypt backups from the device to iTunes in a local computer.
		If this option is enabled, the backup data from the device to iTunes in local computer will be automatically encrypted.
		Content ratings
Allow explicit content	Checkbox	Content providers of iTunes flag their explicit content for easy identification.
		If enabled, explicit content including music and video will be displayed in iTunes store instead being hidden, in the device.
Allow iBookstore	Checkbox	If enabled, users can access iBookstore, an online bookstore from Apple. Note: This option is available only for supervised devices.
Allow iBookstore erotica	Checkbox	If enabled, users can download media tagged as erotica from iBooks. Note: This feature is available only for Supervised devices with versions prior to iOS 6.1.
Rating region	Drop-down	Select the region whose content ratings are to be followed, from the drop-down.
Rating movies	Drop-down	Choose the content rating to be allowed for watching movies.
	L	



Restrictions Settings - Table of Parameters				
Rating TV Shows	Drop-down	Choose the content rating to be allowed for watching the TV shows.		
Rating apps	Drop-down	Choose the rating to be allowed for using apps.		
	l	Applications		
Allow i Tunes	Checkbox	If enabled, users can access iTunes store. If left unchecked, iTune store is disabled and its icon will be removed from the home screen.		
Allow Safari	Checkbox	If enabled, users can use Safari for browsing internet. If left unchecked, the Safari browser app will be disabled and its icon will be removed from the home screen.		
Safari allow auto fill	Checkbox	If enabled, the 'auto-fill' feature will be enabled for Safari, to automatically fill details such as user name, password, credit card details and so on in web forms.		
Safari allow java script	Checkbox	If enabled, java script features will be supported by Safari.		
Safari allow popups	Checkbox	If enabled, popups will be allowed in Safari.		
Safari force fraud warning	Checkbox	If enabled, Safari displays alerts to users when visiting websites that are identified as compromised or fraudulent.		
Safari accept cookies	Drop-down	 Select the option on when Safari can accept cookies, from the drop- down. The available options: Always Never From visited site 		
Allow app cellular data modification	Checkbox	If enabled, user can modify cellular data usage settings for individual apps on the device. Note: This feature is available only for Supervised devices with iOS 7 or later versions.		
Allow open from Managed to Unmanaged	Checkbox	If enabled, users can send data from managed apps to unmanaged apps. Note: This feature is available for iOS 7 and later versions.		
Allow open from Unmanaged to Managed	Checkbox	If enabled, users can send data from unmanaged apps to managed apps. Note: This feature is available for iOS 7 and later versions.		
Autonomous single app mode permitted app bundle IDs	Text Field	 iOS apps built with the functionality of single App Lock, can provoke App Lock for them under certain scenarios in Autonomous single app mode. Administrators can specify the apps for which the mode can be enabled, by entering their App bundle IDs. Enter the App bundle ID of the application to be permitted for autonomous single app mode. 		
		For more details on obtaining the App bundle ID, see the explanation at the end of this section. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .		



	Restri	ctions Settings - Table of Parameters
		 To add more apps, click the button. To remove an app, click the beside it. Note: This feature is applicable only for Supervised devices with iOS 7 or later versions.
		iCloud
Allow cloud keychain sync	Checkbox	If enabled, the Apple Keychain data on the device will be synced to iCloud. Note: This feature is applicable only for iOS 7 and later versions.
Allow cloud backup	Checkbox	If enabled, users can backup their device data to iCloud. Note: This feature is applicable only for iOS 7 and later versions.
Allow cloud document sync	Checkbox	If enabled, users can synchronize documents on their device with iCloud. Note: This feature is applicable only for iOS 7 and later versions.
Allow photo stream	Checkbox	Allows users to use Photo Stream. Note: This feature is applicable only for iOS 7 and later versions.
Allow shared stream	Checkbox	If enabled, users can share and view photos in Photo Stream. Note: This feature is applicable only for iOS 7 and later versions.

• Click the 'Save' button.

The saved 'Restrictions Settings' screen will be displayed with options to edit the settings or delete the section. See **Edit Configuration Profiles** for more details.

To configure Single Sign-On settings

These settings are used to configure Kerberos authentication and are applicable for iOS 7 or later versions only. You can add several Single Sign On accounts to a profile.

Click 'Single Sign-On' from the 'Add Profile Section' drop-down

The 'Single Sign On' settings screen will be displayed.

ral	Air Play	Air Print	Calendar	Proxy	Single Sign-On	
Sing	le Sign-Oi	n				🗙 Cancel 🔲 Save
Name	•					10S 7+
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App Id	lentifier Mate	hes				10S 7+
Ap	p Identifier I	Matches				+Variables 🕂

	Ş	Single Sign-On Settings - Table of Parameters
Form Element	Туре	Description
Name*	Text Field	Enter the name for the account. You can also add variables by clicking the 'Variables' button <u>Variables</u> and clicking <u>beside the variable you want to add.</u> For more details on variables, see Create and Manage Custom Variables .
Principal Name*	Text Field	Enter the Kerberos principal name. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
Realm*	Text Field	Enter the Kerberos realm name with upper-case characters. You can also add variables by clicking the 'Variables' button * Variables and clicking * beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
URL prefix matches*	Text Field	Enter the URL prefix, which must be matched in order to use this account for Kerberos authentication over HTTP. You can also add variables by clicking the 'Variables' button * Variables and clicking * beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables . Click * button to add more 'URL prefix matches' fields. To remove a URL prefix, click the minus • button beside it.
App identifier matches	Text Field	Enter the bundle IDs of apps that are allowed to use this Single Sign-On account for logging-in to respective account. If this field is left blank, this login matches all app bundle IDs.

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Single Sign-On Settings - Table of Parameters					
	You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.				
	Click the minus button to add more 'App identifier matches' fields. To remove an App identifier match, click the minus button beside it.				

Click the 'Save' button.

The account will be added to the Single Sign-On section of the profile.

🇯 iOS Pro	iOS Profile for Purchase Department								
Image: Add Profile SectionImage: Export ProfileClone ProfileDelete Profile									
General	General Air Play Air Print Cellular Networks E-mail Single Sign-On								
Acme SS	50	acme_s	sso.com		ACME	Total 1 result.			

You can add several SSO accounts to the profile.

- To add another SSO account, click 'Add Single Sign-On' and repeat the process
- To view and edit an SSO account, click the name of it
- To remove an SSO account, select it then click 'Delete Single Sign-On'

The settings will be saved and displayed under the Single Sign-On tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Subscribed Calendar settings

Click 'Subscribed Calendars' from the 'Add Profile Section' drop-down

The 'Subscribed Calendar' settings screen will be displayed.

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Seneral	Air Play	Air Print	Calendar	Proxy	Single Sign-On	Subscribed Calendar		
Sub	scribed Ca	lendar					X Cancel	e
Descr	iption							
							+ Variables	
The d	escription of the	e calendar subsc	ription.					
URL	•							
							+ Variables	
The U	RL of the calend	lar file.						
Userr	ame							_
							+ Variables	
The u	sername for this	subscription.						
Passv	vord							
							+ Variables	
The p	assword for this	subscription.						
	se SSL							
Enable	e Secure Socket	Layer for this c	onnection.					

Subscribed Calendars Settings - Table of Parameters								
Form Element	Туре	Description						
Description	Text Field	Enter a description of the calendar subscription.						
		You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.						
URL*	Text Field	Enter the URL of the calendar account to be subscribed.						
		You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.						
Username	Text Field	The user name for the subscription.						
		If the profile is for several users, you can add variables for setting up subscription to respective user's calendar account. Click the 'Variables' button * Variables and click + beside '%u.login%' from the 'User Variables' list. The Usernames of the users to whom the profile is associated will be automatically filled. For more details on variables, see Create and Manage Custom Variables .						
Password	Text Field	The password for the subscription. Leave the field blank. The user will be prompted to enter the password while configuring the account for the first time. After it is validated, the users can access the account without entering the credentials.						
Use SSL	Checkbox	If enabled, SSL connection will be established with the calendar server, if available.						

Click the 'Save' button.

The calendar account will be added.

Gene	ral Air Pl	ay Air	Print	Calendar	Proxy	Single Sign-On	Subscribed Calendar	
Add Subscribed Calendars Delete Subscribed Calendars								
	HOST NAME				USER NAMI		DESCRIPTION	
	192.168.1.1						Purchase_sub_c	alendar

You can add several calendar accounts for a profile.

- To add another Subscribed Calendar account, click 'Add Subscribed Calendar' and repeat the process
- To view and edit a calendar account, click the Hostname of it
- · To remove a calendar account, select it and click 'Delete Subscribed Calendar'

The settings will be saved and displayed under the Subscribed Calendars tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure VPN settings

· Click 'VPN' from the 'Add Profile Section' drop-down

The settings screen for VPN will be displayed.

eral	Air Play	Air Print	Calendar	Proxy	VPN		
VPN	4					X Cancel) Sa
User	name						
						+ Va	riables
Displa	ay name of the o	connection (disp	layed on the devi	ce).			
Conn	ection type *						
L2	TP						`
The ty	pe of connection	on enabled by thi	is policy.				
) verride prim	hary					
	n Remote Add						
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						+ va	riables
Auth	Name						
						+ Va	riables
Usera	account for auth	henticating the c	onnection.				
Auth	Protocol *						
(Passwo	rd					
(RSA Sec	curlD					
Authe	ntication type f	or connection.					
Proxy	/						
Ch	loose Proxy					V Ad	d Nev

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	VP	N Settings - Table of Parameters
Form Element	Туре	Description
User name	Text Field	Enter the name of the connection, to be displayed on the device.
		You can also add variables by clicking the 'Variables' button
		and clicking ⁺ beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
Connection type*	Drop-down	Choose the VPN connection type from the drop-down. The options available are:
		• L2TP
		• PPTP
		• IPSec
		Cisco Any Connection
		Juniper SSL
		• F5 SSL
		Open VPN
		The connection parameters differ for each type. The parameters to be configured for each connection type are explained in the table below .
Proxy	Drop-down	Select the proxy settings for the VPN from the drop-down. You can create a new proxy by clicking the 'Add New' button beside it. The options available are:
		None
		Manual
		• Auto
		If you select 'Manual', enter the IP address of the proxy server, proxy server port, proxy username and proxy password in the respective fields.
		If you select 'Auto', enter the URL of the Proxy Pac.

VPN Connection Type settings

VPN Connection Type Settings - Table of Parameters								
Connection Type	Description							
L2TP	 Override Primary - Make this connection override the primary server. Comm Remote Address - Enter IP address or host name of the VPN server. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. 							
	 Auth Name - Enter the VPN account user name. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. 							
	 Auth Protocol - Select the authentication method. The available options are 'Password' and 'RSA SecurID'. 							
	Auth Password - If 'Password' is selected in 'Auth Protocol', enter							

	VPN Connection Type Settings - Table of Parameters
	 the VPN account password. Also, you can add a variable by clicking the 'Variables' button <u>Variables</u> and clicking <u>beside</u> the variable you want to add. Token Card - Select this if you have chosen 'RSA SecurID' in 'Auth Protocol'. Auth EAP Plugins - Applicable only if RSA SecurID is being used. Enter the 'EAP-RSA' value or add a variable by clicking the 'Variables' button <u>Variables</u> and clicking <u>beside</u> the variable you want to add. Shared secret - Applicable only if RSA SecurID is being used. Enter the shared secret or add a variable by clicking the 'Variables' button <u>Variables</u> and clicking <u>beside</u> the variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Variables</u> and clicking <u>beside</u> the variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u> secret or add a variable by clicking the 'Variables' button <u>Shared</u>
PPTP	 Override Primary - Make this connection override the primary server. Comm Remote Address - Enter the IP address or host name of the VPN server. You can also add variables by clicking the 'Variables' button and clicking beside the variable you want to add. Auth Name - Enter the VPN account user name. You can also add variables by clicking the 'Variables' button and clicking beside the variable you want to add. Auth Protocol - Select the authentication method. The available options are 'Password' and 'RSA SecurID' Auth Protocol - Select the authentication method. The available options are 'Password' and 'RSA SecurID' Auth Password - If 'Password' is selected in 'Auth Protocol', enter the VPN account password. Also, you can add a variable by clicking the 'Variables' button
IP SEC	 Override Primary - Make this connection override the primary server. Server - Enter the IP address or host name of the VPN server. You can add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add.

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VPN Co	nnection Type Settings - Table of Parameters
•	Account - Enter the VPN account name. You can add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add.
•	Password - Enter the password for the account . You can add a variable by clicking the 'Variables' button + Variables and clicking + beside the variable.
•	Authentication Method - Select the authentication method from the drop- down. The available options are:
	 Shared secret / Group name - If selected, enter the shared secret string and group name in the 'Shared secret' and 'Local identifier' fields.
	• Hybrid Authentication - If you want use server side certificate for authentication in combination with the Shared secret/Group name authentication for a more secure connection, then select the 'Hybrid authentication' option.
	Certificate - If you want client certificate type authentication, choose this option and configure the parameters as given below:
	 Password encryption - select this option if you want communications to be encrypted using the password as the key.
	 Prompt for VPN PIN - If selected, the user will be prompted to enter the VPN Pin while connecting.
	 On demand enabled - If selected, you can create rules for automatic establishment of the VPN connection based on the domains accessed. You can create a list of domains and specify the VPN connection establishment type for each domain.
	 Choose Certificate - The drop-down displays the certificates uploaded for the profile. Select the client certificate to be used for authentication. See the explanation of adding certificates to the profile for more details. If a new certificate is to be added, click 'Add New' and upload the certificate.
	 Domain and Type fields - Allows you to add a list of domains and specify VPN connection type for each domain, if 'On demand enabled' is selected.
	 Enter a domain name in the domain field and choose the establishment type from the 'Type' drop-down.
	 Always establish - Initiates a VPN connection for the domain.
	 Never establish - No VPN connection will be established while accessing the domain.
	 Establish if needed - The specified domains should trigger a VPN connection attempt if domain name resolution fails.
	Click 'Add' to add the domain to the list
	Repeat the process to add more domains for On Demand

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	VPN Connection Type Settings - Table of Parameters
	VPN connection establishment rules.
	• To remove a domain, click 'X' beside it.
	For more details on variables, see Create and Manage Custom Variables.
Cisco AnyConnection, F5	Override Primary - Make this connection override the primary server.
SSL and Open VPN	 Remote Address - Enter the IP address or host name of the VPN server. You can add variables too, by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add.
	 Auth Name - Enter the VPN account user name. You can add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add.
	Authentication Method - Select the authentication method from the drop- down. The available options are:
	 Shared secret / Group name - If selected, enter the shared secret string and group name in the 'Shared secret' and 'Local identifier' fields.
	 Certificate - If you want client certificate type authentication, choose this option and specify the certificate to be used:
	 Id Certificate - The drop-down displays the certificates uploaded for the profile. Select the client certificate to be used for authentication. See the explanation of adding certificates to the profile for more details. If a new certificate is to be added, click 'Add New' and upload the certificate.
	 On demand enabled - If selected, you can create rules for automatic establishment of the VPN connection based on the domains accessed. You can create a list of domains and specify the VPN connection establishment type for each domain.
	 Domain and Type fields - Allow you to add list of domains and specify VPN connection establishment type for each domain, if 'On demand enabled' option is selected.
	 Enter a domain name in the domain field and choose the establishment type from the 'Type' drop-down.
	 Always establish - Initiates a VPN connection for the domain.
	 Never establish - No VPN connection will be established while accessing the domain.
	 Establish if needed - The specified domains should trigger a VPN connection attempt if domain name resolution fails.
	Click 'Add' to add the domain to the list
	 Repeat the process to add more domains for On Demand VPN connection establishment rules.
	• To remove a domain, click 'X' beside it.
	For more details on variables, see Create and Manage Custom Variables.
Juniper SSL	Override Primary - Make this connection override the primary server.

VPN Co	onnection Type Settings - Table of Parameters
•	Remote Address - Enter the IP address or host name of the VPN server. You can add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. Auth Name - Enter the VPN account user name. You can add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add.
•	Realm - Enter the name of the authentication server. You can add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add.
•	Role - Enter the role of the user. You can also add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add.
•	Authentication Method - Select the authentication method from the drop- down. The available options are:
	 Shared secret / Group name - If selected, enter the shared secret string and group name in the 'Shared secret' and 'Local identifier' fields.
	 Certificate - If you want client certificate type authentication, choose this option and specify the certificate to be used:
•	Id Certificate - The drop-down displays the certificates uploaded for the profile. Select the client certificate to be used for authentication. See the explanation of adding certificates to the profile for more details. If a new certificate is to be added, click 'Add New' and upload the certificate.
•	On demand enabled - If selected, you can create rules for automatic establishment of the VPN connection based on the domains accessed. You can create a list of domains and specify the VPN connection establishment type for each domain.
	 Domain and Type fields - Allow you to add list of domains and specify VPN connection establishment type for each domain, if 'On demand enabled' option is selected.
	 Enter a domain name in the domain field and choose the establishment type from the 'Type' drop-down.
	 Always establish - Initiates a VPN connection for the domain.
	 Never establish - No VPN connection will be established while accessing the domain.
	 Establish if needed - The specified domains should trigger a VPN connection attempt if domain name resolution fails.
	Click 'Add' to add the domain to the list
	 Repeat the process to add more domains for On Demand VPN connection establishment rules.
	• To remove a domain, click 'X' beside it.
For mo	re details on variables, see Create and Manage Custom Variables.

• Click the 'Save' button.

The VPN connection will be added to the profile.

Gene	eral	Air Play	Air Print	Calendar	Proxy	VPN
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	NAM			co	NNECTION	TYPE
	VPN 1	I		L2	ТР	

You can add several VPN connection accounts to the profile.

- To add another VPN connection, click 'Add VPN' and repeat the process
- To view and edit the settings of a VPN connection, click its name
- To remove VPN connection, select it and click 'Delete VPN'

The settings will be saved and displayed under the VPN tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Per-App VPN settings

Note: If you would like to connect only certain apps to VPN, then this feature allows you to configure the settings. This feature is available for iOS 7 and later versions.

Click 'VPN Per App' from the 'Add Profile Section' drop-down

The settings screen for VPN will appear.

Per-App VPN	🗙 Cancel 🔲 Save
On Demand Match App Enabled	10S 7+
Safari Domains	10S 7+
Safari Domains	+Variables 🕂
User name	10S 7+
	+ Variables
Display name of the connection (displayed on the device).	
Connection type *	105.7+
Cisco AnyConnection	~
The type of connection enabled by this policy.	
Override primary	10S 7+
Remote Address *	IOS 7+
Auth Name	

- On Demand Match App Enabled Select this checkbox to enable per-app VPN connection.
- Safari domains Allows you to add domains for which VPN connection has to be established, when visited through Safari browser. You can add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom



Variables. Click the **T** button to add more domains in the field. If you want to remove a domain from the list, click the **—** button beside it.

For details on other settings please see 'To configure VPN settings'.

• Click the 'Save' button.

The VPN per App settings for the specified VPN server will be saved and added to the list.

General	Air Play	Air Print	Calendar	Proxy	VPN	Per-App VPN		
Add V	PN Per App	Delete VPN Per App						
	AE .		co	NNECTION	TYPE			
U Vpn	1	Cisco AnyConnection						

You can add multiple VPN servers for the profile.

- · To add another VPN server per App, click 'Add VPN Per App' and repeat the process
- · To view and edit the settings of a VPN connection, click its name
- To remove VPN connection, select it and click 'Delete VPN Per App'

The settings will be saved and displayed under the VPN tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Web Clip settings

Click 'Web Clip' from the 'Add Profile Section' drop-down

The 'Web Clip' settings screen will be displayed.

Web Clip					× Cancel	🕞 Sa
nes onp						
Label *						
						+ Variable
The name to disp	lay for the Web Clip.					
Url *						
						+ Variables
The URL to be dis	played when selecti	ing the Web Clip.				
Is Remova	ible					
Enable removal o	f the Web Clip.					
Pre Comp	osed					
The icon will be o	isplayed with no add	ded visual effects				
Full Scree	n					
Controls whether	the web clip launch	es as a Full Scree	n application			
lcon						

Web Clip Settings - Table of Parameters						
Form Element	Туре	Description				
Label*	Text Field	Enter the display name of the Web Clip. You can add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .				
URL*	Text Field	Enter the URL to be displayed when Web Clip is opened. You can add variables by clicking the 'Variables' button + Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.				
Is Removable	Checkbox	If enabled, users can remove the Web Clip from their devices.				
Pre Composed	Checkbox	If enabled, the Web Clip icon will be displayed with no added visual effects.				
Full Screen	Checkbox	If enabled, the user can choose to view the Web Clip full screen mode.				
lcon	Button	Upload the image to be used as icon for the Web Clip.				

· Click the 'Save' button.

The WebClip will be added to the list.

General	Air Play	Air Print	Calendar	Proxy	Web Clip				
🗟 Add W	eb Clip	Delete Web	Clip						
	IE.								
U Web	Clip 1								

You can add multiple web clips for a profile.

- To add another Web Clip, click 'Add Web Clip' and repeat the process
- To view and edit the settings for a web clip, click the name of it
- To remove a web clip, select it and click 'Delete Web Clip'

The settings will be saved and displayed under the 'Web Clip' tab. You can add more web clips and edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

To configure Wi-Fi settings

Click 'Wi-Fi' from the 'Add Profile Section' drop-down

The 'Wi-Fi' settings screen will be displayed.

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eral	Air Play	Air Print	Calendar	Proxy	Wi-Fi	
Wi-I	Fi					X Cancel 🕞 Save
SSID	*					
						+ Variables
Identi	fication of the v	vireless network	to connect to in i	OS 7.0 and la	ter, this is optional if a DomainName value is	provided.
	luto join					
Auton	natically join the	e target network.				
۰ ا	lidden netwo	ork				
Enabl	e if the target n	etwork is not ope	n or broadcastin	g.		
Encry	ption type					
No	one					~
Wirele	ess network end	ryption to use wi	hen connecting.			
Ргоху	1					
Ch	oose Proxy					✓ Add New
	s hotspot					
	Service provi	der roaming e	enabled			
						variables

Wi-Fi Settings - Table of Parameters					
Form Element	Туре	Description			
SSID*	Text Field	Enter a unique identifier (Service Set Identifier) of a wireless network that the device should connect to. Note: In iOS 7 and later versions, this is optional if Domain Name value is			
Auto Join	Checkbox	provided. If enabled, devices will automatically connect to the configured wireless network.			
Hidden Network	Checkbox	Select this option if the specified wireless network is hidden and not visible to Wi-Fi scans.			
Encryption Type	Drop- down	 Select the type of encryption used by the wireless network from the drop- down. The options available are: None WEP WPA / WPA2 Any WEP Enterprise WPA / WPA2 Enterprise Any (Enterprise) The Password field will appear if any of the options, WEP, WPA / WPA2 and 			

		Any (Personal) are chosen. If any of the Enterprise encryption type is chosen, then select the supported protocols and configure authentication. The options available are: TLS, LEAP, TTLS, PEAP, EAP-FAST, Use Pac, Provision pac and Provision Pac Anonymously, PAP, CHAP, MS CHAP ans MS CHAP V2
Password	Text Field	Enter the password to connect to the Wi-Fi network. If left blank, the user will be prompted to enter the password when the device attempts to connect to the network.
Proxy	Drop- down	Select the proxy settings for the wireless network from the drop-down. To include more proxies, click the 'Add New' beside the field. The 'Create New Proxy' dialog will be displayed. Enter the proxy name in the 'Name' field. 'The options available for proxy type are:
		None
		• Manual
		• Auto
		If you select 'Manual', enter the IP address of the proxy server, proxy server port, proxy username and proxy password in the respective fields and click the 'Create' button.
		If you select 'Auto', enter the URL of the Proxy Pac and click the 'Create' button.
Is Hotspot	Checkbox	If enabled, the network is treated as a hotspot.
Service Provider Roaming Enabled	Checkbox	If enabled, devices can connect to roaming service providers.
Domain Name	Text Field	Enter the domain name used for Wi-Fi hotspot to which the devices have to connect. This is optional and can be provided instead of Service Set Identifier. You can also add variables by clicking the 'Variables' button
		* Variables and clicking ⁺ beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .
		Note: This feature is available for iOS 7 and later versions.
Displayed Operator Name	Text Field	Enter the network operator name that will be displayed in the devices. You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
		Note : This feature is available for iOS 7 and later versions.
Roaming Consortium Ols	Text Field	Enter the Roaming Consortium Organization Identifier of the service provider to which the devices will connect to. You can add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
		To removed the field, click the — button beside it.
		Click the + button to add Roaming Consortium OIs fields.
		Note: This feature is available for iOS 7 and later versions.
NAI Realm Names	Text Field	Enter the Network Access Identifier (NAI) realm names used for Wi-Fi
		1



hotspot 2.0. You can add variables by clicking the 'Variables' button • Variables' and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables. To remove the field, click the — beside it.
Click the t button to add more NAI Realm Names. Note : This feature is available for iOS 7 and later versions.

Click the 'Save' button.

The Wi-Fi network will be added to the list.

Gene	ral Air Play	Air Print	Calendar	Proxy	Wi-Fi
5	Add Wi-Fi 🛛 🛅	Delete Wi-Fi			
	SSID				ENCRYPTION TYPE
	Purchase Dept. Wi Fi				None

You can add multiple Wi-Fi networks to the profile.

- · To add another Wi-Fi network, click 'Add Wi-Fi' and repeat the process
- To view and edit the settings of a Wi-Fi network, click on the SSID of it
- To remove a Wi-Fi network, select it and click 'Delete Wi-Fi'

The settings will be saved and displayed under the Wi-Fi tab. You can edit the settings, add or remove Wi-Fi networks or remove the Wi-Fi networks at anytime. See **Edit Configuration Profiles** for more details.

To configure App Lock settings

Tip: The 'App Lock' section allows you to restrict the ability of specific applications to use device resources. You can add only one application with app restriction settings for a profile. To have impose restrictions on several applications, create a profile for each and apply those profiles to the managed devices, as required.

• Click 'App Lock' from the 'Add Profile Section' drop-down The 'App Lock' settings screen will be displayed.

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eral	Air Play	Air Print	Calendar	Proxy	Wi-Fi	App Lock			
Арр	Lock							X Cancel	Save
	1. Delete App 2. Apply Profil	Lock section e without it ck section with	nside App Lock a new applicat		following s	teps are requir	red:		
Ident	ifier *								IOS 7+
)isable Touc	h							Supervised only
)isable Devid	e Rotation						l	Supervised only
)isable Volu	me Buttons							Supervised only
)isable Ringe	er Switch						1	Supervised only
)isable Sleep	Wake Butto	n						Supervised only
)isable Auto	Lock							Supervised only

	App Lock Settings - Table of Parameters						
Form Element	Туре	Description					
Identifier	Text field	Allows administrators to specify the app to be included in the App Lock section of the profile. You can specify an Apple iTunes Store App or Enterprise App.					
		 Enter the App bundle ID of the application to be included in the profile, with the app restrictions. 					
		For more details on getting the App bundle ID of an application, see the explanation given below this table.					
		You can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on					
		variables, see Create and Manage Custom Variables.					
		Note: This feature is available for iOS 7 and later versions only.					
Disable Touch	Checkbox	Touch screen inputs will be disabled for the app.					
Disable Device Rotation	Checkbox	The app will not be able to change display orientation.					
Disable Volume Buttons	Checkbox	The app will not be able to modify device volume.					
Disable Ringer Switch	Checkbox	Inputs through the ringer switch will be disabled for the app.					
Disable Sleep Wake Button	Checkbox	Inputs through the power/lock/wake button will be disabled for the app.					
Disable Auto Lock	Checkbox	The device will not auto-lock when this app is running.					

	Арр	Lock Settings - Table of Parameters
Enable Voice Over	Checkbox	Allows the user to use the voice over feature on the device for this app.
Enable Zoom	Checkbox	Allows the user to zoom-in/zoom-out the display for this app
Enable Invert Colors	Checkbox	Allows the user to invert the colors for the display screens of this app.
Enable Assistive Touch	Checkbox	Allows the user to use the 'Assistive Touch' feature on the device for this app.
Enable Speak Selection	Checkbox	Allows the user to use the 'Speak Selection' feature on the device for this app.
Enable Mono Audio	Checkbox	Allows the user to choose mono mode for audio output of this app.
Voice Over	Checkbox	Automatically switches ON the 'Voice Over' feature for the app.
Zoom	Checkbox	Automatically switches ON the 'zoom-in' feature for the app.
Invert Colors	Checkbox	Automatically switches ON the 'Invert Colors' feature when the app is used.
Assistive Touch	Checkbox	Automatically switches ON the 'Voice Over' feature when the app is used.

Click Save after configuring the parameters and options

The settings will be saved and displayed under 'App Lock' tab. You can edit the settings or remove the 'App Lock' section from the profile at anytime See **Edit Configuration Profiles** for more details.

Obtaining App Identifier

•

For App Store Application:

- 1. Find the iTunes Store download URL of the app. Example: https://itunes.apple.com/us/app/cmdm/id807480077?mt=8.
- 2. Copy the number after the id in the URL. (Here it is: 807480077).
- 3. Open https://itunes.apple.com/lookup?id=807480077 where you replace the ID with the one you looked up.
- 4. Search the output for "bundleID". In this example: "bundleId":"com.comodo.cmdm.client". So the Bundle ID is com.comodo.cmdm.client

For Enterprise Application:

The App bundle ID can be viewed from the App Details screen of the App.

- Click 'Application Store' from the left and choose 'iOS Store'
- Click on the app from the list displayed at the right

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Detail	
Name CDM	
Version 1.1	
Bundle ID com.comodo.cmdm.client	
Category * Developer Tools	
Supported devices	

6.1.3. Profiles for Windows Devices

Windows profiles let you specify settings for Comodo Client Security (CCS) installed on managed Windows devices.

There are two ways you can add a Windows profile:

- Create a profile in the EM interface. See Create Windows Profiles for more details.
- Import a profile from an endpoint which is running CCS, or import from a stored configuration profile (.cfg file). See **Import Windows Profiles** for more details.

6.1.3.1. Create Windows Profiles

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' then 'Create Windows Profile'
- Type a name and description for your profile then click 'Create'
- The new profile will appear in 'Configuration Templates' > 'Profiles'. Click the profile name to open its configuration screen.
- New profiles have only one section 'General'. Click 'Add Profile Section' to configure permissions and settings other sections. Each section you add will appear as a new tab.
- After you have configured your profile you can apply it to devices, users and device groups/user groups.
- You can make any profile a 'Default' profile by selecting the 'General' tab then clicking the 'Edit' button.
 - A 'default' profile is one that is applied automatically to any device which matches its operating system. You can have multiple 'default' profiles per operating system.
- This part of the guide explains the processes above in more detail, and includes descriptions of each profile section.

To create a new profile

Click 'Configuration Templates' > 'Profiles' > 'Create' > 'Create Windows Profile':

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Endpoint Manager		License
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
Q USERS >	t t	Es (
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Dele	ete Profile Exp
Profiles Alerts	Create Android Profile Create iOS Profile	ED BY
Procedures		spopular22@gma
Monitors	Create Windows Profile	
Create Windows Profile		×
Name		
Description		
Description		1
	Create	

- Enter a name and description for the profile
- Click the 'Create' button

Your profile will open at its configuration page:

Section neral General Settings Name * Finance Department Windows Computers Is Default	Finan	ce Departme	ent Window	s Computer	s				
General Settings Name * Finance Department Windows Computers Is Default									
Name * Finance Department Windows Computers Is Default	General Settings								
	Name * Finance D	epartment Windov	vs Computers						

- Click 'Edit' if you wish to modify basic profile settings:
 - 'Is Default?' A 'default' profile is one that is applied automatically to any device which matches its operating system. You can have multiple 'default' profiles per operating system.
- Click 'Save'.

The next step is to add profile sections.

- Each profile section contains a range of settings for a specific security or management feature.
- For example, there are profile sections for 'Antivirus', 'External Device Control', 'Firewall', 'Procedures' and so on.
- You can add as many different sections as you want when building your profile.
- To get started:
 - Click 'Add Profile Section'
 - Select the component that you want to add to the profile:

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Finance Departmen	t Windo	ws Comp	uters	
Add Profile Section 1	one Profile	Delete Profile	لنے) Make Default	
Antivirus				
Updates				
File Rating				
Firewall				
HIPS				
Containment	mputers			
VirusScope				
Valkyrie				
Global Proxy				
Clients Proxy				
Agent Discovering Settings				
UI Settings				
Logging Settings				
Client Access Control				
External Devices Control				
Monitors				
Procedures				
Remote Control				
Miscellaneous				

• Some sections require that target endpoints are restarted. You will see the following message if this is the case:

Device Restart Alert	×
Please be aware that adding «Antivirus» will require system restart for the endpoints with this profile. Would you like to continue?	ith
Confirm Cance	el

• Click 'Confirm' to continue.

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The new section will be available as a tab in the profile configuration page:

Financ	ce Departme	nt Window	s Computer	S				
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Default				
General A	ntivirus	>						
Antivirus							Save	Delete
Realtime Sc	an Scans	Exclusions						
	Realtime Scan (i ables virus scanning			events threats befo	e they enter yo	our system.		
	scanning optimi n to activate the perf			realtime scanning.				
🗌 Run cad	che builder when	n computer is i	dle					
Scan co	mputer memory	y after the con	nputer starts					

Use the following links to learn more about each profile section:

- Antivirus
- Update Settings
- File Rating
- Firewall
- HIPS
- Containment
- VirusScope
- Valkyrie
- Global Proxy
- Clients Proxy
- Agent Discovery Settings
- UI Settings
- Logging Settings
- Client Access Control
- External Devices Control
- Monitors
- CCM Certificates
- Procedures
- Remote Control
- Miscellaneous

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6.1.3.1.1. Antivirus Settings

The antivirus settings screen lets you configure real-time monitoring, custom scans and exclusions for a profile.

• Tip. Add a 'Miscellaneous' section to the profile if you want to setup registry monitoring. See Miscellaneous Settings for more details.

To configure Antivirus settings

- Click 'Configuration Templates' > 'Profiles'
- Open the profile you wish to work on
- Click 'Add Profile Section' > 'Antivirus'

The AV settings screen will open:

- **Real Time Scan** Configure the 'always-on' virus monitor. This is the core antivirus scanner that continuously protects your endpoints against malware.
- Scans Create a custom scan profile. A custom profile lets you scan specific areas and configure other options. You can also create a schedule for the scan. Multiple scan profiles can be added to a device profile.
- Exclusions Items that should be skipped on devices to which the profile is applied. Items you add here are excluded from real-time scans and any custom scan profiles.

Realtime Scan settings



General Antivirus	
Antivirus	😪 Cancel 💾 Save
Realtime Scan Scans Exclusions	
 Enable Realtime Scan (recommended) This option enables virus scanning when your computer is used and prevents threats before they enter your system. Enable scanning optimizations (recommended) Use this option to activate the performance improving technologies for Realtime Scanning. Do not show auto-scan alerts CCS 10.7+ Use this option to scan removable media such as USB sticks, CDs, DVDs, external 	
HDDs, etc. Ignore Run cache builder when computer is idle up to CCS 8.3	
 Scan computer memory after the computer starts Show Antivirus alerts 	
Quarantine threats	
 Decompress and scan archive files of extension(s): Extensions: *.exe *.rar *.zip Set new on-screen alert timeout to (sec.): 	
120Set new maximum file size limit to (MB):	
40	
Set new maximum script size limit to (MB):	
Use heuristic scanning	
Low	

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	Realtime Scan Settings - Table of Parameters
Form Element	Description
Enable Realtime Scan	The realtime scanner ensures your devices are constantly protected from malware. The scanner inspects files whenever they are created, opened or copied.
	Choose whether of not to enable real time scanning.
	(Default = Enabled)
Enable Scanning Optimizations	Various techniques to improve antivirus scan performance and reduce system resource use.
	Choose whether or not to enable scan optimization.
	(Default = Enabled)
Do not show auto-scan alerts	Choose whether or not to show a notification to end-users when an external device is connected to the endpoint.
	CCS can automatically scan external devices whenever they are connected. Example devices include external HDD's, USB sticks etc.
	Show alerts - End user can choose whether or not to scan the device from the alert
	 Don't show alerts - You have a choice of default responses that CCS should take:
	Ignore - The device will not be scanned
	Scan - The device will be scanned for viruses
	(Default = Enabled with 'Ignore' option)
Run cache builder when computer is idle	The antivirus cache builder runs whenever the computer is idle to boost the speed of real-time scans.
	(Default = Disabled)
	Applies only to CCS versions 8.3 or lower.
Scan computer memory after the computer starts	If enabled, CCS will scan system memory for threats after a re-boot. (<i>Default = Disabled</i>)
Chow optimize claste	
Show antivirus alerts	Configure whether or not to show alerts on the endpoints when malware is discovered. Disabling will minimize disturbance to the end-user but at some loss of user
	awareness.
	If you choose not to show alerts then you have a choice of default responses that CCS should automatically take:
	• Quarantine threats - Moves detected threat(s) to quarantine for assessment.
	Block threats - Deletes the threat.
	(Default = Enabled with 'Quarantine threats' option)
Decompress and scan archive files of extensions	The antivirus will open and scan archive files such as .jar, RAR, ZIP, ARJ, WinARJ and CAB.
	If enabled, you can choose which types of archive should be decompressed and scanned. Click the 'Extensions' link to view existing extensions and add new extensions.
	(Default = Disabled)
Set new on-screen alert	Specify how long an alert should stay on the screen at an endpoint.



timeout to (secs)	(Default = 120 seconds)						
Set new maximum file size to (MB)	Specify the maximum file size that the antivirus should attempt to scan. Files larger than the size specified here will not be not scanned. (<i>Default = 40 MB</i>)						
Set new maximum script size limit to (MB)	Specify the maximum size of a script that the antivirus should attempt to scan. Files larger than the size specified here are not scanned. (<i>Default = 4 MB</i>)						
Use heuristic scanning	Enable or disable heuristics scanning and define the scan level.						
	The scan level determines how likely the scanner is to classify an unknown file as a threat.						
	 Low - Lowest sensitivity to detecting unknown threats / generates fewest false positives. The 'low' setting combines an extremely high level of security and protection with a low rate of false positives. Comodo recommends this setting for most users. (<i>Default</i>) 						
	 Medium - Detects unknown threats with greater sensitivity than the 'Low' setting but with a corresponding rise in the possibility of false positives. 						
	 High- Highest sensitivity to detecting unknown threats / increased possibility of false positives. 						
	(Default = Enabled with 'Low ' option)						
	Background Note : Heuristic techniques identify previously unknown viruses and Trojans. 'Heuristics' describes the method of analyzing a file to ascertain whether it contains code typical of a virus. It is about detecting attributes which resemble a virus, rather than looking for a signature that matches a signature on the virus blacklist. This allows the engine to predict the existence of new viruses - even if they are not in the current virus database.						

• Click the 'Save' button at the bottom.

Custom Scans

The 'Scans' pane allows you to view, edit, create and run custom scan profiles. Each scan profile is a collection of scanner settings that tell CCS:

- Where to scan (which files, folders or drives should be covered by the scan)
- When to scan (you have the option to specify a schedule)
- How to scan (options that let you specify the behavior of the scan engine when running this profile
- You can add multiple scan-profiles to a device profile.

Endpoint Manager ships with three pre-configured scan profiles:

- Unrecognized Files Scanning CCS scans only unrecognized files on the target device.
- Full Scan CCS scans every drive, folder and file on the target device. External devices like USB drives and digital camera will also be scanned.
- Quick Scan CCS scans critical areas which are most prone to attack from malware. Scanned areas include system memory, auto-run entries, hidden services, boot sectors and other significant areas.

Click the 'Edit' icon *set* beside a profile name to modify which items are scanned, and to set up a scan schedule. For details on the parameters, see the **explanation** below.

To create a custom scan profile

- Open the 'Antivirus' scan of a device profile ('Configuration Templates' > 'Profiles' > 'Antivirus' section)
- Click the 'Scans' tab.
- Click the 'Add' button in the 'Scans' tab

General Monitoring Antivirus	
Antivirus	
Realtime Scan Scans Exclusions	
This section allows you to add, remove and edit scan profiles and scheduled tasks. + Add	
Add Scan Profile	×
Define items to be scanned, scanning options and running schedule. Scan name Scan name	
Items Add File Add Folder Add Region 	
PROFILE Options	
Schedule	
Cancel	Ж

The 'Add Scan Profile' dialog will open:

• Enter the name of the custom scan in the 'Scan name' field

The 'Items' section lets you choose a specific file, folder or region to that should be scanned by the profile.

- Add File A specific file that should be scanned. You can also add an entire extension by using the the wildcard character (e.g. *.exe).
- Add Folder Allows you to scan a particular directory.
- Add Region Scan a predefined region. For example, 'Entire Computer', 'Commonly Infected Areas' 'Memory' and 'Unrecognized Files'.

The selected items will be displayed as follows:

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Add Scan Profile	×
Define items to be scanned, scanning options and running schedule.	
Scan name	
Scan name	
Items	
Add File Add Folder Add Region	
PROFILE -	
Commonly infected areas	
Memory	
Options	
Schedule	
Cancel	к

• To remove an item from the list, select it and click 'Remove'.

The next step is to define how the selected items should be scanned.

Click 'Options'



Add Scan Profile X
Define items to be scanned, scanning options and running schedule.
Scan name
Scan name
Items
Options
Enable scanning optimizations up to CCS 8.3 This option increases the scanning speed significantly.
Decompress and scan compressed files
This option allows scanner to decompress archive files e.gzip, .rar, etc. during scanning. Use cloud while scanning
This option allows scanner to connect to cloud to query file ratings.
Automatically clean threats When the threats are identified, perform the selected action automatically.
Disinfect
Show scan results window Show results of scheduled scans and scans launched from a remote management portal.
Use heuristics scanning
Use the selected level of sensitivity while scanning heuristically.
Low
Apply this action to suspicious autorun entries CCS 10.7+ The selected action will be automatically applied if unrecognized Windows services, autostart entries or
scheduled tasks are detected.
Ignore Y
Limit maximum file size to (MB): While scanning, if a file size is larger than specified, it is not scanned.
40
Run this scan with Priority of scanner determines how much of the computer resources are used among other tasks.
Background
Update virus database before running This option makes sure the database is updated before running the scan.
Detect potentially unwanted applications
Potentially unwanted applications are programs that are unwanted despite the possibility that users consented to download it.
Schedule
Cancel

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Scan Options - Table of Parameters				
Form Element	Description			
Enable scanning optimizations	 The antivirus will employ various optimization techniques like running the scan in the background in order to speed-up the scanning process (<i>Default = Enabled</i>). Applies only to CCS versions 8.3 or lower. 			
Decompress and scan compressed files	The antivirus will open and scan archive files. Supported formats include RAR, WinRAR, ZIP, WinZIP ARJ, WinARJ and CAB archives (<i>Default = Enabled</i>).			
Use cloud while scanning	Augments the local scan with a real-time look-up of Comodo's online signature database. The cloud database is the most up-to-date version of our virus database, so antivirus scans are more accurate.			
	With 'Cloud Scanning' enabled, CCS is capable of detecting zero-day malware even if the local database is out-dated. (<i>Default = Enabled</i>).			
Automatically clean threats	CCS will automatically take action against detected threats instead of showing the results screen with a list of threats. You can choose the action to be taken from the drop-down. The available options are: Disinfect 			
	Quarantine (Default = Enabled with Disinfect ention)			
Obau again nagulta window	(Default = Enabled with Disinfect option)			
Show scan results window	Displays a results window at the end of a virus scan. The results windows shows all threats identified by the scan. (<i>Default = Disabled</i>)			
Use heuristic scanning	Enable or disable heuristics scanning and define the scan level.			
	The scan level determines how likely the scanner is to classify an unknown file as a threat.			
	 Low - Lowest sensitivity to detecting unknown threats / generates fewest false positives. The 'low' setting combines an extremely high level of security and protection with a low rate of false positives. Comodo recommends this setting for most users. (Default) 			
	 Medium - Detects unknown threats with greater sensitivity than the 'Low' setting but with a corresponding rise in the possibility of false positives. 			
	 High- Highest sensitivity to detecting unknown threats / increased possibility of false positives. 			
	(Default = Enabled with 'Low ' option)			
	Background Note : Heuristic techniques identify previously unknown viruses and Trojans. 'Heuristics' describes the method of analyzing a file to ascertain whether it contains code typical of a virus. It is about detecting attributes which resemble a virus, rather than looking for a signature that matches a signature on the virus blacklist. This allows the engine to predict the existence of new viruses - even if they are not in the current virus database			
Apply this action to suspicious autorun entries	CCS will inspect auto-run entries, Windows services, startup items and scheduled tasks during each scan.			
	 You can apply one of the following actions to services started by unrecognized or malicious processes: 			
	• Quarantine and Disable : The service will be stopped and permanently disabled. The file that started the service will be quarantined on the device.			

Scan Options - Table of Parameters					
Form Element	Description				
	 Terminate and Disable - The service will be stopped and permanently disabled. If required, the service can be enabled manually. (<i>Default</i>) 				
	• Terminate - The service will be stopped for the current session.				
	 Ignore -The detection will be logged but the service allowed to run normally. 				
	Applies only to CCS versions 10.7 or higher.				
Limit maximum file size to	Specify the maximum file size that the antivirus should attempt to scan.(<i>Default</i> = <i>40 MB</i>).				
Run this scan with	Set the Windows priority for the scan. Choices are high, medium, low and run in the background. (<i>Default = Enabled with Background option</i>)				
Update virus database before running	Makes CCS to check for virus database updates before a scan. Available updates will be downloaded prior to the scan.				
	(Default = Enabled).				
Detect potentially unwanted	CCS also scans for applications that				
applications	(i) a user may or may not be aware is installed on their computer and				
	(ii) may functionality and objectives that are not clear to the user.				
	Example PUA's include adware and browser toolbars. PUA's are often installed as an additional extra when the user is installing an unrelated piece of software. Unlike malware, many PUA's are 'legitimate' pieces of software with their own EULA agreements. However, the 'true' functionality of the software might not have been made clear to the end-user at the time of installation. For example, a browser toolbar may also contain code that tracks a user's activity on the Internet (<i>Default</i> = <i>Enabled</i>).				

The next step is to schedule when the custom scan should be run.

• Click 'Schedule'

hedule							
equency:	^		^		_		
Do not schedule this task	02	:	00	AN	4		
Every hour(s) CCS 10.8+ Every day	· ·		×				_
Every week			3	4		6	7
Every month	8						
	15		17				21
	22			25	26	27	
	29		31				
Run only when computer is not Run only when computer is idle Turn off computer if no threats	e			of the s	scan		

Schedule Settings - Table of Parameters					
Form Element	Description				
Frequency	 Do not schedule this task - The scan profile will be created but will not be run automatically. The profile will be available for manual on-demand scanning 				
	 Every hour(s) - Run the scan once every n hours. For example, once every 3 hours. 				
	• Enter the number of hours between scans in the box provided.				
	• Every Day - Runs the scan every day at the time specified				
	• Every Week - Scans the areas defined in the scan profile on the day(s) of the week specified in 'Days of the Week' field and the time specified in the 'Start Time' field. You can select the days of the week by directly clicking on them.				
	• Every Month - Scans the areas defined in the scan profile on the day(s) of the month specified in 'Days of the month' field and the time specified in the 'Start Time' field. You can select the days of the month by directly				



Schedule Settings - Table of Parameters					
	clicking on them.				
Run only when computer is not running on battery	Runs the scan only if the computer is connected to the mains supply. This is useful if you are using a laptop or any other battery driven portable computer.				
Run only when computer is idle	Scans will run only if the computer is in idle state. Select this if you do not want to be disturbed, or if you are running resource intensive programs and do not want the scan to take processing power.				
Turn off computer if no threats are found at the end of the scan	Powers down your computer if no threats are found during the scan. For example, this is useful if you have scans which are scheduled to run at night.				

Click 'OK' to save the custom scan settings

General Monitoring Antivirus	
Antivirus	😣 Cancel 🖺 Save
Realtime Scan Scans Exclusions	
This section allows you to add, remove and edit scan profiles and scheduled tasks.	
+ Add Remove	
NAME \$	
Unrecognized Files Scanning	ON 🖉
Full Scan	ON 🖉
Quick Scan	ON 🖉
Sch_scan_for_dithers	ON

The added scan profile will be listed in the screen.

- Use the switches to enable or disable a scan-profile.
- To change the settings for the custom scan, click the edit button 🧳 , edit the parameters and click 'OK'
- To remove a custom scan from the list, select it and click 'Remove'

Exclusions

The 'Exclusions' screen under the Antivirus setting has three sub sections that allow you to add a list of paths, list of applications/files and 'File Groups' which should be excluded from the antivirus scan.

Click 'Exclusions'



To add excluded paths

By default the 'Excluded Paths' screen will be displayed:

General Monito	oring Antivirus		
Antivirus			🙁 Cancel 💾 Save
Realtime Scan	Scans Exclusions	_	
Excluded Paths	Excluded Applications	Excluded Groups	
Add			
■ PATH ≎			

Click 'Add' .

The 'Add Excluded Path' dialog will appear:

Add Excluded Path		×
Path		
Path		
	Cancel	ок
Enter the full path that should be excluded from scanning and click 'OK'.		

Enter the full path that should be excluded from scanning and click 'OK'.

The added excluded path will be added to the list.

General Monitoring Antivirus		
Antivirus		Cancel 🖺 Save
Realtime Scan Scans Exclusions		
Excluded Paths Excluded Applications	Excluded Groups	
Add Remove		
PATH 🗢		
C:\Program Files\Paint.Net		1

- Repeat the process to include more paths
- To change the path, click the edit button \checkmark , edit the parameters and click 'OK'
- To remove a path from the list, select it and click 'Remove'

To add excluded applications

Click 'Excluded Applications'

General Monitor	ing Antivirus			
Antivirus			Cancel	🖺 Save
Realtime Scan	Scans Exclusions			
Excluded Paths	Excluded Applications	Excluded Groups		
Add				
PATH \$				
System %	Root%\System32\SearchIndex	er.exe		1
Click 'Add'				

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Add Excluded Application		×
Path Path		
	Cancel	ОК

Enter the full path including the application that should be excluded from scanning and click 'OK'

General Monitoring Antivirus	
Antivirus	🗙 Cancel 🖺 Save
Realtime Scan Scans Exclusions	
Excluded Paths Excluded Applications Excluded Groups	
Add 🗢 Remove	
□ PATH ≑	
%SystemRoot%\System32\SearchIndexer.exe	1
C:\Program Files (x86)\OpenOffice 4\program\soffice.exe	1

• Repeat the process to include more applications

- To change the application path, click the edit button 🧳 , edit the parameters and click 'OK'
- To remove an application from the list, select it and click 'Remove'

To add Excluded Groups

File groups are handy, predefined groupings of one or more file types. File groups make it easy to exclude an entire class of file types. EM ships with a set of predefined 'File Groups'. Users, can add new groups and edit existing groups. See 'File Groups' under 'Settings' > 'System Templates' > 'File Groups Variables'.

Click 'Excluded Groups'

Oreand Manifesing Artivian	
General Monitoring Antivirus	
Antivirus	😵 Cancel 🖺 Save
Realtime Scan Scans Exclusions	
Excluded Paths Excluded Applications	Excluded Groups
Add	
GROUPS -	

• Click 'Add'.

The 'Add Group' dialog will appear.

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Add Excluded Group	×
Group	
Executables	~
Executables	^
All Applications	
Windows Updater Applications	
Windows System Applications	
COMODO Client Files/Folders	
COMODO Client - Security	
Startup Folders	
Windows Management	
3rd Party Protocol Drivers	
Metro Apps	
Management and Productivity Applications	
Web Browsers	
Email Clients	
Suspicious Locations	
Shared Spaces	
File Downloaders	
Pseudo File Downloaders	
File Archivers	
Containment Folders	
Important Files/Folders	~

• Choose the group from the 'Group' drop-down and click 'OK'.

The group will be added to the exclusions.

General Monitoring Antivirus	
Antivirus	😵 Cancel 📔 Save
Realtime Scan Scans Exclusions	
Excluded Paths Excluded Applications	Excluded Groups
Add Remove	
■ GROUPS ►	
Executables	

- Repeat the process to add more file groups
- Click the 'Save' button at the bottom to save the antivirus settings.
- Click 'Delete' to remove the antivirus settings section. See Edit Configuration Profiles for more details about editing the parameters.

6.1.3.1.2. Communication Client and Comodo Client - Security Application Update Settings

The 'Updates' component of a Windows profile lets you configure when managed computers should check for updates for communication client (CC) and Comodo Client - Security (CCS). You can also specify the location from where updates should be downloaded.

Tip: You can also manually update CC and CCS on selected endpoints from the 'Device List' interface. See **Remotely Install and Update Packages on Windows Devices** for more details.

To configure Update Settings

• Click 'Updates' from the 'Add Profile Section' drop-down in the Windows Profile interface

The 'Updates' settings screen will open:

eneral Antivirus	Updates		
communication Client	Comodo Client - Security	Download Servers	
Communication C	lient		Save
	ting Communication Client atically updating Communication Clie	nt to the	
Daily (default)		~	
Start time 📵			
6 🔷 🛛 Mir	nutes 🔿 🗛 PM		
The updates will be perform update will last approximat	ned according to the set schedule. Ea ely one hour.	ich	

The settings screen for updates has three tabs:

- **Communication Client** Enable automatic program updates for CC and configure a schedule.
- Comodo Client Security Enable automatic program updates for CCS and configure a schedule.
- Download Servers Specify the server from which managed endpoints should collect updates.

Communication Client

Click the 'Communication Client' tab

The 'Communication Client' tab allows you to enable or disable automatic program updates for the EM communication client and set a schedule for the endpoints to check for availability and download the updates.

General Antivirus	Updates		
Communication Client	Comodo Client - Security	Download Servers	
Communication Cl	ient		Save
	ting Communication Client atically updating Communication Clie	ent to the	
Daily (default)		~	
Start time 📵			
6 🔷 : Min	AM PM		
The updates will be perform update will last approximat	ned according to the set schedule. Ea ely one hour.	ach	

- Enable auto-updating Communication Client Forces the endpoint to check for and install CC program updates at the selected frequency. You can set the location of the download server in the 'Download Servers' tab. Deselect if you want to disable auto updates.
- Update Frequency Choose how often CC should check for updates. The available options are:
 - Daily (Default) The application will check for updates everyday at 6:00 am everyday
 - Daily (custom) Enter the time in hours and minutes and choose AM or PM for the auto-update.

Daily	(custom)		~
tart time	•		

Weekly - Select the days and specify the time for the updates to be checked every week

eneral Antivirus	Updates			
ommunication Client	Comodo Client - Security	ownload Servers		
Communication C	ient		🙁 Cancel	Save
	ting Communication Client atically updating Communication Client t	0		
Weekly				
Start time 🟮				
6 🔷 : Mir	attes 🌔 AM PM			
The updates will be perform update will last approximation	ned according to the set schedule. Each ely one hour.			
Days of the week		Select All Reset		
Sunday Monda	r Tuesday Wednesday 1	Thursday Friday Saturday		

• On selected days - You can select the custom day(s) in a month for auto update. For example you may wish the auto update to be scheduled on every first and third Wednesdays of every month.

General Antivirus	Updates				
Communication Client	Comodo Client - Security	Download Servers			
Communication C	lient			Cancel	Save
	ting Communication Client atically updating Communication Clie	ent to			
Update frequency					
On selected days		~			
Start time 📵					
6 🔷 : Mir	nutes 🔶 🗚 PM				
The updates will be perform update will last approximation	med according to the set schedule. Ea tely one hour.	ach			
Days of the week			Select All Reset		
	y Tuesday Wednesday				
Ordinal number of the se	elected days of the week Se	elect All Reset			
First Second	d Third Fourth				

Monthly - Select the date(s) and specify the time for the updates to be checked every month

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General	Antiv	virus	Up	dates									
Communi	cation C	lient	C	omodo	Client	- Security		Download Servers	3				
Comn	nunica	tion C	Clien	t						8	Cancel	S E	ave
This opti the lates		es autor				tion Client	lient	t to					
Mon	thly							~					
Start tin	ne												
6	\sim	: M	inutes	$\hat{\mathbf{x}}$	AM	PM							
	ates will b vill last ap) to the	set schedule	Eac	h					
Days of	month			S	elect A	II Reset							
1													
15													

• Click 'Save'.

Comodo Client - Security

Click the 'Comodo Client - Security' tab

The 'Comodo Client - Security' tab allows you to enable or disable automatic program updates and virus signature database updates for the CCS application on the at the endpoints and set a schedule for auto-updates.

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General	Antivirus	Updates	
Communic	ation Client	Comodo Client - Security	Download Servers
_			
Como	do Client - S	ecurity	😒 Cancel 🖺 Save
Applica	tion Updates		
		odating Comodo Client - Secu tomatically updating CCS to the lates	
Upda	ate frequency		
Da	aily (default)		
Star	t time 📵		
	7 🔶 :	Minutes 💭 🗚 PM	
	Skip updates i	f the device is offline	
	oot options		
0	Force the rebo	oot in	
	5 minutes		11
0 :	Suppress the r	reboot 📵	
01	Warn about th	e reboot and let users postpo	one it
Rebr	oot message		
		e that the device owner will g	ret
	efore the rebo		
Virus da	atabase updat	ies	
	Check for data	abase update every	
[1	Hours	
	Do not check f	for updates if running on batt	tery
		ates during Windows Automa	atic
	Maintenance ies to Windows 8 a	and higher	

- Enable auto-updating Comodo Client Security Forces the endpoint to check for and install CCS program updates at the selected frequency. You can set the location of the download server in the 'Download Servers' tab. Deselect if you want to disable auto updates.
- Update Frequency Choose how often CCS should check for updates. The available options are:
 - Daily (Default) The application will check for updates everyday at 7:00 am everyday
 - Daily (custom) Enter the time in hours and minutes and choose AM or PM for the auto-update.
 - · Weekly Select the days and specify the time for the updates to be checked every week
 - On Selected Days You can select the custom day(s) in a month for auto update. For example you may wish the auto update to be scheduled on every first and third Wednesdays of every month.
 - · Monthly Select the date(s) and specify the time for the updates to be checked every month

- Skip updates if the device is offline Select this option if you want the updates to be skipped if the endpoint is not connected to EM.
- · Reboot Options Configure how the endpoint should restart after installation of an update
 - Force the reboot in If enabled, devices will be automatically rebooted per the time selected from the drop-down. You can also enter an appropriate message in the 'Reboot message' field that will be displayed on the endpoints to warn users about the upcoming forced reboot.
 - Suppress the reboot If enabled, reboot command will not be applied. Please note some updates require device reboot to become fully functional.
 - Warn about the reboot and let users postpone it If enabled, users will be alerted about the
 required device restart and allows them to choose the time when to reboot. You can also enter an
 appropriate message in the 'Reboot message' field that will be displayed on the endpoints to warn
 users about the required reboot.
- Virus database Updates Configure when the endpoint should automatically check for virus signature database updates and apply them
 - Check for database update every If you want to enable automatic and periodical virus signature database updates for the endpoint, select this option and choose the frequency from the dropdown,
 - Do not check for updates if running on battery This option is useful for devices like a laptop or any other battery driven portable computer. Selecting this option checks for updates only if the computer runs with the adopter connected to mains supply and not on battery.
 - Check for updates during Windows Automatic Maintenance Applicable only for for Windows 8 and later. Select this option if you want CCS to check for virus database updates when Windows enters into automatic maintenance mode. The update will run at maintenance time in addition to the configured schedule.
- Click 'Save'.

Download Servers

- The 'Download Servers' tab lets you add and select the servers from which endpoints should collect updates.
- You may wish to first download updates to a proxy/staging server and have endpoints collect updates from there. This helps conserve overall bandwidth consumption and accelerates the update process when large number of endpoints are involved.
- You can configure different proxy servers for Comodo Client Security and Comodo Client Communication.

Note: You need to install an offline update utility on the local cache servers in order to get regular updates from Comodo. Contact your Comodo account manager or Comodo support for the same.

Click the 'Download Servers' tab

General Antivirus	Updates			
Communication Client	Comodo Client - Security	Download Servers		
Download Servers	5		😢 Can	cel 📱 Save
🔂 Add 💮 Edit	🛞 Remove 🛛 🚫 Move Up	🕑 Move Down		
TRANSFER PRO	DTOCOL SERVER		CLIENT	STATUS
HTTP	download.comod	o.com	Client Security	ON

By default, EM is set to download updates from the Comodo servers. You can add your local servers here, edit, reorder the list of servers and remove servers if required.

• To add a server, click 'Add'

The 'Add Server' dialog will be displayed.

Add Server	×
Transfer Protocol HTTP	~
Host *	
Client	
Client Security	~
	Add

- Transfer Protocol Select HTTP or HTTPS
- Host Enter the server details in the 'Host' field, either IP or the host name.
- Client Select the item for which the update proxy server should be configured:
 - Communication Client
 - Client Security
 - Communication Client + Client Security
- Click 'Add'. Repeat the process to add more servers.

General	Antivirus	Updates				
communicat	tion Client	Comodo Clien	t - Security	Download Servers		
Download Servers Cancel Save						
🕂 Add	🕀 Edit	🛞 Remove	🔿 Move Up	🕑 Move Down		
	RANSFER	SERVER			CLIENT	STATUS
H	TTP	download.co	omodo.com		Client Security	ON
H	TTP	local.downlo	oad.net		Communication Client + Client Security	OFF
H	TTP	local2.doma	iin2.net		Communication Client	ON

• Use the 'on-off' switch to enable or disable a server. You need to add the server to a profile in order for endpoints to use it.

You can edit, remove or reorder the list of servers.

- To edit a server details, select it and click the 'Edit' button at the top.
 - Update the details as required and click the 'Set' button
- To remove a server, select it and click 'Remove' at the top

The updates are checked from the server at the top and moves down the list. You can reorder the list of servers.

- To reorder the server list, select the server(s) and click 'Move Up' or 'Move Down'
- Click 'Save' for the changes to updated in the profile.

6.1.3.1.3. File Rating Settings

•

The CCS rating system is a cloud-based file lookup service (FLS) that ascertains the reputation of files on the computer. Whenever a file is first accessed, CCS will check the file against Comodo's master whitelist and blacklists and will award it trusted status if:

- The application is from a vendor included in the Trusted Software Vendors list;
- The application is included in the extensive and constantly updated Comodo safelist;
- The application/file is awarded 'Trusted' status in the local File List.

Note: CCS uses Ports 4446 and 4447 of the endpoint computers for TCP and UDP connections to the cloud. If this option is enabled, we advise you keep these ports free and do not assign them to other applications.

The interface lets you configure the overall behavior of the file rating system on Windows devices to which the profile is applied. You can also choose whether or not local file ratings should be consulted.

To configure File rating settings

- Click 'Configuration Templates' > 'Profiles'
- Click on the name of a Windows profile to open it's details page
 - Click the 'File Rating' tab, if it has already been added to the profile OR
 - Click 'Add Profile Section' > 'File Rating" if it hasn't yet been added



The file rating screen has two tabs:

- File Rating Enable file rating and configure overall behavior.
- Local Verdict Server Settings Choose whether Endpoint Manager should obey or ignore the trust rating of files saved on the local installation. If disabled, file rating scans will only consider the verdicts of the cloud server.

Fil	e Rating	Settings				
	General	File Rating				
	File Rating	Local Verdict Server Settings				
	File Ra	ting Save				
	🔳 Enab	ble Cloud Lookup (recommended)				
	E	nable upload metadata of unknown files to the cloud				
	Show cloud alert This option, when disabled, automatically applies "Block and Terminate" action to malware detected by cloud scanning.					
	Dete	ct potentially unwanted applications				
		es whose absolute path is specified and which no longer exist will be purged i.e. only local unrecognized files will be affected.				
	🔳 Enab	com FLS access ports ple report for non-executable files w non-executable files				

File Rating Configuration - Table of Parameters				
Form Element	Description			
Enable Cloud Lookup	 CCS automatically checks the reputation of files on Comodo's file lookup service (FLS). Disable this option if you do not want CCS to use the cloud rating. (<i>Default = Enabled</i>) 			
Enable upload metadata of unknown files to the cloud	 CCS uploads anonymized information about unknown files to Comodo servers. This allows us to analyze and whitelist/blacklist files more effectively. Disable this option if you do not want CCS to send metadata to Comodo servers. (Default = Enabled) 			
Show Cloud Alert	 CCS can show an alert on the device when malware is found during a file rating scan. Users can block or allow the malware from the alert. Disable this option if you don't want users to see an alert. If disabled, CCS will automatically block and delete any discovered malware. (Default = Disabled) 			
Detect potentially	A potentially unwanted application (PUA) is an app that:			



	File Rating Configuration - Table of Parameters
unwanted applications	A user may or may not be aware is installed on their computer.
	 May have functionality and objectives that are not clear to the user.
	PUAs include adware and browser toolbars. They are often installed as an extra when the user is installing an unrelated piece of software. Unlike malware, many PUA's are legitimate pieces of software with their own EULA agreements. However, the true functionality of the software may not have been made clear to the end-user at the time of installation. For example, a browser toolbar may also contain code that tracks a user's activity on the Internet.
	CCS will show an alert on the endpoint if it detects a PUA and a log entry is created.
	(Default = Disabled)
Auto-Purge is enabled	CCS checks the file list and removes invalid and obsolete entries. You can specify the interval at which the check should take place.
	(Default = Enabled)
Auto Purge Period	The time interval at which auto-purge operations are performed.
	Enter the time interval in hours.
	(Default = Four hours)
Custom FLS access	Define custom ports through which the file lookup service will connect.
ports	Select the protocol(s) and enter the port details for UDP or TCP connections.
	(Default = Disabled)
Enable report for non- executable files	If enabled, CCS sends a report on files identified as non-executable to EM on each file rating scan.
	(Default = Enabled)
Show non-executable files	If enabled, non-executable files will also be added to the 'File List' interface of CCS on the endpoint.
	To access the file list in CCS, click 'Tasks' > 'Advanced Tasks' > 'Advanced settings' > 'Security settings' > 'File Rating' > 'File list'.
	(Default = Enabled)

• Click 'Save' to apply your file rating settings.

Local Verdict Server Settings

eneral	File Rating					
le Rating	Local Verdict	Server Setting	gs			
Local	Verdict Server S	ettings			🙁 Cancel	💾 Save
	ble Local Verdict S f or unknown files	Server 📵				
	Minutes	~				
2						
	for known files («Tru	sted», «Malwa	are» and «Unrecognized»)		

Local Verdict Server Settings - Table of Parameters				
Form Element	Description			
Enable Local Verdict Server	 Local trust verdicts are those stored in CCS on an endpoint. For example, a user can assign a trust level to a file when answering an alert. Users and admins can also manually assign a trust verdict to a file in CCS. Enabled - CCS will obey the local trust verdict on a file in the event of a conflict with the cloud verdict. Disabled - CCS will ignore local verdicts and only use cloud verdicts to determine the trust level of a file (<i>Default = Enabled</i>) 			
Timeout for Unknown Files	Validity period of locally-set trust ratings for unknown files. Unknown files are those that do not have a Comodo or admin rating. CCS will re-check the local rating when the timeout expires. (<i>Default = 2 Minutes</i>)			
Timeout for known files (Trusted, malware and Unrecognized)	Validity period of locally-set trust ratings for all types of files - malware, trusted and Unrecognized. CCS will re-check the local rating when the timeout expires. (<i>Default = 1 Hour</i>)			

• Click 'Save' to apply your changes.

6.1.3.1.4. Firewall Settings

The Firewall Settings area allows you to configure the behavior of the CCS firewall on endpoints to which the profile is applied. You can also configure network zones, portsets and traffic filtering rules.

To configure Firewall Settings and Traffic Filtering Rules

Click 'Firewall' from the 'Add Profile Section' drop-down

The Firewall settings screen is displayed. It has six tabs:

- Firewall Settings Configure the general firewall behavior
- Application Rules Define rules that determine the network access privileges of individual applications or specific types of applications at the endpoint
- Global Rules Define rules that apply to all traffic flowing in and out of the endpoint
- **Rulesets** Create and manage predefined collections of firewall rules that can be applied, out-of-the-box, to Internet capable applications such as browsers, email clients and FTP clients.
- **Network Zones** Create named grouping of one or more IP addresses. Once created, you can specify a zone as the target of firewall rule.
- Portsets Define groups of regularly used ports that can used and reused when creating traffic filtering rules.

Firewall Settings

General Sar	ndbox HIPS	Antivirus	File Rating	Firewall	Viruscope	Valkyrie
Firewall					Save	Delete
Firewall Settings	Applicatio	n Rules Glo	bal Rules 🛛 F	Rulesets	Network Zones	Portsets
Enable Traf	fic Filtering (Red	ommended)				
This option enables			nd traffic.			
Safe Mode						~
Show popu	p alerts					
Auto action:	parento					
Allow Reques	its					~
Turn traffic	animation effec	ts on				
	s for safe applic					
	equency level					
Low						~
Cot pow op	-screen alert tim					
	screen alert un	eout to (sec.).				
120						
Filter IPv6 t	raffic					
Filter loopb	ack traffic (e.g.	127.x.x.x, ::1)				
Block fragn	nented IP traffic					•
Do Protoco	l Analysis					~
Enable anti-	ARP spoofing					

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	Firewall Configuration - Table of Parameters
Form Element	Description
Enable Traffic Filtering	Enable or disable Firewall protection at the endpoint. If enabled the following options are available:
	 Custom Ruleset - The firewall applies ONLY the custom security configurations and network traffic policies specified by the administrator. New users may want to think of this as the 'Do Not Learn' setting because the firewall does not attempt to learn the behavior of any applications. Nor does it automatically create network traffic rules for those applications. The user will receive alerts every time there is a connection attempt by an application - even for applications on the Comodo Safe list (unless, of course, the administrator has specified rules and policies that instruct the firewall to trust the application's connection attempt).
	If any application tries to make a connection to the outside, the firewall audits all the loaded components and checks each against the list of components already allowed or blocked. If a component is found to be blocked, the entire application is denied Internet access and an alert is generated. This setting is advised for experienced firewall users that wish to maximize the visibility and control over traffic in and out of their computer.
	• Safe Mode - While filtering network traffic, the firewall automatically creates rules that allow all traffic for the components of applications certified as 'Safe' by Comodo, if the checkbox Create rules for safe applications is selected. For non-certified new applications, the user will receive an alert whenever that application attempts to access the network. The administrator can choose to grant that application Internet access by selecting 'Treat this application as a Trusted Application' at the alert. This deploys the predefined firewall policy 'Trusted Application' onto the application.
	'Safe Mode' is the recommended setting for most users - combining the highest levels of security with an easy-to-manage number of connection alerts.
	• Training Mode - The firewall monitors network traffic and create automatic allow rules for all new applications until the security level is adjusted. The user will not receive any alerts in 'Training Mode' mode. If you choose the 'Training Mode' setting, we advise that you are 100% sure that all applications installed on endpoints are assigned the correct network access rights.
	For more details on the Firewall Settings, see the of CCS - Firewall Settings online help page at http://help.comodo.com/topic-399-1-790-10358-Firewall-Settings.html .
Show popup alerts	Whether or not firewall alerts are to be displayed at the endpoint whenever the firewall encounters a request for network access, for the user to respond. If you choose not to show the alerts, you can select the default responses from the
	'Auto Action' drop-down. The available options are:
	Block RequestsAllow Requests
Turn traffic animation effects on	The CCS tray icon can display a small animation whenever traffic moves to or from your computer.



	Firewall Configuration - Table of Parameters
	()) 5 6 6 1
	You can enable or disable the animation to be displayed at the endpoint.
Create rules for safe applications	 Comodo Firewall trusts the applications if: The application/file is included in the Trusted Files list under File Rating Settings;
	 The application is from a vendor included in the Trusted Software Vendors list
	 The application is included in the extensive and constantly updated Comodo safelist.
	By default, CCS does not automatically create 'allow' rules for safe applications. This helps saving the resource usage, simplifies the rules interface by reducing the number of 'Allowed' rules in it, reduces the number of pop-up alerts and is beneficial to beginners who find difficulties in setting up the rules.
	Enabling this option instructs CCS at endpoints to begin learning the behavior of safe applications so that it can automatically generate the 'Allow' rules. These rules are listed in the 'Advanced Settings' > 'Firewall Settings' > 'Application Rules' interface of the local CCS installation. Advanced users can edit/modify the rules as they wish. (Default = Disabled)
Set alert frequency level	Enabling this option allows you to configure the amount of alerts that Comodo Firewall generates, from the drop-down at the endpoint. It should be noted that this does not affect your security, which is determined by the rules you have configured (for example, in 'Application Rules' and 'Global Rules'). For the majority of users, the default setting of 'Low' is the perfect level - ensuring you are kept informed of connection attempts and suspicious behaviors whilst not overwhelming you with alert messages. (<i>Default=Disabled</i>)
	The options available are:
	• Very High: The firewall shows separate alerts for outgoing and incoming connection requests for both TCP and UDP protocols on specific ports and for specific IP addresses, for an application. This setting provides the highest degree of visibility to inbound and outbound connection attempts but leads to a proliferation of firewall alerts. For example, using a browser to connect to your Internet home-page may generate as many as 5 separate alerts for an outgoing TCP connection alone.
	 High: The firewall shows separate alerts for outgoing and incoming connection requests for both TCP and UDP protocols on specific ports for an application.
	 Medium: The firewall shows alerts for outgoing and incoming connection requests for both TCP and UDP protocols for an application.
	• Low: The firewall shows alerts for outgoing and incoming connection requests for an application. This is the setting recommended by Comodo and is suitable for the majority of users.
	• Very Low: The firewall shows only one alert for an application.
	The Alert Frequency settings refer only to connection attempts by applications or from IP addresses that you have not (yet) decided to trust.
Set new on-screen alert	How long the Firewall shows an alert for, without any user intervention at the



	Firewall Configuration - Table of Parameters
timeout to:	endpoint. By default, the timeout is set at 120 seconds. You may adjust this setting to your own preference by selecting this option and choosing the period from the drop-down combo-box.
Filter IPv6 traffic	If enabled, the firewall component of CCS at the endpoint will filter IPv6 network traffic in addition to IPv4 traffic.
	Background Note : IPv6 stands for Internet Protocol Version 6 and is intended to replace Internet Protocol Version 4 (IPv4). The move is primarily driven by the anticipated exhaustion of available IP addresses. IPv4 was developed in 1981 and is still the most widely deployed version - accounting for almost all of today's Internet traffic. However, because IPv4 uses 32 bits for IP addresses, there is a physical upper limit of around 4.3 billion possible IP addresses - a figure widely viewed as inadequate to cope with the further expansion of the Internet. In simple terms, the number of devices requiring IP addresses is in danger of exceeding the number of IP addresses that are available. This hard limit has already led to the development of 'work-around' solutions such as Network Address Translation (NAT), which enable multiple hosts on private networks to access the Internet using a single IP address.
	IPv6 on the other hand, uses 128 bits per address (delivering 3.4×1038 unique addresses) and is viewed as the only realistic, long term solution to IP address exhaustion. IPv6 also implements numerous enhancements that are not present in IPv4 - including greater security, improved support for mobile devices and more efficient routing of data packets.
Filter loopback traffic	Loopback connections refer to the internal communications within your PC. Any data transmitted by your computer through a loopback connection is immediately received by it. This involves no connection outside your computer to the Internet or a local network. The IP address of the loopback network is 127.0.0.1, which you might have heard referred to, under its domain name of 'http://localhost', i.e. the address of your computer.
	Loopback channel attacks can be used to flood your computer with TCP and/or UDP requests which can smash your IP stack or crash your computer. Leaving this option enabled means the firewall will filter traffic sent through this channel at the endpoints. (<i>Default = Enabled</i>).
Block fragmented IP traffic	When a connection is opened between two computers, they must agree on a Maximum Transmission Unit (MTU). IP Datagram fragmentation occurs when data passes through a router with an MTU less than the MTU you are using i.e when a datagram is larger than the MTU of the network over which it must be sent, it is divided into smaller 'fragments' which are each sent separately.
	Fragmented IP packets can create threats similar to a DOS attack. Moreover, these fragmentations can double the amount of time it takes to send a single packet and slow down your download time.
	If you want the firewall component of CCS at the endpoint to block the fragmented datagrams, enable this option. (<i>Default = Enabled</i> 0.
Do Protocol Analysis	Protocol Analysis is key to the detection of fake packets used in denial of service (DOS) attacks.
	If you want firewall at the endpoint to check whether every packet conforms to that protocols standards, select this option. If not, then the packets are blocked (<i>Default = Enabled</i>).
Enable anti-ARP spoofing	A gratuitous Address Resolution Protocol (ARP) frame is an ARP Reply that is broadcast to all machines in a network and is not in response to any ARP Request.

Firewall Configuration - Table of Parameters
When an ARP Reply is broadcast, all hosts are required to update their local ARP caches, whether or not the ARP Reply was in response to an ARP Request they had issued. Gratuitous ARP frames are important as they update the machine's ARP cache whenever there is a change to another machine on the network (for example, if a network card is replaced in another machine on the network, then a gratuitous ARP frame informs your machine of this change and requests to update its ARP cache so that data can be correctly routed). However, while ARP calls might be relevant to an ever shifting office network comprising many machines that need to keep each other updated , it is of far less relevance to, say, a single computer in a small network. Enabling this setting helps to block such requests at the endpoints to which the profile is applied - protecting the ARP cache from potentially malicious updates (<i>Default = Enabled</i>).

Application Rules

Whenever an application makes a request for Internet or network access, Comodo Firewall allows or denies this request based upon the Firewall Ruleset that has been specified for that application. Firewall Rulesets are, in turn, made up from one or more individual network access rules. Each individual network access rule contains instructions that determine whether the application should be allowed or blocked; which protocols it is allowed to use; which ports it is allowed to use and so forth.

	all				
Firewall				Ca	ncel Save
Firewall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets
+ Add					
	ION			TREAT AS	
Windows U	pdater Applications			Custom	ø
				Custom	1
Windows S	ystem Applications				

The 'Application Rules' interface allows you to create and manage application rules for regulating network access to individual applications at the endpoints to which the profile is applied.

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General Sandbox HIPS Antivirus	File Rating Firewall V	/iruscope Valkyrie
Firewall		Save Delete
Firewall Settings Application Rules Glob	bal Rules Rulesets Netw	vork Zones Portsets
+ Add		
	TREAT AS	
Windows Updater Applications	Custom	
Windows System Applications	Custom	
Mozilla Firefox to which the Firewall ruleset is applied	on Mozilla Firefi	Name of the pre-defined ruleset
		on opens the list of rules in vs you to add/remove and
Application Rule		
Name		
Mozilla Firefox		Mozilla Firefox 💌
O Use Ruleset		v
Use a Custom Ruleset Copy from	•	

- abbi				
Name				
Mozi	lla Firefox		Mozilla Firefox	•
© Us	se Ruleset			Ţ
Os Add	se a Custom Ruleset	Copy from	n	
	RULES			
	 Allow Access to Loopback Zo 	one		
	✓ Allow Outgoing HTTP Reque	sts		ø
	✓ Allow Outgoing FTP Request	s	Each ruleset id derived from at least one, but usually	a
	✔ Allow Outgoing FTP-PASV R	equests	combination of individually configurable rules. Each rule applied to an appliaction determibes its net	twotk
	✓ Allow Outgoing DNS Reques	ls	access rights	
	Block and Log All Unmatchin	ig Requests		

Although each ruleset can be defined from the ground up by individually configuring its constituent rules, this practice would be time consuming if it had to be performed for every single program on your system. For this reason, Comodo Firewall contains a selection of predefined rulesets according to broad application category. For example, you may choose to apply the ruleset 'Web Browser' to the applications like 'Internet Explorer', 'Firefox' and 'Opera'. Each predefined ruleset has been specifically designed by Comodo Firewall to optimize the security level of a certain type of application. Administrators can, of course, modify these predefined rulesets to suit their environment and requirements. For more details, see **Predefined Rule Sets**.

- See Application Rule interface for an introduction to the rule setting interface
- · See Create and Modify Firewall Rulesets to learn how to create and edit Firewall rulesets
- See Understanding Firewall Rules for an overview of the meaning, construction and importance of individual rules

See Add and Edit a Firewall Rule for an explanation of individual rule configuration.

Application Rule interface

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- Click the 'Add' button
 Click the 'Add' button
 or 'Edit' icon beside a ruleset in 'Application Rules' interface to open the 'Application Rule' interface.
- The rules in a Firewall ruleset can be added/modified/removed and re-ordered through the 'Application Rule' interface.
- You can also create new rules or edit existing rules in the ruleset in the 'Firewall Rule' interface (Click the 'Add' button or 'Edit' icon beside a rule in 'Application Rules' interface). See Add and Edit a Firewall Rule for guidance on this.

Application Rule	
Name	
Type New File Group Target Or Select Existing	Browse
Use Ruleset	•
Use a Custom Ruleset Copy from	
+ Add Rule Remove Move Up Move Down	
Allow TCP OR UDP In/Out	1
🗧 🗌 🖌 Allow IP In/Out	1
E Allow ICMPv4 In/Out	1
	0 / 0
	OK Cancel

Comodo Firewall applies rules on a per packet basis and applies the first rule that matches that packet type to be filtered (see **Understanding Firewall Rules** for more information). If there are a number of rules in the list relating to a packet type then one nearer the top of the list is applied. Administrators can re-prioritize rules by uisng the 'Move Up' or 'Move Down' buttons.

Create and Modify Firewall Rulesets

To begin defining an application's Firewall ruleset, you need take two basic steps.

- Step 1 Select the application that you wish the ruleset is to be applied.
- Step 2 Configure the rules for this application's ruleset.

Step 1 - Select the application that you wish the ruleset is to be applied

To define a ruleset for a new application (i.e. one that is not already listed), click the 'Add' button
 Add

at the top of the list in the 'Application Rules' interface.

The 'Application Rule' interface will open as shown below:

Application Rule		
Name Type New File Group Target Or	Select Existing	Browse •
 Use Ruleset Use a Custom Ruleset + Add Rule 	Copy from	T
		OK Cancel

Because this is a new application, the 'Name' field is blank. (If you are modifying an existing ruleset, then this interface shows the individual rules for that application's ruleset).

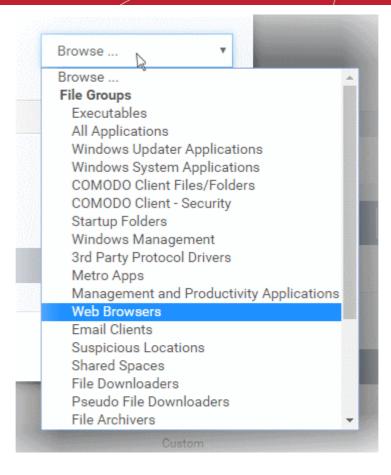
You can enter the application(s) to which the rule set is to be applied in two ways:

• Enter the installation path of the application with the application file name in the Name field (For example, 'C:\Program Files\Mozilla Firefox\firefox.exe').

Or

Open the drop-down beside the 'Name' field and choose the application group to which the ruleset is to be applied. Choosing a 'File Group' allows you to create firewall ruleset for a category of pre-set files or folders. For example, selecting 'Executables' would enable you to create a Firewall Ruleset for any file that attempts to connect to the Internet with the extensions .exe .dll .sys .ocx .bat .pif .scr .cpl . Other such categories available include 'Windows System Applications', 'Windows Updater Applications', 'Start Up Folders' etc - each of which provide a fast and convenient way to apply a generic ruleset to important files and folders. Endpoint Manager ships with a set of predefined 'File Groups'. If required you can add new file groups and edit existing groups ('Settings' > 'System Templates' > 'File Groups Variables'). See Create and Manage File Groups for guidance on this.

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Step 2 - Configure the rules for this application's ruleset

There are two broad options available for creating a ruleset that applies to an application - Use a Predefined Ruleset or Use a Custom Ruleset.

 Use a Predefined Ruleset - Allows you to quickly deploy an existing ruleset on to the target application. Choose the ruleset you wish to use from the drop-down menu. In the example below, we have chosen 'Web Browser' because we are creating a ruleset for the 'Firefox' browser. The name of the predefined ruleset you choose is displayed in the 'Treat As ' column for that application in the 'Application Rules' interface (Default = Disabled).

Application Rule		
Name		
C:\Program Files\Mozilla Firefo	x\firefox.exe	Browse
Use Ruleset	Web Browser	
Use a Custom Ruleset	Web Browser Control Client Email Client Ftp Client	
	Allowed Application Blocked Application	
		OK Can

Note: Predefined Rulesets, once chosen, cannot be modified *directly* from this interface - they can only be modified and defined using the **Application Rule** interface. If you require the ability to add or modify rules for an application then you are effectively creating a new, custom ruleset and should choose the more flexible **Use Custom Ruleset** option instead.

 Use a Custom Ruleset - Designed for more experienced administrators, the Custom Ruleset option enables full control over the configuration of Firewall Ruleset and the parameters of each rule within that ruleset (*Default = Enabled*).

Use a Custom Ruleset	Copy from Copy from Ruleset Another Application
	V
Ruleset 💌	Please, select
	Please, select
	Web Browser
	Email Client Ftp Client
	Allowed Application
	Blocked Application Outgoing Only
	Blocked Application
Use a Custom Ruleset Copy fr	Blocked Application Outgoing Only
Use a Custom Ruleset Copy fi Add Rule G Remove G Move U	Blocked Application Outgoing Only
Сорун	Blocked Application Outgoing Only
Add Rule Add Rule Add Rule Add Rule RULES	Blocked Application Outgoing Only
Add Rule Add Rule Add Rule Add Rule RULES	Blocked Application Outgoing Only Tom
Add Rule Rule Rules Allow Access to Loopback Zone	Blocked Application Outgoing Only Tom Move Down Choosing 'Use Custom Ruleset', then 'Copy from' > 'Ruleset' > selecting a pre-defined ruleset, will populate the rules window with the constituent rules of the pre-defined ruleset. In the example shown, the
Add Rule Rules Add Rule Rules Allow Access to Loopback Zone Allow Outgoing HTTP Requests Allow Outgoing FTP Requests	Blocked Application Outgoing Only Tom Move Down Choosing 'Use Custom Ruleset', then 'Copy from' > 'Ruleset' > selecting a pre-defined ruleset, will populate the rules window with the constituent rules of the pre-defined ruleset. In the example shown, the individual rules from the 'Web Browser' ruleset are included in the ruleset to be created. Using this as a
Add Rule RULES Allow Access to Loopback Zone Allow Outgoing HTTP Requests Allow Outgoing FTP Requests	Blocked Application Outgoing Only Tom Move Down Choosing 'Use Custom Ruleset', then 'Copy from' > 'Ruleset' > selecting a pre-defined ruleset, will populate the rules window with the constituent rules of the pre-defined ruleset. In the example shown, the individual rules from the 'Web Browser' ruleset are

You can create an entirely new ruleset or use a predefined ruleset as a starting point by:

 Clicking 'Add' from the top to add individual Firewall rules. See 'Add and Edit a Firewall Rule' for an overview of the process.

- Use the 'Copy From' button to populate the list with the Firewall rules of a Predefined Firewall Rule.
- Use the 'Copy From' button to populate the list with the Firewall rules of another application's ruleset.

General Tips:

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- If you wish to create a reusable ruleset for deployment on multiple applications, we advise you add a
 new Predefined Firewall Rules (or modify one of the existing ones to suit your needs) then come
 back to this section and use the 'Ruleset' option to roll it out.
- If you want to build a bespoke ruleset for maybe one or two specific applications, then we advise you choose the 'Use a Custom Ruleset' option and create your ruleset either from scratch by adding individual rules or by using one of the built-in rulesets as a starting point.

Understanding Firewall Rules

At their core, each Firewall rule can be thought of as a simple **IF THEN** trigger - a set of **conditions** (or attributes) pertaining to a packet of data from a particular application and an **action** it that is enforced if those conditions are met.

As a packet filtering firewall, Comodo Firewall analyzes the attributes of *every single* packet of data that attempts to enter or leave the computer. Attributes of a packet include the application that is sending or receiving the packet, the protocol it is using, the direction in which it is traveling, the source and destination IP addresses and the ports it is attempting to traverse. The firewall then tries to find a Firewall rule that matches all the conditional attributes of this packet in order to determine whether or not it should be allowed to proceed. If there is no corresponding Firewall rule, then the connection is automatically blocked until a rule is created.

The actual **conditions** (attributes) you see * on a particular Firewall Rule are determined by the protocol chosen in the 'Firewall Rule' interface. See **Add and Edit a Firewall Rule** for more details.

If you chose 'TCP', 'UDP' or 'TCP and 'UDP', then the rule has the form: Action |Protocol | Direction |Source Address | Destination Address | Source Port | Destination Port

If you chose 'ICMP', then the rule has the form: Action |Protocol | Direction | Source Address | Destination Address | ICMP Details

If you chose 'IP', then the rule has the form: Action | Protocol | Direction | Source Address | Destination Address | IP Details

- Action: The action the firewall takes when the conditions of the rule are met. The rule shows 'Allow', 'Block' or 'Ask'.**
- **Protocol**: States the protocol that the target application must be attempting to use when sending or receiving packets of data. The rule shows 'TCP', 'UDP', 'TCP or UDP', 'ICMP' or 'IP'
- Direction: States the direction of traffic that the data packet must be attempting to negotiate. The rule shows 'In', 'Out' or 'In/Out'
- Source Address: States the source address of the connection attempt. The rule shows 'From' followed by one of the following: IP , IP range, IP Mask , Network Zone, Host Name or Mac Address
- **Destination Address**: States the address of the connection attempt. The rule shows 'To' followed by one of the following: IP, IP range, IP Mask, Network Zone, Host Name or Mac Address
- Source Port: States the port(s) that the application must be attempting to send packets of data through. Shows 'Where Source Port Is' followed by one of the following: 'Any', 'Port #', 'Port Range' or 'Port Set'
- Destination Port: States the port(s) on the remote entity that the application must be attempting to send to. Shows 'Where Source Port Is' followed by one of the following: 'Any', 'Port #', 'Port Range' or 'Port Set'
- ICMP Details: States the ICMP message that must be detected to trigger the action. See Add and Edit a
 Firewall Rule for details of available messages that can be displayed.
- IP Details: States the type of IP protocol that must be detected to trigger the action: See Add and Edit a Firewall Rule to see the list of available IP protocols that can be displayed here.

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Endpoint Manager - Administrator Guide

Once a rule is applied, Comodo Firewall monitors all network traffic relating to the chosen application and take the specified action if the conditions are met. Users should also see the section 'Global Rules' to understand the interaction between Application Rules and Global Rules.

* If you chose to add a descriptive name when creating the rule then this name is displayed here rather than it's full parameters. See the next section, 'Add and Edit a Firewall Rule', for more details.

** If you selected 'Log as a firewall event if this rule is fired' then the action is postfixed with 'Log'. (e.g. Block & Log)

Add and Edit a Firewall Rule

The Firewall Rule Interface is used to configure the actions and conditions of an individual Firewall rule. If you are not an experienced firewall user or are unsure about the settings in this area, we advise you first gain some background knowledge by reading the sections 'Understanding Firewall Rules', 'Overview of Rules and Policies' and 'Create and Modify Firewall Rulesets'.

Firewall Rule		
Action	Allow 🔽 Log as firewall event if this rule is fired	
Protocol	TCP or UDP	•
Direction	In or Out	•
Description		
Source Address	Destination Address Source Port Destination Port	
Exclude (i.e. NOT t	he choice below)	
Туре	IPv4 Single Address	•
IP	10.100.100.10	
		al

General Settings

- Action: Define the action the firewall takes when the conditions of the rule are met. Options available via the drop down menu are 'Allow' (*Default*), 'Block' or 'Ask'.
- **Protocol:** Allows the user to specify which protocol the data packet should be using. Options available via the drop down menu are 'TCP', 'UDP', 'TCP or UDP' (*Default*), 'ICMP' or 'IP'.

Note: Your choice here alters the choices available to you in the tab structure on the lower half of the interface.

- **Direction:** Allows the user to define which direction the packets should be traveling. Options available via the drop down menu are 'In', 'Out' or 'In/Out' (*Default*).
- Log as a firewall event if this rule is fired: Checking this option creates an entry in the firewall event log viewer whenever this rule is called into operation. (i.e. when ALL conditions have been met) (*Default = Disabled*).
- **Description**: Allows you to type a friendly name for the rule. Some users find it more intuitive to name a rule by it's intended purpose. ('Allow Outgoing HTTP requests'). If you create a friendly name, then this is



displayed to represent instead of the full actions/conditions in the main **Application Rules interface** and the **Application Rule interface**.

Protocol

i. 'TCP,' 'UDP' or 'TCP or UDP'

If you select 'TCP', 'UDP' or 'TCP or UDP' as the Protocol for your network, then you have to define the source and destination IP addresses and ports receiving and sending the information

Firewall Rule	
Action	Allow 🔽 Log as firewall event if this rule is fired
Protocol	TCP or UDP
Direction	In or Out
Description	
Source Address	Destination Address Source Port Destination Port
Exclude (i.e. NOT	the choice below)
Туре	IPv4 Single Address
IP	Any Address Host Name IPv4 Address Range
	IPv4 Single Address IPv4 Subnet Mask
	IPv6 Single Address IPv6 Subnet Mask MAC Address Network Zone

Source Address and Destination Address:

- 1. You can choose any IP Address by selecting Any Address in the Type drop-down box. This menu defaults to an IP range of 0.0.0.- 255.255.255.255 to allow connection from all IP addresses.
- 2. You can choose a named host by selecting a Host Name which denotes your IP address.
- 3. You can choose an IPv4 Range by selecting IPv4 Address Range for example the range in your private network and entering the IP addresses in the Start Range and End Range text boxes.
- 4. You can choose a Single IPv4 address by selecting IPv4 Single Address and entering the IP address in the IP address text box, e.g., 192.168.200.113.
- You can choose IPv4 Mask by selecting IPv4 Subnet Mask. IP networks can be divided into smaller networks called sub-networks (or subnets). An IP address/ Mask is a subnet defined by IP address and mask of the network. Enter the IP address and Mask of the network.
- 6. You can choose a Single IPv6 address by selecting IPv6 Single Address and entering the IP address in the IP address text box, e.g., 3ffe:1900:4545:3:200:f8ff:fe21:67cf.
- You can choose IPv6 Mask by selecting IPv6 Subnet Mask. IP networks can be divided into smaller networks called sub-networks (or subnets). An IP address/ Mask is a subnet defined by IP address and mask of the network. Enter the IP address and Mask of the network.
- 8. You can choose a MAC Address by selecting MAC Address and entering the address in the address text box.
- 9. You can choose an entire network zone by selecting Zone .This menu defaults to Local Area

Network. But you can also define your own zone by first creating a Zone through the '**Network Zones**' area.

Exclude (i.e. NOT the choice below): The opposite of what you specify is applicable. For example, if you are creating an Allow rule and you check the Exclude box in the Source IP tab and enter values for the IP range, then that IP range is excluded. You have to create a separate Allow rule for the range of IP addresses that you DO want to use.

Source Port and Destination Port:

Enter the source and destination Port in the text box.

Source Address	Destination Address	Source Port	Destination Port
-	T the choice below)		
ype	T the choice below)		
/pe			
/pe Any Port Range			(-
Any Aport Range Set of Ports			(-
ype			(-

- 1. You can choose any port number by selecting Any set by default, 0-65535.
- 2. You can choose a Single Port number by selecting Single Port and selecting the single port numbers from the list.
- 3. You can choose a Port Range by selecting Port Range and selecting the port numbers from the From and To list.
- 4. You can choose a predefined **Port Set** by choosing A Set of Ports. If you wish to create a custom port set then please see the section '**Port Sets**'.

ii. ICMP

When you select ICMP as the protocol in **General Settings**, you are shown a list of ICMP message types in the 'ICMP Details' tab alongside the **Destination Address** tabs. The last two tabs are configured identically to the **explanation above**. You cannot see the source and destination port tabs.

iii. ICMP Details

ICMP (Internet Control Message Protocol) packets contain error and control information which is used to announce network errors, network congestion, timeouts, and to assist in troubleshooting. It is used mainly for performing traces and pings. Pinging is frequently used to perform a quick test before attempting to initiate communications. If you are using or have used a peer-to-peer file-sharing program, you might find yourself being pinged a lot. So you can create rules to allow / block specific types of ping requests. With Comodo Firewall you can create rules to allow/ deny inbound ICMP packets that provide you with information and minimize security risk.

 Type in the source/ destination IP address. Source IP is the IP address from which the traffic originated and destination IP is the IP address of the computer that is receiving packets of information.

Source Address	Destination Address	ICMP Details	
уре			
ICMPv4			•
essage			
Any			-

- 2. Under the 'ICMP Details' tab, choose the ICMP version from the 'Type' drop-down.
- 3. Specify ICMP Message, Types and Codes. An ICMP message includes a Message that specifies the type, that is, the format of the ICMP message.

Description		
Source Address	Destination Address ICMP Details	
Туре	ICMPv4	
Message	Any Custom	
	Any ICMP Echo Request ICMP Echo Reply ICMP Net Unreachable ICMP Host Unreachable ICMP Protocol Unreachable ICMP Port Unreachable ICMP Time Exceeded ICMP Source Quench ICMP Fragmentation Needed	

When you select a particular ICMP message, the menu defaults to set its code and type as well. If you select the ICMP message type 'Custom' then you are asked to specify the code and type.

iv. IP

When you select IP as the protocol in **General Settings**, you are shown a list of IP message type in the 'IP Details' tab alongside the **Source Address and Destination Address** tabs. The last two tabs are configured identically to the **explanation above**. You cannot see the source and destination port tabs.

Source Address	Destination Address	IP Details	
Exclude (i.e. NO	T the choice below)		

Any Address
Host Name
IPv4 Address Range
IPv4 Single Address
IPv4 Subnet Mask
IPv6 Single Address
IPv6 Subnet Mask
MAC Address
Network Zone

v. IP Details

Select the types of IP protocol that you wish to allow, from the ones that are listed.

Source Address	Destination Address	IP Details	
P Protocol			
Any			(-
Custom			
Any			
TCP			
UDP			
ICMPv4			
IGMP			
Raw IP			
PUP			
GGP			
GRE			
RSVP			
ICMPv6			

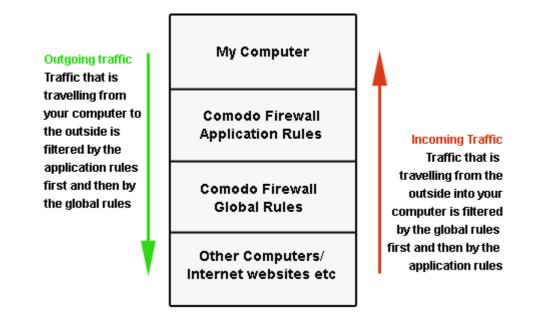
• Click 'OK' to save the firewall rule.

Global Rules

Unlike Application rules, which are applied to and triggered by traffic relating to a specific application, Global Rules are applied to all traffic traveling in and out of the computers applied with this profile.

Comodo Firewall analyzes every packet of data in and out of the computer using combination of Application and Global Rules.

- For Outgoing connection attempts, the application rules are consulted first and then the global rules second.
- For Incoming connection attempts, the global rules are consulted first and then the application rules second.



Therefore, outgoing traffic has to 'pass' both the application rule then any global rules before it is allowed out of your system. Similarly, incoming traffic has to 'pass' any global rules first then application specific rules that may apply to the packet.

Global Rules are mainly, but not exclusively, used to filter incoming traffic for protocols other than TCP or UDP.

The 'Global Rules' panel in the under 'Firewall' tab allows you to view create and manage the global firewall rules.

General	Antivirus	Firewall				
Firewall					Cancel	Save
Firewall	Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets
+ Add						
	JLES					
: 🗆 🗸	Allow IP Out					/
: 🗆 🗸	Allow ICMPv4	4 In				<i>.</i>
: 🗆 🗸	Allow ICMPv4	ŧ In				ø
: 🗆 🛛	Block IP In					ø



The configuration of Global Rules is identical to that for application rules. To add a global rule, click the 'Add' button

+ Add

- 📖 on the top. To edit an existing global rule, click the edit icon 🖋 beside it.
- See **Application Rules** for an introduction to the rule setting interface.
- See Understanding Firewall Rules for an overview of the meaning, construction and importance of individual rules.
- See Add and Edit a Firewall Rule for an explanation of individual rule configuration.

Rulesets

As the name suggests, a firewall Ruleset is a set of one or more individual Firewall rules that have been saved and which can be re-deployed on multiple applications. Endpoint Manager ships with six predefined rulesets and allows you to create and manage custom rulesets as required. This section contains advice on the following:

- Predefined Rulesets
- Creating a new ruleset

The 'Rulesets' panel under the 'Firewall' tab allows you to view, create and manage the firewall rulesets.

General	Procedure	es VirusScope	Firewall				
Firewa	all					😵 Cancel	🖺 Save
Firewal	l Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets	
+ A	dd Ruleset						
	RULESET N	AME \$					
	Web Brows	er					ø
	Email Client	t					1
	Ftp Client						ø
	Allowed Ap	plication					1
	Blocked Ap	plication					ø
	Outgoing O	nly					

The Rulesets panel displays a list of pre-defined and custom Firewall Rulesets.

Although each application's firewall ruleset *could* be defined from the ground up by individually configuring its constituent rules, this practice may prove time consuming if it had to be performed for every single program on your system. For this reason, Comodo Firewall contains a selection of predefined rulesets according to broad application category. For example, you may choose to apply the ruleset 'Web Browser' to the applications 'Internet Explorer', 'Firefox' and 'Opera'. Each predefined ruleset has been specifically designed by Comodo to optimize the security level of a certain type of application. Users can, of course, modify these predefined policies to suit their environment and requirements. (for example, you may wish to keep the 'Web Browsers' name but wish to redefine the parameters of it rules).

Endpoint Manager ships with six predefined firewall rulesets for different categories of applications:

Web Browser



- Email Client
- FTP Client
- Allowed Application
- Blocked Application
- Outgoing Only

These rulesets can be edited by adding new rules or reconfiguring the existing rules. For more details see the explanation of **adding and editing firewall rules** in the section 'Application Rules'.

Create a new ruleset

You can create new rulesets with network access control rules customized as per your requirements and can roll out them to required applications while **creating firewall ruleset** for the applications individually.

To add a new Ruleset

Click the 'Add Ruleset' button
panel

+ Add Ruleset

from the top of the list of rulesets in the 'Rulesets'

The 'Firewall Ruleset' interface will open.

Firewall Ruleset			
Name My Ruleset	Please, select	•	
Ruleset Another Application	,		
		c	OK Cancel
My Ruleset			
Ruleset •	Please, select Please, select		
	Web Browser Email Client Ftp Client Allowed Application Blocked Application Outgoing Only	4	
Copy from			
Add C Remove O Mov	e Up 🖸 Move Down		
RULES	K		
 Allow Access to Loopback Allow Outgoing HTTP Rec 			
Allow Outgoing FTP Requ			
Allow Outgoing FTP-PASV Allow Outgoing DNS Requ			
Block and Log All Unmate	ning requests		•
		C	OK Cancel

As this is a new ruleset, you need to name it in the 'Name' field at the top. It is advised that you choose
a name that accurately describes the category/type of application you wish to define the ruleset for.
Next you should add and configure the individual rules for this ruleset. See 'Add and Edit a Firewall
Rule' for more advice on this.

Once created, this ruleset can be quickly called from 'Use Ruleset' when **creating or modifying a Firewall ruleset**.

To view or edit an existing predefined Ruleset

- Click on the 'Edit' icon *P* beside Ruleset Name in the list.
- Details of the process from this point on can be found under 'Use Custom Rule Set.'.

Network Zones

The 'Network Zones' panel under the 'Firewall' tab allows you to:

- Configure to detect any new network (wired or wireless) that the computer applied with this profile is trying to connect and provide alerts for the same
- Define network zones that are trusted, and to specify access privileges to them

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Define network zones that are untrusted, and to block access to the second	nem
General Firewall	
Firewall	Cancel Save
Firewall Settings Application Rules Global Rules Rulesets	Network Zones Portsets
 Enable automatic detection of private networks Do NOT show popup alerts Location treatment: Work 	~
Network Zones Blocked Zones Add	
Loopback Zone	ø

The 'Network Zones' panel contains options for configuring the general network monitoring settings and lists of 'Allowed Network Zones' and 'Blocked Network Zones' under respective tabs. You can add and manage network zones to be allowed and blocked from this interface.

Network Monitoring Settings:

- Enable automatic detection of private networks Instructs Comodo Firewall to keep monitoring whether the computer applied with this security profile is connected to any new wired or wireless network (*Default* = *Enabled*). Deselect this option if you do not want the new connection attempts is to be detected and/or wish to manually set-up their own trusted networks (this can be done in 'Network Zones'.
- Do Not show popup alerts By default, an alert will be displayed at the computer, if the computer attempts to connect to a new network, for the end-user to select the type of network. CCS will optimize its firewall settings for the new network, based on the selection. An example is shown below.



омо	Network Detected ?
?	Join a New Network
lease selec	t your location:
畲	I am at Home Choose if you are at home and have just connected your computer to a local network
	I am at Work Choose if you are at work place and have just connected your computer to a local network
	I am at a Public Place Choose this option if you are at public place such as a coffee shop, hotel or school, etc.

If you do not want the alert to be displayed to the end-user and wish the CCS at the computer to decide on the type of network by default, deselect this option and choose the network type from the drop-down under Location Treatment. The available options are:

- Home
- Work
- Public

Enable automatic detection of private networks	
Do NOT show popup alerts	
Location treatment:	
Work	(~)
Work	
Home	
Public	

The panel has two tabs:

- Network Zones Allows you to define network zones and to allow access to them for applications, with the
 access privileges specified through Application Rule interface. Refer to 'Creating or Modifying Firewall
 Rules' for more details.
- Blocked Zones Allows you to define trusted networks that are not trustworthy and to block access to them.

Network Zones

A 'Network Zone' can consist of an individual machine (including a single home computer connected to Internet) or a network of thousands of machines to which access can be granted or denied.



The 'Network Zones' tab in the 'Network Zones' panel displays a list of defined network zones and allows you to define network zones, to which the computer applied with this profile can connect, with access rights as defined by the firewall rules or blocked access to.

To define a new Network Zone

•

Click the 'Add' + Add

button at the top of the list.

The 'Network Zone' dialog will open.

Network Zone	
Name	
Public Network	
Public Network Add	
ADDRESS	
	OK Cancel

- Enter a name for the new network zone in the 'Name' field.
- Select the checkbox 'Public Network' if you are defining a network zone for a network in a public place, for example, when you are connecting to a Wi-Fi network at an airport, restaurant etc., so that Comodo Firewall will optimize the configuration accordingly.
- Click 'Add' to add the computers in the new network zone

Network Zone		
Name		
Public Network		
Public Network		
+ Add		

The 'Address' dialog allows you to select an address from the 'Type' drop-down box shown below (*Default = Any Address*). The 'Exclude' check box will be enabled only if any other choice is selected from the drop-down box.

Address Types:

- i. Any Address Adds all the IP addresses (0.0.0.0-255.255.255.255) to the zone.
- ii. Host Name- Enter a named host which denotes an address on your network.
- IPv4 Range Will include all the IPv4 addresses between the values you specify in the 'Start Range' and 'End Range' text boxes.

- iv. IPv4 Single Address Enter a single IP address to be added to the zone e.g. 192.168.200.113.
- IPv4 Subnet Mask A subnet mask allows administrators to divide a network into two or more networks by splitting the host part of an IP address into subnet and host numbers. Enter the IP address and Mask of the network you wish to add to the defined zone.
- vi. IPv6 Single Address -Enter a single address to be added to the zone e.g. 3ffe:1900:4545:3:200:f8ff:fe21:67cf.
- vii. IPv6 Subnet Mask. Ipv6 networks can be divided into smaller networks called sub-networks (or subnets). An IP address/ Mask is a subnet defined by IP address and mask of the network. Enter the IP address and Mask of the network.

viii. MAC Address - Enter a specific MAC address to be added to the zone.

- Select/enter the Addresses to be included in the new network zone
- If you want to select all the other addresses to be included in the network zone, excluding those selected under the Type drop-down, select the 'Exclude' option.
- Click 'OK' in the 'Address' dialog.
- Click 'OK' in the 'Network Zone' dialog

The network zone will be added under Network Zones list and will be available to be quickly called as 'Zone' when **creating or modifying a Firewall Ruleset**. Or when defining a **Blocked Zone**.



Firewall Rule

Allow				-
Log as firewall e	vent if this rule is fired			
Protocol				
UDP				-
Direction				
Out				-
Description				
Allow Outgoing DN	S Requests			
Source Address	Destination Address	Source Port	Destination Port	
Exclude (i.e. NO	T the choice below)			
_				
Type Network Zone				-
				-
Network Zone				-
Network Zone				

To edit a network zone, click the 'Edit' icon *S* beside the network zone name. The 'Network Zone' dialog will appear populated with the name and the addresses of the network zone. Edit the details as required. The process is similar to **defining a new network zone** as explained above.

Blocked Zones

A computer network enables users to share information and devices between computers and other users within the network. There are certain networks that you'll want to 'trust' and grant access to - for example your work network. Conversely, there may be other networks that you do not trust and want to restrict communication with - or even block entirely.

The 'Blocked Zones' section allows you to configure restrictions on network zones that you do not wish to trust and the computers applied with this profile will be blocked access to them.

The 'Blocked Zones' tab allows you to view the list of blocked network zones and add new blocked zones.

Firewall Cancel Firewall Settings Application Rules Global Rules Rulesets Network Zones Portsets Image: Enable automatic detection of private networks Image: Do NOT show popup alerts Location treatment: Work Image: Network Zones Image: Network Zones Image: Done NAME	General	Procedure	s VirusScope	Firewall					
 Enable automatic detection of private networks Do NOT show popup alerts Location treatment: Work Network Zones + Add from Network Zone 	Firewa	II					🙁 Cancel	🖹 Sav	ve
 Do NOT show popup alerts Location treatment: Work Network Zones + Add from Network Zone 	Firewall	Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets		
Network Zones + Add from Network Zone	🗌 Do N	IOT show p	opup alerts	e networks					
+ Add from Network Zone	Work								~
				_					
ZONE NAME	+ Ad	d 🕇 Ad	d from Network Zon	e					
		ZONE NAME							

The 'Blocked Zones' tab displays a list of zones that are currently blocked and allows you to:

- Deny access to an existing network zone
- Deny access to a network by manually defining a new blocked zone

Note 1: You must create a zone before you can block it. There are two ways to do this;

- 1. Using 'Network Zones' to name and specify the network you want to block.
- 2. Directly from this interface using 'New blocked address...'

Note 2: You cannot reconfigure *existing* zones from this interface (e.g. to add or modify IP addresses). You need to use '**Network Zones**' if you want to change the settings of existing zones.

To deny access to an existing network zone

- Click 'Add from Network Zone' button from the top
- Choose the particular zone you wish to block from the 'Network Zone' drop-down.

General Antivirus	Firewall					
Firewall					Cancel	Save
Firewall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets	
Enable automatic	detection of private ne	tworks				
Do NOT show pop	up alerts					
Location treatment:						
Work						~
Network Zones	Blocked Zones	Remove				
ZONE NA ME						
Work		_			-	~
Network Zones	Blocked Zones		\sim			
Loop	opback Zone back Zone Dept. Computers		ance Ado			
ZONE N Misc	hievous guys in the c	office				

- Click 'Add'
- Repeat the process to add more blocked network zones for the profile

To deny access to a network by manually defining a new blocked zone

• Click the 'Add' button from the top.

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General Antiv	irus Firewall					
Firewall					Cancel	Save
Firewall Setting	s Application Rules	Global Rules	Rulesets	Network Zones	Portsets	
Enable autom	natic detection of private r	networks				
Do NOT show	v popup alerts					
Location treatmer						
Work						~
Network Zon	es Blocked Zones					
(+ Add)+ A	dd from Network Zone	Remove				
ZONE NAN	IE					
Address	7					
Exclude (i.e. NOT	the choice below)					
Туре	Any Address					•
	Any Address Host Name					
	IPv4 Address Range					
	IPv4 Single Address IPv4 Subnet Mask					
	IPv4 Subnet Mask IPv6 Single Address					
nitoring Profiles	IPv6 Subnet Mask					
intering Fromes	MAC Address					

 Select the address type you wish to block from the 'Type' drop-down. Select 'Exclude' if you want to block all IP addresses except for the ones you specify using the drop-down.

Address Types:

- i. Any Address Will block connections from all IP addresses (0.0.0.0-255.255.255.255)
- ii. Host Name- Enter a named host which denotes an address on your network.
- IPv4 Range Will block access to the IPv4 addresses you specify in the 'Start Range' and 'End Range' text boxes.
- iv. IPv4 Single Address Block access to a single address e.g. 192.168.200.113.
- IPv4 Subnet Mask A subnet mask allows administrators to divide a network into two or more networks by splitting the host part of an IP address into subnet and host numbers. Enter the IP address and Mask of the network you wish to block.
- vi. IPv6 Single Address -Block access to a single address e.g. 3ffe:1900:4545:3:200:f8ff:fe21:67cf.
- vii. IPv6 Subnet Mask. Ipv6 networks can be divided into smaller networks called sub-networks (or subnets). An IP address/ Mask is a subnet defined by IP address and mask of the network. Enter the IP address and Mask of the network.
- viii. MAC Address Block access to a specific MAC address.
- 2. Select the address to be blocked and click 'OK'

The address(es) you block will appear in the 'Blocked Zones' tab. You can modify these addresses at any time by selecting the entry and clicking 'Edit'.

3. Click 'OK' in 'Network Zones' interface to confirm your choice. All traffic intended for and originating from computer or devices in this zone are now blocked.

Portsets

Port Sets are handy, predefined groupings of one or more ports that can be re-used and deployed across multiple **Application Rules** and **Global Rules**. The 'Port Sets' panel under the 'Firewall' tab allows you to view and manage pre-defined port sets and to add new port sets for the profile. The name of the port set is listed above the actual port numbers that belong to that set.

Genera	al Firewall						
Firewa	all				[Cancel	Save
Firev	wall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets	
+ Ad	dd						
	PORTSET \$						
	HTTP Ports						
	POP3/SMTP Po	orts					ø
	Privileged Ports	1					

The panel lists all portsets that are defined for the profile. Clicking the 'Edit' icon S beside a name reveals the ports included in the set.

Portset	
Name	
My Portset	
+ Add	
PORTS	
80	8
443	1
8080	1
	10 25 50 100
	OK Cancel

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Endpoint Manager ships with three default portsets:

- HTTP Ports: 80, 443 and 8080. These are the default ports for http traffic. Your internet browser uses these ports to connect to the internet and other networks.
- **POP3/SMTP Ports**: 110, 25, 143, 995, 465 and 587. These ports are typically used for email communication by mail clients like Outlook and Thunderbird.
- Privileged Ports: 0-1023. This set can be deployed if you wish to create a rule that allows or blocks
 access to the privileged port range of 0-1023. Privileged ports are so called because it is usually
 desirable to prevent users from running services on these ports. Network admins usually reserve or
 prohibit the use of these ports.

Define a new Port Set

You can create new portsets and allow access to them for applications, with the access privileges specified through **Application Rule** interface. See 'Create or Modify Firewall Rules' for more details.

To add a new portset

• Click the 'Add' button from the top.

The 'Portset' dialog will open.

Fir	ewall					Cancel	Save
1	Firewall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets	_
6	Add						
	HTTP Ports						/
	DOD2/SMTP Day	÷					ð
Po	rtset						
Nar							
	orts to be guarded						
6	Add						
	T	PORTS					
D							
Po	ort						
	Exclude (i.e. NOT the	choice below)					
۲	Any						
0	A Single Port	1 💌					
0	A Port Range	1 👘	65535	×.			
						_	
						ок	Cancel

- Enter a name for the new portset in the 'Name' field.
- To add ports to the new portset, click the 'Add' button above the list of ports.
- Specify the ports to be included in the new portset:



•

•

-

- Any to choose all ports;
- A single port Define the port number in the combo box beside;
- A port range Enter the start and end port numbers in the respective combo boxes.
- Exclude (i.e. NOT the choice below): The opposite of what you specify is applicable.
- Click 'OK' in the 'Port' dialog. The ports will be added to the new portset in the 'Edit Portset' interface.
- Click 'OK' in the 'Portset' dialog to create the new portset.

Once created, a Portset can be:

• Quickly called as 'A Set of Ports' when creating or modifying a Firewall Ruleset

Firewall Rule

•

Action

Block

Log as firewall event if this rule is fired

Protocol

TCP

Direction

Out

Description

Allow Outgoing	HTTP Requests	

Source Address

Destination Address

Source Port

Destination Port

Exclude (i.e. NOT the choice below)

Туре

	Sectors'	ĺ
A Set of Ports	-	

Port Set

HTTP Ports	
POP3/SMTP Ports Privileged Ports	
Ports to be guarded	

To edit an existing port set



- Click the 'Edit' icon beside the name of the portset. The 'Portset' dialog will appear with a list of port numbers in the port set.
- The editing procedure is similar to adding the portset explained above.
- Click the 'Save' button at the top of 'Firewall' interface to sane your settings for the profile.

The saved 'Firewall' settings screen will be displayed with options to edit the settings or delete the section. See Edit Configuration Profiles for more details.

6.1.3.1.5. HIPS Settings

- The host intrusion prevention system (HIPS) constantly monitors system activity. It only allows processes to run if they comply with security rules in the Windows profile applied to the endpoint.
- For example, HIPS automatically protects system-critical files, folders and registry keys to prevent unauthorized modifications by malicious programs.
- Comodo Client Security (CCS) ships with a default HIPS ruleset that provides extremely high levels of
 protection 'out of the box'. You can also create custom rulesets as required.
- You can configure the feature by adding a HIPS section to a Windows profile.

To configure HIPS Settings and Rules

- Click 'Configuration Templates' > 'Profiles'
- Click on the name of a Windows profile to open it's details page
 - Click the 'HIPS' tab, if it has already been added to the profile OR
 - Click 'Add Profile Section' > 'HIPS' if it hasn't yet been added

The HIPS settings screen contains four tabs:

- HIPS Settings Configure settings that govern the overall behavior of the HIPS component.
- HIPS Rules View and create rules that control the behavior of applications on the managed computer.
- **Rulesets** View predefined rulesets and create new rulesets. Rulesets can be applied to applications on managed computers.
- Protected Objects A protected object is a collection of items which can be referenced as the target of a HIPS rule. For example 'Registry Keys' and 'COM Classes'. This interface lets you view and create new protected objects.

HIPS Settings



General HIPS				
HIPS Save				
HIPS Settings HIPS Rules Rulesets Protected Objects				
Enable HIPS Safe mode Monitoring settings This option enables the Host Intrusion Protection				
System, the component that monitors critical operating system activities to protect the computer against malware actions.				
 Do NOT show popup alerts Allow requests Set popup alerts to verbose mode 				
 Create rules for safe applications Set new on-screen alert timeout to 60 secs. 				
Set new on-screen alert timeout to 60 secs. Enable adaptive mode under low system resources				
Block unknown requests when the application is not running				
 Enable enhanced protection mode (requires a system restart) up to CCS 10.1 Enable embedded code detection and heuristic command-line analysis for Certain applications 				
Limit the total size of saved detected scripts to 100 KB				
When reaching the set limit, the older records will be deleted to free up space.				
Detect shellcode injections Exclusions				

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HIPS Settings - Table of Parameters				
Form Element	Description			
Enable HIPS	Activate or deactivate HIPS protection on managed computers to which the profile is applied. If enabled, you can configure the HIPS security level and monitoring settings.			
Hips Security Level	(<i>Default=Enabled</i>) If HIPS is enabled, you can choose the security level for the HIPS to provide at the			
Thips Security Level	managed computer from the drop-down below 'Enable HIPS'.			
	Enable HIPS			
	Safe Mode V Monitoring Settings			
	Paranoid Mode			
	Safe Mode			
	Clean PC Mode			
	Training Mode			
	The available options are:			
 Paranoid Mode: This is the highest security level setting and means monitors and controls all executable files apart from those that you had deemed safe. Comodo Client Security does not attempt to learn the be any applications - even those applications on the Comodo safe list and uses <i>your</i> configuration settings to filter critical system activity. Similar Comodo Client Security does automatically create 'Allow' rules for any executables - although the end user still has the option to treat an application setting the end user still has the option to treat an application of HIPS alerts and is recommended for advanced users that require of awareness of activity on their system. 				
	Safe Mode: While monitoring critical system activity, HIPS automatically learns the activity of executables and applications certified as 'Safe' by Comodo. It also automatically creates 'Allow' rules for these activities, if the option 'Create rules for safe applications' is selected. For non-certified, unknown, applications, the end-user will receive an alert whenever that application attempts to run. Should you choose, the end-user can add that new application to the safe list by choosing 'Treat this application as a Trusted Application' at the alert. This instructs the HIPS not to generate an alert the next time it runs. If the endpoint is not new or known to be free of malware and other threats as in 'Clean PC Mode' then 'Safe Mode' is recommended setting for most users - combining the highest levels of security with an easy-to-manage number of HIPS alerts.			
	 Clean PC Mode: From the time you set the setting to 'Clean PC Mode', HIPS learns the activities of the applications currently installed on the server while all new executables introduced to the server are monitored and controlled. This patent-pending mode of operation is the recommended option on a new server or one that the user knows to be clean of malware and other threats. From this point onwards HIPS alerts the user whenever a new, unrecognized application is being installed. In this mode, the files with 'Unrecognized' rating in the 'File List ' are excluded from being considered as clean and are monitored and controlled. 			

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	HIPS Settings - Table of F	Parameters
Form Element		Description
	and create automatic 'Allow' r user will not receive any HIPS	rs and learn the activity of any and all executables rules until the security level is adjusted. The end- S alerts in 'Training Mode'. If you choose the dvise that you are 100% sure that all applications the endpoints are safe to run.
Monitoring Settings	monitored by it at the managed endpoint	the activities, entities and objects that should int by clicking the 'Monitoring Settings' link.
	HIPS	
	HIPS Settings HIPS Rules Rulesets	Protected Objects
	Enable HIPS	
	Safe mode	Monitoring_settings
	This option enables the Host Intrusion Protection that monitors critical operating system activities to against malware actions.	
	Monitoring Settings	×
	Activities to Monitor	
	Interprocess memory access	Process execution
	Windows/WinEvent hooks	Window messages
	 Device driver installations Processes terminations 	DNS/RPC client service
	Objects to Monitor Against Modifie	cations
	Protected COM interfaces	Protected registry keys
	Protected files/folders	
	Objects to Monitor Against Direct	Access
	Physical memory	Disks
	Computer monitor	Keyboard
		ок
	Activities To Monitor:	
	 Interprocess Memory Access modification to inject malicious include recording your keyboa and stealing data by sending another. One of the most serii ability of the offending malwa 	ss - Malware programs use memory space is code for numerous types of attacks. These ard strokes; modifying the behavior of applications confidential information from one process to ous aspects of memory-space breaches is the re to take the identity of a compromised process
	traditional virus scanning soft option selected, and HIPS ge	on under attack. This makes life harder for ware and intrusion-detection systems. Leave this nerates alerts when an application attempts to ocated to another application (Default = Enabled)
	Windows/WinEvent Hooks	In the Microsoft Windows® operating system, a

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HIPS Settings - Table of Parameters		
Form Element	Description	
	hook is a mechanism by which a function can intercept events before they reach an application. Example intercepted events include messages, mouse actions and keystrokes. Hooks can react to these events and, in some cases, modify or discard them. Originally developed to allow legitimate software developers to develop more powerful and useful applications, hooks have also been exploited by hackers to create more powerful malware. Examples include malware that can record every stroke on your keyboard; record your mouse movements; monitor and modify all messages on your computer and take remote control of your computer. Leaving this option selected means that an alert is generated every time a hook is executed by an untrusted application <i>(Default = Enabled)</i> .	
	• Device Driver Installations - Device drivers are small programs that allow applications and/or operating systems to interact with hardware devices on the managed computer. Hardware devices include your disk drives, graphics card, wireless and LAN network cards, CPU, mouse, USB devices, monitor, DVD player etc. Even the installation of a perfectly well-intentioned device driver can lead to system instability if it conflicts with other drivers on the system. The installation of a malicious driver could, obviously, cause irreparable damage to the computer or even pass control of that device to a hacker. Leaving this option selected means HIPS generates alerts every time a device driver is installed on the computer by an untrusted application (Default = Enabled).	
	 Processes' Terminations - A process is a running instance of a program. Terminating a process, obviously, terminates the program. Viruses and Trojan horses often try to shut down the processes of any security software you have been running in order to bypass it. With this setting enabled, HIPS monitors and generates alerts for all attempts by an untrusted application to close down another application (<i>Default = Enabled</i>). 	
	 Process Execution - Malware such as rootkits and key-loggers often execute as background processes. With this setting enabled, HIPS monitors and generates alerts whenever a process is invoked by an untrusted application. (Default = Enabled). 	
	 Windows Messages - This setting means Comodo Client Security monitors and detects if one application attempts to send special Windows Messages to modify the behavior of another application (e.g. by using the WM_PASTE command) (Default = Enabled). 	
	 DNS/RPC Client Service - This setting generates alerts if an application attempts to access the 'Windows DNS service' - possibly in order to launch a DNS recursion attack. A DNS recursion attack is a type of Distributed Denial of Service attack whereby a malicious entity sends several thousand spoofed requests to a DNS server. The requests are spoofed in that they appear to come from the target or 'victim' server but in fact come from different sources - often a network of 'zombie' computers which send out the requests without the owners knowledge. The DNS servers are tricked into sending all their replies to the victim server - overwhelming it with requests and causing it to crash. Leaving this setting enabled prevents malware from using the DNS Client Service to launch such an attack (<i>Default = Enabled</i>). 	
	Objects To Monitor Against Modifications:	
	 Protected COM Interfaces enables monitoring of COM interfaces you specified from the COM Protection pane. (Default = Enabled) 	
	Protected Registry Keys enables monitoring of Registry keys you	

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	HIPS Settings - Table of Parameters
Form Element	Description
	 specified from the Registry Protection pane. (Default = Enabled). Protected Files/Folders enables monitoring of files and folders you specified from the File Protection pane. (Default = Enabled). Objects To Monitor Against Direct Access: Determines whether or not Comodo Client Security should monitor access to system critical objects on the managed computer. Using direct access methods, malicious applications can obtain data from a storage devices, modify or infect other executable software, record keystrokes and more. Comodo advises the average user to leave these settings enabled:
	 Physical Memory: Monitors your computer's memory for direct access by an applications and processes. Malicious programs attempt to access physical memory to run a wide range of exploits - the most famous being the 'Buffer Overflow' exploit. Buffer overruns occur when an interface designed to store a certain amount of data at a specific address in memory allows a malicious process to supply too much data to that address. This overwrites its internal structures and can be used by malware to force the system to execute its code (Default = Enabled).
	• Computer Monitor: Comodo Client Security raises an alert every time a process tries to directly access the computer monitor. Although legitimate applications sometimes require this access, spyware can also use such access to take screen shots of the current desktop, record browsing activities of the user and more (<i>Default = Enabled</i>).
	• Disks: Monitors the local disk drives at the managed computer, for direct access by running processes. This helps guard against malicious software that need this access to, for example, obtain data stored on the drives, destroy files on a hard disk, format the drive or corrupt the file system by writing junk data (<i>Default = Enabled</i>).
	• Keyboard : Monitors the keyboard for access attempts. Malicious software, known as 'key loggers', can record every stroke made on keyboard and can be used to steal passwords, credit card numbers and other personal data typed through the keyboard. With this setting is enabled, Comodo Client Security generates alerts every time an application attempts to establish direct access to the keyboard (<i>Default = Enabled</i>).
	Note : The settings you choose here are universally applied. If you disable monitoring of an activity, entity or object using this interface it completely switches off monitoring of that activity on a global basis - effectively creating a universal 'Allow' rule for that activity . This 'Allow' setting over-rules any Ruleset specific 'Block' or 'Ask' setting for that activity that you may have selected using the 'Access Rights' and 'Protection Settings' interface.
Do NOT show popup alerts	Configure whether or not the HIPS alerts are to be displayed at the managed computer for the end-user to respond. Choosing 'Do NOT show popup alerts' will minimize disturbances but at some loss of user awareness (<i>Default = Enabled</i>).
	If you choose not to show alerts then you have a choice of default responses that CCS should automatically take - either 'Block Requests' or 'Allow Requests'.

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HIPS Settings - Table of Parameters					
Form Element	Description				
	Do NOT show popup alerts	Allow Requests 🗸			
		Allow Requests			
		Block Requests			
Set popup alerts to verbose mode		Enabling this option instructs CCS to display HIPS alerts in verbose mode, providing more more informative alerts and more options for the user to allow or block the requests (<i>Default = Enabled</i>).			
Create rules for safe	Automatically creates rules for safe appli	ications in HIPS Ruleset (Default = Enabled)			
applications	Note: HIPS trusts the applications if:				
		as 'Trusted' in the File List			
	 The application is from a vertex Vendors list 	endor included in the Trusted Software			
	The application is included Comodo safelist.	in the extensive and constantly updated			
Set new on-screen alert timeout to		Determines how long the HIPS shows an alert for without any user intervention. By default, the timeout is set at 60 seconds. You may adjust this setting to your own preference.			
Enable adaptive mode under low system resources	Very rarely (and only in a heavily loaded system), low memory conditions might cause certain CCS functions to fail. With this option enabled, CCS will attempt to locate and utilize memory using adaptive techniques so that it can complete its pending tasks. However, the cost of enabling this option may be reduced performance in even lightly loaded systems <i>(Default = Enabled)</i> .				
Block unknown requests when the application is not running	Selecting this option blocks all unknown execution requests if Comodo Client Security is not running/has been shut down. This is option is very strict indeed and in most cases should only be enabled on seriously infested or compromised machines while the user is working to resolve these issues. If you know the managed computer machine is already 'clean' and are looking just to enable the highest CCS security settings then it is OK to leave this option disabled. <i>(Default = Disabled)</i>				
Enable enhanced protection mode (Requires a system restart)	On 64 bit systems, enabling this mode will activate additional host intrusion prevention techniques to counteract extremely sophisticated malware that tries to bypass regular HIPS protection. Because of limitations in Windows 7/8 x64 systems, some HIPS functions in previous versions of CCS could theoretically be bypassed by malware. Enhanced Protection Mode implements several patent-pending ways to improve HIPS. EM requires a system restart for enabling enhanced protection mode. (<i>Default = Disabled</i>)				
Enable embedded code detection and heuristic command-line analysis for certain applications	Embedded code detection protects you against file-less malware attacks. File-less malware attacks allow malicious actors to directly execute powershell commands on your system. These commands can be used to take control of endpoints, install ransomware, steal confidential data and more. File-less scripts reside in memory so no trace of them remains after the computer is restarted.				
	Example programs affected by this optio javaw.exe.	n are wscript.exe, cmd.exe, java.exe and			
	For example, the program wscipt.exe ca file extension) via a command similar to	n be made to execute visual basic scripts (.vbs 'wscript.exe c:\tests\test.vbs'. If this option is rom the command-line and applies all security			

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Endpoint Manager - Administrator Guide

HIPS Settings - Table of Parameters			
Form Element	Description		
Form Element	 checks to this file. Enabled - If test.vbs attempts to connect to the internet, the alert will state 'test.vbs' is attempting to connect to the internet. Disabled - The alert will only state 'wscript.exe' is trying to connect to the internet'. Click the 'Certain applications' link to view and select which apps are analyzed. See Select Applications for Heuristic Command Line/Embedded code Analysis for more details. Background note: 'Heuristics' describes the method of analyzing a file to ascertain whether it contains codes typical of a virus. Heuristics is about detecting virus-like behavior or attributes rather than looking for a precise virus signature that matches a signature on the virus blacklist. This helps to identify previously unknown (new) viruses. A shellcode is an attack which exploits software vulnerabilities to give attackers control of a compromised machine. For example, shellcode attacks are often used to create buffer-overflows on 		
	 victim machines. Enabling this setting turns-on buffer overflow protection. By default, Comodo Client Security (CCS) monitors all applications to make sure they do not suffer shellcode attacks. However, you may want to omit certain applications from protection for compatibility reasons. Click the 'Exclusions' link to do this. The process to add exclusions is similar to that explained in Containment Settings. 		
	Background : A buffer overflow is an anomalous condition where a process/executable attempts to store data beyond the boundaries of a fixed-length buffer. The result is that the extra data overwrites adjacent memory locations. The overwritten data may include other buffers, variables and program flow data and may cause a process to crash or produce incorrect results. They can be triggered by inputs specifically designed to execute malicious code or to make the program operate in an unintended way. As such, buffer overflows cause many software vulnerabilities and form the basis of many exploits.		
	Comodo recommends this setting is left enabled (<i>Default = Enabled</i>).		

Select Applications for Heuristic Command Line/Embedded Code Analysis

- Click 'Configuration Templates' > 'Profiles' > select a profile > Open the 'HIPS settings' tab.
- If it is not available, click 'Add Section' and add 'HIPS settings'.
- Click the 'Certain Applications' link

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The 'HIPS Command-Line Analysis' dialog displays a list of applications to choose from. You can also add custom

applications which you want to protect.

- Use the switch in the 'Heuristic Command-Line Analysis' column to enable/disable heuristic command line analysis for each application.
- Use the switch in the 'Embedded Code Detection' column to enable/disable embedded code detection for each application.
- Click the edit button to update application details.
- · Click the trash can icon to remove an application from the list.
- Click 'Add' at the top to include a new application to the list.

HIPS Command-Line A	nalysis		×
Select the applications for wh perform heuristic analysis. + Add Reset to D		o detect embedded s	script and
APPLICATION	HEURISTIC COMMAND-LINE ANALYSIS	EMBEDDED CODE DETECTION	
*\wirhlp32.exe	ON	OFF	/ 1
Add Application			×
Add a new application			
Application			
			Add

- Enter the name of the application in the 'Add Application' dialog and click 'Add'.
- The new application will be added to the list and will be selected by default. You can use the toggle switch beside it to enable/disable it at any time.
- Repeat the process to add more applications
- To reset the list to the default list of applications, click 'Reset to Default' at the top
- Click 'OK' to apply your changes.

HIPS Rules

The 'HIPS Rules' screen allows you to view the list of active HIPS rulesets applied to different groups of or individual applications and to create and manage rules for the profile. You can change the ruleset applied to a selected application or application group.

Note: HIPS Rulesets are to be created before applying them to an individual application or an application group. Refer to the next section **Rulesets** for details on creating new rulesets.

eneral Antiviru	s HIPS				
HIPS				🕒 Save	Delete
HIPS Settings	HIPS Rules	Rulesets	Protected Objects		
Add Rule					
APPLICATION			TREAT AS		
COMODO Client	Files/Folders		All Allowed Apps		e 🖞
Web Browsers			All Allowed Apps		A 🔒

HIPS Rules - Column Descriptions			
Column Header	Description		
Application	Name of the individual application or the application group to which the ruleset is applied		
Treat As	The ruleset applied. For more details on the rulesets, see the next section Rulesets.		
Actions	Contains control buttons to edit or remove the rule		

Create and Modify HIPS Rules

To begin defining an application's HIPS rule, you need take two basic steps.

- Step 1 Select the application that you wish the ruleset is to be applied.
- Step2 Configure the rules for this application's ruleset.

Step 1 - Select the application that you wish the ruleset is to be applied

• To define a ruleset for a new application (i.e. one that is not already listed), click the 'Add Rule' button at the top of the list in the 'HIPS Rules' interface.

The 'HIPS Rule' interface will open as shown below:

General Antivirus HIPS Save 📋 Delete HIPS **HIPS Settings** HIPS Rules Protected Objects Rulesets Add Rule APPLICATION TREAT AS **HIPS Rule** × Name Use group Name Use ruleset Use ruleset ---Copy from -Use a custom ruleset ۲ OK

Because this is a new application, the 'Name' field is blank. (If you are modifying an existing rule, then this interface shows the individual rules for that application's ruleset).

- To create a rule for a single application enter the file name of it in the 'Name' field
- To create a rule for an application group, select 'Use Group' and choose the file group from the drop-down

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HIPS Rule		×
Group Name		\sim
Use group	Select file group	(•)
	Select file group Executables All Applications Windows Updater Applications Windows System Applications Windows Management 3rd Party Protocol Drivers Metro Apps Email Clients File Archivers File Archivers Shared Spaces File Downloaders Suspicious Locations Containment Folders Pseudo File Downloaders	
	Web Browsers Browser Plugins Startup Folders Management and Productivity Applications	•

Note: Endpoint Manager ships with a set of predefined file groups containing collections of files under respective categories. Admins can also create custom file groups with required applications. All the pre-defined and the custom file groups will be available in the drop-down. The custom file groups can be created under 'Settings' > 'System Templates' > 'File Groups Variables' interface. See **Create and Manage File Groups** for more details.

Step 2 - Configure the rules for this application's ruleset

There are two broad options available for creating a ruleset that applies to an application - Use a Predefined Ruleset or Use a Custom Ruleset.

 Use a Predefined Ruleset - Allows you to quickly deploy an existing HIPS ruleset on to the target application. Choose the ruleset you wish to use from the drop-down menu. The name of the predefined ruleset you choose is displayed in the 'Treat As ' column for that application in the 'HIPS Rules' interface.

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HIPS Rule		×
Group Name		
Use group	COMODO Client Files/Fold	ers 🔻
Ye	ou can add/edit file groups h	nere
 Use ruleset 	All Allowed	l Apps 🔹
Use a custom ruleset	Selecting 'Use ruleset' a ruleset from the drop-do from the ruleset for the a	nd choosing a pre-defined wn will populate the rules application/group.
Access Rights	P	rotection Settings
ACCESS NAME	ACTION	EXCLUSIONS
Run an executable	Ask	▼ Modify (0 0)
Interprocess Memory Accesses	Allow	▼ Modify (0 0)
Winds WinEvent Hooke	Allow	Modify (010)
DNS Client Service	Allow	¥
Physical Memory	Allow	•
Computer Monitor	Allow	T
Disk	Allow	•
Keyboard	Allow	Ŧ
		ОК

Note: Predefined Rulesets, once chosen, cannot be modified *directly* from this interface - they can only be modified and defined using the **Ruleset** interface. If you require the ability to modify components of the rule set, then you are effectively creating a new, custom ruleset and should choose the more flexible **Use Custom Ruleset** option instead.

• Use a Custom Ruleset - Designed for more experienced administrators, the 'Custom Ruleset' option grants full control over the configuration of each rule within that ruleset. The custom ruleset has two main configuration areas - Access Rights and Protection Settings. (Default = Enabled)

HIPS Rule				×	
Group Name					
Use group	COMODO CI	ient Files/Folder	rs	•	
	You can add/e	dit file groups he	ere		
Use ruleset		All Allowed	Apps	T	
Use a custom ruleset		Copy from	-		
		Rulesets		All Allowed Apps	L
				Ruleset for Wind	ows System Apps
for 'Access Rights' and 'Protec	All Allowed Apps tion Settings'.	'. Usong this as a	a starting po	pint, you can change	are configured the options
for 'Access Rights' and 'Protec	All Allowed Apps tion Settings'.	'. Usong this as a	a starting po	pint, you can change	the options
Access Rights	All Allowed Apps tion Settings'.		rotection Se	bint, you can change	the options
for 'Access Rights' and 'Protec	All Allowed Apps tion Settings'.		rotection Se	bint, you can change	the options
for 'Access Rights' and 'Protec	All Allowed Apps tion Settings'.	Pr	rotection Se	pint, you can change	the options
for 'Access Rights' and 'Protect Access Rights ACCESS NAME	All Allowed Apps tion Settings'.	Pr	rotection Se	pint, you can change the second se	the options

In simplistic terms 'Access Rights' determine what the application *can do to other processes and objects* whereas 'Protection Settings' determine what the application *can have done to it by other processes*.

i. Access Rights - The 'Process Access Rights' area allows you to determine what activities can be performed by the applications in your custom ruleset.



Interprocess Memory Accesses	Allow 🔽	Modify (0 0)
	Ask	
	Allow	and and meridian semiciria
	Block	

See HIPS Settings > Activities to Monitor to view a list of definitions of the Action Names listed above and the implications of choosing the action from 'Ask', 'Allow' or 'Block' for each setting as shown below:

- Exceptions to your choice of 'Ask', 'Allow' or 'Block' can be specified for the ruleset by clicking the 'Modify' link on the right.
- Select the 'Allowed Files/Folders' or 'Blocked Files/Folders' tab depending on the type of exception you wish to create.

Interprocess Memory Accesses	×
Add ~	
Allowed Files/Folders	Blocked Files/Folders
GROUP/PATH/FOLDERS/RUNNING PROCESSES	ACTIONS
You can add/edit file groups here	ОК

- Click the 'Add' button at the top to choose which applications or file groups you wish this exception to apply to. (click here for an explanation of available options).
- ii. **Protection Settings -** Protection Settings determine how protected the application or file group in your ruleset is *against* activities by other processes. These protections are called 'Protection Types'.

Access Rights	Ρ	rotection Settings
PROTECTION	STATE	EXCLUSIONS
Interprocess Memory Accesses	Active	 Modify (0)
Windows/WinEvent Hooks	Active	 Modify (0)
Processes' Termination	Active	 Modify (0)
Window Messages	Active	 Modify (0)
		Ok

 Select 'Active' to enable monitoring and protect the application or file group against the process listed in the 'Protection State' column. Select 'Inactive' to disable such protection.

Click here to view a list of definitions of the 'Protection Types' listed above and the implications of activating each setting.

Exceptions to your choice of 'Active' or 'Inactive' can be specified in the application's Ruleset by clicking the 'Modify' link on the right.

5. Click 'OK' to confirm your settings.

Rulesets

A Pre-defined ruleset is a set of access rights and protection settings that has been saved and can be re-used and deployed on multiple applications or groups. Each ruleset is comprised of a number of rules and each of these rules is defined by a set of conditions/settings/parameters. Rulesets concern an application's access rights to memory, other programs, the registry etc.

The Rulesets screen under the 'HIPS' tab displays the list of rulesets and allows you to add and manage new rulesets.

General	Antivirus	Sandbox	Valkyrie	Viruscope	HIPS		
HIPS						Cancel	Save
HIPS Set	tings HIF	PS Rules	Rulesets	Protected Obje	ects		
Add Rules	set						
RULESET	NAME						
All Allowe	d Apps						e 🕯
Windows	System Applica	tion					1

To add a new ruleset

- Click the 'Add Ruleset' button
- Add Rules

above the list of rulesets.

The 'HIPS Ruleset' dialog will appear.

Name		
Humo		
Access Rights	Pr	otection Settings
ACCESS NAME	ACTION	EXCLUSIONS
Run an executable	Ask	▼ Modify (0 0)
Interprocess Memory Accesses	Ask	▼ Modify (0 0)
Windows/WinEvent Hooks	Ask	▼ Modify (0j0)
Protected File/Folders	Ask	▼ Modify (0 0)
DNS Client Service	A ala	_
DNS Client Service	Ask	T
Physical Memory	Ask	T
	Ask	T
Computer Monitor		Ŧ
Computer Monitor Disk	Ask	
	Ask	

- Enter a name for the ruleset
- Configure the Actions, states and exclusions for 'Access Rights' and 'Protection Settings' as explained above. Any changes you make here are automatically rolled out to all applications that are covered by the ruleset. The new ruleset will be available for deployment to HIPS rule for applications/application groups from the HIPS Rules interface.
- To edit a ruleset, click the Edit button under the Actions in the Rulesets interface. The Editing process is similar to the Ruleset creation process explained above.

Protected Objects

The 'Protected Objects' panel under 'HIPS' tab allows you to protect specific files and folders, system critical registry keys and COM interfaces at the managed computers, against access or modification by unauthorized processes and services. You can also add files in 'Protected Data Folders', so that 'Contained' programs will be blocked from accessing them.

General	Antivirus	Sandbox	Valkyrie	Viruscope	HIPS			
HIPS						[Cancel	Save
HIPS Se	ettings HIF	PS Rules	Rulesets	Protected Obje	ects			
Show	Protected File	8	► By	File List	~			
Add File	Path							
PATH								ACTIONS
C:\Progra	am Files\New so	ftware\new_soft	ware.exe					1

The 'Show' drop-down allows you to choose the category of protected objects to be displayed in the list and add and manage the protected objects of that category. You can add following categories of protected objects:

- **Protected Files** Allows you to view and specify programs, applications, files an file groups that are to be protected from changes
- Registry Keys Allows you to view and specify registry keys that are to be protected from changes
- COM Interfaces Allows you to view and specify COM interfaces that are to be protected from changes
- Protected Data Folders Allows you to view and specify folders containing data files that are to be
 protected from changes by 'Contained' programs

Protected Files

The 'Protected Files' list under 'Protected Objects' interface allows you to view and manage list of files and file groups that are to be protected from access by other programs, especially malicious programs such as virus, Trojans and spyware at the managed computer. It is also useful for safeguarding very valuable files (spreadsheets, databases, documents) by denying anyone and any program the ability to modify the file - avoiding the possibility of accidental or deliberate sabotage. If a file is 'Protected' it can still be accessed and read by users, but not altered. A good example of a file that ought to be protected is your 'hosts' file (c:\windows\system32\drivers\etc\hosts). Placing this in the 'Protected Files and Folders' area would allow web browsers to access and read from the file as per normal. However, should any process attempt to modify it then Comodo Client Security blocks this attempt and produces a 'Protected File Access' pop-up alert.

If you add a file to 'Protected Files', but want to allow trusted application to access it, then rules can be defined in HIPS Rulesets. Refer to the explanation of **adding 'Exceptions' at the end of this section** for more details about how to allow access to files placed in Protected Files.

 To view the list of Protected Files, choose 'Protected Files' from the 'Show' drop-down in the 'Protected Objects' interface

The Protected File list is displayed under two categories, which can be selected from the drop-down at the right.

General	Antiviru	s HIPS						
HIPS							Save	Delete
HIPS Se	ttings	HIPS Rules	Rulesets	Pro	tected Objects			
Show	Protect	ed files	~	By	File list	~		
Ado	d File Path	1						
PATH								ACTIONS
C:\Pr	ogram Files	(x86)\OpenOffice	e 4\program\so	ffice,ex	e			e 🗊

Ву	File List	(\cdot)
	File List	\smile
	Group List	

- To view the list of individual files, programs, applications added to the Protected Files list and manage them, choose 'File List'
- To view the File Groups added to the Protected File list, choose 'Group List'

You can add individual files, programs, applications or file/groups to 'Protected Files'.

To add an individual file, program or an application

• Choose 'File List' from the drop-down at the right and click the 'Add File Path' button.

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РАТН	ACTION
C:\ProgramFiles (x86)\OpenOffice 4\program\soffice,exe	1
Add Protected File Path	×
File path C:\Program Files (x86)\OpenOffice 4\program\swriter.exe	

- Enter the installation/storage path with file name of the file to be protected, in the managed computers, in the 'Add Protected File Path' dialog and click 'OK'.
- Repeat the process to add more files.
- To edit the path of an item in the list, click the Edit icon under the 'Actions' in the list.
- To remove an item from the list, click the trash can icon under 'Actions' in the list

To add an application/file group to the Protected Files list

• Choose 'Group List' from the drop-down at the right and click the 'Add Protected Group' button

Show	Protected Files	~	By	Group List	×	
Gilon	Totested Thes			Group List		
Add P						You c
Execut	ables					
All App	lications					
Window	ws Updater Applications		E			
Window	ws System Applications					
File Do	wnloaders					
Shared	Spaces					
Startup	Folders					
Window	ws Management					
3rd Pa	rty Protocol Drivers					
Metro	Apps					
Web Br	rowsers		-			

• Choose the file group from the drop-down and click 'OK'.

Note: Endpoint Manager ships with a set of predefined file groups containing collections of files under respective categories. You can also create custom file groups with required applications. All the pre-defined and the custom file groups will be available in the drop-down. The custom file groups can be created under 'Settings' > 'System Templates' > 'File Groups Variables' interface. See **Create and Manage File Groups** for more details.

- Repeat the process to add more file groups.
- To edit the path of an item in the list, click the Edit icon under the 'Actions' in the list.
- To remove an item from the list, click the trash can icon under 'Actions' in the list

Exceptions

You can choose to selectively allow another application (or file group) to modify a protected file by affording the appropriate 'Access Right' in 'HIPS Rules' interface. A simplistic example would be the imaginary file 'Accounts.ods'. You would want the 'Open Office Calc' program to be able to modify this file as you are working on it, but you would not want it to be accessed by a potential malicious program. You would first add the spreadsheet to the 'Protected Files' area. Once added to 'Protected Files', you would go into 'HIPS Rules' and create an exception for 'scalc' so that it alone could modify 'Accounts.ods'.

- First add Accounts.ods to 'Protected Files' area as explained above.
- Then go to 'HIPS Rules' interface and add it to the list of applications.
- In the 'HIPS Rule' interface, enter the file name as Accounts.ods, choose 'Use a Custom Ruleset' and select a ruleset from the 'Copy From' drop-down.
- Under 'Access Rights' tab, set all the rules to 'Ask'

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HIPS Rule			×
Name	Accounts.ods		
 Use ruleset Use a custom ruleset 		Use ruleset Copy from -	¥
Access Rights	ACTIO	Protection	
Run an executable	As		EXCLUSIONS Modify (0 0)
Protected Registry Keys	As	k 💌	Modify (0 0)
Protected File/Folders	As	k 🔽	Modify (0 0)
DNS Client Service	As	k 💌	
тольк			
Keyboard	As	k 💌	
			Ok

- Click the 'Modify' beside 'Protected File/Folders'
- Under the 'Access Rights' section, click the link 'Modify' beside the entry 'Protected Files/Folders'.

The 'Protected Files/Folders' interface will appear.

• Under the 'Allowed Files/Folders' section, click 'Add' > 'Files' and add scalc.exe as exceptions to the 'Ask' or 'Block' rule in the 'Access Rights'.

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Protected File/Folders		×
Add ~		
Allowed Files/Folders	Blocked Files/Folders	
GROUP/PATH/FOLDERS/RUNNING PROCESSES		ACTIONS
C:\Program Files (x86)\OpenOffice 4\program\scalc.exe		e 🗍
You can add/edit file groups here		ОК

Another example of where protected files should be given selective access is the Windows system directory at 'c:\windows\system32'. Files in this folder should be off-limits to modification by anything except certain, Trusted, applications like Windows Updater Applications. In this case, you would add the directory c:\windows\system32* to the 'Protected Files area (* = all files in this directory). Next go to 'HIPS Rules', locate the file group 'Windows Updater Applications' in the list and follow the same process outlined above to create an exception for that group of executables.

Registry Keys

The 'Registry Keys' list under 'Protected Objects' interface allows you to view and manage list of critical registry keys and registry groups to be protected against modification. Irreversible damage can be caused to the managed endpoint if important registry keys are corrupted or modified in any way. It is essential that the registry keys are protected against any type of attack.

 General
 File Rating
 Firewall
 Viruscope
 HIPS

 HIPS
 Save
 Delete

 HIPS Settings
 HIPS Rules
 Rulesets
 Protected Objects

 Show
 Registry Keys
 By
 Key List
 Image: Comparison of the set of th

To view the list of Protected Registry Keys, choose 'Registry Keys' from the 'Show' drop-down in the 'Protected Objects' interface

The Protected Registry Keys list is displayed under two categories, which can be selected from the drop-down at the



right.

Ву	Key List	~	
	Key List		
	Group List		

- To view the list of individual keys and values, and manage them, choose 'Key List'
- To view the Registry Groups, choose 'Group List'

You can add individual registry keys and Registry groups to Protected Registry Keys list.

To add an individual key

• Choose 'Key List' from the drop-down at the right and click the 'Add Registry Key' button.

neral Antivirus HIPS		
HIPS		🖺 Save 📋 Delete
HIPS Settings HIPS Rules	Rulesets Protected Objects	
Show Registry keys	✓ By Key list	*
Add Registry Key		
- KENG		ACTIONS
Add Registry Key		×
Registry key		
Registry key		
		ок

- Enter the key name to be protected in the 'Add Registry Key' dialog and click 'OK'.
- Repeat the process to add more keys.
- To edit an item in the list, click the 'Edit' icon under the 'Actions' in the list.
- To remove an item from the list, click the trash can icon under 'Actions' in the list

To add an Registry group to the Protected Registry Keys list

• Choose 'Group List' from the drop-down at the right and click the 'Add Protected Files' button

Show Registry Keys V By Group List	t 🗸
Add Registry Group -	
Automatic Startup	
COMODO Keys	
Internet Explorer Keys	
Internet Explorer Keys Important Keys	

Choose the Registry group from the drop-down and click 'OK'.

Note: Endpoint Manager ships with a set of predefined Registry groups containing collections of registry keys under respective categories. You can also create custom Registry groups with required key values. All the predefined and the custom Registry groups will be available in the drop-down. The custom Registry groups can be created under 'Settings' > 'System Templates' > 'Registry Variables' interface. See **Create and Manage Registry Groups** for more details.

- Repeat the process to add more Registry groups.
- To edit the an item in the list, click the Edit icon under the 'Actions' in the list.
- To remove an item from the list, click the trash can icon under 'Actions' in the list

COM Interfaces

Component Object Model (COM) is Microsoft's object-oriented programming model that defines how objects interact within a single application or between applications - specifying how components work together and inter-operate. COM is used as the basis for Active X and OLE - two favorite targets of hackers and malicious programs to launch attacks on a computer. It is a critical part of any security system to restrict processes from accessing the Component Object Model - in other words, to protect the COM interfaces.

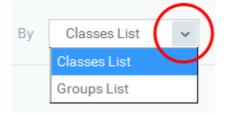
The 'COM Interfaces' list under 'Protected Objects' interface allows you to view and manage list of individual COM classes and COM groups that are to be protected by the Comodo Client Security at the managed computer against modification, corruption and manipulation by malicious processes.

To view the list of Protected COM interfaces,

Choose 'COM Interfaces' from the 'Show' drop-down in the 'Protected Objects' interface

General Viruscope HIPS	3			
HIPS			С	ancel Save
HIPS Settings HIPS Rules	Rulesets	Protected Objects		
Show COM Interfaces	~	By Classes List	~	
Add COM Class				
COM CLASSES				ACTIONS
Access Control List				1

The Protected COM Interfaces list is displayed under two categories, which can be selected from the drop-down at the right.



- To view the list of individual COM Interfaces/Classes and manage them, choose 'Classes List'
- To view the COM Groups and manage them, choose 'Group List'

You can add individual COM Interfaces/Classes and/or pre-defined COM groups to 'Protected COM Objects' list.

To add an individual COM object

• Choose 'Classes List' from the drop-down at the right and click the 'Add COM Class' button

eneral Antivi	rus HIPS					
HIPS					💾 Save	🗊 Delete
HIPS Settings	HIPS Rules	Rulesets	Protected Object	cts		
Show COM	interfaces	~	By Classes	list 🗸		
Add COM C	class					
COM CLASSES						ACTIONS
Add CO	N Class Nan	ne				×
Class name						
Class na	me					
						ок

- Enter the name of the COM object to be protected at the managed computer, in the 'Add COM Class Name' dialog and click 'OK'.
- Repeat the process to add more COM objects.
- To edit an item in the list, click the Edit icon under the 'Actions' in the list.
- To remove an item from the list, click the trash can icon under 'Actions' in the list

To add a predefined COM Group to the Protected COM objects list

• Choose 'Group List' from the drop-down at the right and click the 'Add COM Group' button

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Show COM Interfaces ~	By Groups List 🗸
Add COM Group	
Internet Explorer/Windows Shell	ACTIONS
Windows Management	
Miscellaneous Classes	
Pseudo COM Interfaces - Privileges	
Pseudo COM Interfaces - Important Ports	
NEW TEST COM group	
123	
test	

• Choose the file group from the drop-down and click 'OK'.

Note: Endpoint Manager ships with a set of predefined COM groups containing collections of COM interfaces under respective categories. You can also create custom COM groups with required COM objects. All the predefined and the custom file groups will be available in the drop-down. The custom COM groups can be created under 'Settings' > 'System Templates' > 'COM Variables' interface. See **Create and Manage COM Groups** for more details.

- Repeat the process to add more COM groups.
- To edit the an item in the list, click the Edit icon under the 'Actions' in the list.
- To remove an item from the list, click the trash can icon under 'Actions' in the list

Protected Data Folders

The data files in the folders listed under the 'Protected Data Folders' area cannot be seen, accessed or modified by any known or unknown application that is running inside the container.

Tip: Files and folders that are added to '**Protected Files**' interface are allowed read access by other programs but cannot be modified, whereas the files/folders in 'Protected Data folders' are totally hidden to contained programs. If you want a file to be read by other programs but protected from modifications, then add it to 'Protected Files' list. If you want to totally conceal a data file from all the contained programs but allow read/write access by other known/trusted programs, then add it to Protected Data Folders.

The Protected Data Folders list under Protected Objects allows you define protected data folders at the managed computers and to manage them.

• To open the Protected Data Folders list, choose 'Protected Data Folders' from the Show drop-down in the Protected Objects interface.

General File Rating Firewall Viruscope HIPS	
HIPS	Save Delete
HIPS Settings HIPS Rules Rulesets Protected Objects	
Show Protected Data Folders 🗸	
Add Folder	
FOLDER	ACTIONS
E:\user backup	✓ 前

You can add standard folders at the managed computers as Protected Data Folders. Data files to be protected from contained programs, can be saved inside the folders at the managed computers.

To add the path of protected data folder

• Click the 'Add Folder' button at the top of the list

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General Antivirus HIPS		
HIPS	Save	Delete
HIPS Settings HIPS Rules Rulesets Protected Objects		
Show Protected data folders		
Add Folder		
FOLDER		ACTIONS
Add Folder		×
Folder name		
Folder name		
		ок

- Enter the folder path in the Add Folder dialog and click 'OK'
- Repeat the process to add more folders
- To edit the an item in the list, click the Edit icon under the 'Actions' in the list.
- To remove an item from the list, click the trash can icon under 'Actions' in the list

6.1.3.1.6. Containment Settings

- Comodo Client Security (CCS) can be configured to run all unknown files in a security hardened environment known as the 'container'.
- Files in the container are prevented from causing damage because they are isolated from the OS, file system and user data.
- The 'Containment' settings area lets you configure the overall behavior of the containment component.
- You can also create rules to define what types of files should be contained and at what restriction level.
- Modifications to containment settings are automatically logged. You can view the old and new values in the 'Dashboard' > 'Audit Logs' screen. See 'Audit Logs' in the 'Dashboard' section for more information.

Restriction levels include:

- Run Virtually. The file is completely isolated from your operating system and files on your computer
- Run Restricted. The file is contained but has limited access to operating system resources
- Block. The file is completely prevented from running
- Ignore. The file is run outside the container without restrictions



See Auto-Containment Rules for more information about rules.

To configure Containment settings

- Click 'Configuration Templates' > 'Profiles'
- Open the profile you wish to work on
- Click 'Add Profile Section' > 'Containment'

The containment settings screen will open:

G	eneral	Containmen		
l	Contai	nment		🔀 Cancel 💾 Save
	Settings	Rules	Baseline	
	This option		inment mputer against unknown malware by auto-containting and blocking the ac can not harm your computer.	ctions of unknown applications in such a
			tracking up to CCS8.3 ntainment decisions will be taken only on basis of files reputation and the	ir location.

It contains three tabs.

- Containment Settings
- Auto-Containment Rules
- Baseline Settings

Containment Settings

- Enable or disable auto-containment
- · Select files/folders that contained applications are allowed to access
- · Configure various settings related to the behavior of the auto-containment system

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General Antivirus HIPS Containment					
Containment Save					
Settings Rules Baseline					
 Enable Auto-Containment This option protects your computer against unknown malware by auto-containting and blocking the actions of unknown applications in such a way that these applications can not harm your computer. Enable file source tracking up to CCS 8.3 If you disable this option, containment decisions will be taken only on basis of files reputation and their location. 					
 Do not virtualize access to the specified files/folders Exclusions Do not virtualize access to the specified registry keys/values Exclusions 					
 Enable automatic startup for services installed in the Containment Show highlight frame for contained programs Detect programs which require elevated privileges e.g. installers or updates 					
 Do not show privilege elevations alerts Run inside the Container Do not show internal Containment services among the contained applications Do not report to Endpoint Manager about internal Containment services 					

Containment Settings - Table of Parameters			
Form Element	Description		
Enable Auto-Containment	Enable or disable auto-containment on the endpoint. If enabled, CCS will automatically run unknown applications inside the container.		
	You can also create rules to fine-tune exactly which types of files are contained.		
	For more details on rules, see 'Configure Rules for Auto- Containment'.		
	(Default = Disabled)		
Enable file source tracking	If enabled, the source parameter of a containment rule will be considered.		
	For example, if you only want to auto-contain files downloaded from the internet, then 'internet' is your source.		
	If this setting is disabled then the source will be disregarded and only the reputation and location parameters will be considered.		
	 Applies only to CCS versions 8.3 or lower. 		
	(Default = Disabled)		
Do not virtualize access to the specified Contained applications can access folders and files on the local system			

Contai	Containment Settings - Table of Parameters				
files/folders	but cannot save any changes to them. However, you can define exceptions to this rule. (<i>Default = Disabled</i>)				
	See exclusions for files/tolders (below this table) to find out how to add exclusions.				
	Note - This setting determines whether or not a contained application can access specific files/folders on your local system. It does not determine whether or not an application should run in the container in the first place. If you wish to exclude applications in their entirety from the container, see 'Configure Rules for Auto-Containment' instead.				
Do not virtualize access to the specified registry keys/values	 Contained applications can access registry keys and values on the local system but cannot save any changes to them. This setting lets you define exceptions to that rule. Contained applications will be able to access and save changes to registry items. Click the 'Exclusions' link to choose registry keys/values which contained files are allowed to modify. (Default = Disabled) 				
	See exclusions for registry keys/values (below this table) to find out how to add exclusions.				
Enable automatic startup for services installed in the Containment	By default, CCS does not permit contained services to run at Windows startup. Select this check-box to allow them to do so on target endpoints. (<i>Default = Disabled</i>)				
Show highlight frame for contained programs	If enabled, CCS will display a green border around programs running in the container on the endpoint. (<i>Default = Disabled</i>)				
Detect programs which require elevated privileges e.g. installers or updates	If enabled, CCS will proactively track programs that require admin privileges to run. An program that is allowed to run with elevated privileges is permitted to make changes to important areas of the endpoint, such as the registry. (<i>Default = Disabled</i>)				
Do not show privilege elevation alerts	If 'Detect' is enabled (see setting above) then an alert is shown to the end-user when a new or unrecognized program requires admin or elevated privileges to run. If you do not want these alerts to be shown, select this option and choose the action to be taken for unrecognized programs:				
	 Do not show privilege elevations alerts Do not show internal Containment served applications Run contained Run unlimited Run unlimited and trust Block 				
	(Default = Disabled)				
Do not show internal Containment services among the contained applications	If enabled, any processes started by CCC/CCS will not be shown in the 'Active Process List' in CCS. You can view contained processes in CCS by clicking: • Tasks' > 'General Tasks' > 'View Active Processes'				



Containment Settings - Table of Parameters			
	 Right-click anywhere in the interface > select 'Show Contained only' (Default = Enabled) 		
Do not report to Endpoint Manager about internal Containment services	If enabled, no information about contained processes started by communication client / CCS will be sent to Endpoint Manager.		
	Click 'Security Sub-Systems' > 'Containment' in EM console to view a history of contained applications and processes.		
	(Default = Enabled)		

To define exclusions for files and folders

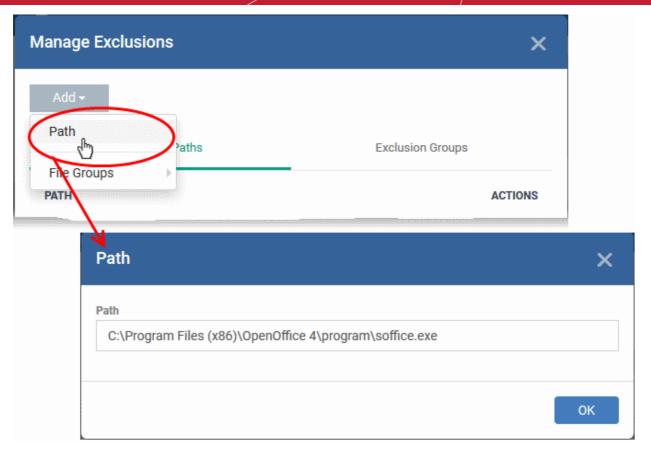
Note. This section explains how to create an exclusion which allows an application in the container to access specific files and folders on the local system. If you want to entirely exclude an application from the container, then please see 'Configure Rules for Auto-Containment' instead.

• Enable the 'Do not virtualize access to the specified files/folders' option then click 'Exclusions'.

Manage Exclusions			×
Add -			
	Exclusion Paths	Exclusion Groups	
PATH			ACTIONS
You can add/ed	it file groups here		ОК

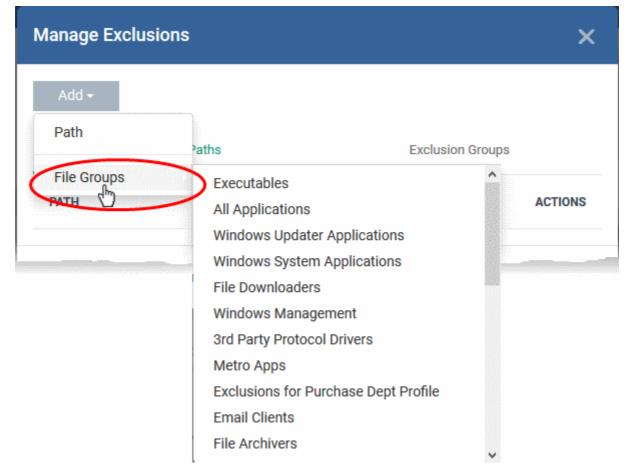
- The 'Manage Exclusions' dialog will appear with a list of defined exclusions under two tabs:
 - Exclusion Paths The individual files that are added to the list, with their installation path
 - **Exclusion Groups** The file groups that are added to the list. A file group is a group of executable files of certain category. Endpoint Manager ships with a set of file groups. You can create custom file groups from the 'Settings' > 'System Templates' > 'File Groups Variables' interface. See **Create** and Manage File Groups for more details.
- To add a file path, choose File Path from the 'Add' Drop-down

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• Enter the storage/installation path of the file to be added to the exclusions list

• To add a File Group to exclusions, choose File Groups from the Add drop-down and choose the File Group.



- Click 'OK' to save your settings.
- You can edit or remove the exclusions using the respective buttons in the 'Action' column in the File/Folders interface.

To define exclusions for specific Registry keys and values

• Click 'Exclusions' beside 'Do not virtualize access to specified registry keys/values'.

Manage Exclusions	×
Add 🗸	
Exclusion Registry Keys	Exclusion Registry Groups
REGISTRY ENTRIES	ACTIONS
You can add/edit registry variables here	ОК

The 'Manage Exclusions' dialog will appear with a list of defined exclusions under two tabs:

- Exclusion Registry Keys The Registry Keys /Values that are added to the list
- Exclusion Registry Groups The Registry Groups that are added to the list. A Registry Group is a collection of Windows registry keys and values of certain category. Endpoint Manager ships with a set of registry groups. You can create custom registry groups from the 'Settings' > 'System Templates' > Registry Variables' interface. See Create and Manage Registry Groups for more details.
- To add a registry key or value, choose 'Registry Entry' from the 'Add' drop-down.

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Manage Exclusions	×	
Add - Registry Entry To stry Keys Registry Groups REGISTRY ENTRIES	Exclusion Registry Groups	
Registry Entry		×
Registry Entry Registry Entry		
		ОК

- Enter the registry key to be added to the list in the File Path dialog an click 'OK'
- To add a pre-defined 'Registry Group' to exclusions, choose 'Registry Groups' from the 'Add' drop-down and choose the Group.

Manage Exclusions		
Add - Registry Entry	stry Keys Excl	usion Registry Groups
	Automatic Startup COMODO Keys Internet Explorer Keys Important Keys	ACTIONS
	Temporary Keys Reg keys of Account Software	

• Click 'OK' to save your settings.

You can edit or remove the exclusions using the respective buttons in the 'Action' column in the Registry Keys / Values interface.

• Click the 'Save' button.



Configure Auto-Containment Rules

- Containment rules determine whether a program should be run virtually in the container, run with restricted privileges, or allowed to run outside the container.
- CCS will show a green border around programs that are running in the container if so configured in containment settings.

To open the rules interface:

- Click 'Configuration Templates' > 'Profiles'
- Open the profile you wish to work on
- Click the 'Containment' tab (click 'Add Profile Section' > 'Containment' if you haven't added it yet)
- Click the 'Rules' tab to view and manage auto-containment rules:

eneral	HIPS Containme	nt		
Con	tainment			😵 Cancel 🖺 Save
Settir	ngs Rules Baseli	ne		
ļ	Add Rule			
	TARGET	REPUTATION	BEHAVIOR	
	All Applications	Unrecognized	Run restricted	ON 🥒 📋
		Malicious	Block	ON 🖉 🛍

- The table lists all rules configured for the profile.
- Rules at the top of the table have a higher priority than those at the bottom. The setting in the rule nearer the top will prevail in the event of a conflict between rules.

Containment Rules - Column Descriptions		
Column Heading	Description	
Target	The files, file groups or locations to which the rule applies.	
Reputation	The trust status of the files to which the rule should apply. The possible values are: 'Any' 'Malicious' 'Trusted' 'Unrecognized'. 	
Behavior	 The action that will be taken on the targets if the rule criteria are met. Possible actions are: Run virtually. File is sandboxed inside a fully virtual environment. Run restricted. File is sandboxed with limited access to device resources. Block. File is not allowed to run at all. Ignore. File is not sandboxed and is allowed to run on the host without restriction. 	



- Use the slider to enable/disable a rule.
- Click the trash icon to remove a rule.
- Click the edit icon to modify a rule.

Target(s) can be filtered by numerous criteria. These are, however, optional, so admins can create a very simple rule to run an application in the container just by specifying the action and the target application.

Example:

Run an application outside the container

- Open the containment tab and click 'Rules'
- Click 'Add Rule'
- Select 'Ignore' in the 'Action' drop-down
- Click 'Edit' in the 'Criteria' section to choose the application(s) you wish to exclude
- Choose the file, folder, file group or hash you want to exclude
- Click 'OK'
- Move the new rule to the top of the rules list (you can drag and drop rules)

To add a new rule

- Open the profile you wish to add the rule to
- Click the 'Containment' tab. Click 'Add Profile Section' > 'Containment' if you haven't added it yet.
- Click the 'Rules' tab

Add Rule

- Click the 'Add Rule' button
- The 'Manage Contained Program' dialog will open:

General	Monitoring	Containment	
Contai	nment		
Settings	Rules	Baseline	
Add	l Rule		
П Т	ARGET		
	lanage Cor	ntained Program	×
A	ction		
	Run virtually		~
	he selected co riteria:	ontainment action will be applied if file properties match the f	following
	Criteria (Options	
			🖋 Edit
	No criteria sele	cted	
		ОК	Cancel

The dialog shows the action at the top and contains two tabs:

- Criteria Define conditions upon which the rule should be applied.
- Options Configure additional actions like logging, memory allowance and execution time restrictions.

Creating a new containment rule involves the following steps:

- Step 1 Choose the action
- Step 2 Select the target file/group and set the filter criteria for the target files
- Step 3 Select the options

Step 1 - Choose the action

• The setting in the 'Action' drop-down and the restriction level in the 'Options' tab determine the privileges of an auto-contained application.

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Manage Contained Program	×
Action	\frown
Run virtually	(~)
Run restricted	\smile
Run virtually	
 Block	10000
Ignore	

The options available in the 'Action' drop-down are:

- **Run Restricted** The application is allowed to access very few operating system resources. The application is not allowed to execute more than 10 processes at a time and is run with very limited access rights. Some applications, like computer games, may not work properly under this setting.
- **Run Virtually** The application will be run in a virtual environment completely isolated from your operating system and files on the rest of your computer.
- Block The application is not allowed to run at all.
- Ignore The application will not be contained and allowed to run with all privileges.

Step 2 - Select the target file/group and set the filter criteria for the target files

- The next step is to select the rule targets and configure filter parameters in the 'Criteria' tab.
- Filters let you target very specific types of file. For example, if you choose 'File Groups' as the type, 'Executables' as the target and add a 'File Origin' filter of 'Internet', then the rule only affects executables downloaded from the internet.
- Another example is if you want to allow unrecognized files created by a specific process to run outside the container:
 - Select 'Ignore' as the 'Action' then click 'Edit' in the 'Criteria' tab.
 - Select 'File Groups' as the type and 'All Applications' as the target
 - · Select 'File created by process(es)' as the filter criteria
 - Click 'Add' and select 'Files' as the type.
 - Browse to the executable you wish to exempt.

To select the target and set filters

• Click the 'Criteria' tab.

The target and the filter criteria, if any, configured for the rule will be displayed.

· To add new target and filter criteria, click the 'Edit' button at the far right



Manage Contained Program			×
Action			
Run virtually			~
The selected containment action will be applied if file prop criteria:	erties m	atch the following	
Criteria Options			
		Edi	t
No criteria selected			-
File Criteria			×
Please select the criteria to be applied			
Туре			
File groups			~
Target			
			~
You can add/edit file groups here			
File Created by applications:	Any	Add 💊	·
File Started by processes:	Any	Add	•
File Created by User(s):	Any	Add	•
File Origin(s):	Any	Add 🚽 🕽	>
File Rating:	Any	Select -	•
File Age:	Any	Select	
		OK Cano	el

The 'File Criteria' dialog will open. The file criteria dialog allows you:

- Select the target
- Configure the filter criteria

Select the target

- Select the type of target item from the 'Type' drop-down. The 'Target' field lets you choose a target application, file group, folder or hash as applicable:
 - Files Add an executable as the target by entering its installation path + file name.
 - File Groups File groups are handy, predefined groupings of one or more file types. For example, selecting 'Executables' would include all files with the extensions .exe .dll .sys .ocx .bat .pif .scr. Other predefined categories include 'Windows System Applications', 'Windows Updater Applications' and 'Start Up Folders'. You can also create custom file groups in 'Settings' > 'System Templates' > 'File Groups Variables'. Refer to 'Creating and Managing File Groups' for more details.
 - Select the predefined or custom file-group from the 'Target' drop-down.
 - Folder Add the contents of a folder as the target.
 - Enter the path to the folder that contains the target files in the 'Target' field.
 - File Hash Add a program as a target by specifying the SHA1 Hash value of the executable file. CCS monitors the files at the endpoint applied with the policy and if the executable file with the same hash value attempts to execute, the rule will be triggered and the program will be autocontained.
 - Enter the SHA1 hash value of the target executable file in the 'Target' field.
 - **Process Hash** Add a program as a target by specifying the SHA1 hash value of the process created by the executable. CCS monitors the files at the endpoint applied with the policy and if a process with the same hash value attempts to execute, the rule will be triggered and the program will be auto-contained as per the rule.
 - Enter the SHA1 hash value of the process created by the target file in the 'Target' field.

Configure the Filter Criteria and File Rating

Filter criteria let you further refine which files are caught by the rule. The available filters are:

- By application that created the file
- By process that created the file
- By user that created the file
- By location from which the file was downloaded
- By file rating
- By file age

By application that created the file

• Click the 'Add' button in the 'File Created by applications' stripe.

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You can add/edit file groups here File Created by applications:	Any Add
Add Process	×
Туре	~
Reputation	
Any	~
	ОК

The 'Action' you specified earlier will be applied to files matching the type and reputation you choose here:

- Type See target types above for more details.
- Reputation Choose the file rating of the source you specified in the 'Type' drop-down.

Add Process	×
Туре	
	~
Reputation	
Any	, Îm
Any	(U)
Trusted	
Unrecognized	
Malicious	

- Click 'OK' to save your settings
- Repeat the process to add more source applications



- To edit the source application items in the list, click the 'Edit' at the right of the item
- To remove an item, click 'Delete' at the right of the item

To select the source process(es) to auto-contain the files started/opened by them

• Click the 'Add' button in the 'File Started by Process(es)' stripe.

File Created by applications:	Any Add >
File Started by processes:	Any Add
Add Process	• ×
Туре	~
Reputation Any	~
	ок

The 'Action' you specified earlier will be applied to files matching the type and reputation you choose here:

- Type See target types above for more details.
- **Reputation** Choose the file rating of the source you specified in the 'Type' drop-down.

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Add Process	×	
Туре		
	~	
Reputation		
Any	Îm	
Any	Ű	
Trusted		
 Unrecognized		
Malicious		

Click 'OK'

The source process type will be added.

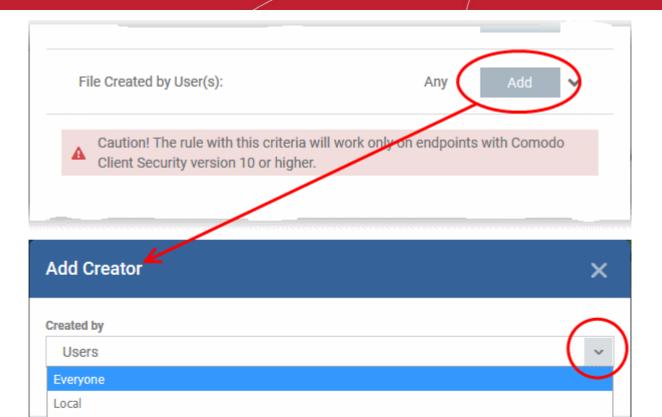
File Started by processes:		1 process	Add 🗸	
ТҮРЕ	TARGET	FILE RATING		
File groups	Browser Plugins	Unrecognized	🖋 Edit 🃋 Delete	
Limit number	of parent processes nur	mber in the process ch	ain to:	
1			× v	

- 'Limit number of parent processes in the process chain to' Specify how far up the process tree should be checked when inspecting the file's sources. 1 = will only check the file's parent process. 2 = will check the parent process and the grand-parent process, etc., etc.
- Repeat the process to add more source processes
- To edit the source process items in the list, click the 'Edit' at the right of the item
- To remove an item, click 'Delete' at the right of the item

To select the user(s) to auto-contain the files created by them

• Click the 'Add' button in the 'File Created by User(s)' stripe.

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• The 'Add Creator' dialog will appear.

Network

Users Guests

Anonymous

Administrators

Power Users

Authenticated Users

· Choose the pre-defined user group from the 'Created by' drop-down

The User Group will be added to the list of creators.

- Repeat the process to add more user groups
- Click 'X' at the right end of the user name to remove a group

To select the sources(s) from which the file was downloaded/copied to the computer

- Click the 'Add' button in the 'File Origin(s)' stripe.
- Choose the source from the options:

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File Created by User(s):		Add >
File Origin(s):	Any	Add • •

- Internet The rule will only apply to files that were downloaded from the internet.
- **Removable Media** The rule will apply only to items copied to the computer from removable storage devices like a USB drive, CD/DVD or portable hard disk drive
- Intranet The rule will only apply to files that were downloaded from the local intranet.
- Repeat the process to add more sources
- To remove a source added by mistake or no longer needed in the list, click 'X' at the right end of the item
- To select the file rating as filter criteria
 - Click the 'Select' button in the 'File Rating' stripe

File Origin(s):	2 origins Ado	i - >
File Rating:	Any Sele	
	Trus	ted
	Unre	cognized
	Mali	cious

- Choose the source from the options:
- Trusted Applications that are signed by trusted vendors and files installed by trusted installers are categorized as Trusted files as configured under File Rating configuration of the profile. Refer to the section explaining File Rating configuration.
- **Unrecognized** Files that are scanned against the Comodo safe files database not found in them are categorized as Unrecognized files.
- Malicious Files are scanned according to a set procedure and categorized as malware.
- Repeat the process to add more file ratings
- To remove a rating added by mistake or no longer needed in the list, click 'X' at the right end of the item

To set the file age as filter criteria

• Click the 'Select' button in the 'File age' stripe.

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File Rating:				Any Sel	ect - >
File Age:				Any Sel	ect
File Age					×
 File creation date: Caution! The rule with this criteria will work only on endpoints with Comodo Client Security version 10 or higher. 					
Before	~	03/12/2018	₩	4:22 PM	0
O File age:					
Less than	~	0		Day(s)	~
				ОК	Cancel

The 'File Age' dialog will appear. You can set the file age in two ways:

- File Creation Date To set a threshold date to include the files created before or after that date, choose this option, choose 'Before'/'After' from the first drop-down and set the threshold date and time in the respective combo-boxes.
- File age To select the files whose age is less than or more than a certain period, choose this
 option and specify the period.
 - Less Than Include files whose age is less than the specified time period. Specify the time period using the two fields.
 - More Than Include files whose age is greater than the specified time period. Specify the time period using the two fields.
- Click 'OK' in the File Criteria dialog after selecting the filters to save your settings to the rule. The list of criteria will be displayed under the Criteria tab in the 'Manage Contained Program' dialog.

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Manage Contained Program	×
Action	
Run virtually	~
The selected containment action will be applied if file properties match the following criteria:	
Criteria Options	
💉 Edit	
File Belongs to (Folder): C:\Program Files\Mischief_Mech*	
File Created by Process(es): Exclusions for Purchase Dept Profile	
File Origin(s): Removable Media	
Reputation: Unrecognized	
OK Cance	el

Step 3 - Select the Options

The next step is to choose optional actions and restrictions to be imposed on items contained by the rule.

To select the options

• Click the 'Options' tab.

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Manage Contained Program		×		
Action				
Run virtually		~		
The selected containment action will be applied if file properties match the following criteria:				
Criteria Options				
Log when this action is performed				
Set restriction level	Partially Limited	~		
Limit maximum memory consumption to (MB)				
Limit program execution time to (sec)				
	OK Cano	el		

The options will be displayed, depending on the 'Action' chosen in Step 1.

The options available for 'Ignore' action are:

- Log when this action is performed Choose whether or not to add the event to the CCS logs at the endpoint, whenever this rule is triggered.
- Don't apply the selected action to child processes Child processes are the processes initiated by the applications, such as launching some unwanted app, third party browsers plugins / toolbars that was not specified in the original setup options and / or EULA. CCS treats all the child processes as individual processes and forces them to run as per the file rating and the Containment rules.
 - By default, this option is not selected and the ignore rule is applied also to the child process of the target application(s).
 - If this option is selected, then the 'Ignore' rule will be applied only for the target application and all the child processes initiated by it will be checked and Containment rules individually applied as per their file rating.

The options available for 'Run Restricted' and 'Run Virtually' actions are:

- Log when this action is performed Choose whether or not to add the event to the CCS logs at the endpoint, whenever this rule is triggered.
- Set Restriction Level When Run Restricted is selected in Action, then this option is automatically selected and cannot be unchecked while for Run Virtually action the option can be checked or unchecked.
- You can select the 'Restriction Level' from the following options:
- **Partially Limited** The application is allowed to access all operating system files and resources like the clipboard. Modification of protected files/registry keys is not allowed. Privileged operations like loading

drivers or debugging other applications are also not allowed.(Default)

- Limited Only selected operating system resources can be accessed by the application. The application is not allowed to execute more than 10 processes at a time and is run without Administrator account privileges.
- Restricted The application is allowed to access very few operating system resources. The application is
 not allowed to execute more than 10 processes at a time and is run with very limited access rights. Some
 applications, like computer games, may not work properly under this setting.
- **Untrusted** The application is not allowed to access any operating system resources. The application is not allowed to execute more than 10 processes at a time and is run with very limited access rights. Some applications that require user interaction may not work properly under this setting.
- Limit maximum memory consumption to Enter the memory consumption value in MB that the process should be allowed.
- Limit program execution time to Choose whether or not you wish to specify an upper limit for the time for which the target application can continuously be run.
 - If selected, enter the maximum time in seconds for which the program can be allowed to run. On lapse of the time, the program will be automatically terminated.

The options available for 'Blocked' action are:

- Log when this action is performed Choose whether or not to add the event to the CCS logs at the endpoint, whenever this rule is triggered.
- Quarantine program If selected, the applications satisfying the rule will be automatically quarantined. See View and Manage Quarantined Items on Windows Devices for more information.

General	Monitoring	Antivirus	Containment			
Contai	inment				S Cancel	🖺 Save
Settings	Rules	Baseline				
Ado	d Rule					
П	ARGET		REPUTATION	BEHAVIOR		
c	::\Program Files\N	/lischief_Mech*	Unrecognized	Run virtually	ON	/ 0

Choose the options and click 'OK' to save them for the rule. The rule will be added and displayed in the list.

- Repeat the process to add more rules
- You can move the rule up or down depending on the priority to be given to it, with respect to the other rules.
- You can edit or remove rules at any time using the options at the right.

Baseline Settings

- The 'Baseline' feature allows you set a period of time during which unknown files will be submitted to Valkyrie for analysis.
- Unknown files will not be auto-contained for the duration of the baseline. This feature is best used during the initial setup period when, typically, many unknown files are discovered.

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Containm	ient			😣 Cancel	🖺 Save
Settings	Rules	Baseline			
This option er files would be	collected ove	er endpoints and	tainment. Information about u submited for Valkyrie analysis Auto-Containment after		
Days 0		lours			

Baseline Settings - Table of Parameters								
Form Element	Description							
Enable Baseline	A baseline is a period of time during which unknown files discovered on your network are sent to Valkyrie, but not run in the container.							
	This can be useful if you want to create a whitelist of existing files on your network.							
	(Default = Disabled)							
Stop Baseline and Enable Auto- Containment after countdown	Enabled - Baselining will last the length of time you set in the fields at the bottom. Auto-containment will resume when this period expires.							
	Disabled - Baselining will continue until you disable it in the setting at the top.							
	The timer begins after you apply the profile to your network.							
	(Default = Disabled)							

• Click 'Save' to apply your changes.

6.1.3.1.7. VirusScope Settings

- 'VirusScope' is a CCS feature which closely monitors the activities of running processes and generates alerts if they take threatening actions.
- The feature uses a system of 'recognizers' to detect malicious behavior and thus identify brand-new malware.
- VirusScope alerts offer the choice to quarantine the process & undo its changes, or let the process go ahead.
- You can choose whether VirusScope should monitor all processes, or only contained processes.

To configure VirusScope settings

- Click 'Configuration Templates' > 'Profiles'
- Click the name of a Windows profile
- Click 'Add Profile Section' > 'VirusScope'

The VirusScope settings screen will open:

eneral Procedures	VirusScope	
VirusScope		😒 Cancel 🖺 Sav
Enable VirusScope		
This option enables VirusSco	oe subsystem which dynamically analyzes th	he behavior of running processes and keeps a record of their activities.
Show popup alerts	pe subsystem which dynamically analyzes th utomatically quarantines detected threats an	he behavior of running processes and keeps a record of their activities.

VirusScope Configuration - Table of Parameters									
Form Element	Description								
Enable Viruscope	Enable or disable Viruscope. If enabled, Viruscope monitors the activities of all running processes and generates alerts on suspicious activities								
Show popup alerts	Configure whether or not alerts are shown to end-users when suspicious activity is detected.								
	 Disabling alerts will minimize disturbances but at some loss of user awareness. If you disable alerts then threats are automatically quarantined and their activities are reversed. 								
Monitor contained applications only	Choose whether VirusScope should track every process on the host, or only processes which are running in the container.								

• Click the 'Save' button.

The VirusScope component will be added to the Windows profile.

General	Procedures	VirusScope		
VirusS	cope			Edit Delete
Enable V Disabled	irusScope			
Show po Disabled	pup alerts			
Monitor Enabled	contained applica	tions only		

The saved 'VirusScope' settings screen will be displayed with options to edit the settings or delete the section. See **Edit Configuration Profiles** for more details.

6.1.3.1.8. Valkyrie Settings

Valkyrie is a cloud-based file verdicting service that tests unknown files with a range of static and behavioral checks in order to identify those that are malicious. Comodo Client Security on managed Windows computers can automatically submit unknown files to Valkyrie for analysis. The results of these tests produce a trust verdict on the file which can be viewed in the 'Valkyrie Processed Files' tab in the 'Windows File List' interface. See Viewi list of

Valkyrie Analyzed Files for more details.

A summary of Valkyries results is all displayed in the **The Dashboard**.

Note: The version of Valkyrie that comes with the free version of Endpoint Manager is limited to the online testing service. The Premium version of Endpoint Manager also includes manual testing of files by Comodo research labs, helping enterprises quickly create definitive whitelists of trusted files. Valkyrie is also available as a standalone service. Contact your Comodo Account manager for further details.

You can configure general Valkyrie settings and create an analysis schedule in the Valkyrie component of a Windows profile.

To configure Valkyrie Settings

· Click 'Valkyrie' from the 'Add Profile Section' drop-down in the Windows Profile interface

The 'Valkyrie' settings screen will be displayed.

eneral	HIPS	Viruscope	Valkyrie	
Valky	rie		X Cancel	Save
🗉 Loo	okup and s	ubmit files wit	n Valkyrie	
Check r	nanual analy	ysis interval (sec	*	
1800)			
Check a	uto analysi:	interval (sec) *		
60				
Submit	for			
Auto	matic Ana	lysis		~
More op	tions are avai	lable with Valkyri	Premium License	
		-	O suspicious activities detected by automatic and/or human-expert analys	lis
🗉 Do	NOT looku	ip and submit	iles to Valkyrie if File Lookup Service returns error	
🔳 Sul	omit metad	lata		
Submit	when			~
Imm	ediately			~

Valkyrie Settings - Table of Parameters								
Form Element	Description							
Lookup and Submit Files with Valkyrie	Choose this option if you want the files to be submitted to the cloud file lookup service							
Check Manual Analysis Interval (sec)*	Set the interval for manual analysis (Default=1800)							
Check Auto Analysis Interval (sec)*	Set the interval for auto analysis (Default=60)							



	Valkyrie Settings - Table of Parameters
Submit for	Choose the type of Valkyrie analysis, e.g, automatic online analysis or manual analysis. The options available depend on your type of subscription.
Enable Auto Auto- Whitelisting if NO suspicious activities detected by Automatic and/or Human-Expert analysis	Choose this option if you wish the files identified as harmless by Valkyrie to be added to your local whitelist.
Do NOT lookup and submit files to Valkyrie if File Lookup Service returns error	Choose this option, if you with files haven't been submitted to the cloud file lookup service if File Lookup Service returns error.
Submit Metadata	Choose this option if you wish the unknown file is to be submitted to Valkyrie, along with their metadata. Metadata gives information about the file source, author, date of creation and so forth.
Submit When	Choose when the unknown files are to be submitted. The options available are:
	Immediately - CCS uploads the file to Valkyrie as soon as it encounters an Unknown file
	Schedule Analysis - CCS accumulates the unknown files and uploads them as per the set schedule. Refer to Valkyrie Analysis Schedule about how to set analysis schedule.

Fields marked * are mandatory.

• The 'Valkyrie Premium License' link takes to Valkyrie signup page for a full subscription.

Valkyrie Analysis Schedule

The Valkyrie allows you to create a schedule for CCS to upload unknown files.

• Select 'Schedule Analysis' from the 'Submit When' drop-down.

Sched	ule yo	ur Val	kyrie a	nalysi	s:			
Eve	ry Mor	nth				~		
Day of	Month							
1	2	3	4	5	6	7	8	
9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	
25	26	27	28	29	30	31		
Time	:	▲	AM					

- To upload the unknown files daily choose 'Daily' from the drop-down at the top and set the time for upload in HH:MM format in the combo boxes under 'Time'.
- To upload the unknown files once per week, choose 'Every Week' from the drop-down at the top. Choose the day of the week from the 'Day of Week' options and set the time for upload in HH:MM format in the combo boxes under 'Time'.
- To upload the unknown files monthly, choose 'Every Month' from the drop-down at the top, choose the day
 of the month from the 'Day of month' options and set the time for upload in HH:MM format in the combo
 boxes under 'Time'.

6.1.3.1.9. Global Proxy Settings

The Global Proxy settings allows you to specify a proxy server through which applications in endpoints using this profile should connect to external network such as the internet. Please note the setting done here will not affect how Comodo Client Security (CCS) and the Communication Client (CC) in the endpoints connect to Endpoint Manager and Comodo servers. The proxy setting for CCS and CC are done in the **Client Proxy** section.

To configure Global Proxy Settings

• Click 'Global Proxy' from the 'Add Profile Section' drop-down in the Windows Profile interface

eneral	HIPS	Viruscope	Global Proxy	
Global	Proxy			
Type * Manu	ual			~
Server *				v
Port *				
0				

Global Proxy Settings - Table of Parameters								
Form Element	Description							
Туре *	Select the type of the proxy. e.g, automatic or manual.							
Pac Url*	This filed will be displayed when 'Auto' is selected in the first field. Enter the URL where your proxy auto-config file is located.							
Server *	This filed will be displayed when 'Manual' is selected in the first field. Enter the address or domain of your proxy server.							
Port *	This filed will be displayed when 'Manual' is selected in the first field. Type the port number of the proxy. If you do not have a set port number, port 8080 will work in many cases.							

* - options are mandatory.

• Click 'Save' in the title bar to save your update settings to the profile.

6.1.3.1.10. Clients Proxy Settings

The 'Clients Proxy' settings allows you to specify a proxy server through which Comodo Client Security (CCS) and the Communication Client (CC) in the endpoints using this profile should connect to Endpoint Manager portal and Comodo servers. If you choose not to set these, then CCS and CC will connect directly as per the network settings.

During **bulk enrollment of endpoints**, make sure the proxy settings in the bulk enrollment form and the client proxy settings in the device group profile that is automatically applied to enrolled endpoints are the same. If the settings vary, then the connection to EM will be lost after first successful connection, since the device group profile will be deployed that has different proxy settings. Also make sure the profiles that are applied to the enrolled devices later on has the same proxy settings. Please note if no proxy settings is provided in the applied profiles then the connection to EM will be lost.

Please note the proxy setting done here will not affect how other applications in the endpoints connect to other networks such as the internet. The proxy setting for applications other than CCS and CC is done in the **Global Proxy** section.

To configure Clients Proxy Settings

Click 'Clients Proxy' from the 'Add Profile Section' drop-down in the Windows Profile interface

eneral	HIPS	Viruscope	Clients Proxy					
Client	s Proxy				[X Cancel	Save	
Server *								
Port *								
0								
Usernan	ne							
Passwor	rd							

Clients Proxy Settings - Table of Parameters			
Form Element	Description		
Server *	Enter the address or domain of your proxy server.		
Port *	Type the port number of the proxy. If you do not have a set port number, port 8080 will work in many cases.		
Username	If required, enter a username for the proxy.		
Password	If required, enter a username for the proxy.		

• Click 'Save' to apply your changes to the profile.

6.1.3.1.11. Agent Discovery Settings

The Agent Discovery Settings allows you to specify whether or not CCS should log antivirus and contained events on the endpoint.

General	Valkyrie	Containment	Agent Discovering Settings	
Agen	t Discoverin	ng Settings		X Cancel Save
🗆 An	tivirus Log			
Co	ntainment Lo	g.		

- Antivirus Log Select this option if antivirus log is to be enabled
- Containment Log Select this option if containment log is to be enabled
- Click 'Save' to apply your changes.



6.1.3.1.12. Communication Client and Comodo Client - Security Application UI Settings

- The UI settings screen lets you configure the appearance of Communication Client (CC) and Comodo Client Security (CCS).
- You can re-brand CC and CCS with your own company name, logo, product name and product logo. In addition, you can:
 - Add your support website, phone number and email to the GUI
 - Select which components of CCS should be visible to end-users in the GUI

To configure UI settings

- Click 'Configuration Templates' > 'Profiles'
- · Click the Windows profile in which you want to configure UI appearance
- Click 'Add Profile Section' > 'UI Settings'

The UI settings screen contains three tabs:

- General Settings Select GUI language and which components/shortcuts are shown in the interface to the end-user.
- Communication Client Rebranding Customize CC with your own brand name, company logo and more.
- Comodo Client Security Rebranding Customize CCS with your own brand name, company logo and more.

General Settings

'General Settings' lets you select interface language and which components/shortcuts are shown on the CCS interface at the endpoint.

Settings		S C	ancel 📳 Sav
General Settings	Communication Client Rebranding	Comodo Client Security	Rebranding
Language			
English (United	States 🗸		
Show message	es from Comodo Message Center		
Show notificat	ion messages		
Show desktop	widget		
Show informat	tion messages when tasks are minin	nized/sent to background	
Play sound wh	en an alert is shown		
Show shared s	space shortcut on the desktop		
Show security	client tray icon		
Show security	client desktop shortcut icon		
Show commun	nication client tray icon		
Show file list			



	General Settings - Table of Parameters
Form Element	Description
Language	The language which should be used in the Comodo Client Security interface. (<i>Default = English (United States)</i>)
Show messages from Comodo Message Center	 Message Center notifications appear as pop-ups at the bottom right-hand corner of the screen. They contain news about updates, offers and other items of interest. Select whether or not the messages should be displayed to end-users (<i>Default = Disabled</i>)
Show notification messages	 Notifications inform end-users about actions and status updates. CCS notices appear in the bottom right hand corner of the screen (just above the tray icons). Select whether or not notifications should be shown to end-users. (<i>Default = Disabled</i>)
Show desktop widget	 The widget contains shortcuts to important CCS tasks and information about security levels, traffic and background tasks. Select whether or not the widget should be shown on endpoint desktops. (<i>Default = Disabled</i>)
Show information messages when tasks are minimized/sent to background	 These messages inform end-users of the effects of minimizing or moving a running task to the background. For example, when a virus scan task is moved to the background. Select whether or not information messages should be displayed to end-users. (<i>Default = Disabled</i>)
Play sound when an alert is shown	If selected, CCS plays a chime whenever it raises a security alert. (<i>Default = Disabled</i>)
Show Shared Space shortcut on the desktop	 'Shared Space' is the special folder on an endpoint where contained applications are allowed to save files. The shared space shortcut provides access to this folder. Select whether or not the shortcut should be shown to end-users. (<i>Default = Disabled</i>)
Show security client tray icon	Select whether or not the CCS icon should be shown in the system tray. (<i>Default = Enabled</i>)
Show security client desktop shortcut icon	Select whether or not the CCS desktop shortcut should be displayed. (<i>Default = Disabled</i>)
Show communication client tray icon	Select whether or not the communication client shortcut icon should be available in the system tray. (<i>Default = Enabled</i>)
Show file list	CCS can show a list of files on a device along with their trust ratings ('Trusted', 'Unrecognized' or 'Malicious'). This is available in 'Advanced Settings' > 'Security Settings' > 'File Rating' > 'File List'. For more details click the link https://help.comodo.com/topic-399-1-790-10397-File- List.html.



	General Settings - Table of Parameters
	Select whether or not the file list should be available to end-users. (<i>Default = Disabled</i>)
Show vendor list	CCS can show a list of list of trusted vendors in 'Advanced Settings' > 'Security Settings' > 'File Rating' > 'Trusted Vendors List'.
	Files published by vendors in the list are automatically trusted and skipped during antivirus scans.
	Select whether or not the vendor list should be available to end-users.
	For more details click the link https://help.comodo.com/topic-399-1-790-10401- Trusted-Vendors-List.html.
	(Default = Disabled)

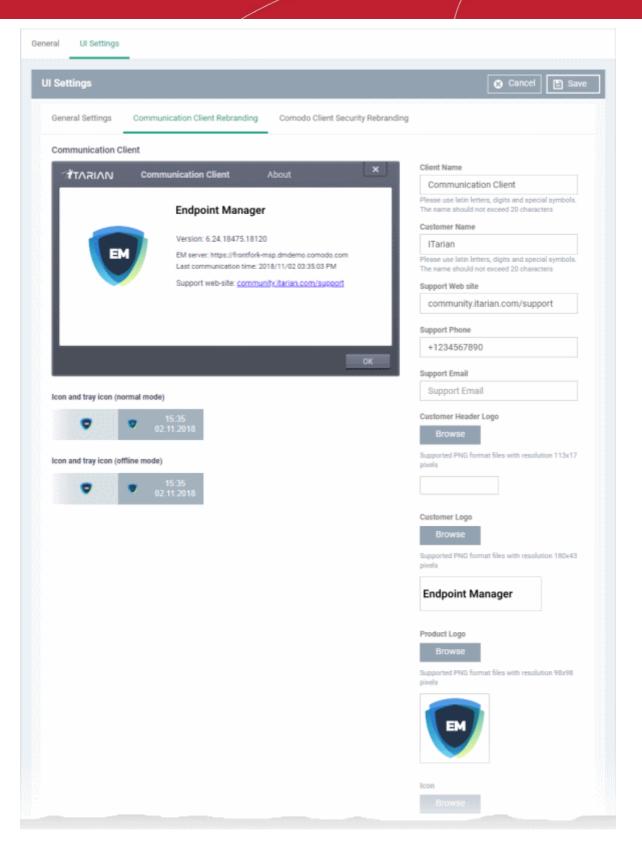
• Click 'Save' to apply your changes to the profile.

Communication Client Rebranding

The rebranding tab lets you change the appearance and interface texts of Communication Client .This is especially useful for customers who wish to white-label the CC interface for their clients.

- You can change the company name, support website, phone number and email.
- You can upload replacement images for company logo, header logo, product icons and product logo.
- The online editor lets you preview your changes in real-time.

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- · Start typing in the fields to see your changes reflected in the example image
- Make sure all images you upload are the correct size and file format (.png).

	Communication Client Rebranding - Table of Parameters
Form Element	Description
Client Name	Enter a custom name for the application. You can use alphabetical, numeral and special characters. Maximum = 20 characters.
Company Name	Your company name.
Support Website	The URL of your support website. The URL will be shown in the 'About' dialog of the CC application.
Support Phone	Your customer support phone number. This number will be shown in the 'About' dialog of the CC application.
Support Email	Your customer support email address. This address will be shown in the 'About' dialog of the CC application.
Company Header Logo	Logo shown at the top-left corner of the application window. Accepted image size = 113 x 17 pixels Accepted image file format = .png
Company Logo	Logo shown at the top of the CC 'About' dialog. Accepted image size = 180 x 43 pixels Accepted image file format = .png
Product Logo	Logo shown at the left of the CC 'About' dialog. Accepted image size = 98 x 98 pixels Accepted image file format = .png
lcon	Windows start menu and shortcut icon. Accepted image sizes = 16 x 16, 20 x 20, 32 x 32, 40 x 40, 48 x 48 and 64 x 64 pixels Accepted image file format = .png
Tray Icon (normal mode)	Tray icon shown when the communication client is connected to Endpoint Manager. Accepted image sizes = 16 x 16 pixels Accepted image file format = .png
Tray Icon (offline mode)	Tray icon shown when the communication client is not connected to Endpoint Manager. Accepted image sizes = 16 x 16 pixels Accepted image file format = .png

• Click 'Save' to apply your new design to the profile.

Comodo Client Security Rebranding

The rebranding tab lets you change the appearance and interface texts of CCS on Windows endpoints. You can change the look and feel of the product throughout the interface.



eral UI Settings				
l Settings				Cancel 🕒 Save
General Settings Communicati	on Client Rebranding Com	odo Client Security Rebranding		
Comodo Client Security				
COMODO Client - See	urity 10			omer Header Logo Browse
🔠 tasks 💮 settings			Supp	orted PNG format files with resolution 122x24
			pixel	обомо
	í			omer Logo Browse
Ľ	J	Scan View Q	uarantine Supp	orted PNG format files with resolution 150x24
Secur	e		\	OGOMO
All systems are active	and running	© I	Prod	luct Logo
		Update Open Tas		Browse
		opulite Open ins	Supp	orred PNG format files with resolution 106 pixels
MANAGE PROTE	CTION	**		
			1	
COMODO About			? ×	
	одом		Widg	get Caption
Client	Security 10			Browse
Product		541 Import Virus Database	Supp pixel:	orted PNG format files with resolution 189x28 s
File Rati Valkyrie:	ng Database Version: 0 Activate	ed Show		СОМОДО
			Icon	
	VirusScope Details	Websites Database: 11753		Browse
All third party trademarks and loog	s are property of their respective of	wners. Any use is for identification only and do	seve	arted are ICO files containing seven 8-bit and n 32-bit depth images with resolutions 16x16, 9, 24x24, 32x32, 40x40, 48x48, 64x64 pixels
suggest sponsorship or endorsem	ent by the trademark owner.		(1014)	14 images)
			ок	C
сомодо	Open	😰 Task Manager 👘		d Name
G Secure 편: 편: D:	Scan with COMODO antivirus Run in COMODO container	COMODO Client - Secu	rity	nt Name OMODO
	Open file location		Pleas The r	se use latin letters, digits and special symbols. name should not exceed 15 characters
	Scan with Windows Defender Open with	-		
	Restore previous versions			

- Start typing in the fields to see your changes reflected in the example images.
- Make sure all images you upload are the correct size and file format (.png)
- The changes you make here will be rolled out to all interfaces in CCS.
- You cannot modify the UI in a default profile.

(Comodo Client Security Rebranding - Table of Parameters				
Form Element	Description				
Company Header Logo	Logo shown at the top-left corner of the application window.				
	Accepted image size = 122 x 24 pixels				
	Accepted image file format = .png				
Company Logo	Logo shown in various CCS interfaces.				
	Accepted image size = 150 x 24 pixels				
	Accepted image file format = .png				
Product Logo	Logo shown on the left side of the CCS 'About' dialog.				
	Accepted image size = 106 x 106 pixels				
	Accepted image file format = .png				
Widget Caption	Logo shown on the header of the CCS desktop widget.				
	Accepted image size = 189 x 28 pixels				
	Accepted image file format = .png				
Icon	Windows start menu and shortcut icon. Also shown in various other interfaces of the application.				
	Accepted image sizes = 16 x 16, 20 x 20, 32 x 32, 40 x 40, 48 x 48 and 64 x 64 pixels				
	Accepted image file format = .png				
Client Name	Enter a custom name for the application. This will be shown in the interface and will be used as the product name in the Windows 'Start' menu.				
	You can use letters, numbers and special characters. Maximum = 20 characters.				

- Click 'Save' to apply your settings to the profile.
- Click the 'Edit' button if you wish to modify a design that you have saved.

6.1.3.1.13. Logging Settings

- This area lets you specify how logs should be collected in CC (Communication Client) and CCS (Comodo Client Security).
- For example, you can choose max. log size, log format and location, and extended log options.

To configure 'Logging' settings

- Click 'Configuration Templates' > 'Profiles'
- Open the Windows profile that you want to configure
- Click 'Add Profile Section' > 'Logging Settings'

The settings screen contains two tabs:

- **Communication Client (CC)** Choose whether a crash dump-file should be created when CC crashes on the endpoint. The dump file can help you to analyze and troubleshoot the issues.
- Comodo Client Security (CCS) Configure CCS log collection parameters, log file storage location and maximum size for the log file.

Communication Client

eneral	Antivirus	HIPS	Logging Settings	
Loggir	ng Settings			😧 Cancel 🖺 Save
Com	munication Cli	ent C	omodo Client - Security	
Cras	sh dumps col e	lection 🕜	•	
Mini			W .	

Logging Settings - Comminucation Client - Table of Parameters				
Form Element	Туре	Description		
Crash dump collection	Checkbox	Endpoint Manager creates a dump file if the communication client crashes on the endpoint. This is useful for analysis and troubleshooting.		
		You can also submit the file to Comodo for our technicians to assess.		
		(Default = Disabled)		
Log Type	Drop-down	Choose the type of dump file you want. The options are:		
		Mini - The file only contains enough data to identify the conditions of the crash.		
		Full - A detailed log of all information related to the crash. Full logs let you analyze the crash in greater detail, but may take longer to generate than mini reports.		

Comodo Client - Security



Logging Settings	😢 Cancel 📔 Save
Communication Client Comodo Client - Security	
Write to local log database (COMODO format)	
Enable extended logging for processes creation	
Enable extended logging for changing status of compo	onents by management agent
Enable extended logging for changing configuration by	y management agent
Enable extended logging for submitting files to CAMAS	S or Valkyrie
* For support cases only. May cause huge disk consumption.	
Write to syslog server	
Host	
Port	
514	
Write to log file (CEF format)	
Path	
🗌 Write to remote server (JSON format) 🚯	
Host	
Port	
Token	
Log file size (MB)	
100	
Action when file log size reaches limit:	
 Keep on updating it removing the oldest 	
rooordo	
records	
Move it to	
O Move it to	

Logging Settings - Comodo Client Security - Table of Parameters	
Form Element	Description
Write to Local Log Database (COMODO Format)	The log is saved in native Comodo format on the local endpoint.
	You can enable extended logging for the following additional items:



	 Process creation events CCS components are enabled/disabled by CC Changes to CCS configuration made by CC Submitting files to CAMAS or Valkyrie 	
Write to Syslog Server	EM log events are written to a remote syslog server. If enabled you have to specify the hostname/IP address and port number settings for the server.	
Host *	The host name or IP address of the syslog server.	
Port *	The port number of the syslog server.	
Write to Log File (CEF Format)	Logs are saved locally on the endpoint in Common Event Format (CEF) file format. If enabled, please specify the location of the CEF file.	
Path	Enter the storage location path of the CEF file.	
Write to remote server (JSON format)	Logs are saved in JavaScript Object Notation (JSON) format on a remote server. If enabled, please specify the hostname/IP address of the server, its connection port and the security token.	
Host *	Enter the host name or IP address of the remote server.	
Port *	Type the port number of the remote sever for EM to connect to.	
Token*	Enter the security token to access the remote server.	
Log file size (MB)	Specify the maximum limit for the size of the log file (Default = 100 MB).	
Action when file log size reaches limit:	Specify behavior when the log file reaches a certain size.	
Keep on updating it removing the oldest records	Once the log file reaches the maximum size, the file will be appended with the new log entries and the oldest entries will be deleted depending on the size of the new entries.	
Move it to	Choose this option if you wish to move and save the log file when it reaches the maximum size.	
The path to the folder for old log files *	If 'Move it to' is enabled, type a destination path for the log file.	
Send anonymous program statistics to Comodo	If enabled, select the types of statistics sent from the following options:	
Crash dumps	CCS sends dump files to Comodo if the application crashes or there is a BSOD (blue screen of death) on the endpoint. This is useful for analysis and troubleshooting.	
Telemetry Reports	Will send to Comodo a daily log about the files you scan with CCS. We use this data to improve EM and CCS.	
	The reports contain the following details:	
	The hash value and path of the file	
	The hash value(s) and path of the parent file that executed the file	

•	Size, certificate information, and attributes of the file
1	

Fields marked * are mandatory.

- Click the 'Save' button to apply your changes.
- Click 'Delete' or 'Edit' to remove / edit the logging settings section. See 'Edit Configuration Profiles' for more details about editing the parameters

6.1.3.1.14. Client Access Control

 Lets you to password-protect access to the communication client (CC) and Comodo Client Security (CCS) on managed endpoints.

Background Note:

The security configuration of the antivirus, firewall, containment and HIPS modules are managed by their configuration profile(s). However, administrators or end-users are allowed to access the CCS interface locally to configure security settings. This is useful if:

- · A custom configuration is required for a specific endpoint
- Administrators can use an endpoint to create a model configuration which can be imported to Endpoint Manager as a profile. See **Import Windows Profiles** for more details.

Endpoint Manager periodically checks endpoints to see if the local CCS settings matches with the endpoint's EM profile. By default, EM will revert any manual changes made. If you want the manual changes not to be overridden, you can configure the 'Client Access Control' section in the profile accordingly.

To configure Client Access Control Settings

- Click 'Configuration Templates' > 'Profiles' then click the name of the profile to which you want to add the section.
- Click 'Add Profile Section' > 'Client Access Control'

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General Antivirus HIPS Client Access Control
Client Access Control
Apply password protection settings for
Comodo Client - Security
Communication Client
Require password
Computer administrator
Custom password
Password
Confirm password
Extra options
Enable local user to override profile configuration This option protects local configurations that are done by entering password

- Apply password protection settings for Select the component(s), CCS and CC to apply password protection.
 - Comodo Client Security If enabled, CCS can be accessed only after providing password.
 - Communication Client If enabled, CC can be accessed only after providing password.
- Require Password If enabled, CCS and CC interfaces can be accessed only after entering password.
 - Computer administrator If selected, CCS and CC can be accessed after entering the computer administrator password.
 - Custom password Select this to configure custom password. Enter the password and confirm it in the respective fields.
- Extra Options:
 - Enable local user to override profile configuration If enabled, the manual changes made to the security setting parameters in the local installation of CCS will not be reverted to the settings as per the profile. This is useful if you want to allow the local user to configure CCS as per their wish or use the endpoint to manually configure the security settings of different components of CCS and import it as a profile. See Import Windows Profiles for more details.
- Click 'Save' to apply your changes to the profile.

6.1.3.1.15. External Devices Control Settings

• Lets you to define a list of devices that should be blocked on endpoints using this profile.

For example, you can block access to USB storage devices, human interface devices, Bluetooth devices, infrared devices, IDE ATA/ATAPI controllers.

- Endpoint Manager blocks access to devices connected through both serial and parallel ports and creates a log of their connection activities.
- You can create exclusions for external devices which you want to allow to connect to managed endpoints. Devices can be added as exclusion by specifying their Device Ids. You can use wildcard characters in the device ID if you want to include a series of devices with similar device IDs.

To configure External Devices Control Settings

 Click 'Configuration Templates' > 'Profiles' then click the name of the profile to which you want to add the section.

General Antivirus HIF	S External Devices Control		
External Devices Contr	ol 😢 Cancel 🔛 Save		
Enable device control This option blocks devices of a cl serial and parallel ports.	ient computer from accessing, such as USB drives, Bluetooth devices, printers, and		
Log detected devices			
Show notifications who	en devices disabled or enabled		
Use this table to manag	Blocked Device Classes Exclusions Use this table to manage the list of device classes (e.g. "USB - Mass storage devices", "Optical devices") to which you want to block access		
Add			
DEVICE CLASS	CLASS ID		
Floppy disks	4D36E980-E325-11CE-BFC1-08002BE10318		
Tape drives	6D807884-7D21-11CF-801C-08002BE10318		
CD/DVD drives	4D36E965-E325-11CE-BFC1-08002BE10318		

- Enable Device Control Enable or disable the external device control feature. This is useful if you want to configure external device control settings for a profile during its creation and enable it at a later time
- Log detected devices Enable or disable logging of external device connection attempts on endpoints that
 use this profile. The logs can be viewed from 'Security Sub Systems' > 'Device Control' interface. See View
 History of External Device Connection Attempts for more details.



• Show notifications when devices disabled or enabled - Select whether or not a notification is to be shown to end-user when a connected device is blocked or allowed.

The 'External Devices Control' settings interface contains two tabs:

- Blocked Device Classes Define the list of types of external devices to be blocked at the endpoints
- Exclusions Specify the devices that should be excluded from blocking and allowed access at the endpoints

Blocked Device Classes

The 'Blocked Device Classes' tab displays a list of types of device that are blocked as per the profile and allows you to add/remove new device types.

	devices disabled or enabled		
	Blocke	ed Device Classes	Exclusions
		nis table to manage t ant to block access	the list of device classes (e.g. "USB - Mass storage devices", "Optical devices") to which
I	Add	ES Delete	
		DEVICE CLASS	CLASS ID
		Portable devices	EEC5AD98-8080-425F-922A-DABF3DE3F69A
		USB storage devices	8A63AD27-0CD7-4F43-B8E1-07AE6F236346
		Smart card readers	50DD5230-BA8A-11D1-BF5D-0000F805F530
	Results	s per page: 20	✓ Displaying 1-3 of 3 results

Blocked Device Classes - Column Descriptions	
Column Header	Description
Device Class	The device type as per global hardware classification
Class ID	The Globally Unique Identifier (GUID) of the device class

Tip. Block 'Portable Devices' in addition to 'USB storage devices' if you want to stop users connecting their phones to access the phone's memory card

To add device types to be blocked

• Click 'Add' at the top of the list

The 'Add Device Class' dialog appears with a list of device types.

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Externa	al Devices Control		😵 Cancel 📳 Save
Enable device control This option blocks devices of a client computer from accessing, such as USB drives, Bluetooth devices, printers, and serial and parallel ports.			
🔳 Log	detected devices		
Show	w notifications when devices disa	bled or enabled	
Block	ed Device Classes Exclusions		
	his table to manage the list of de cal devices") to which you want		lass storage devices",
	dd Eo Delete		
	DEVICE CLASS CLASS	D	
Add D	evice Class		×
	DEVICE CLASS	CLASS ID	
	USB storage devices	8A63AD27-0CD7-4F43-B8E1	-07AE6F236346
	Human interface devices	745A17A0-74D3-11D0-B6FE-00A0C90F57DA	
	Floppy disks	4D36E980-E325-11CE-BFC1-08002BE10318	
	1394 FireWire devices	6BDD1FC1-810F-11D0-BEC7-08002BE2092F	
	IDE ATA/ATAPI controllers	4D36E96A-E325-11CE-BFC1	-08002BE10318
	Disk drives	4D36E967-E325-11CE-BFC1-08002BE10318	
	Storage volumes	71A27CDD-812A-11D0-BEC	7-08002BE2092F
	≪ Prev	1 2	Next »
Result	ts per page: 20 👻	Dis	splaying 1-20 of 21 results
			Ok

- Select the device types to be added to the block list and click 'Ok'.
- Repeat the process to add more device types.



To remove a device type from the list

· Select the device type from the list and click 'Delete'

External Devices Control		Cancel	🖺 Save
Enable device control This option blocks devices of a client computer from accessing, such as USB drives, Bluetooth devices, printers, and serial and parallel ports.			
Log detected devices			
Show notifications when devices	s disabled or enabled		
Blocked Device Classes Exclus	sions		
	Use this table to manage the list of device classes (e.g. "USB - Mass storage devices", "Optical devices") to which you want to block access		
DEVICE CLASS	CLASS ID		
Printing devices	4D36E979-E325-11CE-BFC1-0800)2BE10318	
USB storage devices	8A63AD27-0CD7-4F43-B8E1-07A	E6F236346	
Device Class remove X Do you really want to remove this class(es)?			
		Confirm	Cancel

• Click 'Confirm' to remove the device type from the blocked list.

Exclusions

The 'Exclusions' tab displays a list of external devices that are exempt from the block rule and so allowed access to the endpoint(s).

Blocked Device Classes	Exclusions	
Use this table to manage	the list of devices to which you want to allow access	3
Add		
DEVICE CUSTOM NA	ME	DEVICE ID
Bobs Pen Drive		0506
Results per page: 20	▼	Displaying 1-1 of 1 results

Exclusions - Column Descriptions		
Column Header	Description	
Device Custom Name	Displays the name of the device.	
Device ID	Displays the unique device identifier of the device.	

To add a device to be excluded

Click 'Add' at the top of the list

The 'Add Device Class' dialog will appear with a list of device types.



Sho	w notifications when	devices disabled o	r enabled	
Block	ed Device Classes	Exclusions		
Use t	his table to manage t	he list of devices to	which you want to allow access	
	Add			
þ	DEVICE CUSTOM NAI	ИЕ	DEVICE ID	
	Herald Pen Drive		6&4817b6d&0&3	
Add I	Exclusion			×

Device custom name		
Jevice custom name	 	
evice ID *		
		Add

- Enter a label for the device in the 'Device Custom Name' field (optional)
- Enter the unique device identifier in the 'Device ID' field

Tip: You can use a wildcard character '*' in the Device ID if you want to cover a range of devices with similar IDs. For example, to include all USB storage devices whose device IDs start with "4C5310", you could enter: USBSTOR\DISK&VEN_SANDISK\4C5310*

• Click 'Add'

The device will be added to the exclusions list and will be allowed access at the endpoint(s).

To remove a device from exclusions

• Select the device and click 'Delete'

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	w nouncations wild		or enableu	
Block	ked Device Classes	Exclusions		
Uset	this table to manage	the list of devices	to which you want to allow access	
閆	Add	>		
	DEVICE CUSTOM NA	ME	DEVICE ID	
	Herald Per Drive		6&4817b6d&0&3	
	John Flash Drive		674817bedf063	

Exclusion Remove	×
Do you really want to remove this device id(s)?	
	Confirm Cancel

- · Click 'Confirm' to remove the item from the list
- Click the 'Save' button save the 'External Devices Control' settings.
- Click 'Delete' to remove the 'External Devices Control' section from the profile. See Edit Configuration Profiles for more details about editing the parameters.

6.1.3.1.16. Monitor Settings

- The 'Monitors' settings section lets you add performance and event monitors to a profile.
- A monitor is a script which tracks events on a managed endpoint and takes specific actions if its conditions are met.
 - For example, 'Alert me when a USB removable disk is connected to the system', or 'Create a log entry if CPU usage goes above 75% for a certain length of time'.
- Monitors can also be configured to run a procedure to remediate issues.
- There are two types of monitor:
 - 'Predefined Monitors' A collection of monitors from Comodo which perform a range of useful monitoring tasks. These can be used in custom profiles, but cannot be edited.
 - 'My Monitors' Custom monitors that you create. You can configure custom monitors in the 'Monitors' inventory ('Configuration Templates' > 'Monitors'). See 'Manage Monitors' for more details.
- Monitors added to the inventory can added to a profile. You can add multiple monitors to a single profile.

To configure monitors settings



- Click 'Configuration Templates' > 'Profiles'
- Open the Windows profile you want to configure
- Click 'Add Profile Section' > 'Monitors'

Genera	I Monitors					
Ad 🗐	d Monitor	emove Monito	7			T
	MONITOR NAME	ТҮРЕ	CREATED BY	CREATED ON	LAST MODIFIED BY	UPDATED ON
No resu	ilts found.					

Click 'Add Monitor'

Add Monitor	×
Choose Monitor(s) * Type approved monitor name to search among monitors	
To create new monitors, go to Monitors page.	
	ок
	OK

- Choose Monitor(s) Lets you add monitors to the profile
 - Start typing the first few letters of the monitor name and select the monitor for the options
 - · Repeat the process to add more monitors to the profile
 - See Manage Monitors for help to configure monitors in Endpoint Manager.
- Click 'OK' to save your settings

The list of monitors included in the profile will be displayed:



Gene	ral Monitors					
ËĻ,	Add Monitor	Remove Mor	itor			Ŧ
	MONITOR NAME	TYPE	CREATED BY	CREATED ON	LAST MODIFIED BY	UPDATED ON
	For Finance Dept	Custom	herculespopular22@gmail.com	2018/07/30 03:13:36 PM	herculespopular22@gmail.com	2018/07/30 03:45:01 PM
	CPU1 [Finance D	Custom	herculespopular22@gmail.com	2018/07/17 03:20:37 PM	Never modified	Never modified
	Second Monitor [Custom	herculespopular22@gmail.com	2018/07/11 03:06:20 PM	Never modified	Never modified

Monitors - Column Descriptions				
Column Heading	Description			
Monitor Name	 The monitor label. Click the name of a monitor view and edit it. See View and Edit Monitors for more details. 			
Туре	Whether the monitor is custom or predefined.			
Created by	 The administrator who created the custom monitor. Click the admin name to view their details. See View User Details if you need help with this. 			
Created On	Date and time the monitor was created.			
Last Modified By	The admin who most recently edited the monitor.			
Updated On	Date and time the monitor was last edited.			
	Controls			
Add Monitor	Add a monitor to the profile. See the explanation above for help with this.			
Remove Monitor	Delete monitors from the profile Use the check-boxes to select the monitors you want to remove.			

- Click any column header to sort the items based on alphabetical or ascending/descending order of entries in the respective column.
- Click the funnel button **T** at the right end to open the filter options.

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				5
LAS	Monitor name			K
	Monitor nam	ne		
here	Created by			
	Created by			
	Туре			
v	All			
	Last modified I	by		
	Last modifie	ed by		
	Created on			
	Start		End	Î
	Updated on			
100	Start		End	1

6.1.3.1.17. SCM Certificate Settings

The 'CCM Certificates' settings section of a profile allows you to add requests for client and device authentication certificates to be issued by Sectigo Certificate Manager (SCM).

Note - Sectigo Certificate Manager is the new name for Comodo Certificate Manager. We are in the process of updating the Endpoint Manager UI to reflect this name change. **Click here** if you want to read more about the Comodo CA/Sectigo rebrand.

Once the profile is applied to a device, a certificate request is automatically generated and forwarded to SCM. After issuance, the certificate will be sent to EM which in turn pushes it to the agent on the device for installation. You can add any number of certificates to a single profile. Appropriate certificate requests will be generated on each device to which the profile is applied.

In addition to user authentication, client certificates can be used for email signing and encryption.

Prerequisite: Your SCM account should have been integrated to your EM server in order for EM to forward requests to SCM. For more details, see **Integrate with Sectigo Certificate Manager**.

To configure SCM Certificate settings

- Click 'Configuration Templates' > 'Profiles'
- Open the Windows profile you want to configure

Click 'Add Profile Section' > 'CCM Certificates'

The settings screen for adding certificate requests to the profile appears:

📕 Financ	e Departm	ent Windo	ows Comp	uters			
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default			
General C	CM Certificates						
Add Certifie	cate 🔯 De	elete Certificat	e				Ŧ
NAME	COUNTRY	NAME T	YPE STAT	E OR PROVINCE NAM	IE LOCALITY NAME (EG. CITY)	ORGANIZATION NAME	ORGANIZATIONAL UNIT

· Click 'Add Certificate' at the top to add a certificate request to the profile

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Add Certificate	×
Name *	
Туре	
S/MIME certificate	~
Identifier *	
%u.username% + Va	riables
Country name *	
Albania	~
State or province name	
Locality name (eg. city)	
Organization name	
Organizational unit	
	Add

• Fill-in the details for the certificate request

Add Certificate - Table of Parameters						
Form Element	Туре	Description				
Name	Text Field	Type a label for the certificate.				
Туре	Drop-down	 Select the kind of certificate you want to add. The options are: S/MIME Certificate (Client Certificate) Device Certificate 				
Identifier	Text Field	The 'Identifier' field will be auto-populated with mandatory variables				

	Ad	d Certificate - Table of Parameters				
		 depending on the chosen certificate type. For client certificate, %username% will be added for fetching the username to be included as subject in the certificate request. For device certificate, %d.uuid% will be added for fetching the device name to be included as subject in the certificate request. You can add more variables by clicking the 'Variables' button * Variables and clicking * beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables. 				
Country Name	Text Field	The address details of the user/organization				
State or Province Name						
Locality Name (eg. City)						
Organization Name	Text Field	The customer company to whom the user/device belongs.				
		Prerequisite : The organization should have been added to your SCM account.				
Organizational Unit	Text Field	The department to whom the user/device belongs.				
		Prerequisite : The department should have been defined under the organization in your SCM account.				

- Click 'Add' once you have completed the form.
- Repeat the process to add more certificate requests.

The certificate requests will be generated from the devices once the profile is applied to them.

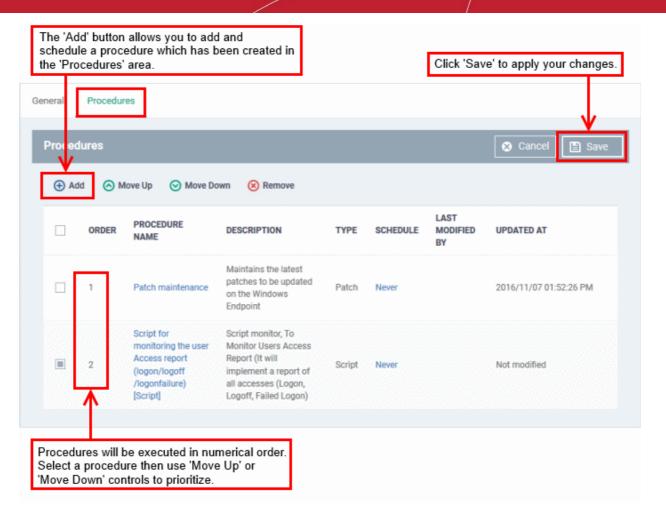
6.1.3.1.18. Procedure Settings

- Endpoint Manager allows you to run scripts and patches as procedures on Windows devices.
- You can also automate procedure deployment by adding them to a profile along with a schedule.
- The 'Procedures' area of a profile lets you add, view, delete and prioritize procedures which have been added to a profile.

To add procedures to a profile

- Click 'Configuration Templates' > 'Profiles'
- Open a Windows profile from the list
- Click 'Add Profile Section' > 'Procedures'

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- Note. Procedures are actually created and configured in the 'Procedures' area ('Configuration Templates' > 'Procedures').
- Related. Manage Procedures contains help about configuring a procedure and adding a procedure to a
 profile:
 - Create a Custom Procedure
 - Combine procedures to build broader procedures
 - Review / Approve / Decline new procedures
 - Add a Procedure to a Profile / Procedure Schedules
 - Import / Export / Clone Procedures
 - Change Alert Settings
 - Directly Apply Procedures to Devices
 - Edit / Delete Procedures
 - View Procedure Results

To add a procedure

• Choose 'Procedures' from the 'Add Profile Section drop down' and click 'Add'.

Add Existing Procedure X Procedure name Web Page Content Monitoring [Script] To create a new procedure please go to Procedures Start date* 2018/03/27 Schedule Never Scheduled time ~ ~ PM 51 12 V V O Run as LocalSystem User Run as Logged in User Run this procedure immediately when the profile is assigned to a new device Skip procedure if the device is offline Add

Add Existing Procedure to a Profile - Form Parameters								
Parameter	Description							
Procedure Name	Choose an existing 'Patch' or 'Script' procedure by typing the first few characters of the procedure name. Make sure you have already approved the procedure.							
	See View and Manage Procedures for help to configure procedures in EM.							
Schedule Options	Create a schedule for the procedure to run periodically on the devices applied with this profile. (optional)							
	 Select the 'Start date' for the procedure by clicking the calendar icon beside 'Start Date' 							
	 Select the period fro the schedule from the 'Schedule' drop-down. The available options are: 							
	Never							
	Daily							

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	 Weekly - If chosen you need to select the days of the week on which the procedure is to be run 						
	 Monthly - If chosen you need to select the dates of a month on which the procedure is to be run 						
	 Set the time at which the procedure is to run on the scheduled days from the 'Scheduled' Time field 						
	• Then select the 'Finish date'. If you select 'End date', from the drop down, then specify the end date for the procedure from the calendar.						
User Account Options	Choose 'Run as system user' or 'Run as logged in user' based on the access rights required for the procedure to run at the endpoint.						
	This applies only to 'Script' procedure						
Execution Options	Run this procedure immediately when the profile is assigned to a new device						
	The procedure will run on target devices as soon as the profile is applied to the device, in addition to any schedule.						
	Skip procedure if the device is offline						
	The procedure will be aborted is the device is not connected to EM at the time of execution.						
	By default, procedures are queued for later deployment if the device is not connected to EM. The task will be executed as soon as it comes online.						
	• Select this option If you do not want the task to be added to the queue.						

- Configure the options and click 'Save'
- Repeat this process to add multiple procedures.

Administrators can add or edit procedure by clicking 'Edit' button present on the top right corner of the profile section tab.

To edit a procedure:

- Click 'Configuration Templates' > 'Profiles'
- Open the Windows profile containing the procedures component to be edited
- Click the 'Procedures' tab
- Click 'Edit' and select the procedure that needs to be modified.

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ral P	Procedures Antiviru	IS				
rocedur	es					Edit
🕂 🕀	🔗 Move Up 🛛 📀 N	Nove Down 🛞 Remove				
ORDER	PROCEDURE NAME	DESCRIPTION	TYPE	SCHEDULE	LAST MODIFIED BY	UPDATED AT
1	Patch maintenance	Maintains the latest patches to be updated on the Windows Endpoint	Patch	Never		2016/11/07 01:52:26 PM
2	Script for monitoring the user Access report (logon/logoff /logonfailure)	Script monitor, To Monitor Users Access Report (It will implement a report of all accesses (Logon, Logoff, Failed Logon)	Script	Never		2017/09/27 05:30:39 PM
3	Web Page Content Monitoring	This Script Monitors the web content if the parameter has met it generates the alert	Script	Weekly		2017/09/27 05:30:39 PM

- Then click either 'Add', 'Move Up', 'Move down', or 'Remove' based on the changes that need to take effect.
 - · Click 'Add' to add another procedure to the existing list
 - Click 'Move Up' to increase the priority of the procedure.
 - Click 'Move Down' to decrease the priority of the procedure.
 - Click 'Remove' to delete the procedure.
- Click 'Save'.

6.1.3.1.19. Remote Control Settings

- 'Remote Control' settings let you choose the protocol and ports used for remote connections.
- You can also configure notifications which are shown to end-users before and during a session.
- See Remote Management of Windows and Mac OS Devices if you need help to set up the remote control service

To configure Remote Control Settings

- Click 'Configuration Templates' > 'Profiles'
- Open the profile that you want to configure (click the profile name to do this)
- Click 'Add Profile Section' and choose 'Remote Control' from the drop-down.
 - If 'Remote Control' is not in the 'Add...' menu then it has already been added to the profile.
- Click the 'Remote Control' tab on the profile file-menu:

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	Procedures	Antivirus	Remote Control	
Remote	Control			Cancel 🖺 Save
Silent	control Option remote contro te control end	ol	t asking permission	
If user in give	en time.	ask for perm		allows or does not respond
If user time.		ask for perm	60 seconds A ission and connect only if t remote control	user approves in given
O Do not	t allow remote	e control	sable remote control	
Remote C	ontrol Messa	ge		
Client Not	to start remot tification Opti notification to terminating th	ons o device user	about who connected to hi	:: ² is/her workstation and
	_		nate the connection	
Protocol (Options			
	t will he annlia			
			orts only, please make sure the UDP settings	e your firewall
configura			the UDP settings	e your firewall
configurat	tions are com	from CCC 6.1	the UDP settings	e your firewall
configurat	tions are com lebRTC A at least 1 por	from CCC 6.	the UDP settings	e your firewall
configuration	tions are com lebRTC A at least 1 por	from CCC 6. from CCC 6. t t 0000 range by	the UDP settings	e your firewall
configuration	tions are com lebRTC A at least 1 por t(s) Defaul	from CCC 6. from CCC 6. t t 0000 range by	<i>the UDP settings</i> <i>default</i> <i>by default</i>	e your firewall
Configuration	tions are com ebRTC A at least 1 por (s) Defaul 0XP : 1025 - 50 07+ : 49152 - 6	from CCC 6. t 000 range by 55535 range b from CCC 6.	<i>the UDP settings</i> <i>default</i> <i>by default</i>	e your firewall
Configuration	tions are completed to the complete to the co	from CCC 6. t 000 range by 55535 range b from CCC 6.	<i>the UDP settings</i> <i>default</i> <i>by default</i>	e your firewall

Remote Control Options:

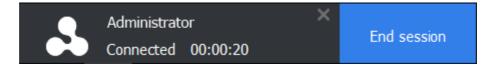
- Silent remote control The remote connection will be established without showing a request to the user.
- Ask permission then allow after NN seconds A message will be shown to the user which requests them to
 accept the connection. The connection will be established if the user does not respond within the timeout
 period.
 - Enter the timeout period (in seconds) in the text box
- Ask permission then deny after NN seconds A message will be shown to the user which requests them to
 accept the connection. The connection attempt will be abandoned if the user does not respond within the
 timeout period.
 - Enter the timeout period (in seconds) in the text box
- Do not allow remote control Disable the ability to take remote control of the endpoint.

Remote Control Message

- Enter the text of the request message. For example, 'Your administrator would like to take control of your desktop. Click 'Allow' to accept the connection request.'
- Please note that you can enter the message only on choosing the second or third notification options from the remote control settings.

Client Notification Options

This area lets you configure the notification box which is shown on the endpoint when a remote session is active:



- Show notification to device user about who... Enable or disable the notification box
 - Allow endpoint user to terminate the connection Choose whether or not the 'End Session' button is shown in the notification box. If enabled, the end-user will be able to close the connection.

Protocol Options

These options let you configure the protocol used for the remote session.

- These settings apply to RC version 6.17 and above.
- You can also specify custom ports to be used by the protocol for an additional layer of safety. This allows
 you to keep only the specified ports open and block other ports for security.

Note: Please make sure you do not assign well-known special ports. We recommend the following port range for custom use: 49152-65535.

- Use WebRTC RC uses WebRTC protocol to connect to the device. This option is mandatory and cannot be deselected.
- Ports Select the port type to be used by WebRTC protocol and specify the ports. The available
 options are:
 - Default WebRTC will use port range 1025 5000 for Windows XP and port range 49152 -65535 for Windows 7 and later versions
 - Custom Allows you to specify a single custom port to be used by WebRTC
 - Custom Range Allows you to specify a port range to be used by WebRTC
- Use Chromoting Chromoting provides a better quality of remote control and experience and is supported only by Windows 7 and later.
 - If selected, RC uses Chromoting to connecting to devices Windows 7 and later and use



WebRTC for Windows XP devices.

- If not selected, RC will use only WebRTC to connect to devices with any Windows version.
- Ports Select the port type to be used by Chromoting protocol and specify the ports. The available
 options are:
 - Default Chromoting will use the port range 49152 65535
 - Custom Range Allows you to specify a port range to be used by Chromoting. Enter a range covering at least 4 ports.
- Click 'Save' to apply your changes to the profile.

6.1.3.1.20. Miscellaneous Settings

- Lets you monitor the registry for changes to auto-run entries, services and scheduled tasks by unrecognized files. You can then specify the action to be taken if a change is detected.
- Applies only to CCS versions 10.7 and higher

To configure 'Miscellaneous' Settings

- Click 'Configuration Templates' > 'Profiles'
- Click the name of a Windows profile
- Click 'Add Profile Section' > 'Miscellaneous'

The 'Miscellaneous' settings screen will open:

eneral	Antivirus	Miscellaneous		
Misce	llaneous			😵 Cancel 🖺 Save
enti When thi modificat detected	ries related to s option is enable tions and the sele	ed action to unrecogniz new/modified registry ed, the registry will be monito ected protective action will be indows services, autostart er	r items: ared for e applied to	
scriedule				
CCS 10. Action	7+			

- Apply the selected action to...' CCS will monitor registry entries related to Windows services, auto-run
 items and scheduled tasks. If any entries are created or modified by unrecognized files/scripts, they will
 handled per the action chosen. (*Default = Enabled*)
- Action Choose the action to be taken on registry entries created/modified by unrecognized files and scripts.



scheduled tasks.	
Action	
Terminate and Disable)
Ignore	1
Terminate	
Terminate and Disable	
Quarantine and Disable	

• Click 'Save' to apply your changes to the profile.

6.1.3.2. Import Windows Profiles

In addition to creating a new Windows profile from the Endpoint Manager interface, you can create new profiles for rolling out to endpoints or endpoint group(s) in the following ways:

- Import the security configuration of CCS from a managed endpoint and save it as a new profile
- Export a profile from EM in .cfg format then import it as a new profile
- Clone an existing profile and edit it to create a new profile

This section explains more about importing CCS configuration from a selected endpoint.

- For more details on **importing configurtion from an exported profile**, see **Export and Import Configuration Profiles**.
- For more details on creating a new profile by using an existing profile as base, see Clone a Profile.

Import CCS Configuration from a Managed Device

By importing the configuration of Comodo Client Security from an existing endpoint, you can create a Windows profile which can be deployed to similar machines on your network.

- Step 1 Export the current configuration from the selected device as an .xml file
- Step 2 Import the .xml file as a profile to required endpoints or endpoint group(s).

Step 1 - Export the current configuration from the selected device as an .xml file

The current security configuration of the CCS installation on the endpoints depends on:

- The configuration profiles applied o the endpoint
- Manual configuration of the parameters at the endpoint.

Note: If you are manually configuring the security parameters, ensure that the option 'Enable local user to override profile configuration' is selected in the 'Client Access Control' section in the profile(s) in action on the endpoint. Otherwise your manual settings will be reverted and the security parameters will be automatically set as per the configuration profile(s) effective on the endpoint during the next polling cycle of the communication client. See **Client Access Control** for more details.

You can export the CCS configuration from a managed Windows device in two ways:

- Export configuration of a selected device from EM interface
- Manually export the CCS configuration from the selected device

Export Configuration from EM interface

- Open the 'Device List' interface from the EM console by clicking 'Devices' > 'Device List' on the left
- · Click the name of the device whose configuration you wish to export to open its 'Device Details'

Click the 'Export Security Configuration' button:

Endpoint Manager	:	Device List / DESKT	<u>DP-TTPO9PR</u> / Summar	y	License Op	otions 🔫	<u>ወ</u> ደ	Logout (herculespopular22@o̯	gmail.com)
DASHBOARD	>								
DEVICES	~	DESKTOP-TTPC Owner: Dyanora)9PR						
Device List			ے در	20	D	Q	0		
Bulk Installation Package		- <u>-</u>						_	
	>	Manage Profiles Remote	e Control Remote Tools	Run Procedure	Install or Update Packages	Refresh Device Information	Reboot	Export Security More Configuration	
CONFIGURATION TEMPLATES	>							\smile	
APPLICATION STORE	>	Device Name Su	mmary Networks	Associate	d Profiles So	ftware Inventory	File List	Exported Configurations	MSI Ins 🕨
APPLICATIONS	>	Device Summa	гу			OS Summar	y		
SECURITY SUB-SYSTEMS	>	Custom device na	me DESKTOP-TT	PO9PR		os		Windows	
SETTINGS	>	Name	DESKTOP-TT	DESKTOP-TTP09PR		OS name		Microsoft Windows 10 Pro (x64)	
		Logged in user	Joe			OS version		10.0.17134	
		AD\LDAP	N/A			Service pack		N/A	
		Domain\Workgro	up CHNTW			Build version		17134	
		Formfactor	PC			Reboot time		2018/10/25 12:30:43 PM	
		Model	VirtualBox			Reboot reasor	1	The process	

- The CCS configuration will be exported as a .xml file and saved in EM.
- You can view all configuration files exported from this device under the 'Exported Configurations' tab in 'Device Details':

DESKTOP-TTPO9PR Owner: Dyanora										
Danage Profiles	C.Remote Control	Remote Tools	F	Install or Update Packages	C Refresh Device Information	Reboot	Export Security Configuration	More		
FILE N	IAME				CREATED					
	onfig_2018_10_26	5_10_58_00.xml		2018/10/26 04:28:00 PM						
	onfig_2018_10_26	5_10_53_33.xml			2018/10/26 04:23:	33 PM				

- Click the name of the file that you want to import as a profile and save it in a safe location.
- Then move on to Step 2 Import the .xml file as a profile to required endpoints or endpoint group(s).

Manually exporting CCS configuration from a selected device

- If you haven't done so already, configure the security settings of CCS at an endpoint to your requirements. Refer to 'Advanced Settings' in the CCS guide if you need help with this - https://help.comodo.com/topic-399-1-790-10272-Introduction-to-Comodo-Client-Security.html
- To export the current configuration as an xml file, the following command locally on the endpoint:

C:\[installation folder of CCS]\cfpconfg.exe --xcfgExport="C:\<filename>.xml" --filter=""

For example, C:\Program Files\COMODO\COMODO Internet Security\cfpconfg.exe --xcfgExport="C:\winconfigprofile.xml" --filter=""

- Copy the .xml file from the endpoint to the computer from which the EM console is accessed.
- Then move on to Step 2 Import the .xml file as a profile for application to required endpoints or endpoint group(s).

Step 2 - Import the .xml file as a profile for application to required endpoints or endpoint group(s)

- Click 'Configuration Templates' > 'Profiles'
- Click 'Import' > 'Import from 'Comodo Client Security Config file'

Endpoint Manager	≡ Profiles	
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
<u>A</u> users >		
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete Profile	
Profiles	Import from Comodo Client - Security Config File	
Alerts	Import from Exported Profile	
Procedures	User Interface herculespopular22@	
Monitors		
Import Windows Profil Name * Name Comodo Client - Security configur Browse		
Description		
Description	1	
	Import	

The 'Import Windows Profile' opens.

- Enter a name and description for the profile.
- Click 'Browse', navigate to the location in your computer where the .xml file is saved, select the file and click 'Open'.

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Import Windows Profile	×
Name *	
from bobs computer	
Comodo Client - Security configuration file *	
Browse ccs_config_2018_10_26_10_58_00.xml	
Description	
Description	
	//
	Import

• Click the 'Import' button.

The Windows Profile interface will open, with the security components pre-configured as per the settings in the configuration file.

from b	obs comp	utor							
	ions comb	uter							
Add Profile Section	Export Profile	Clone Profile	Delete Profile						
eneral Ar	ntivirus Fil	le Rating	Firewall	HIPS	Containment	VirusScope	Valkyrie	UI Settings	
General	Settings							Edit	
Name * from bobs co	mputer								
is default Disabled									
Description									
	Add Profile Section Add Profile Section Add General Name * from bobs co Is default Disabled	The section Add Profile Export Profile Export Profile General Antivirus General Settings Name * from bobs computer Is default Disabled	The section Add Profile Export Profile Clone Profile Export Profile Clone Profile	Add Profile Export Profile Clone Profile Delete Profile Section Antivirus File Rating Firewall General Settings Name * from bobs computer Is default Disabled	Add Profile Export Profile Clone Profile Delete Profile Make I Section File Rating Firewall HIPS General Settings Name * from bobs computer Is default Disabled	Add Profile Section Export Profile Clone Profile Delete Profile Make Default Beneral Antivirus File Rating Firewall HIPS Containment General Settings Name * from bobs computer Is default Disabled	Image: Section Image: Sect	Add Profile Add Profile Section Export Profile Clone Profile Delete Profile Make Default Make Default General Settings Name * from bobs computer Is default Disabled	Add Profile Export Profile Clone Profile Clone Profile Clone Profile Clone Profile Delete Profile Make Default Containment VirusScope Valkyrie Ul Settings Containment VirusScope Valkyrie Ul Settings Ceneral Settings Image: Antional Settings Ceneral Settings Image: Antional Settings

- The imported profile will not be set as 'Default Profile' by default.
- <u>To change the name of the profile and/or to enable it as a default profile, click on the 'Edit' button</u>

at the top right of the 'General' settings screen, edit the settings and click the 'Save' button.

 You can now deploy this profile to endpoints and endpoint groups. You can add new profile components by clicking 'Add Profile Section' and can edit the settings for any security component by clicking the relevant tab. For more details on the options available under each component, see the explanation of the component settings Create Windows Profiles.

6.1.4. Profiles for Mac OS Devices

Mac OS profiles let you specify the general settings and configuration of Comodo Client - Security (CCS) on Mac OS devices.

There are two ways you can add a MAC OS profile:

- Create a brand new profile. See Create Mac OS Profiles for more details.
- Clone an existing profile and modify its settings. See Clone a Profile, for more details.

6.1.4.1. Create a Mac OS Profile

Process in brief:

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' > 'Create Mac OS Profile'
- Type a name and description for your profile then click the 'Create' button. The new profile will appear in 'Configuration Templates' > 'Profiles'.
- New profiles have only one section 'General'. Click 'Add Profile Section' to add settings for various security and management features. Each section you add will appear as a new tab.
- Once configured, you can apply the profile to users, devices and user/device groups.
- Click the 'General' tab then 'Edit' to make it a 'Default' profile.
 - A 'default' profile is one that is applied automatically to any device which matches its operating system. You can have multiple 'default' profiles per operating system.
- This part of the guide explains the processes above in more detail, and includes descriptions of each section.

To create a new profile

• Click 'Configuration Templates' > 'Profiles' > 'Create '> 'Create Mac OS Profile'

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Endpoint Manager	≡ Profiles	ense
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
△ USERS >		
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete Profile	
Profiles	Create Android Profile CREATED BY	
Alerts	Create iOS Profile	
Procedures	Create macOS Profile s in Seles Dept. herculespopular22	
Monitors	Breate Williows Brofile	
Create macOS Profile	Create Linux Profile	
Name *		
Name		
Description		
Description		
	Create	

- Enter a name and description for the profile
- Click the 'Create' button

The new profile will open at the general settings page:

			-	alala		
Ð	Ē.	6 3	Ēò	嘭		
dd Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default		
neral						
General Settings						
	rofile for Stores De me of the profile (sh).			
Is Default Disabled						

- 'Make Default' A 'default' profile is one that is applied automatically to any device which matches its
 operating system. Click this button if you want all MAC OS devices to receive this profile.
- Click 'Save'.

The next step is to add sections to the profile. Each section lets you define settings for a particular security or management feature.

• Click 'Add Profile Section' then select the section you want to add from the list:

🚷 Mac (OS for Stor	es Dept
Add Profile Section	Export Profile	Clone Profile
Antivirus		
Certificate		
Restrictions		
VPN	s	
Wi-Fi		
Remote Cont	rol	
Display name	of the profile (sho	wn on the device

The new section will appear as a tab under the profile name. You can add as many sections as required to a profile.

General Antivirus	
CAVM	Cancel Save
Preferences Antivirus	
General Update Parental Control Logging	
 Automaticaly check for program updates Show baloon messages 	

Following sections explain more about each of the settings:

- Antivirus
- Certificate
- SCM Certificates
- Restrictions
- VPN
- Wi-Fi
- Remote control

6.1.4.1.1. Antivirus Settings for Mac OS Profile

The antivirus section lets you configure real-time monitoring, custom scans, scan schedules, exclusions and more.

Configure antivirus settings in a Mac OS profile

- Click 'Configuration Templates' > 'Profiles'
- Click the name of a Mac OS profile
- Click 'Add Profile Section' then 'Antivirus' (if you haven't yet added the AV section)

OR

• Open the 'Antivirus' tab if it was already added

The antivirus settings screen will open:

Antivirus					
us				Cancel	Save
nces Antivi	irus				
Update	Parental Control	Logging			
		tes			
w baloon mes	sages				
	us Ices Antivi Update omaticaly chec	us nces Antivirus Update Parental Control	us nces Antivirus Update Parental Control Logging omaticaly check for program updates	us nces Antivirus Update Parental Control Logging ormaticaly check for program updates	us Cancel Inces Antivirus Update Parental Control Logging omaticaly check for program updates

It contains two tabs:

- Preferences Configure general behavior, updates, parental control and log settings
- Antivirus Configure settings for all scan types, create custom scan profiles and schedule AV scans.

Configure Preferences for CCS for Mac

The 'Preferences' tab lets you to configure general settings.

Click the following links for more details:

- General
- Update
- Parental Control
- Logging

General

- Automatically check for program updates Choose whether CCS should periodically contact Comodo servers for new product versions and patches. If enabled, CCS checks for updates every 24 hours AND every time users start their computers. If updates are found, they are automatically downloaded and installed. (*Default = Enabled*).
- Show balloon messages If enabled, notifications from CCS will appear in the bottom-right hand corner of the computer screen - just above the tray icons. Balloon messages are usually generated when CCS is learning the activity of previously unknown components of trusted applications. (*Default = Disabled*).

Update Settings

The 'Update' tab lets you specify an alternative host from which endpoints should download updates. By default, updates are downloaded from https://download.comodo.com

Click 'Preferences' > 'Update'

Antivirus		😒 Cancel 📳 Save
Preferences	ntivirus	
General Upd	e Parental Control Logging	
+ Add		
STATUS	URL	
Enabled	http://download.comodo.com/	

You can add the URL of an alternative download host if required. For example, you may want to distribute the updates from a local server to conserve bandwidth.

Antivirus			S Cance	
Preferences Antiv	virus			
General Update	Parental Control	Logging		
+ Add				
STATUS	URL	(1014CCC)114		
N.				
Add Host				×
URL *				
Enable				

To add a host in the local network, click 'Add'

•



The 'Add Host' dialog will appear.

- Enter the URL or IP of the host from which updates should be downloaded in the 'URL' field
- Select the 'Enable' to activate the host
- Click 'Ok' to apply your changes
- Repeat the process to add multiple hosts.
- To edit a host, click the pencil icon S beside the host name in the list

Parental Control Settings

Parental controls let you password protect access to CCS settings. This helps prevent unauthorized personnel from making changes which could compromise the endpoint.

Antivirus Preferences A	ntivirus		🙁 Cancel	Save 📔
		Logging		
General Updat	e Parental Control	Logging		
Enable passwo	ord protection for the s	ettings		
Password				

Click the 'Parental Control' tab under 'Preferences'

• Enable password protection for the settings - Activates password protection for all important CCS settings against unauthorized changes by the user. Users will be asked to provide a password if they attempt to change CCS settings at the endpoint.

Enter the password in the 'Password' field.

Suppress Antivirus alerts if password protection is enabled - If selected, threats on the device are automatically blocked but no alert is shown to the end-user. This avoids the situation where a user might click 'Allow' just to make an alert go away.

Log Settings

Click the 'Logging' tab under 'Preferences'

eneral Antivirus			
Antivirus			😵 Cancel 📳 Save
Preferences Antivi	rus		
General Update	Parental Control	Logging	

By default, CCS maintains a log of all antivirus (AV) events locally in the device. Users can view the logs by clicking 'View Antivirus Events' in the 'Antivirus Tasks' interface.

Write to local log database (COMODO format) - Deselect if you don't want the CCS installation to store logs locally.

Configure Antivirus Settings

The 'Antivirus' tab lets you configure settings for the three types of scan, view/create scan profiles, and to schedule scans.

It contains three sub-tabs:

- Scanner Settings
- Scan Profiles
- Scheduled Scans

Scanner Settings

• Click the 'Scanner Settings' tab under Antivirus

Scanner Settings Scan Profiles Scheduled Scans Realtime Scanning Manual Scanning Exclusions Realtime scanning On access Do not scan files large than (MB) * 20 Keep an alert on the screen for (seconds) * 120	Antivirus				🛞 Cancel	🖺 Save
Realtime Scanning Manual Scanning Exclusions Realtime scanning On access Do not scan files large than (MB) * 20 Keep an alert on the screen for (seconds) *	Preferences Ant	ivirus				
Realtime scanning On access Do not scan files large than (MB) * 20 Keep an alert on the screen for (seconds) * 120	Scanner Settings	Scan Profiles Sc	heduled Scans			
On access ~ Do not scan files large than (MB) * 20 Keep an alert on the screen for (seconds) * 120	Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions		
Do not scan files large than (MB) * 20 Keep an alert on the screen for (seconds) * 120	Realtime scanning					
20 Keep an alert on the screen for (seconds) * 120	On access					~
Keep an alert on the screen for (seconds) * 120	Do not scan files large	than (MB) *				
120	20					
	Keep an alert on the sc	reen for (seconds) *				
Automatically guarantine threats found during scanning	120					
Automatically quarantine threats round during searning	Automatically que to the second se	Jarantine threats foun	d during scanning			
Automatically update virus database						

You can configure the following from the 'Scanner Settings' interface:

- Realtime Scanning
- Manual Scanning
- Scheduled Scanning
- Exclusions

Realtime Scanning

Antivirus				😣 Cancel	💾 Save
Preferences An	tivirus				
Scanner Settings	Scan Profiles Sc	heduled Scans			
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions		
Realtime scanning					
On access					~
Do not scan files large	than (MB) *				
20					
Keep an alert on the s	creen for (seconds) *				
120					
Automatically a	uarantine threats foun	d during coopping			

Rea	Time Scanni	ng Settings - Table of Parameters
Form Element	Туре	Description
Real time scanning	Drop-down	Enable or disable realtime scanning.
		On Access - Any file opened is scanned before it is allowed to run. Threats are detected before they get a chance to execute
		 Disabled - Real-time protection is switched off. Files are allowed to run without first being checked for threats.
Do not scan files larger than (MB)	Text box	Files larger than the size specified here, will not be scanned (<i>Default =20MB</i>).
Keep an alert on the screen for (seconds)	Text box	How long threat notifications should stay on-screen if not dismissed by the end-user. (<i>Default = 120 seconds</i>)
Automatically quarantine threats found during scanning	Checkbox	Threats will be encrypted and moved to a secure holding area where they can cause no harm. You can review quarantined items and delete, ignore or restore them.
		 Disable this option if you do not want threats to be moved to quarantine.
		(Default = Enabled)
Automatically update virus database	Checkbox	CCS will check for and download the latest virus database updates on system start-up, and subsequently at regular



Real Time Scanning Settings - Table of Parameters		
	 intervals. Disable this option if you do not want CCS to automatically check for updates. (<i>Default = Enabled</i>). 	

Manual Scanning

- A manual scan is one you run 'on-demand' on selected files, folder or drives. Manual scans can be launched from 'Security Sub-Systems' > 'Antivirus'.
- For more details on running on-demand scans on selected devices, see Run Antivirus and/or File Rating Scans on Devices.

eneral Antivirus		
Antivirus		Save
Preferences Ant	ivirus	
Scanner Settings	Scan Profiles Scheduled Scans	
Realtime Scanning	Manual Scanning Scheduled Scanning	Exclusions
Do not scan files large	than (MB) *	
20		
Scan archives fi	es (e.g. *.zip, *.rar)	
Automatically quality	uarantine threats found during scanning	
Automatically up	odate virus database before scanning	

Manual Scanning Settings - Table of Parameters				
Form Element	Туре	Description		
Do not scan files large than (MB)	Text box	Files larger than the size specified here, will not be scanned (<i>Default =20MB</i>).		
Scan archive files	Checkbox	 CCS scans archive files such as .ZIP and .RAR files. Disable this option if you don't want archive files to be scanned. (<i>Default = Enabled</i>). 		
Automatically quarantine threats	Checkbox	Threats will be encrypted and moved to a secure holding area		

Manual Scanning Settings - Table of Parameters			
found during scanning		where they can cause no harm. You can review quarantined items and delete, ignore or restore them.	
		 Disable this option if you do not want threats to be moved to quarantine. 	
		(Default = Enabled)	
Automatically update virus database before scanning	Checkbox	 CCS will check for and download the latest virus database updates on system start-up, and subsequently at regular intervals. Disable this option if you do not want CCS to automatically check for updates. 	
		(Default = Enabled).	

Scheduled Scanning

•

- Specify general settings which will apply to all scheduled scans you create
 - Note. You actually create schedules in the 'Scheduled Scans' area. See create a scheduled scan if you need help with this.

Antivirus			🙁 Cancel	💾 Save
Preferences An	tivirus			
Scanner Settings	Scan Profiles Sc	cheduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
Do not scan files large	than (MB) *			
20				
Scan archives fi	les (e.g. *.zip, *.rar)			
Automatically q	uarantine threats four	nd during scanning		
Automatically u	pdate virus database l	before scanning		
Show scanning	progress			

Scheduled Scanning Settings - Table of Parameters			
Form Element	Туре	Description	
Do not scan files large than (MB)	Text box	Files larger than the size specified here will not be scanned.	

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Sch	eduled Scanni	ing Settings - Table of Parameters
		(Default =20MB).
Scan archives files	Checkbox	CCS scans archive files such as .ZIP and .RAR files.
		 Disable this option if you don't want to scan archive files.
		(Default = Enabled).
Automatically quarantine threats found during scanning	Checkbox	Threats will be encrypted and moved to a secure holding area where they can cause no harm. You can review quarantined items and delete, ignore or restore them.
		Disable this option if you do not want threats to be moved to quarantine.
		(Default = Enabled)
Automatically update virus database before scanning	Checkbox	CCS will check for and download the latest virus database updates on system start-up, and subsequently at regular intervals.
		 Disable this option if you do not want CCS to automatically check for updates.
		(Default = Enabled).
Show scanning progress	Checkbox	Enabled - End-users will see a scan progress bar when the scan is running.
		Disable this option if you don't want CCS to show the progress bar.
		(Default = Enabled)

Exclusions

Note. Any item you exclude will be skipped by ALL types of scan - real-time, on-demand and scheduled.

ATUVI	us 😣	Cancel 🕒 Save
Preferer	ices Antivirus	
Scanner	Settings Scan Profiles Scheduled Scans	
Realtim	e Scanning Manual Scanning Scheduled Scanning Exclusions	
+	Add	
	РАТН	
	/Library/Application Support/Comodo/AntiVirus/*	ø

A list of excluded items will be displayed.

To add an item to the 'Exclusions' list

Click 'Add'



General Antivirus	_			
Antivirus			😣 Ca	
Preferences An	tivirus			
Scanner Settings	Scan Profiles Sc	heduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
+ Add				
РАТН				
Add Exclusion	n			×
Path *				
				Ok

- Enter the location of the item to be excluded in the 'Path' field and click 'Ok'
- Repeat the process to add more items
- To edit the path of an item, click the pencil icon 🖋 beside it

Scan Profiles

- Scan profiles instruct CCS to scan selected areas, folders or drives on a the device.
- You can add a scan profile to:
 - A scheduled scan
 - An on-demand scan

To create a scan profile

• Click the 'Scan Profiles' tab under 'Antivirus'

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Antivi	rus			🛞 Cancel	🖺 Save
Prefere	nces An	tivirus			
Scanne	r Settings	Scan Profiles	Scheduled Scans		
+	Add				
	NAME				
	Full Scan				
	Quick Scar	_			

The list of pre-defined scan profiles will be displayed.

Click 'Add'

COMODO Creating Trust Online*

General Antivirus		
Antivirus	😞 Cancel	
Preferences Antivirus		
Scanner Settings Scan Profiles Scheduled Scans		
+ Add		
NAME		
Add Scan Profile		×
Name *		
+ Add		
	C	k

- Enter a name for the scan profile
 - Click 'Add' to add the locations to be scanned as per the custom profile

Add Path	×
Path *	
/volume/Macintosh HD/Applications	
	Ok
• Enter the path of the location to be scanned as per the custom profile and click 'Ok'	

The path will be added to the profile.

•

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COMODO Creating Trust Online*

Add Scan Profile	×
Name *	
Custom Profile for Apps	
+ Add	
/volume/Machintosh HD/Applications	1
	Ok

- To add more paths, click 'Add' and repeat the process
- To edit the path, click the pencil icon 🖉 beside it
- Click 'Ok' in the 'Add Scan Profile' dialog.
- The profile will be added to the list of 'Scan Profiles'.

•

General Antivirus	
Antivirus	😒 Cancel 📳 Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
+ Add • Remove	
NAME	
Full Scan	
Quick Scan	
Custom Profile for Apps	1

The custom profile will be added to the list.



- To add more custom scan profiles, click 'Add' and repeat the process
- To edit a custom scan profile, click the pencil icon S beside it
- To remove a custom scan profile, select it and click 'Remove'.

Scheduled Scans

- The highly customizable scan scheduler lets you timetable scans to be run on managed devices according to your preferences. CCS automatically starts scanning the entire system or the disks or folders contained in the profile selected for that scan.
- You can add any number of scheduled scans for a profile to run at a time that suits your preference. A scheduled scan may contain any scan profile of your choice.

To create a scan schedule

• Click the 'Scheduled Scans' tab under 'Antivirus'

eneral Antivirus	
Antivirus	😒 Cancel 🖺 Save
Preferences Antivirus	
Scanner Settings Scan Profiles Schede	uled Scans
+ Add	
NAME	
Weekly Virus Scanning	1

A list of pre-configured scheduled scans will be displayed.

To add a new scheduled scan

Click 'Add'

Antivirus Preferences Antivirus Scanner Settings Scan Profiles Scheduled Scans Add Scheduled Scan Add Scheduled Scan Add Scheduled Scan Name* Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time O6 : 30 AM	treferences Antivirus tcanner Settings Scan Profiles Scheduled Scans + Add NAME Add Scheduled Scan Name* Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Sunday Time	al Antiviru	IS									
canner Settings Scan Profiles Scheduled Scans	canner Settings Scan Profiles Scan Profiles Add Scheduled Scan Add Scheduled Scan Name* Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tune 06:30 Add	ntivirus							8	Cancel		Save
Add Scheduled Scan	Add Scheduled Scan	eferences	Antivirus									
NAME Add Scheduled Scan Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday	Add Scheduled Scan	anner Settings	Scan	Profiles	Scheduled	Scans						
NAME Add Scheduled Scan Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday	NAME Add Scheduled Scan Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Turesday O6 : 30	+ Add	\ \									
Add Scheduled Scan Name* Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Add Scheduled Scan Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time 06 : 30 AM	ť	·									
Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday	NAME										
Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Name * Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday		Ta ana ana aminina ana aminina ana aminina ana ana ana ana ana ana ana ana an									
Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Daily scan for Apps folder Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time 06 : 30 AM	Add Sch	eduled	Scan							>	<
Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Profile Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Sunday Time 06 : 30 AM	Name *										
Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Custom Profile for Apps Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time 06 30 AM	Daily sc	an for App	s folder								
Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Day of week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time 06 : 30 AM	Profile										
Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time 06 30 AM	Custom	Profile for	r Apps								~
Time	Time 06 : 30 AM	Day of week	L.									
	∧ ∧ 06 : 30 AM	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunda	у			
	06 : 30 AM	Time										
06 : 30 AM		~	^									
				AM								
× ×			*									

Add Scheduled Scan - Table of Parameters								
Form Element Type Description								
Name	Text box	Label for the scheduled scan						
Profile	Drop-down	Choose the pre-defined or custom scan profile to be applied for the scheduled scan. The scan profiles included under the 'Scan Profiles' tab will be available in the drop-down.						
Day of the Week	Buttons	Select the day(s) of the week on which the scan has to run						

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Add Scheduled Scan - Table of Parameters						
	HH:MM drop- down combo boxes	Set the time at which the scans are to run on the selected days.				

Click 'Ok'

The scheduled scan will be added to the list.

General Antivirus	
Antivirus	😒 Cancel 🖺 Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
+ Add Remove	
NAME	
Weekly Virus Scanning	1
Daily scan for Apps folder	1

- To add more scheduled scans to the configuration profile, click 'Add' and repeat the process
- To edit the settings of a scheduled scan, click the pencil icon S beside it
- To remove a scheduled scan, select it and click 'Remove'
- Click 'Save' for your settings to take effect for the profile.

The settings will be saved and displayed under the 'Antivirus' tab. You can edit the settings or remove the section at anytime. See **Edit Configuration Profiles** for more details.

6.1.4.1.2. Certificate Settings for Mac OS Profile

- The 'Certificate Settings' section lets you upload certificates for use in 'Wi-Fi', 'Exchange Active Sync', 'VPN' and other areas of EM.
- You can also enroll user or device certificates from Sectigo Certificate Manager (SCM). You first need to
 activate your SCM account under Settings > Portal Set-Up > Certificates Activation. See Integrate with
 Sectigo Certificate Manager for more details.

Note - Sectigo Certificate Manager is the new name for Comodo Certificate Manager. We are in the process of updating the Endpoint Manager UI to reflect this name change. **Click here** if you want to read more about the Comodo CA/Sectigo rebrand.

Configure certificate settings for Mac OS profile

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- Click 'Configuration Templates' > 'Profiles'
- Open the Mac OS profile you want to configure
- Click 'Add Profile Section' > 'Certificate'

🛞 Mac C)S Profile fo	r Store
Add Profile Section	Export Profile	Clone F
Antivirus		
Certificate	Th.	
CCM Certifica	ites	
Restrictions	s	
VPN		
Wi-Fi	pres De	pt
Display nan	ne of the profile (sh	own on 💱

The 'Certificate' settings screen will be displayed.

Certificate		🙁 Ca	ncel 💾 Save
Name *			
			+ Variables
Description			
Data *			
Select certificate	Browse		
Password			
			+ Variables

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Certificate Settings - Table of Parameters						
Form Element	Туре	Description				
Name	Text Field	Enter the label of the certificate. You can also add variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables .				
Description	Text Field	Enter an appropriate description for the certificate.				
Data	Browse button	Browse and upload the required certificate. Only certificate files with extensions 'pub', 'crt', 'key' or 'p12' can be uploaded.				
Password	Text Field	Enter the password used for exporting a .p12 certificate. You can also add variables by clicking the 'Variables' button * Variables and clicking * beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.				

Click the 'Save' button.

The certificate will be added to the certificate store.

General Certificate	
Add Certificate	
	DESCRIPTION
Wifi auth cert	Not Set

- To add more certificates, click 'Add Certificate' and repeat the process.
- To view the certificate key and edit the name, click on the name of the certificate
- To remove an unwanted certificate, select it and click 'Delete Certificate'

You can add any number of certificates to the profile and remove certificates at anytime. See Edit Configuration **Profiles** for more details.

6.1.4.1.3. SCM Certificate Settings for Mac OS Profile

 The 'CCM Certificates' profile section lets you request client and device authentication certificates from Sectigo Certificate Manager (SCM).

Note - Sectigo Certificate Manager is the new name for Comodo Certificate Manager. We are in the process of updating the Endpoint Manager UI to reflect this name change. **Click here** if you want to read more about the Comodo CA/Sectigo rebrand.

- The certificate request is forwarded to SCM after you apply the profile to a device,
- After issuance, the certificate is sent to EM which in turn pushes it to the device for installation.
- You can add any number of certificates to a single profile. Appropriate certificate requests are generated on each device to which the profile is applied.

In addition to user authentication, client certificates can be used for email signing and encryption.

Prerequisite: Your SCM account should have been integrated with Endpoint Manager. See Integrate with Sectigo Certificate Manager for more details.



Configure SCM Certificate settings

- Click 'Configuration Templates' > 'Profiles'
- Click the name of the Mac OS profile you want to configure
- Click 'Add Profile Section' > 'CCM Certificates'

🚷 Mac (OS Profile f	or Stores	Dept				
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default			
General C	CM Certificates						
Add Certifi	cate 🔯 De	elete Certificat	e				Ţ
NAME	COUNTRY	NAME T	YPE STAT	E OR PROVINCE N	AME LOCALITY NAME (EG. CITY)	ORGANIZATION NAME	ORGANIZATIONAL UNIT

• Click 'Add Certificate' to add a certificate request to the profile:

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Add Certificate	×
Name *	
Туре	
S/MIME certificate	~
Identifier *	
%u.username% + Va	ariables
Country name *	
Albania	~
State or province name	
Locality name (eg. city)	
Organization name	
Organizational unit	
	Add

• Complete the certificate request form:

	Add Certificate - Table of Parameters	
Form Element	Туре	Description
Name	Text Field	Create a label for the certificate
Туре	Drop-down	 Select the kind of certificate you want to add. The options are: S/MIME Certificate (Client Certificate) Device Certificate
Identifier	Text Field	The 'Identifier' field will be auto-populated with mandatory variables

	Ad	d Certificate - Table of Parameters
		 depending on the chosen certificate type. For client certificate, %username% will be added for fetching the username to be included as subject in the certificate request. For device certificate, %d.uuid% will be added for fetching the device name to be included as subject in the certificate request. You can add more variables by clicking the 'Variables' button * Variables and clicking * beside the variable you want to add. For more details on variables, see Create and Manage Custom Variables.
Country Name	Text Field	Address details of the user/organization.
State or Province Name	_	
Locality Name (eg. City)		
Organization Name	Text Field	The customer company to whom the user/device belongs. Prerequisite : The organization should have been added to your SCM account.
Organizational Unit	Text Field	The department to company to whom the user/device belongs. Prerequisite : The department should have been defined under the organization in your SCM account.

- After completing the form, click 'Add' to include the certificate request in the profile.
- Repeat the process to add more certificate requests

Certificate requests will be generated on the devices once the profile is applied to them.

6.1.4.1.4. Restrictions Settings for Mac OS Profile

The 'Restrictions' section allows you to modify the profile to enable or disable selected device features:

To configure Restrictions settings

Click 'Restrictions' from the 'Add Profile Section' drop-down

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🚷 Mac C	S Profile fo	r Stor
Add Profile Section	Export Profile	Clone
Antivirus		
Certificate		
CCM Certifica	ites	
Restrictions	n, S	
VPN	J _	
Wi-Fi	ores De	ept
Display nan	ne of the profile (sh	· · · ·

The 'Restrictions' settings screen will be displayed.

eneral Certificat	Restrictions	
Restrictions		X Cancel Save
Device fun Enable use of device	-	
Allow came	a	OS X 10.11+
Spotlight wi	return Internet search results	Supervised only, OS X 10.11+
iCloud	ud services	
	document sync	OS X 10.11+

	Restri	ctions Settings - Table of Parameters
Form Element	Туре	Description
Device Functionality		
Allow Camera	Checkbox	Allows the user to take photos or videos (if enabled). If left unchecked, the camera icon is removed from the device and camera is disabled. Note: This feature is applicable only for OS X 10.11 and later versions.
Spotlight will return Internet search results	Checkbox	If enabled, the spotlight features will provide suggestions from the Internet, iTunes, and the App Store for the user to quickly find any file, documents, emails, apps contacts and more on the device.

	Restri	ctions Settings - Table of Parameters
		Note: This feature is applicable only for Supervised devices with OS X 10.11 and later versions.
iCloud	1	·
Allow cloud document sync	Checkbox	If enabled, users can synchronize documents on their device with iCloud. Note: This feature is applicable only for OS X 10.11 and later versions.

Click the 'Save' button.

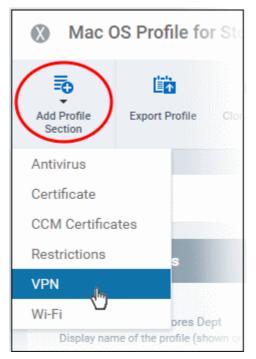
The saved 'Restrictions Settings' screen will be displayed with options to edit the settings or delete the section. See **Edit Configuration Profiles** for more details.

6.1.4.1.5. VPN Settings for Mac OS Profile

The 'VPN' section allows you to configure the VPN connection settings for the profile.

To configure VPN settings

· Click 'VPN' from the 'Add Profile Section' drop-down



The settings screen for VPN will be displayed.

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neral VPN	
VPN	😵 Cancel 🖺 Save
Username	
	+ Variables
Display name of the connection (displayed on the device).	
Connection type *	
L2TP	~
The type of connection enabled by this policy.	
Override primary	
Server *	
	+ Variables
Account	
	+ Variables
User account for authenticating the connection.	
User authentication protocol *	
O Password	
O RSA SecurID Authentication type for connection.	
Password	
- 435HVIU	+ Variables
Password for authenticating the connection.	
Token card	
Authentication EAP plugins	
	+ Variables
Shared secret	
	+ Variables
Proxy	
Choose proxy	✓ Add New

The connection setting parameters are similar to the VPN settings for an iOS profile. See **VPN settings** section for an iOS profile for details.

• Click the 'Save' button after configuring the settings.

The VPN connection will be added to the profile.

Gene	ral Certificate VPN	
Ð	Add VPN Delete VPN	
	NAME	CONNECTION TYPE
	VPN 1	L2TP

You can add several VPN connection accounts to the profile.

- To add another VPN connection, click 'Add VPN' and repeat the process
- To view and edit the settings of a VPN connection, click its name
- To remove VPN connection, select it and click 'Delete VPN'

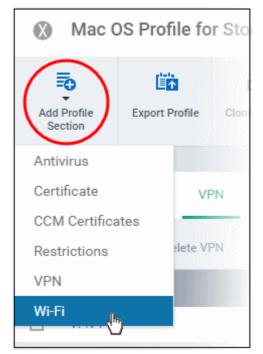
The settings will be saved and displayed under the VPN tab. You can edit the settings or remove the section from the profile at anytime. See **Edit Configuration Profiles** for more details.

6.1.4.1.6. Wi-Fi Settings for Mac OS Profile

The 'Wi-Fi' section allows you to configure Wi-Fi connection settings for the profile.

To configure Wi-Fi settings

Click 'Wi-Fi' from the 'Add Profile Section' drop-down



The 'Wi-Fi' settings screen will be displayed.

General Certificate VPN Wi-Fi Wi-Fi SSID * Identification of the wireless network to connect to In OS X 7.0 and later, this is optional if a DomainName value is provided. Auto join Automatically join the target network Hidden network Enable if the target network is not open or broadcasting. Encryption type None Wireless network encryption to use when connecting. Proxy Choose Proxy Add New Is hotspot Service provider roaming enabled

The connection setting parameters are similar to the Wi-Fi settings for an iOS profile. See the **Wi-Fi settings** section for an iOS profile for details.

• Click the 'Save' button after configuring the settings.

The Wi-Fi network will be added to the list.

General Certificate VPN V	WI-FI
Add Wi-Fi 💼 Delete Wi-Fi	
SSID SSID	ENCRYPTION TYPE
Purchase_Wifi	None

You can add multiple Wi-Fi networks to the profile.

- · To add another Wi-Fi network, click 'Add Wi-Fi' and repeat the process
- · To view and edit the settings of a Wi-Fi network, click on the SSID of it
- To remove a Wi-Fi network, select it and click 'Delete Wi-Fi'

The settings will be saved and displayed under the Wi-Fi tab. You can edit the settings, add or remove Wi-Fi networks or remove the Wi-Fi networks at anytime. See **Edit Configuration Profiles** for more details.

6.1.4.1.7. Remote control Settings for Mac OS Profile

- · 'Remote Control' settings let you configure protocol used during remote control sessions.
- · You can also customize the message which is shown to Mac OS end-users when you make a remote

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connection to their computer.

• See Remote Management of Windows and Mac OS Devices if you need help to setup the remote control service.

To configure Remote Control Settings for MAC OS

- Click 'Configuration Templates' > 'Profiles'
- Select a Mac OS profile that you want to configure
- Click 'Add Profile Section' at the top and choose 'Remote Control' from the drop-down.
 - Note: If 'Remote Control' is not in the 'Add...' menu then it has already been added to the profile.
- The 'Remote Control' tab will open:



eneral	Remote Control		
Remot	te Control	🙁 Cance	Save
Remote	e Control Options		
-	ilent remote control Remote control endpoint without asking permission		
O A	Ask permission then allow after (seconds)		
4	30		
a	f user is logged in: ask for permission and connect if user Illows or does not respond in given time. f user is not logged in: proceed remote control		
O A	ask permission then deny after (seconds)		
0	60		
	f user is logged in: ask for permission and connect only if		
U	iser approves in given time. f user is not loaged in: proceed remote control		
u // O D	iser approves in given time. f user is not logged in: proceed remote control Do not allow remote control Jse this option to completely disable remote control		
u If O D U Remote	f user is not logged in: proceed remote control Do not allow remote control		
Remote Your I deskt	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control e Control Message IT administrator would like to view and control your		
Remote Your I deskt	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control e Control Message IT administrator would like to view and control your top. Please click "Allow" to start remote session.		
Remote Your I deskt	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control e Control Message IT administrator would like to view and control your top. Please click "Allow" to start remote session.		
Remote Your I deskt	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control e Control Message IT administrator would like to view and control your top. Please click "Allow" to start remote session.		
Remote Your I deskt Client N Sho his/ Protoco Ports th	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control e Control Message IT administrator would like to view and control your top. Please click "Allow" to start remote session.		
Remote Your I deskt Client N Show his/ Protoco Ports th your fire settings	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control e Control Message IT administrator would like to view and control your top. Please click "Allow" to start remote session.		
Remote Your I deskt Client N Show his/ Protoco Ports th your fire settings	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control e Control Message IT administrator would like to view and control your top. Please click "Allow" to start remote session. Notification Options we notification to device user about who connected to ther workstation and allow terminating the connection Allow endpoint user to terminate the connection ol Options hat will be applied are UDP ports only, please make sure ewall configurations are compatible with the UDP is		
Remote Your I deskt Client N Sho his/ Sho his/ Protoco Ports th your fire settings	f user is not logged in: proceed remote control Do not allow remote control Use this option to completely disable remote control a Control Message IT administrator would like to view and control your top. Please click "Allow" to start remote session. Notification Options we notification to device user about who connected to ther workstation and allow terminating the connection Allow endpoint user to terminate the connection Allow endpoint user to terminate the connection bl Options hat will be applied are UDP ports only, please make sure ewall configurations are compatible with the UDP s		

Remote Control Options:



- · Silent remote control -The remote connection will start without requesting permission from the user.
- Ask permission then allow after NN seconds:
 - A message will be shown to the user which requests them to accept the connection. The connection will be automatically established if the user does not respond within the specified time.
 - Specify the timeout period (in seconds) in the text box
- Ask permission then deny after NN seconds:
 - A message will be shown to the user which requests them to accept the connection. The connection attempt will be terminated automatically if the user does not respond within the specified time.
 - Specify the timeout period (in seconds) in the text box.
- Do not allow remote control: Disable the ability to take remote control of the endpoint.

Remote Control Message

- Enter the text of the request message. For example, 'Your administrator would like to take control of your desktop. Click 'Allow' to accept the connection request.'
 - Please note that you can enter the message only if you choose the second or third notification options.

0	Silent remote control Remote control endpoint without asking permission
۲	Ask permission then allow after (seconds)
	30
	If user is logged in: ask for permission and connect if user allows or does not respond in given time. If user is not logged in: proceed remote control
0	Ask permission then deny after (seconds)
	60
	If user is logged in: ask for permission and connect only if user approves in given time. If user is not logged in: proceed remote control
0	Do not allow remote control Use this option to completely disable remote control
emo	ote Control Message
	r IT administrator would like to view and control your ktop. Please click "Allow" to start remote session.
lion	Notification Options

Client Notification Options

This area lets you configure the notification box which is shown on the endpoint when a remote session is active:

• Show notification to device user about who connected to his/her workstation and allow terminating the connection - Let the end user know which EM admin/technician is connected to their machine.



 Allow endpoint user to terminate the connection - Choose whether the 'End Session' button should be shown in the notification box or not. If enabled, the end-user will be able to close the connection.

Protocol Options

These settings let you choose the protocol used to connect to Mac OS devices.

- These settings apply to RC version 6.17 and above.
- You can also specify custom ports to be used by the protocol for an additional layer of safety. This allows
 you to keep only the specified ports open and block other ports for security.

Note:Please make sure you do not assign well-known special ports. We recommend the following port range for custom use: 49152-65535.

- Use Chromoting RC uses Chromoting protocol to connect to the device. This option is mandatory and cannot be deselected.
- Ports Select the port type to be used by Chromoting protocol and specify the ports. The available options are:
 - Default Chromoting will use the port range 49152 65535
 - Custom Range Allows you to specify a port range to be used by Chromoting. Enter a range covering at least 4 ports.

Note: Chromoting is supported by Windows 7 and later versions. If RC is installed on a Windows XP admin machine, it will not be able to connect to a Mac OS device.

• Click 'Save' to apply your changes to the profile.

6.1.5. Profiles for Linux Devices

Linux profiles let you configure CCS for Linux endpoints.

There are two ways you can add a new Linux profile to Endpoint Manager:

- Create a new Linux profile. See Create Linux a Profile for more details.
- Clone an existing profile and modify its settings to your requirements. See Clone a Profile, for more details.

6.1.5.1. Create a Linux Profile

Process in brief:

- Click 'Configuration Templates' > 'Profiles'
- Click 'Create' > 'Create Linux Profile'
- Type a name and description for your profile then click the 'Create' button. The profile will now appear in 'Configuration Templates' > 'Profiles'.
- New profiles have only one section 'General'. Click 'Add Profile Section' to add settings for various security and management features. Each section you add will appear as a new tab.
- Once configured, you can apply your profile to devices and device groups.
- You also have the option to make it a 'Default' profile. A 'default' profile is one that is automatically applied to any device which matches its operating system.
- This part of the guide explains the processes above in more detail, and includes descriptions of each profile section.

To create a new profile

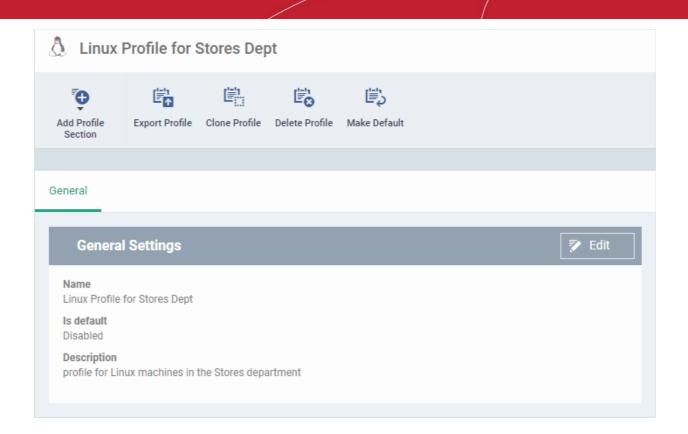
• Click 'Configuration Templates' > 'Profiles' > 'Create' > 'Create Linux Profile'

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Endpoint Manager	■ Profiles	
DASHBOARD >		
DEVICES >	Profiles Default Profiles	
<u>A</u> users >		
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete Profile	
Profiles	Create Android Profile CREATED BY	
Alerts	Create iOS Profile	
Procedures	Create macOS Profile in Sales Dept. herculespopular22@	
Monitors	Create Windows Profile	
-0	Crente Linux Profile	
Create Linux Profile	×	
Name *		
Name		
Description		
Description	1	
	Create	

- Enter a name and description for the profile
- Click the 'Create' button

The profile will open at the 'General Settings' section:



- 'Make Default' A 'default' profile is one that is applied automatically to any device which matches its operating system. Click this button if you want this profile to be applied to every Linux device.
- Click 'Save'.

The next step is to add profile sections.

- Each profile section contains a range of settings for a specific security or management feature.
- For example, there are profile sections for 'Antivirus', 'Logging', 'UI' and so on.
- · You can add as many different sections as you want when building your profile.
- To get started:
 - Click 'Add Profile Section'
 - Select the section that you want to add to the profile:

👌 Linux F	Profile for	Stores Dep	ot			
Add Profile Section	Export Profile	Clone Profile	E Delete Profile	Make Default		
Antivirus	Ja					
Updates	0					
UI Settings						
Logging Settin	ngs					
Client Access	Control					

This will open the settings screen of the component:

ntivirus			Edit	Dele
Scanner Settings	Scan Profiles So	heduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
Not supported on Debi	an 8.x			
Realtime scanning On access				
Realtime scanning				
Realtime scanning On access Do not scan files large	than (MB)			
Realtime scanning On access Do not scan files large 20 Keep an alert on the s	than (MB) creen for (seconds)			

Click the following links to find out more about each section:

- Antivirus
- Updates
- UI Settings
- Logging Settings
- Client Access Control

6.1.5.1.1. Antivirus Settings for Linux Profile

The antivirus section lets you configure real-time monitoring, custom scans, scan schedules, exclusions and more.

Configure antivirus settings in a Linux profile

- Click 'Configuration Templates' > 'Profiles'
- Click on the name of a Linux profile
- Click 'Add Profile Section' then 'Antivirus' (if you haven't yet added the AV section)

OR

• Open the 'Antivirus' tab and click 'Edit' if it was already added

The antivirus settings screen will open:

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ntivirus			🙁 Cancel	🖺 Save
Scanner Settings	Scan Profiles Scl	heduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
Not supported on Debi	an 8.x			
Not supported on Debi Realtime scanning	an 8.x			
	an 8.x			~
Realtime scanning				

It contains three tabs:

- Scanner Settings Configure real-time scans, manual scans, scheduled scans and exclusions.
- Scan Profiles Create antivirus scan profiles that define specific folders, drives or areas to scan. Once saved, you can apply a scan profile to scheduled scans.
- Scheduled Scans Timetable scans to be run on managed devices according to a selected scan profile.

Configure Scanner Settings for CCS for Linux

The 'Scanner Settings' area contains four sub-tabs:

- Realtime Scanning Set parameters for the 'always-on' virus monitor
- Manual Scanning Set parameters for on-demand scans
- Scheduled Scanning Set parameters for scheduled scans
- Exclusions View and manage items which will be skipped by virus scans.

Realtime Scanning

• Click the 'Realtime Scanning' sub-tab under 'Scanner Settings'

Please note: The real-time virus scanner is not supported on Debian. The settings in this screen do not apply to Debian devices.

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ntivirus			🙁 Cancel	🖺 Save
Scanner Settings	Scan Profiles Sch	neduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
Not supported on Debi Realtime scanning	an 8.x			
On access				~
Do not scan files large 20 Keep an alert on the s				
120				
Automatically u	pdate virus database			
Automatically q	uarantine threats found	d during scanning		
Show notific	ation messages			
Enable heuristic	,			
 Enable heuristic Heuristics scanning le 				

Real	Time Scanni	ng Settings - Table of Parameters
Form Element	Туре	Description
Real time scanning	Drop-down	 Enable or disable the background virus monitor. On Access - Files are scanned before they are allowed to run. Threats are detected before they get a chance to execute (<i>Default</i>) Disabled - Real-time protection is switched off. Files are allowed to run without first being checked for threats.
Do not scan files larger than (MB)	Text box	Maximum file size that the antivirus should attempt to scan. Files larger than the size specified here are not scanned. (Default = 20 MB).
Keep an alert on the screen for (seconds)	Text box	How long threat notifications should stay on-screen if not dismissed by the end-user. (<i>Default = 120 seconds</i>)
Automatically update virus database	Checkbox	CCS will check for and download the latest virus database updates on system start-up, and subsequently at regular



Rea	l Time Scanni	ng Settings - Table of Parameters
		intervals.
		 Disable this option if you do not want CCS to automatically check for updates.
		(Default = Enabled).
Automatically quarantine threats found during scanning	Checkbox	Threats will be encrypted and moved to a secure holding area where they can cause no harm. You can review quarantined items and delete, ignore or restore them.
		 Disable this option if you do not want threats to be moved to quarantine.
		(Default = Enabled)
Show notification messages	Checkbox	Choose whether or not a notification is to be shown to the end- user, whenever CCS identifies a threat and moves it to quarantine.
		(Default = Disabled)
Enable heuristic scanning	Checkbox	Enable or disable heuristics scanning and define the scan level.
		The scan level determines how likely the scanner is to classify an unknown file as a threat.
		 Low - Lowest sensitivity to detecting unknown threats / generates fewest false positives. The 'low' setting combines an extremely high level of security and protection with a low rate of false positives. Comodo recommends this setting for most users. (<i>Default</i>)
		 Medium - Detects unknown threats with greater sensitivity than the 'Low' setting but with a corresponding rise in the possibility of false positives.
		High- Highest sensitivity to detecting unknown threats / increased possibility of false positives.
		(Default = Enabled with 'Low ' option)
		Background Note : Background. Heuristics identify previously unknown malware by checking whether it contains code typical of a virus. If it is found to do so then the application deletes the file or recommends it for quarantine.
		Heuristics is about detecting 'virus-like' attributes rather than looking for a virus signature which exactly matches a signature on the blacklist. This allows the engine to detect new viruses even if they are not in the current database.

Manual Scanning

- Click the 'Manual Scanning' sub-tab under 'Scanner Settings'
- The options you set here will apply to manual scans on the endpoints on which the profile is active.
- A manual scan is one you run 'on-demand' on selected files, folder or drives. Manual scans can be launched from 'Security Sub-Systems' > 'Antivirus'.
- For more details on running on-demand scans on selected devices, see Run Antivirus and/or File Rating

Scans on Devices.

ntivirus		😒 Cancel 🖺 Save
Scanner Settings	Scan Profiles Scheduled Scans	
Realtime Scanning	Manual Scanning Scheduled Scanning	Exclusions
Do not scan files large	e than (MB) *	
Do not scan files large	e than (MB) *	
20	e than (MB) * iles (e.g. *.zip, *.rar)	
20		
20	iles (e.g. *.zip, *.rar) Ipdate virus database before scanning	

Ма	nual Scannin	g Settings - Table of Parameters
Form Element	Туре	Description
Do not scan files large than (MB)	Text box	Maximum file size that the antivirus should attempt to scan. Files larger than the size specified here are not scanned. (Default = 20 MB).
Scan archive files	Checkbox	CCS scans archive files such as .ZIP and .RAR files.
		• Disable this option if you don't want archive files to be scanned.
		(Default = Enabled).
Automatically update virus database before scanning	Checkbox	 CCS will check for and download the latest virus database before starting an on-demand scan Disable this option if you do not want CCS to automatically check for updates.
		(Default = Enabled).
Enable cloud scanning	Checkbox	CCS detects the very latest viruses more accurately because the local scan is augmented with a real-time look-up of Comodo's online signature database. This makes it possible to detect zero-day malware even if your local virus database is outdated. (<i>Default = Disabled</i>).
Enable heuristic scanning	Checkbox	Enable or disable heuristics scanning and define the scan level.

Manual Scanning	Settings - Table of Parameters
	The scan level determines how likely the scanner is to classify an unknown file as a threat.
	 Low - Lowest sensitivity to detecting unknown threats / generates fewest false positives. The 'low' setting combines an extremely high level of security and protection with a low rate of false positives. Comodo recommends this setting for most users. (<i>Default</i>)
	 Medium - Detects unknown threats with greater sensitivity than the 'Low' setting but with a corresponding rise in the possibility of false positives.
	High- Highest sensitivity to detecting unknown threats / increased possibility of false positives.
	(Default = Enabled with 'Low ' option)
	Background Note : Background. Heuristics identify previously unknown malware by checking whether it contains code typical of a virus. If it is found to do so then the application deletes the file or recommends it for quarantine.
	Heuristics is about detecting 'virus-like' attributes rather than looking for a virus signature which exactly matches a signature on the blacklist. This allows the engine to detect new viruses even if they are not in the current database.

Scheduled Scanning

- Click the 'Scheduled Scanning' sub-tab under 'Scanner Settings'
- The options you set will apply to scheduled scans created for the profile. See Create and Manage Scheduled Scans for the Profile if you need help with this.

ntivirus			🙁 Cancel	📳 Sa
Scanner Settings	Scan Profiles Scl	heduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
Do not scan files large	e than (MB) *			
Scan archives f	iles (e.g. *.zip, *.rar)			
Automatically q	uarantine threats foun	d during scanning		
Automatically u	pdate virus database b	efore scanning		
Show scanning	progress			
	anning			
Enable cloud so	anning			

Sch	eduled Scanni	ng Settings - Table of Parameters
Form Element	Туре	Description
Do not scan files large than (MB)	Text box	Maximum file size that the antivirus should attempt to scan. Files larger than the size specified here are not scanned. (Default = 20 MB).
Scan archives files	Checkbox	CCS scans archive files such as .ZIP and .RAR files.
		 Disable this option if you don't want to scan archive files.
		(Default = Enabled).
Automatically quarantine threats found during scanning	Checkbox	Threats identified by scheduled scans will be encrypted and moved to a secure holding area where they can cause no harm. You can review quarantined items and delete, ignore or restore them.
		Disable this option if you do not want threats to be moved to quarantine.
		(Default = Enabled)
Automatically update virus database before scanning	Checkbox	CCS will check for and download the latest virus database updates on system start-up, and subsequently at regular intervals.
		Disable this option if you do not want CCS to

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S	Scheduled Scanni	ng Settings - Table of Parameters
		automatically check for updates.
		(Default = Enabled).
Show scanning progress	Checkbox	End-users will see a scan progress bar when the scan is running.
		 Disable this option if you don't want CCS to show the progress bar.
		(Default = Enabled)
Enable cloud scanning	Checkbox	CCS detects the very latest viruses more accurately because the local scan is augmented with a real-time look-up of Comodo's online signature database. This makes it possible to detect zero-day malware even if your local virus database is outdated. (<i>Default = Disabled</i>).
Enable heuristic scanning	Checkbox	Enable or disable heuristics scanning and define the scan level.
		The scan level determines how likely the scanner is to classify an unknown file as a threat.
		 Low - Lowest sensitivity to detecting unknown threats / generates fewest false positives. The 'low' setting combines an extremely high level of security and protection with a low rate of false positives. Comodo recommends this setting for most users. (<i>Default</i>)
		 Medium - Detects unknown threats with greater sensitivity than the 'Low' setting but with a corresponding rise in the possibility of false positives.
		High- Highest sensitivity to detecting unknown threats / increased possibility of false positives.
		(Default = Enabled with 'Low ' option)
		Background Note : Background. Heuristics identify previously unknown malware by checking whether it contains code typical of a virus. If it is found to do so then the application deletes the file or recommends it for quarantine.
		Heuristics is about detecting 'virus-like' attributes rather than looking for a virus signature which exactly matches a signature on the blacklist. This allows the engine to detect new viruses even if they are not in the current database.

Exclusions

- Click the 'Exclusions' sub-tab under 'Scanner Settings'
- You can add files to be ignored by CCS during virus scans.
- Note. Any item you exclude will be skipped by ALL types of scan real-time, on-demand and scheduled.

ntivirus			S Cancel	Save
Scanner Settings	Scan Profiles Sc	heduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
+ Add				
PATH				
/opt/COMOD(2/#			

A list of excluded items will be displayed.

To add an item to the 'Exclusions' list

Click 'Add'

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General Antivirus				
Antivirus			🙁 Cancel	Save
Scanner Settings	Scan Profiles Sci	heduled Scans		
Realtime Scanning	Manual Scanning	Scheduled Scanning	Exclusions	
+ Add				
🗌 РАТН				
Add Exclusion				×
Path *				
				Ok

- Enter the location of the item to be excluded in the 'Path' field and click 'Ok'
- Repeat the process to add more items
- To edit the path of an item, click the pencil icon 🖋 beside it

Create and Manage Scan Profiles for the Profile

•

- Click the 'Scan Profiles' tab under 'Antivirus'
- Scan profiles instruct CCS to scan selected areas, folders or drives on a the device.
- The scan profiles you create here will be available when you configure a scheduled scan.

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Intivi	rus			😵 Cancel	🖺 Save
Scan	ner Settings	Scan Profiles	Scheduled Scans		
+	Add				
	NAME				
	My Computer				
	Critical Areas				

The list of pre-defined scan profiles will be displayed.

To add a new scan profile

Click 'Add'

General Antivir	rus			
Antivirus			🗙 Cancel	Save
Scanner Settin + Add NAME)	Scheduled Scans		
Add Scar	n Profile			×
Name *				

- Enter a name for the scan profile
- · Click 'Add' to specify the locations to be scanned as per the custom profile

^
Ok

• Enter the path of the location to be scanned as per the custom profile and click 'Ok' The path will be added to the profile.

Ok

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Add Scan Profile	×
Name *	
Custom profile for Weekly Scan	
+ Add	
PATH	
/home/user/Downloads	ø
	Ok

- To add more paths, click 'Add Path' and repeat the process
- To edit the path, click the pencil icon Seside it
- Click 'Ok' in the 'Add Scan Profile' dialog.
- The profile will be added to the list of 'Scan Profiles'.

General Antivirus	
Antivirus	🗙 Cancel 🖺 Save
Scanner Settings Scan Profiles Scheduled Scans	
+ Add Remove	
My Computer	
Critical Areas	
Custom profile for Weekly Scan	1

The custom profile will be added to the list.

- To add more custom scan profiles, click 'Add' and repeat the process
- To edit a custom scan profile, click the pencil icon Seside it
- To remove a custom scan profile, select it and click 'Remove'

Create and Manage Scheduled Scans for the Profile

- Click the 'Scheduled Scans' tab under 'Antivirus'
- The highly customizable scan scheduler lets you timetable scans to be run on managed devices according to your preferences. CCS automatically starts scanning the entire system or the disks or folders contained in the scan profile selected for that scan.
- You can add any number of scheduled scans for a profile to run at a time that suits your preference. A scheduled scan may contain any scan profile of your choice.

General A	Antivirus				
Antivirus				🙁 Cancel	Save
Scanner	Settings	Scan Profiles	Scheduled Scans		
+ Add	d				
	NAME				
	Weekly Virus	Scanning			0

A list of pre-configured scheduled scans will be displayed.

To add a new scheduled scan

Click 'Add'

General Antivirus 😣 Cancel Antivirus 📳 Save Scanner Settings Scan Profiles Scheduled Scans ٠ Add NAME Add Scheduled Scan × Name * Weekly Scan for Downloads Folder Profile Custom profile for Weekly Scan Day of week Friday Monday Tuesday Wednesday Thursday Time А ᠕ 00 PM 06 : ~ ~ Ok

Add Scheduled Scan - Table of Parameters				
Form Element	Туре	Description		
Name	Text box	Label for the scheduled scan		
Profile	Drop-down	Choose the pre-defined or custom scan profile to be applied for the scheduled scan. The scan profiles included under the 'Scan Profiles' tab will be available in the drop-down.		
Day of the Week	Buttons	Select the day(s) of the week on which the scan has to run		
Time	HH:MM drop- down combo boxes	Set the time at which the scans are to run on the selected days.		

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Click 'Ok'

The scheduled scan will be added to the list.

eneral Antivirus	
Antivirus	🗙 Cancel 📔 Save
Scanner Settings Scan Profiles Scheduled Scans	
+ Add Remove	
NAME	
Weekly Virus Scanning	1
Weekly Scan for Downloads Folder	1

- To add more scheduled scans to the configuration profile, click 'Add' and repeat the process
- To edit the settings of a scheduled scan, click the pencil icon S beside it
- To remove a scheduled scan, select it and click 'Remove'
- Click 'Save' on the top right for your settings to take effect for the profile.

The settings will be saved and displayed under the 'Antivirus' tab. You can edit the settings or remove the section at anytime. See **Edit Configuration Profiles** for more details.

6.1.5.1.2. Communication Client and Comodo Client - Security Application Update Settings for Linux Profile

This section lets you enable or disable automatic updates and specify an alternate host from which endpoints should collect updates. By default, updates are downloaded from https://download.comodo.com.

Configure updates settings in a Linux profile

- Click 'Configuration Templates' > 'Profiles'
- Click on the name of a Linux profile
- Click 'Add Profile Section' then 'Updates' (if you haven't yet added the 'Updates' section)

OR

• Open the 'Updates' tab and click 'Edit' if it was already added

The 'Updates' settings screen will open:

👌 Linux I	👌 Linux Profile for Stores Dept					
Add Profile Section	Export Profile	Clone Profile	Delete Profile	لي الله Make Default		
General A	ntivirus Up	odates				
Updates					😵 Cancel	Save
+ Add						
STA	rus	URL				
Enab	bled	http://downlo	ad.comodo.com	m/		1

 Use the checkbox beside 'Enabled' to enable or disable downloading updates from the URL specified beside it.

You can add the URL of an alternative download host if required. For example, you may want to distribute the updates from a local server to conserve bandwidth.

To add a host in the local network

Click 'Add'

General Antivirus	Updates	
Updates + Add		Cancel Save
STATUS	URL http://download.comodo.com/	
Add Host		×
URL *		
Enable		
		Ok

- Enter the URL or IP of the host from which updates should be downloaded in the 'URL' field
- Select the 'Enable' to activate the host
- Click 'Ok' to apply your changes
- Repeat the process to add multiple hosts.
- To edit a host, click the pencil icon 🔗 beside the host name in the list
- · Click 'Save' for your settings to take effect in the profile

6.1.5.1.3. User Interface Settings for Linux Profile

The 'UI Settings' section lets you choose the interface language for the CCS application on the endpoint.

Configure Language Settings in a Linux Profile

- Click 'Configuration Templates' > 'Profiles'
- Click on the name of a Linux profile
- Click 'Add Profile Section' then 'UI Settings' (if you haven't yet added the 'UI Settings' section)

OR

• Open the 'UI Settings' tab and click 'Edit' if it was already added

The 'UI Settings' screen will open:

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👌 Linux I	👃 Linux Profile for Stores Dept							
Add Profile Section	Export Profile	Clone Profile	Delete Profile	لن الله الله الله الله الله الله الله ال				
General A	General Antivirus UI Settings							
	_							
Ui Settings Save								
Language								
English(U	English(United States) - Default							

Select the language which should be used in the Comodo Client Security interface from the Language dropdown. (*Default = English (United States)*)

	English(United States) - Default		-
	Arabic - By Community	6	
	Brasil - By Community Bulgarian - By Community		
	Chinese Simplified - By COMODO		
	Chinese Traditional - By COMODO		
	Croatian - By Community		
	Czech - By Community		
	Dutch - By Community		
	Estonian - By Community		
	French - By Community		
	Germany - By Community		
0.0	Greek - By Community Hungarian - By Community		
Ge	Itanian - By Community		
	Polish - By Community		
	Russian - By COMODO		
	Serbian - By Community		
	Slovak - By Community		
	Spanish - By Community		-
	English(United States) - Default	(~
)

• Click 'Save' to apply your changes to the profile.

6.1.5.1.4. Logging Settings for Linux Profile

- The 'Logging' area lets you specify how logs should be collected in CCS
- For example, you can choose max. log size, log format and location, and extended log options.

Configure 'Logging' Settings in a Linux Profile



- Click 'Configuration Templates' > 'Profiles'
- Click on the name of a Linux profile
- Click 'Add Profile Section' then 'Logging Settings' (if you haven't yet added the 'Logging' section)

OR

• Open the 'Logging' tab and click 'Edit' if it was already added

The 'Logging' settings screen will open:

👌 Linux Prof	file for Stores De	pt			
₽		Ē	Ē,		
Add Profile Expo Section	ort Profile Clone Profile	Delete Profile	Make Default		
General Antiviru	us Logging				
Logging				😣 Cancel	Save
	il log database (COM log Server (CEF forma				
Port					
514					
Write to Log Path	File (CEF format)				
Log file size (MB)					
100					
Action when file lo Keep on upd Move it to th	lating and remove the	oldest one			

Logging Settings - Form Parameters					
Parameters	Description				
Write to Local Log Database (COMODO Format)	The log is saved in native Comodo format on the local endpoint.				
Write to Syslog Server	Endpoint Manager log events are written to a remote syslog server. If enabled you have to specify the hostname/IP address and port number settings for the server.				
Host *	The host name or IP address of the syslog server.				
Port *	The port number of the syslog server.				
Write to Log File (CEF Format)	Logs are saved locally on the endpoint in Common Event Format (CEF) file format. If enabled, please specify the location of the CEF file.				
Path	Enter the location of the CEF file.				
Log file size (MB)	Specify the maximum size of the log file (default = 100 MB).				
Action when file log size reaches limit:	Specify behavior when the log file reaches the max. size.				
Keep on updating it removing the oldest records	Once the log file reaches the maximum size, the file will be appended with the new log entries and the oldest entries will be deleted.				
Move it to	Move and save the log file when it reaches the maximum size.				
The path to the folder for old log files *	If 'Move it to' is enabled, type a destination path for the log file.				

Fields marked * are mandatory.

• Click the 'Save' button to apply your changes.

6.1.5.1.5. Clients Access Control Settings for Linux Profile

This area lets you password-protect access to Comodo Client Security (CCS) and the communication client (CC) on managed endpoints.

Configure 'Clients Access Control' Settings for a Linux Profile

- Click 'Configuration Templates' > 'Profiles'
- Click on the name of a Linux profile
- Click 'Add Profile Section' then 'Client Access Control' (if you haven't yet added the section)

OR

• Open the 'Client Access Control' tab and click 'Edit' if it was already added

The 'Client Access Control' settings screen will open:

👌 Linux I	Profile for S	tores Dep	ot		
Add Profile Section	Export Profile	Clone Profile	Delete Profile	じた Make Default	
General A	ntivirus Clie	ent Access co	ontrol		
Clients ac	cess control				🙁 Cancel 🖺 Save
Enable Passwore	password prote d	ection for the	e settings		
Confirm	password				
Suppres	ss Antivirus ale	rts if passwo	ord protectior	n is enabled	

- Enable password protection for the settings Activates password protection for all important CCS settings against unauthorized changes by the user. Users will be asked to provide a password if they attempt to change CCS settings at the endpoint.
 - Enter the password in the 'Password' field and re-enter it in the 'Confirm password' field.
- **Suppress Antivirus alerts if password protection is enabled** If selected, threats on the device are automatically blocked but no alert is shown to the end-user. This avoids the situation where a user might click 'Allow' just to make an alert go away.

6.2. View and Manage Profiles

- Click 'Configuration Templates' > 'Profiles' to open this interface
- The 'Profiles' screen shows all available configuration profiles for Android, iOS, Mac OS, Windows and Linux devices.
- · You can create, deploy, import/export, and clone profiles from this interface.

Endpoint Manager	≡ Profiles	License Opti	ons 🔁 👰	요 Logout (hercules	popular22@gmail.com)
DASHBOARD >					
DEVICES >	Profiles	Default Profiles			
<u>A</u> users >	E1	t 🛱	Ë. E.	ι μ	
CONFIGURATION TEMPLATES	Create	Import Export Profile	Clone Profile Delete Pro	file Export	T
Profiles	OS	NAME	CREATED BY	CREATED -	UPDATED AT
Alerts					
Procedures		User Interface	herculespopular22@	2018/11/02 03:28:	2018/11/02 03:28:57
Monitors					
APPLICATION STORE		Flying Squad	herculespopular22@	2018/10/31 12:03:	2018/10/31 12:03:20
APPLICATIONS >		For Herald	herculespopular22@	2018/10/31 12:02:	2018/10/31 12:02:26
SECURITY SUB-SYSTEMS		Samsung Phones	herculespopular22@	2018/10/29 01:56:	2018/10/29 01:56:35
SETTINGS >		File Rating Scan	herculespopular22@	2018/10/26 02:01:	2018/10/26 02:03:16

The interface has two tabs:

- Profiles A list of all profiles added to Endpoint Manager.
- Default Profiles A default profile is one that is automatically applied to any device that matches its operating system. See Manage Default Profiles for more details.



		The 'Profiles' interface
Co	lumn	Description
OS		The operating system that the profile supports.
Name		 Label of the profile. Click the profile name to open the profile settings and configuration interface. See Edit Configuration Profiles for more details.
Created by		 The administrator who created the profile. Click the name of an administrator to view their user details. See View the details of the User for more details.
Created		The date and time at which the profile was created.
Updated at		The date and time at which the profile was last updated.
		Controls
Create	Create Android profile	Add a new Android profile. See 'Profiles for Android Devices' for more details.
	Create iOS profile	Add a new iOS profile. See 'Profiles for iOS Devices' for more details.
	Create Mac OS profile	Add a new Mac OS profile. See 'Profiles for Mac OS Devices' for more details.
	Create Windows profile	Add a new Windows profile. See 'Create Windows Profiles' for more details.
	Create Linux profile	Add a new Linux profile. See 'Profiles for Linux Devices' for more details.
Import	Import from Comodo Client Security Config file	Import the security configuration of CCS from a .cfg configuration file as a Windows profile. The configuration file will usually have been exported from a managed endpoint with CCS installed. See 'Import Windows Profiles' for more details.
	Import from Exported Profile	Import a configuration profile from a previously exported and saved profile. See Export and Import Configuration Profiles for more details.
Clone Profile		Create a new profile by cloning an existing profile and modifying its settings as required. See Clone a Profile for more details.
Export profile		Export the selected configuration as a .cfg file and save it for future implementation. See Export and Import Configuration Profiles for more details.
		The control will appear only if a single profile is selected from the list.
Delete profi	le	Remove selected profile(s). The control will appear only if one or more profiles are selected.
Export		Save the list of profiles as a comma separated values (CSV) file. See Export the List of Profiles for more details.



Sorting, Search and Filter Options

- Click any column header to sort items in ascending/descending order
- Click the funnel icon to filter profiles by various criteria:

 iOS Windows macOS Linux Name Created by Created From To 	
2018 iOS 2018 macOS Linux Name Created by Created From To	
2018	
Linux Name Created by Created From To	
Created by Created From To	
Created From To	
From	
То	
Updated at	
From	reneral kine normed be en

Export the List of Profiles

- Click 'Configuration Templates' > 'Profiles'
- Click the 'Export' button above the table then choose 'Export to CSV':

Profile	es	Default Profiles				
Create		*	Profile Delete Profile Export)		Ŧ
	OS	NAME	CREATED BY	to CSV	UPDATED AT	
		Finance Department Wind	herculespopular22@gmail.c	2018/07/17 11:13:49 AM	2018/07/17 11:13:49 AM	
		Suspicious Files Folder for	herculespopular22@gmail.c	2018/07/10 03:21:23 PM	2018/07/12 09:32:11 AM	
		Monitoring Important Data	herculespopular22@gmail.c	2018/07/10 01:08:26 PM	2018/07/10 01:09:00 PM	
		Patch Procedure	herculespopular22@gmail.c	2018/07/10 11:59:48 AM	2018/07/10 11:59:48 AM	

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

6.2.1. Export and Import Configuration Profiles

You can export and import profiles for re-deployment to other devices and groups.

Note: 'Monitor Settings', 'CCM Certificate Settings' and 'Procedure Settings' will be excluded from exported profiles. You will need to reconfigure these sections before deploying if they are required in a new profile.

To export a profile

- Click 'Configuration Templates' > 'Profiles'
- Select the 'Profiles' tab.
- Select the profile you want to export and click the 'Export profile' button:

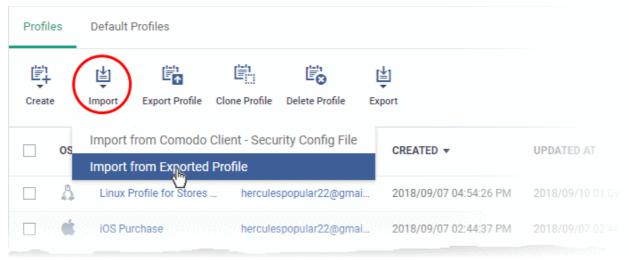
Profile	s Default Profiles			
Create	Import	Clone Profile Delete Profile Export		
	OS NAME	CREATED BY	CREATED 👻	UPDATES
	Finance Department Wir	id herculespopular22@gmail.c	2018/07/17 11:13:49 AM	
	Suspicious File: Folder f	or herculespopular22@gmail.c	2018/07/10 03:21:23 PM	
	Export Profile Information	ation	×	
	If Profile contains Monitorin exported without these sect Do you really want to export		s section - Profile will be	
			Cancel Confirm	

You will see a prompt stating that monitoring, CCM certificate and procedures sections will be omitted from exported profiles.

- Click 'Confirm' to export the profiles to .cfg file
- Exported files can be imported back into Endpoint Manager as a profile at any time.

To import a profile from a saved .cfg file

• Open the 'Profiles' interface by clicking 'Configuration Template' from the left and choosing 'Profiles' from the options.



- Click 'Import' > 'Import from Exported Profile'.
- Navigate to the location in your computer where the .cfg file is stored, select the file and click 'Open'.
- The 'Profile' interface will open, with the prefix [Imported] in the file name and security components pre-

configu	ired as per th	e source pro	file.			
🗭 [impor	ted] For Im	pala tab				
Add Profile Section	Export Profile	Clone Profile	Delete Profile	🖹		
General Ar	ntivirus Setting	S				
General	Settings					7 Edit
Name * [imported] Fo Display name o	r Impala tab of the profile (show	wn on the device).			
Is default Disabled						
	nd phones and t on of the contents			aff		

The profile details interface of the imported profile will be displayed. The imported profile will not be enabled as a 'Default Profile' by default.

- To change the name of the profile and/or to enable it as a default profile, click the 'Edit' button
 - at the top right of the 'General' settings screen.
 - Click 'Add Profile Section' to add a new component
 - Click the name of an existing component name to view and edit its settings
 - For more details on the options available under each component, see the following sections for more details:
 - Profiles for Android Devices
 - Profiles for iOS Devices
 - Profiles for Mac OS Devices
 - Profiles for Windows Devices.
 - Profiles for Linux Devices

6.2.2. Clone a Profile

- · Cloning then modifying a profile is an easy way to set up a new profile with custom settings.
- You can edit the cloned profile according to the requirements of your target devices or group.

To clone a profile

•

- Click 'Configuration Templates' > 'Profiles'
- Select the 'Profiles' tab.
- Click on the name of the profile you want to clone.
- Click 'Clone Profile' in the profile details page

Alternatively, select the profile in the 'Profiles' interface and click 'Clone Profile' at the top. • Profiles **Default Profiles** Ē1 鶣 Ë, Ë, Ľ (*****1 Export Profile Clone Profile Delete Profile Create Export Import **0**S NAME CREATED BY CREATED -Finance Department herculespopular22@gmail.c... 2018/07/17 11:13:49 AM Vind. 20 M der for **Clone Windows Profile** × Name * [cloned] Finance Department Windows Computers Description Description Clone

The name of the new profile is the same as the source profile with the prefix [cloned].

- Enter a new name for the profile (if required) and a short description
- Click 'Clone'.

The new profile has identical settings to the source profile at this stage. To configure the profile:

- Click 'Configuration Templates' > 'Profiles'
- Click on the name of the cloned profile
 - · Click 'Add Profile Section' to configure settings that were not included in the original
 - Click a section name then 'Edit' to change existing settings. Each existing section is shown as a tab underneath the profile name
- For more details on the options available under each component, see the following sections for more details:
 - Profiles for Android Devices
 - Profiles for iOS Devices
 - Profiles for Mac OS Devices
 - Profiles for Windows Devices.
 - Profiles for Linux Devices

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Endpoint Manager - Administrator Guide

6.3. Edit Configuration Profiles

- · You can edit an existing configuration profile to modify settings as required.
- For example, you might want to enable or disable certain security components or add a procedure to the profile.
- The updated profile is automatically deployed to endpoints after you save.

To edit a profile

- Click 'Configuration Templates' > 'Profiles'
- Select the 'Profiles' tab
- · Click on the name of the profile that you want edit.
- This will open the profile details screen:

Profiles	Default Profiles							
Create I	Import Export	Profile Clone P		Profile Exp				Ŧ
OS OS	NAME		CREATED BY	,	CRE	EATED 🔻	UPDATED	AT
	Finance Repart	ment Wind	herculespop	ular22@gmail.o	201	8/07/17 11:13:49 AN	1 2018/07/	17 03:40:32 PM
	Suspicious File	s Folder for	herculespop	ular22@gmail.o	201	8/07/10 03:21:23 PN	A 2018/07/	12 09:32:11 AM
Finan	nce Departm	nent Windo	ws Comp	uters				
Add Profile Section	Export Profile	Clone Profile	E Profile	لي المحالي Make Default				
General	Monitoring	Antivirus	File Rating	Firewall	HIPS	Containment	VirusScope	Valkyrie
Genera	al Settings							📝 Edit
Name Finance Dep	partment Window	s Computers						
is default Disabled								
Description Profile for W	Vindows devices i	n Finance dept						

The tabs let you configure various Endpoint Manager modules. Click 'Add Profile Section' if you want to add a new module.

- Click the tab of the section you want to edit. For example, 'General', 'Monitoring', 'Antivirus', 'Firewall'.
- Some tabs let you directly edit the parameters. In others, you will need to click the 'Edit' button:





- See the following sections for in-depth help on the settings in a profile:
 - Profiles for Android Devices
 - Profiles for iOS Devices
 - Profiles for Mac OS Devices
 - Profiles for Windows Devices.
 - Profiles for Linux Devices
- Click 'Save' for your changes to take effect

.

Click the 'Delete Profile' button if you want to entirely remove a profile. The profile will be automatically uninstalled from devices on which it is active.

6.4. Manage Default Profiles

- 'Default' profiles are automatically assigned to new devices which match their operating system IF no user / user-group profile exists for the OS.
 - Default profiles are only applied if no user or user-group profile exists for the operating system.
 - If you remove all user profiles from a device then they will be replaced by the appropriate default profiles.
 - You can mark any profile you want as a 'default' profile. You can also apply multiple default profiles to the same devices.
- Endpoint Manager ships with the following default profiles:
 - Windows Security Level 1 Profile
 - Mac OS Security Level 1 Profile
 - Android Security Level 1 Profile
 - iOS Security Level 1 Profile
 - Linux Security Level 1 Profile

Each of the profiles above provides good, baseline security for managed devices. These profiles cannot be modified or deleted, but may be replaced on devices by another profile.

- Endpoint Manager also ships with three, non-default, profiles for Windows:
 - Windows Security Level 1 Profile [Former Standard Profile]
 - Windows Security Level 2 Profile
 - Windows Security Level 3 Profile
- You can remove 'default' status from any profile, including the 'built-in' profiles mentioned above. However, it is mandatory to have at least one default profile per operating system.
- You can turn any profile you want into a default profile. You can also clone a default profile to use as a template for a new profile.

View and manage default profiles

- Click 'Configuration Templates' > 'Profiles'
- Select the 'Default Profiles' tab at the top.

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Endpoint Manager	🚍 Defa	ult Profiles License Op	otions 🔁	②	r22@gmail.com)
DASHBOARD >					
DEVICES >	Profile	es Default Profiles			
A USERS >	(≝) Ex	port 🔻			T
CONFIGURATION TEMPLATES	os	NAME	CREATED BY	UPDATED AT	
Profiles Alerts	Å	Linux - Security Level 1 Profile v	admin	Not updated	
Procedures	-	Windows - Security Level 1 Pro	admin	Not updated	
Monitors	×	macOS - Security Level 1 Profil	admin	Not updated	
APPLICATION STORE >	-	Android - Security Level 1 Profil	admin	Not updated	
APPLICATIONS SECURITY SUB-SYSTEMS	Ś	iOS - Security Level 1 Profile v.6	admin	Not updated	

The image above shows the default profiles shipped with Endpoint Manager.

Click the following links for more help:

- Create a default profile
- View and manage default profiles
- Assign default profiles to devices
- Remove default profiles
- Cancel default profiles
- Export the list of Default Profiles to a CSV file

Create a default profile

You can turn any profile into a 'default' profile. You can do this when you create a new profile, or by editing an existing profile.

- Create a new default profile
- Turn an existing profile into a default profile

Create a new default profile

- Click 'Configuration Templates' > 'Profiles'
- Click the 'Profiles' tab
- Click 'Create' and choose the OS of the profile:

· · · · · · · · · · · · · · · · · · ·		t ⊉1 port	
eate Android Profile eate iOS Profile	CREATED BY	CREATED -	UPDATE
eate macOS Profile Stores	herculespopular22@gmai	2018/09/07 04:54:26 PM	
ete Unux Profile			
Create Windows Profile			×
			×
Create Windows Profile	evices		×
Create Windows Profile	evices		×
Create Windows Profile Name* Default Profile for Windows D	evices		×

• Click the 'Create' button

The profile will open at the 'General Settings' screen.

· Click 'Edit' at the top right and enable 'Is Default':



eneral	
General Settings	F Edit
Name Default Profile for Windows Devices Is default Disabled Description	
eneral	
General Settings	🙁 Cancel 📔 Save
Name Default Profile for Windows Devices Is default Description	
	Name Default Profile for Windows Devices Is default Disabled Description eneral General Settings Name Default Profile for Windows Devices Is default

• Click 'Save'.

The new profile will be listed in the 'Default Profiles' area:

F	Profile	s Default Profiles			
Ľ	Exp	port 🔻		Ţ	
(0S	NAME	CREATED BY	UPDATED AT	
\langle		Default Profile for Windows Devices	herculespopular22@gmail.com	2018/09/11 01:05:28 PM	
	A	Linux - Security Level 1 Profile for I	Dyanora	Not updated	
1		Windows - Security Level 1 Profile	admin	Not updated	
	X	macOS - Security Level 1 Profile fo	admin	Not updated	
1	Ť,	Android - Security Level 1 Profile f	admin	Not updated	
	Ś	iOS - Security Level 1 Profile for IT	admin	Not updated	



You can edit the profile and add profile components (sections) as required. See Edit Configuration Profiles for more details.

Turn an existing profile into a default profile

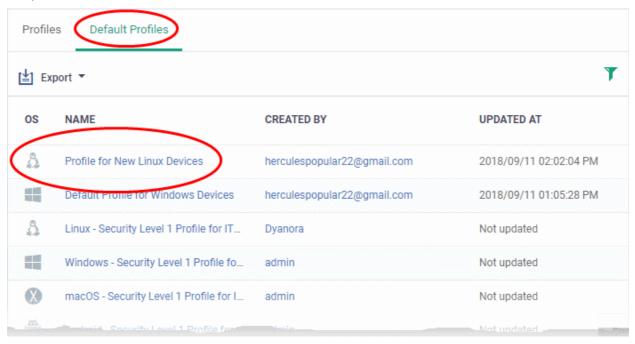
- Click 'Configuration Templates' > 'Profiles'
- Click the 'Profiles' tab
- Click the name of the profile that you want to set as a default:

Profiles	Default Profiles	
Create	Import Export Profile Clone Profile Delete Profile Export	
OS OS	NAME CREATED BY CREAT	TED V UPDATED AT
	Profile for New Linux De herculespopular22@gmail 2018/	09/11 01:40:53 PM 2018/09/15 1
	Default Profile for Wind herculespopular22@gmail 2018/	09/11 12:59:06 PM 2018/09/11 C
	Linux Proile for Stores herculespopular22@gmail 2018/	09/07 04:54:26 PM 2018/09/35
👌 Prot	file for New Linux Devices	
Add Profile Section	Export Profile Clone Profile Delete Profile Make Default	
General	Antivirus Client Access control	
Gene	eral Settings	📝 Edit
Name Profile fo	r New Linux Devices	
Is default Disabled		
Descripti	on	

- Click the 'Make Default' button in the profile details screen.
 - Or
- Click the 'Edit' button then enable 'Is Default'
- Click 'Save'.

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The profile will be listed in the 'Default Profiles' screen:



The 'Default Profiles' interface

Endpoint Manager		License Options 🔁 👰	上ogout (herculespopular22@gmail.com)
DASHBOARD >			
DEVICES	Profiles Default Profiles	\geq	
<u>A</u> USERS >	[∰] Export ▼		T
	OS NAME	CREATED BY	UPDATED AT
Alerts	Linux - Security Level	1 Profile v admin	Not updated
Procedures	Windows - Security Le	vel 1 Pro admin	Not updated
	macOS - Security Leve	el 1 Profil admin	Not updated
APPLICATION STORE	Android - Security Leve	el 1 Profil admin	Not updated
APPLICATIONS Security sub-systems	iOS - Security Level 1 F	Profile v.6 admin	Not updated

Default Profiles - Column Descriptions					
Column Heading	Description				
OS	The operating system of the devices to which the profile is applied.				
Name	 The label of the profile Click the profile name to open its details interface. This area lets you view and edit profile settings. See Edit Configuration Profiles for help with this. 				
Created by	The admin who created the profile.				

	• Click the admin name to view their details. See View the details of the User if you want help with the user details screen.
Updated at	Date and time the profile was most recently edited.

- Click any column header to sort items in ascending/descending order of the entries in that column.
- Click the funnel icon to filter by OS, profile name, author or date:

	IS Android IOS Windows ImacOS Linux Iame
2018 [2018 [iOS Windows macOS Linux
2018	macOS Linux
N	Linux
N	
	lame
c [
L	reated by
С	reated
[From
	То
U	pdated at
	From

Assign default profiles to devices

- New devices are automatically given the default profiles for their operating system IF there are no user/user group profiles for the device owner.
- Conversely, if you remove all user/user-group profiles from a device, then the default profiles are automatically deployed to take their place.

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Cancel default profiles

- You can cancel the default status of built-in profiles so they are not applied to new devices on enrollment. They will also be removed from any existing devices.
- For devices with no profiles applied, you can carry out on-demand functions such as run antivirus scans, run a procedure and so on. For Windows devices with CCS installed, when there are no profiles applied, the default CCS settings will apply.
- To open the default profiles screen, click 'Configuration Templates' > 'Profiles' on the left then choose the 'Default Profiles' tab.

Profiles	Default Profiles			
Create	Import Export Profile	Clone Profile Delete Profile	발 Export	
0S	NAME	CREATED BY	CREATED -	UPDATED AT
	Default Profile for Wi	coyoteewile@yahoo.col.ows	2018/07/17 04:27:26	2018/07/17 04:36:26 PM
	Mac OS Profile for St	coyoteewile@yahoo.co	2017/09/20 03:12:18	2017/09/20 03:12:18 PM
Add Profile Section	Export Profile Clone Profile	: E E		
General				
Gene	ral Settings			📝 Edit
Name Default Pr	ofile for Windows			
ls default Enabled				

- Click the name of the default profile from the list
- Click 'Cancel Default' button at the top

Or

· Click 'Edit' on the right, deselect 'Is Default' check box and click 'Save'

The 'Edit' button is not available for built-in default profiles. You can remove default status only by clicking the 'Cancel Default' button at the top.

Notes:

• It is mandatory to have at least one default profile for each operating system.



You cannot cancel a default profile if it is the only default available for an OS.
 Workaround - Assign a different profile as a default, then go back and cancel the first profile.

Export the list of Default Profiles to a CSV file

•

You can export the list of default profiles to a comma-separated values (CSV) file as follows:

Click the 'Export' button above the table then choose 'Export to CSV':

Profile	es Default Profiles			
Ex Ex	port •			Ţ
Ехро	rt to CSV	CREATED BY	UPDATED AT	
	Default Profile for Windows	coyoteewile@yahoo.com	2018/07/17 04:48:28 PM	
	Windows - Security Level 1 Profil	admin	2018/07/17 04:34:11 PM	
\otimes	macOS - Security Level 1 Profile f	admin	Not updated	
Ś	iOS - Security Level 1 Profile for I	admin	Not updated	
	Android - Security Level 1 Profile	admin	Not updated	

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

6.5. Manage Alerts

- Click 'Configuration Templates' > 'Alerts' to view this interface.
- You can set procedures and monitors to generate an alert when their conditions are met. For example, 'Generate an alert if CPU usage exceeds 90%', or 'Alert me when all available Windows patches have been installed.'
- The alerts section contains templates of settings for those alerts. For example 'Send a notification to these recipients...', or 'Create a service desk ticket from this issue'.
- You apply the alert template to a procedure or a monitor. You can have multiple alert templates to address different types of events. For example, you might want the alert for a failed patch deployment to be different to the alert for a system restart.
- In the standard workflow, all procedures have the 'Default Alert' settings applied to them. Click 'Configuration Templates' > 'Alerts' > 'Default Alert' to view these settings.
- If you want different alert settings for a specific event then you must create a new alert in this interface. For example, you may want an alert to be sent to specific recipients, or certain metrics to be included in the alert.
- Example. Click 'Procedures' > 'Predefined Procedures' > 'Monitors' > 'Alert if a new scheduled Task is Created'. You will notice the 'Default Alert' is used if the procedure fails. If you want to implement different alert settings then:
 - Click 'Clone' to make a copy of the procedure. The procedure will be saved in the 'My Procedures' section as '[cloned] Alert if a new scheduled task is created'.

- Go to the alerts section and click 'Create Alert'. Name the alert and configure its settings as required.
- Next, open your cloned procedure and click 'Edit'. Type the name of the alert settings you want to
 use in the 'Use alert settings...' field. Click 'Save'.
- You can also specify that your new alert settings are used in the 'Monitoring' section of a profile.

Endpoint Manager		≡ Aleri	ts		License Option	s 🗗 (ि & Logout (herculespopul	ar22@gmail.com)
DASHBOARD	>	-						
DEVICES	>	Ŕ	6	₩ <mark>©</mark>	т Т			Q
A USERS	>	Create /	Alert Clone Alert	Delete Alert	Export			Y
CONFIGURATION TEMPLATES	~		ALERT NAME	CREATED E	3Y	CREATED ON	LAST MODIFIED BY	UPDATED ON
Profiles						0010/07/11		2010/07/12
Alerts			Custom Alert	herculespo	pular22@gmail.com	2018/07/11 02:58:30 PM	herculespopular22@gmail.com	2018/07/12 09:36:10 AM
Procedures						2016/06/17		2016/06/17
Monitors			Default Alert	admin		05:52:52 PM	admin	05:52:52 PM
APPLICATION STORE	>		Restart	herculespo	pular22@gmail.com	2018/07/19 10:27:32 AM	Never modified	Not updated
APPLICATIONS	>							
SECURITY SUB-SYSTEMS	>		Update Alert	herculespo	pular22@gmail.com	2018/11/05 03:03:10 PM	Never modified	Not updated

	Alerts - Column Descriptions
Column Heading	Description
Alert Name	Label of the alert.
	Click the alert name to open the alert configuration interface. See Edit / Delete an Alert for more details.
Created by	The administrator who created the alert.
	 Click the name of an administrator to view their user details. See View the details of the User for more details.
Created on	The date and time at which the profile was created.
Last Modified by	The administrator who recently edited the alert.
	 Click the name of an administrator to view their user details. See View the details of the User for more details.
Updated on	The date and time at which the alert was last updated.
	Controls
Create Alert	Add a new alert. See 'Create a New Alert' for more details.
Clone Alert	Create a new alert by cloning an existing alert and modifying its settings as required. See 'Create a New Alert' for more details.
Delete Alert	Remove selected alert(s).
	The control will appear only if one or more alerts are selected. See Edit / Delete an Alert for more details.
Export	Save the list of alerts as a comma separated values (CSV) file. See Export the List of



Alerts for more details.

Export the List of Alerts

Export the list of alerts to a .csv file as follows:

- Click 'Configuration Templates' on the left then choose 'Alerts'.
- Click the 'Export' button above the table then choose 'Export to CSV':

Create Ale	で rt Clone Alert	Delete Alert			
	ALERT NAME	CRI Export to CSV	EATED ON	LAST MODIFIED BY	
	restart	coyoteewile@yahoo.com	2017/01/31 11:30:52 AM	coyoteewile@yahoo.com	
	New	coyoteewile@yahoo.com	2016/12/29 11:40:06 AM	coyoteewile@yahoo.com	

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

Sorting, Search and Filter Options

- Click on any of the column headers to sort the items in ascending/descending order of entries in that column.
- Click the funnel icon to search for alerts based on the filter parameters



		T
ED ON	ц	Alert name
31 11:30:52 AM	сс	Alert name
1:40:06 AM		Created by
		Created by
		Created on
		Start End 🗰
		Last modified by
		Last modified by
		Updated on
		Start 💼 End 💼

- To filter the alerts based on name, author and admin who last edited the alert, enter the text partially or fully in the respective fields and click the 'Apply' button.
- To filter the alerts based on the period at which they were created or last modified, enter the date range in the specified fields, and click the 'Apply' button.
- You can use these filters in combination to search for specific alert.

Alerts which match the search parameters will be displayed in the screen.

- To display all alerts again, clear all filters and click the 'Apply' button.
- Click the funnel icon again to close filter options

Click the following links for more details:

- Create a new alert
- Edit / delete an alert

6.5.1. Create a New Alert

Alerts can be created in two ways:

- Create new alert
- · Clone an existing alert and edit its configuration as required

To create a new alert

- Click 'Configuration Templates' > 'Alerts'
- Click 'Create Alert'

ALERT NAME	CREATED BY	CREATED ON	LAST MODIFIED BY
restart	coyoteewile@yahoo.com	2017/01/31 11:30:52 AM	coyoteewile@yahoo.com
lew	coyoteewile@yahoo.com	2016/12/29 11:40:06 AM	
Create Alert	t		×
Alert name *			
Alert name *			

- Enter a name and description for your alert and click 'Create'
- After saving, you will be taken to the alert configuration screen. The 'General' section allows you to modify basic settings:

	re Service Desk tickets fication settings	Configure additi alert recipients		
General Alert Settings	Additional Recipients 🗲			
General			P Edit	Delete
Alert name				
System Procedure				
Description				
To check system procedure				
- 1				

• To configure alert settings, click 'Alert Settings' tab and then 'Edit'

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General Alert Settings Additional Re Alert Settings	ecipients
Don't create additional alerts (about the same	issue) for
Enabled 5 days	
-	
Create notifications on the portal Disabled	
General Alert Settings Additional Re	
Alert Settings	😒 Cancel 🔛 Save
Don't create additional alerts (about)	the same issue) for
	,, _,, _
5 days 🗸	
Create notifications on the portal	
Create alert tickets on the Service De	esk
Append to an original ticket if the	ere is an open ticket for performance monitoring conditions
Automatically close the ticket if t	he metrics go below the threshold
Open the tickets under	
Maintenance Department 🗸	
Open the tickets with priority	
Normal	
Additional device data and metrics t	o be inserted in the ticket:
Note: company, device name, device OS an	d owner are included by default
Include device data (brand, mode address, gateway IP adress, DNS	el, serial number, logged on user, domain/workgroup, MAC address, local IP server address)
Performance metrics (CPU usage	e, RAM usage, disk usage, network usage, uptime, if reboot is pending)
Connectivity metrics (local IP add communication time, DNS server	dress, external IP address, gateway IP address, ping to gateway, last address)
	ts (about the same issue) for - Determines whether additional alerts issue occurs within the specified period. The field below this allows you

- Create notifications on the portal Alerts will be generated and displayed on the Notifications screen.
- Create alert tickets on the Service Desk If enabled, tickets will be raised automatically on Service Desk application and allotted to specified departments.
 - Append to an original ticket if there is an open ticket for performance monitoring conditions
 Determines whether a new ticket should be raised for an issue even if a ticket is open for the same issue in Service Desk.

period of 5 days.

- Automatically close the ticket if the metrics go below the threshold Determines whether the
 open tickets for an issue should be closed automatically if the monitoring parameter goes below
 the set threshold.
- **Open the tickets under** Select the the department from the drop-down to which the tickets should be allotted.
- **Open the tickets with priority** Select the ticket priority, whether normal, high or critical from the drop-down.
- Additional device data and metrics to be inserted in the ticket By default, the name of the company, device type, device OS and the owner information are included in the ticket. To add additional device data and metrics to the ticket, select the respective options.
 - Device Data Adds device information like brand, model. IP address and so on
 - **Performance Metrics** Adds device performance information like CPU usage, RAM usage, disk usage, network usage and more
 - Connectivity Metrics Adds information on network to which the device is connected, like local IP address, external IP address, gateway IP address and more
- To configure 'Additional Recipients' settings, click 'Additional Recipients' tab and then 'Edit'.

General Alert Settings Additional R	ipients	
Additional Recipients		Edit Delete
Send e-mails if Monitoring or Procedure register a Enabled	ts more than the selected number of consecu	ative times
General Alert Settings Additional	ecipients	
Additional Recipients		Cancel Save
 Send e-mails if Monitoring or Procedul Always send e-mails Send to the portal administrators Send to the following e-mail address Press Tab or Enter to add an e-mail address to the list Send to the following portal users: 	e register alerts more than the selected r	number of consecutive times

- Send e-mails if Monitoring or Procedure register alerts more than the selected number of consecutive times Determines when email alerts should be sent for an issue. For example, if you select 5 from the drop-down, email alert will be sent only if the same issue is generated 5 consecutive times.
 - Send to the portal administrators Emails alerts will be sent to users with 'Administrative' roles.
 - Send to the following e-mail addresses Allows you to add external recipients. Enter the email

address and press either 'Tab' or 'Enter' button. You can add multiple recipients. To remove a recipient, click the 'X' beside the recipient.

- Send to the following portal users Allows you to add users with 'User' roles. Type the username fully or partly and select from the list. You can add multiple users. To remove a user, click the 'X' beside the name.
- Click 'Save' to apply your changes. The alert will be created and displayed in the list. The alerts will be available for selection in the **Procedure** section and while configuring **Monitor Settings** for a Windows profile.

To create an alert by cloning an existing alert

- Click 'Configuration Templates' > 'Alerts'
- Click on the name of the alert you want to clone.

The alert configuration interface will open

Click 'Clone Alert' from the top

Alternatively, select the alert from the 'Alerts' interface and click 'Clone Alert' at the top.

ALERT NAME	CREATED BY	CREATED ON	LAST MODIFIED BY
CPU Monitor	coyoteewile@yahoo.com	2018/07/19 12:12:48 PM	Never modified
restart	covoteewile@yabes_on	2017/01/31 11:30:52 AM	
lert name *			
[cloned] CPU	Monitor		
escription)			
Description			

The 'Clone Alert' dialog will open. The name of the new alert will be the same as the source alert with the prefix [cloned].

- If required, enter a new name for the alert and a short description
- Click 'Clone'.

A new alert will be created with configuration parameters identical to the source alert and added to the list.

• Click the name of the alert

Create Ale	rt Clone Alert	Contraction Contraction	Export			
	ALERT NAME	CRE	ATED BY	CREATED ON	LAST MODIFIED BY	
	CPU Monitor 2	соус	oteewile@yahoo.com	2018/07/19 12:36:04 PM	Never modified	
	CPU Monitor	соус	oteewile@yahoo.com	2018/07/19 12:12:48 PM	Never modified	
	restart		ntoowila@vahoo.com	2017/01/21 11:20:50 11		

The configuration screen for the alert will open with the settings identical to the source alert

- · Edit the parameters as required. See the explanation above for more details
- Click 'Save' to save your changes

6.5.2. Edit / Delete an Alert

To edit an alert:

- Click 'Configuration Templates' > 'Alerts'
- · Click the name of the alert you wish to modify
- Click the 'Edit' button on the right
- · You can edit settings in the 'General', 'Alert Settings' and 'Additional Recipients' areas
- · See 'Create a New Alert' for more information on the settings in these areas
- Click 'Save' to apply your changes

Before deleting an alert, please consider whether it is currently being used on any **Procedures** or **Monitor Settings** for a Windows profile. Please also investigate whether the alert could be edited rather than deleted.

To delete an alert:

- Click 'Configuration Templates' > 'Alerts'
- Click the name of the alert you wish to delete
- Click the 'Delete' button on the right.
- Click 'Confirm' in the confirmation dialog:

ALERT NAME	CREATED BY	CREATED ON	LAST MODIFIED BY	
restart	coyoteewile@yah	2017/01/31 11:30:	coyoteewile@yahoo.com	
New	coyoteewile@yah	2016/12/29 11:40:	coyoteewile@yahoo.com	
Patch Procedure A	coyoteewile@yah	2016/11/24 11:04:	coyoteewile@yahoo.com	
 Seriel B sedure A	covoteewile@vah	2016/14/27 11:02:		
Delete Alert	•		:	×
Do you really want to	delete alert «New»?			

6.6. Manage Procedures

• Click 'Configuration Templates' > 'Procedures'

Procedures are standalone instruction scripts and patches for Windows devices. Procedures can be run on an adhoc basis or added to a profile. You can create procedures to identify and fix issues, monitor resources, and run patches.

Features include:

- · Select a predefined or custom procedure to execute on endpoint
- · Easily modify procedure variables.
- Compose script instructions in Python
- · Update Windows and third party apps with a patch procedure
- Combine procedures to build broader procedures.
- Show procedure results in the execution log as well as inside a particular device
- Import procedures from JSON.
- Export and clone procedures.
- Run procedures on demand by selecting 'Run Over Device'.
- Add predefined procedures to Windows device profiles and create schedules for them.

Please use the following links to learn more about procedures:

- View and Manage Procedures
- Create a Custom Procedure
- Combine Procedures to Build Broader Procedures
- Review / Approve / Decline New procedures



- Add a Procedure to a Profile / Procedure Schedules
- Import / Export / Clone Procedures
- Change Alert Settings
- Directly Apply Procedures to Devices
- Edit / Delete Procedures
- View Procedure Results

6.6.1. View and Manage Procedures

• Click 'Configuration Templates' > 'Procedures' to open the procedures interface.

There are two categories of procedures:

- 1. 'Predefined Procedures- two types: 'Script' and 'Patch' procedures
- 2. 'My Procedures' custom procedures that you create.

Predefined procedures cannot be edited. However, you can clone a procedure and modify it to create a custom procedure. See **Create a Custom Procedure** for help with this.

- The following folders contain scripts to execute many useful tasks 'Application', 'System', 'File Operations', 'Task Scheduler', 'Reports', 'Monitors', 'Network' and 'User Accounts'.
- The 'Patch Deployment' folder contains procedures to install Windows OS patches onto Windows endpoints.

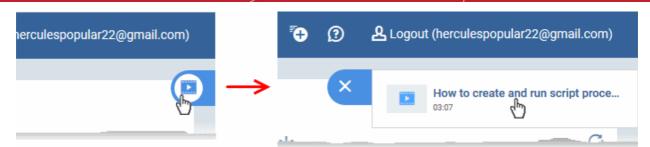
Endpoint Manager		License Options 🕞 ② 🕹 Logout (herculespopular22@g	gmail.com)
DASHBOARD >			
DEVICES	Q Search folder	Procedures	
A USERS >	⁽¹⁾ My Procedures ⁽²⁾ Predefined Procedures		O
CONFIGURATION TEMPLATES	→ ⊕ □ Application	Create Import Procedure Export Procedure Clone Run Delete Procedure Export	Ţ
Profiles	— 🗆 🛱 C1 Integration	PROCEDURE NAME TYPE STATUS CONTENT TYPE CREATED BY CF	REATED ON
Alerts	- 🕀 🗂 File Operations		
Procedures	— ⊕ [□] Monitors	Enroll Comodo Dom Predefined Approved Script 20	018/07/06 0
Monitors	- 🕀 🗂 Network	Backup and restore Predefined Approved Script 20	018/06/12 0
L .	— ⊕ [□] Patch Deployment	Get customer enviro Predefined Approved Script 20	018/04/27 0
APPLICATIONS >	— ⊕ □ Reports	Generate CCS Virus Predefined Approved Script 20	018/04/27 0
SECURITY SUB-SYSTEMS	— ⊕	Collecting Remote Predefined Approved Script 20	018/04/27 0
☆ SETTINGS >	- 🕀 🗇 User Accounts	Install Cdome SSL c_ Predefined Approved Script 20	018/04/27 0



Procedures - Column Descriptions						
Column Heading	Description					
Procedure Name	 The procedure label. Click the name of a procedure to view, edit review, schedule or approve/decline it. See Review / Approve / Decline New Procedures and Edit / Delete Procedures for more details. 					
Туре	Whether the procedure is a custom or a predefined procedure.					
Status	The current status of the procedure. The possible statuses are: Created Edited Ready to review Approved Declined 					
Content Type	Whether the procedure is script procedure or patch procedure.					
Created by	 The administrator who created the custom procedure. Click the admin name to view their details. See View User Details if you need help with this. 					
Created On	Date and time the procedure was created.					
Last Modified By	The admin who most recently edited the procedure.					
Updated On	Date and time the procedure was last edited.					
	Controls					
Create	Configure a new script or patch procedure. See 'Create a Custom Procedure' for help with this.					
Import / Export / Clone	Import a saved procedure, export and save a procedure, and clone an existing procedure. Cloned procedures can be modified to create a new, custom procedure. See 'Import / Export / Clone Procedure' for more details.					
Run	Execute a procedure on target Windows devices. See 'Directly Apply Procedures to Devices' for more details.					
Delete Procedure	Remove procedures from Endpoint Manager. Use the check-boxes to select the procedures.					
Export	Save the list of currently displayed procedures as a comma separated values (CSV) file. The exported .csv is available in 'Dashboard' > 'Reports' See Export the List of Procedures for more details.					

The slider at top-right contains links to help videos on procedures:

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• Use the video guide to quickly learn about creating and running procedures.

View sub-categories of 'Predefined Procedures':

- Click 'Configuration Templates' > 'Predefined Procedures'
- Click the 'Predefined Procedures' folder
- Open a category folder to view related procedures
- Procedures are shown on the right:

Proc	cedures				
17	₹	-	F		
- U					
Cleate	e import	Export	Cione	Kun	
	PROCEDURE NAM	/IE	ТҮРЕ	STATUS	CONT
		-			
	Get MD5 and SHA	1	Predefined	Approved	
	Unhide File or Fol	de	Predefined	Approved	
	Lida Fila or Folda	-	Prodofinod	Approved	
	Hide File Of Folde		Pledenned	Approved	
	Clean specific fol	de	Predefined	Approved	
	Delete Files and F	ol	Predefined	Approved	
	Find Files Recursi	ve	Predefined	Approved	
	Rename the File		Predefined	Approved	
	đ	Get MD5 and SHA Unhide File or Folde Hide File or Folde Clean specific fold Delete Files and F Find Files Recursi	Import Import PROCEDURE NAME Get MD5 and SHA1 Unhide File or Folde Hide File or Folder Clean specific folde Delete Files and Fol	Import Import Import Export Import Export Import Import Import <t< td=""><td>Import Import Import Import Export Clone Run Run </td></t<>	Import Import Import Import Export Clone Run Run

The following table lists all predefined categories and procedures:

Category	Procedures
Application	Scripts to run tasks on Comodo and 3rd party applications. Examples include install/uninstall applications, kill running applications, get details on running applications/processes/servers + many other useful scripts.
C1 Integration	Scripts to ensure your C1 or ITarian environment runs smoothly. Examples include generate a patch report, run a backup operation, and restart the communication client.

File Operations	Copy, move/delete files/folders, find and remove duplicate files, compress/decompress folders, clean up temporary files and downloaded files and more.					
Monitors	Scripts to generate alerts or run specific tasks if a condition is met. For example, 'Alert when USB removable disk is connected to the system'.					
	These can be used in the monitor settings of a Windows profile. See Add Custom Monitoring Conditions for more details.					
Network	Scripts to run tasks on, or get information about, your network.					
	For example, view TCP/IP settings, save/restore network configurations, clear DNS cache and more					
Patch Deployment	Installation and update of OS patches of different categories.					
Reports	Contains procedures for obtaining various system logs.					
System	Reboot devices, create restore point, enable/disable USB ports, mapping network drives, running disk defragmentation, fixing disk errors and more.					
Task Scheduler	Create new tasks and schedule them, run tasks and more.					
User Accounts	Add/remove domain user to a group, enable/disable user access control (UAC), get UAC status and more.					

Any predefined procedure can be cloned and edited to create a custom procedure. See the following sections for more details.

- Import / Export / Clone Procedures
- Edit Procedures
- Add a Procedure to a Profile / Procedure Schedules

To view 'My Procedures':

• Click 'Configuration Templates' > 'Procedures'. Expand the 'My Procedures' folder. Each folder has subfolders which display procedures under specific categories (for example, 'Ready for review').

Q Search folder	Procedures								
My Procedures My Procedures Ready for Review Test Patch Procedure	₽ Create	₽ Import	ात्र Export	Clone	Run	Toolete Procedure			
— ⊕ 🗇 Test Script Procedure		PROCEDURE N	AME	ТҮРЕ		CONTENT TYPE	CREATED BY		
— ⊞ □ Patch and script		Finance Dept Script		Custom	Created	Script	coyoteewile	Feb 8, 2017	
Fin Dept Script Procedure Ö Predefined Procedures		Script Approve	teest	Custom	Declined	Script	coyoteewile	Nov 24, 2016	
		New		Custom	Created	Script	coyoteewile	Aug 24, 2016	
		Windows even viewer	t log	Custom	Edited	Script	coyoteewile	Aug 24, 2016	
		Test2		Custom	Ready to review	Script	coyoteewile	Aug 23, 2016	
	Results pe	r page: 20	~						

To add a sub folder to the My Procedures folder:

• Place your mouse on the 'My Procedures' folder and click '+' beside it

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Endpo	int Manager		
DASH	IBOARD >		
DEVIC	CES >	Q Search folder	Procedures
	s >	My Procedures Predefined Procedures	.
	GURATION TEMPLATES		Create Import Process
Pro	Add Folder		×
Pr			lo D.,
Mo	Folder name*		
	Folder name		
			Add

• Enter a name for the sub-folder to be created in the 'Add Folder' dialog and click 'Add'

The sub-folder will be created and displayed under 'My Procedures'

Q Search Folder
🖯 🗂 My Procedures
- 🗆 🛱 Ready for Review
🗄 🗂 Test Patch Procedure
🖽 🗀 Test Script Procedure
- 🕀 🗂 Patch and script
🕀 🗇 Finance Script Procedure
^{CD} Predefined Procedures

You can also add sub-folders of a sub-folder. Once sub folders are created, you can create new procedures inside them or import/clone predefined procedures.

See the following sections for more details about:

- Create a new procedure
- Import / Export / Clone a procedure
- Edit a Procedures

To edit the name of a sub folder under 'My Procedures'

- Place your mouse on the sub folder and click the pencil symbol beside it
- Enter a new name for the sub-folder in the 'Edit Folder' dialog and click 'Save'

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Endpoint Manager	■ Procedures	
DASHBOARD >		
DEVICES >	Q Search folder	Procedures
<u>A</u> users >	⁽¹⁾ My Procedures ⁽¹⁾ Ready for Review	i
CONFIGURATION TEMPLATES V	— ⊞ □ Finance Scripts →+ ■	Create Import Proceds
Profiles	⊕ ☐ Predefined Procedures	PROCEDURE NAM
Alerts		
Procedures		Calculate VAT
Edit Folder		×
Folder name*		
Finance Scripts		
		Save

The folder name will be updated in folder tree.

Note: You cannot edit or delete the 'Ready for Review' folder.

To delete a sub folder under 'My Procedures' folder:

• Place your mouse on the sub folder and click the trash can symbol beside it

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Endpoint Manager		
DASHBOARD >		
DEVICES >	Q Search folder	Procedures
Susers > ☐ CONFIGURATION TEMPLATES >	My Procedures My Procedures G Ready for Review G Finance Scripts	Create Import Proceds
Profiles Alerts		PROCEDURE NAM
Procedures		Calculate VAT
Monitors Delete Folder Do you really want to dele	ete folder «Budget»?	Confirm

• Click 'Confirm' to update the tree.

Export the Procedure List

- Click 'Configuration Templates' > 'Procedures'.
- Click 'My Procedures' or 'Predefined Procedures'
- Click the 'Export' button then choose 'Export to CSV':

Q Search folder	Proc	edures						
⁽¹⁾ My Procedures	65	₹ <u>□</u>	Ţ	6 3	7	12	(±)	C
Predefined Procedures	•	*		Clone		Delete Procedure		
— ⊕	Create	Import Procedure	Export Procedure	Cione	Run	Delete Procedure	Export	Y
— ⊞		PROCEDURE NAME	TYPE	STATUS	CONTENT	TYPE CREATE	Export to CSV	
$- \oplus$ 🗀 File Operations							Ú	
— ⊕ 🛱 Monitors		Alert if the Veeam A	Predefined	Approved	Script		2018/07/	′1 <mark>4 0</mark>
— ⊕ 🗇 Network		Display the availabl	Predefined	Approved	Script		2018/07/	′14 0
- 🕀 🛱 Patch Deployment		Delete all the *.mp4	Predefined	Approved	Script		2018/07/	/14 0
— ⊕ 🗇 Reports					- 			
— ⊕ 🗇 System		List all installed MSI	Predefined	Approved	Script		2018/07/	/14 0

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.



6.6.2. Create a Custom Procedure

Endpoint Manager lets you create custom script/patch procedures to achieve specific tasks. Click the following links to find out more:

- Create a custom script procedure
- Create a custom patch procedure
- Create a custom 3rd Party application patch procedure

To create a custom script procedure

• Click 'Configuration Templates' > 'Procedures' > 'Create' > 'Create Script Procedure'

Procedures
Create Import Procedure Export Procedure Clone
Create Script Procedure Create Patch Procedure Create 3rd Party Patch Procedure
×
Create

- Enter a name and description and specify the folder where it should be saved. If required, you can create new sub-folders under 'My Procedures' in the 'Procedures' area.
- After saving, you will be taken to the procedure configuration screen:

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Edit name, description and alert settings	Compose your procedure in Python	Specify a schedule for the procedure	View script execution logs	Configure variable parameters defined in the script	
General Vie	w Procedure	Schedule Exe	ecution Log	arameters	
General				求 Edit	Delete
Procedure nam Finance Dept S	-				
Description Script for calcu	lation in Finance Dep	ot Devices			
Folder My Procedures					
Use alert settin Default Alert	gs when the proced	ure fails			

Click 'Edit' to modify the basic settings:

•

	General	View Procedure	Schedule	Execution Log	Parameters
	Genera	ıl		😵 Ca	incel 🖺 Save
	Procedu	re name *			
	Finan	ce Dept Script			
	Descripti	on			
	Script	for calculation in F	inance Dept De	evices	
Select the folder to save the script				/	
to save the script	Folder				
Enable or disable alerts, if this	My Pr	ocedures		~	
procedure fails	🎽 🔳 Use	alert settings when	the procedure	fails	
Select default or	Use aler	settings when the pro	cedure fails		
custom alert settings to be applied to this procedure	-> Defau	lt Alert			

- Default Alert You can view the settings of the default alert in 'Configuration Templates' > 'Alerts'. You can
 create custom alert settings if required from this interface.
- Click 'Save' to save your settings.
- Click the 'View Procedure' tab followed by 'Edit' to define a Python script for your procedure. The built-in text editor lets you to compose your script:



General	View Procedure	Schedule	Execution Log	Parameters
Proced	lure's Instructions	Ð		😪 Cancel 💾 Save
► 4	Add Existing Procedure	K Undo	Redo	
1 #To 2	define a particu	lar paramete	er, replace t	the 'parameterName' inside itsm.getParameter('variableName') with that parameter's name
		Simply	type your Pytho	ion code into the text editor and compose the script

- You can include variable parameters whose values are populated when the procedure runs.
- To define variable parameters in the script:
 - Click the 'View Procedure' tab followed by 'Edit'
 - In the text editor, type the parameter name and enter the value as itsm.getParameter('parameter name'). Examples:
 - Age = itsm.getParameter('age')
 - Year = itsm.getParameter('year')
 - The specified variables will become available in the 'Parameters' tab. You can define the type, label and default values for them.
 - Click the 'Parameters' tab after completing the script under the 'View Procedure' tab

An example is shown below:

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arameters ()	🙁 Cancel	🖺 Save
je		
Type *		
Please choose type		~
This field shouldn't remain empty		
EM Label *		
This field shouldn't remain empty		
Default Value *		
ar		
Type *		
Please choose type This field shouldn't remain empty		~
EM Label *		
This field shouldn't remain empty		
Default Value *		

For each parameter you should configure the following:

- Type Choose the category of variable. The supported types are:
 - Integer
 - Double
 - String
 - List
- EM Label Enter a name for the variable.
- Default Value Enter a value for the parameter to be taken when no value is input during run-time
- Click 'Save' to save the script.
- After saving your script you need to approve it before it can be deployed in a profile.
- The 'Schedule' tab will be auto-populated once you deploy the procedure to a configuration profile and create a schedule for the procedure to run in the profile. Refer to the section Add a Procedure to a Profile / Procedure Schedules for more details.

- The 'Execution Log' tab will be populated after the procedure has successfully run on end-points. You can view the history of execution of this procedure at anytime by selecting this procedure from the Procedures interface and clicking the 'Execution Log' tab.
- Note 1. Comodo runs a free script library at https://scripts.comodo.com/ which contains Python scripts covering a wide range of tasks. Feel free to try any script that fits your needs. You can also use this site to request a new script for a particular task you think will be useful. You can contribute your own scripts to the MSP forum at https://forum.mspconsortium.com/forum/script-library
- Note 2. You can also use the Import and Clone features if you wish to create a new procedure using an
 existing procedure as a starting point

To create a custom patch procedure

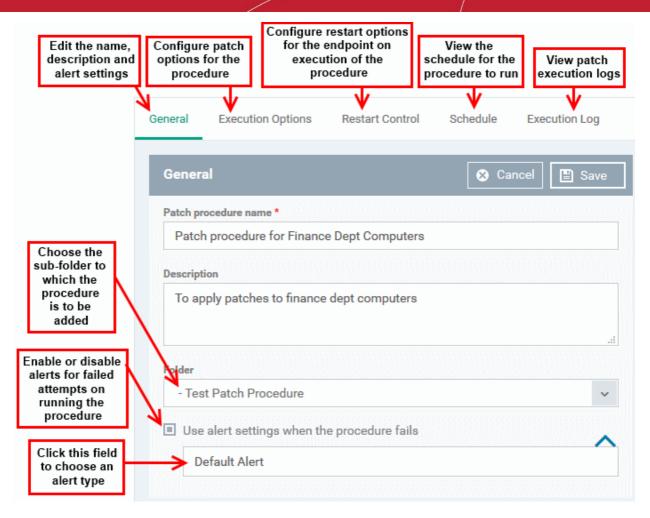
Procedures	
defined Procedures	
	Create Import Export Clone R
	Create Script Procedure STATU
	Create Patch Procedure
/	Create 3rd Party Patch Procedure
Patch procedure name *	
Patch procedure name * Description	
Description	
Description	

Click 'Configuration Templates' > 'Procedures' > 'Create' > 'Create Patch Procedure'

- Enter a name and description and specify the folder where it should be saved. If required, you can create new sub-folders under 'My Procedures' in the 'Procedures' area.
- After saving, you will be taken to the procedure configuration screen:

Procedure Configuration

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• To configure patch options for your procedure, click the 'Execution Options' tab followed by the 'Edit' button. You can select the Microsoft software updates required for the procedure from the options.

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Execution Options Critical updates General Execution Options Restart control Schedule Execution Log Execution Options Execution Options Cancel Save Choose Microsoft software updates to install: Critical updates Critical updates Choose severity: Critical Important Moderate Low Unspecified Service packs Update rollups Upgrades Read the definitions from Microsoft website Select the patch options for the	General 🕻	Execution Options	Restart Control	Schedule	Execution Log
Ceneral Execution Options Rescution Updates Rescution options Rescution updates Rescution options Rescution updates Rescution options Rescution updates Rescution options Rescution options Rescution updates Rescution options Rescution options Rescution updates Rescution updates Rescution updates Rescution updates Rescution	Execut	ion Options			Edit 🗊 Delete
Execution Options Cancel Choose Microsoft software updates to install: Choose Microsoft software updates to install: Chical updates Feature packs Security updates Choose severity: Choose severi	<u>Critical u</u>	pdates			
Choose Microsoft software updates to install: Critical updates Definition updates Feature packs Updates Security updates Choose severity: Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website	General	Execution Options	Restart Control	Schedule	Execution Log
 Critical updates Definition updates Feature packs Updates Security updates Choose severity: Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website 	Execu	tion Options 🖌			🙁 Cancel 🖺 Save
 Definition updates Feature packs Updates Security updates Choose severity: Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website 	Choose	e Microsoft software u	odates to install:		
 Feature packs Updates Security updates Choose severity: Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website 	Crit	ical updates			
 Updates Security updates Choose severity: Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website Select the patch options for the	Def	inition updates			
 Security updates Choose severity: Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website 	E Fea	ture packs			
Choose severity: Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website Select the patch options for the	Upo	lates			
 Critical Important Moderate Low Unspecified Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website 	Sec.	curity updates			
 Service packs Tools Update rollups Upgrades Read the definitions from Microsoft website Select the patch options for the	Cho	oose severity:			
 Tools Update rollups Upgrades Read the definitions from Microsoft website Select the patch options for the		Critical 🗌 Importan	Moderate	Low 🗌 l	Jnspecified
 Update rollups Upgrades Read the definitions from Microsoft website Select the patch options for the	Ser	vice packs			
 Upgrades Read the definitions from Microsoft website Select the patch options for the 	Тоо	bls		\	
(i) Read the definitions from Microsoft website Select the patch options for the	Upo	late rollups		\mathbf{N}	
Select the patch options for the	Upg	grades			~
options for the	 Real 	ad the definitions from	Microsoft website		
options for the					
procedure				9	Select the patch options for the procedure

- Click the link 'Read the definitions from Microsoft website' link to view patch details.
- · Choose which types of patch the procedure should install and click 'Save'
- Click the 'Restart Control' tab followed by the 'Edit' button to configure restart options for the endpoint after the procedure has run successfully.

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eneral	Execution Options	Restart Control	Schedule	Execution Log	
Restar	t control			Edit 📋 De	elete
Restart of Suppress	s the reboot				
General	Execution Options	Restart Control	Schedule	Execution Log	
Rest	art control			🙁 Cancel 🖺 Sav	ve
O Fo	orce the reboot in				
	5 minutes				~
0 w	uppress the reboot () arn about the reboot ar t message	nd let users postpon	e it		
Ent	er a message that the o	device owner will ge	t before the rel	boot	

- You can choose to:
 - · Continue the operation of the endpoint without restart by selecting 'Suppress the reboot'
 - Force restart the endpoint a certain period of time after the procedure has completed. OR
 - Display a warning to the user and let them postpone the restart. Type a message for the user if you choose this option.
- The 'Schedule' tab will be auto-populated once you add the procedure to a configuration profile and schedule its execution. See Add a Procedure to a Profile / Procedure Schedules for more details.
- The 'Execution Log' will be auto-populated after the procedure has been successful executed as part of a
 profile. You can view a history of executions at anytime by selecting this procedure in the 'Procedures'
 interface and clicking the 'Execution Log' tab.
- After saving, your patch procedure will be automatically approved, added to the 'Procedures' list and can be deployed in a profile.

Important Note: Patches that are hidden by administrators will not be executed. Refer to the section ' **Installing OS Patches on Windows Endpoints**' for more details.

To create a custom 3rd party patch procedure

• Click 'Configuration Templates' > 'Procedures' > 'Create' > 'Create 3rd Party Patch Procedure'

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arch folder	Procedures		
My Procedures Predefined Procedures	Create Import Export Clone	۲ Run	
	Create Script Procedure	STATUS	
	Create Patch Procedure Create 3rd Party Patch Procedure	Approved	
	ordate order arty ratem rocedare		
Create 3rd Party Patch Pr	rocedure	×	
	rocedure	×	
Create 3rd Party Patch Pro	rocedure	×	
Procedure name *	rocedure	×	
	rocedure	×	
Procedure name *	rocedure	×	
Procedure name *	rocedure	*	
Procedure name *	rocedure		
Procedure name * Description	rocedure		
Procedure name * Description Folder			
Procedure name * Description Folder			

- Enter a name and description for your 3rd party patch procedure and specify the folder in which you want to save it. After saving, you will be taken to the procedure configuration screen with the 'General' section open
- Click 'Edit' if you want to change the general parameters.

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Edit the name, description and alert settings	Configure patch options for the procedure	Configure restart options for the endpoint on execution of the procedure	View the schedule for the procedure to run	View patch execution logs
4	General Execution	Options Restart Control	Schedule Execu	rtion Log
	General		Canc	el 📱 Save
	Procedure name *			
	Forefox Update			
Choose the sub-folder to which the procedure is to be added	Description			i.
	Folder			
Enable or disable alerts for failed	My Procedures			~
attempts on running the procedure	Use alert setting	s when the procedure fails		
Click this field to choose an alert type	7			

• To configure patch options for your procedure, click the 'Execution Options' tab followed by the 'Edit' button. You can select the applications to be updated from the options.

eneral	Execution Options	Restart Control	Schedule	Execution Log		
Execut	tion Options			🗴 Cancel 🕒 Save		
	rd party software to updat	e				
 Update all applications Update only the selected applications 						
Software	•					

- Select 3rd party software to update Allows you to choose whether all upgradable applications identified at the endpoint to be updated or only specific application(s) is/are to be updated.
 - **Update all applications** Select this option if you want all outdated applications in the endpoint to be updated on running the procedure
 - **Update only the selected applications** Select this option if you want only specified applications are to be updated on the endpoint, then specify the applications to be updated.



- Start entering the first few characters of the application. The upgradable applications identified from all managed endpoints and matching the search criteria will be displayed as options
- Select the application from the list

Select 3rd party software to update	
O Update all applications O Update only the selected applications	
Software fir	

- Click 'Save'
- Click the 'Restart Control' tab followed by the 'Edit' button to configure restart options for the endpoint after the procedure has run successfully.

General	Execution Options	Restart Control	Schedule	Execution Log	
Restar	t control			💎 Edit	🖞 🗍 Delete
Restart o Suppress	option s the reboot				
General	Execution Options	Restart Control	Schedule	Execution Log	
Rest	art control			Cancel	Save
O Fo	orce the reboot in				
	5 minutes				~
	uppress the reboot () arn about the reboot ar	nd let users postpon	e it		
Reboo	t message				
Ent	er a message that the o	levice owner will ge	t before the re	boot	

- You can choose to:
 - · Continue the operation of the endpoint without restart by selecting 'Suppress the reboot'

- Force restart the endpoint a certain period of time after the procedure has completed. OR
- Display a warning to the user and let them postpone the restart. Type a message for the user if you choose this option.
- The 'Schedule' tab will be auto-populated once you add the procedure to a configuration profile and schedule its execution. See Add a Procedure to a Profile / Procedure Schedules for more details.
- The 'Execution Log' will be auto-populated after the procedure has been successful executed as part of a profile. You can view a history of executions at anytime by selecting this procedure in the 'Procedures' interface and clicking the 'Execution Log' tab.
- After saving, your patch procedure will be automatically approved, added to the 'Procedures' list and can be deployed in a profile.

6.6.3. Combine Procedures to Build Broader Procedures

Note - this section only applies to script procedures, not patch procedures.

To incorporate a script from another procedure:

- Open your custom procedure and click the 'View Procedure' tab, then click 'Edit' on the right
- · Position your mouse cursor at the place in your script where you wish to add the new code
- Click 'Add Existing Procedure'
- Type the name of the procedure whose script you want to import
- Click 'Add'. The code will be added to your existing script at the place you specified.
- · You can, of course, subsequently modify the script as required.

General	View Procedure	Schedule	Execution Log	Parameters	
157 158 159		Undo Le(workdir+r	Redo r'\temprun.vbs' emprun.vbs')):	
162	Add Existing	Procedure			×
	Procedure name Type procedur	e name to sea	arch among proce	dures	
					Add

• Click 'Save' for your changes to take effect.



6.6.4. Review / Approve / Decline New Procedures

- New custom script procedures are given an initial status of 'Created'.
- Custom script procedures must be approved before they can be added to a profile.
- Custom patch procedures do not require approval.

The review/approval process:

- Script writer -
 - Go to 'Configuration Templates' > 'Procedures' and create a new script procedure.
 - Save the procedure in 'My Procedures' (or a sub-folder).
 - The procedure will have a status of 'Created'.
 - Click the name of the new procedure to open its configuration screen.
 - Click the 'Ready to Review' button
- Approver -

•

- · Receives a notification that a procedure requires approval
 - Goes to 'Configuration Templates' > 'Procedures' and opens the procedure details page
 - Clicks 'Approve' to commit the script and make it available for selection in profiles
 - Clicks 'Decline' to reject the script

Notes:

- The writer and approver in the example above can be the same person.
- The specific permissions required to approve a procedure are:
 - 'manage.procedures' and 'manage.procedures.manage'
 - · Both these permissions are enabled in the 'admin' and 'technician' roles
 - Make sure these permissions are enabled in a custom role if its members are to approve procedures

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Procedu	ures								
Create	FD Import Procedure	Export Procedure	Clone	Run	FC Delete Pr	ocedure	Export		
PRO	CEDURE NAME	TYPE	STATUS	CONTENT	TYPE	CREATED	BY	CREATED ON	
	user	Custom	Created	Script		herculesp	op	2018/07/24 0	
🗌 Fina	ice Dept Script	Custom	Approved	Script		herculesp	op	2018/07/24 1	
Greet L	Jser								
₹,	Ċ ³		٦ <u>p</u>	73		3	6		
Export Proce	dure Clone	Run Re	ady Review	Approve	Decline	Delete	Procedur	e	
General	View Proced	ure Schedu	le Execu	ition Log	Parame	eters			
Gene	rai					🏹 Ed	lit	Delete	
Proced Greet U	ure name Iser		-						-
Greet U	ser								
₹ C ,	Ū ³		T.	10	50	₹[0		
Export Proced	lure Clone	Run Rea	dy to Review	Applhye	Decline	Delete P	rocedure		
General	View Procedu	ire Schedule	e Execut	ion Log	Paramet	ters			
Genera	al					🏹 E	dit	Delete	
Procedu	re name								

Approved procedures can be selected and added to a profile.

•

6.6.5. Add a Procedure to a Profile / Procedure Schedules

Note. Procedure schedules for both script and patch procedures are actually configured in the 'Profiles' area. You



set a schedule for a procedure when you add a procedure to a profile. The 'Schedule' tab in the procedures area essentially allows you to view profiles which are scheduled to use the procedure.

To add and schedule a procedure:

- Click 'Configuration Templates' > 'Profiles'
- · Navigate to the folder containing the procedure to be edited
- · Click the profile to which you want to add a procedure
- Click 'Add Profile Section' > 'Procedures':

Endpoint Manager	≡ Profiles
DASHBOARD >	
DEVICES >	Profiles Default Profiles
A USERS >	
CONFIGURATION TEMPLATES	Create Import Export Profile Clone Profile Delete Profile Export
Profiles	OS NAME CREATED BY
Alerts	
Procedures	herculespopular22@gmail.com
Monitors	Profile or New Linux Devices herculespopular22@gmail.com
	Profile for Windows Maintenance
bbA	Profile Export Profile Clone Profile Delete Profile Make Default
Upde	
	Rating
Firew	
	rainment
Valky	sScope
	al Proxy
	its Proxy
	nt Discovering Settings
	ettings
Logg	jing Settings
Clien	It Access Control
Exter	rnal Devices Control
Mon	itore
Proc	edures
Misc	cellaneous



- This adds a 'Procedures' tab to the profile.
- Click the 'Add button' to open the procedure configuration screen

Procedures Add Order Down Order Description ORDER PROCEDURE NAME DESCRIPTION No results found. Add Existing Procedure Procedure name Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Schedule	
ORDER PROCEDURE NAME DESCRIPTION No results found. Add Existing Procedure Procedure name Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Schedule time	
No results found. Add Existing Procedure Procedure name Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Schedule Never	
Add Existing Procedure Procedure name Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Schedule Mever	TYPE
Procedure name Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Scheduled time	
Procedure name Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Scheduled time	
Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Scheduled time	×
Type approved procedure name to search among procedures To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Scheduled time	
To create a new procedure please go to Procedures Start date* 2018/11/08 Schedule Never Scheduled time	
Start date* 2018/11/08 Schedule Never Scheduled time	
2018/11/08	
Schedule Never Scheduled time	
Never Scheduled time	
Never Scheduled time	
Scheduled time	
^	
11 : 54 AM	
× ×	
Run this procedure immediately when the profile is assigned to a new device	
Skip procedure if the device is offline	

- Type the name of the procedure that you want to add to the profile (make sure you have **approved the procedure**)
- Set the date and time on which you want the procedure to start running.
- Set whether you want the procedure to run daily, weekly or monthly (or never)

- For weekly and monthly schedules, set the day of the week on which you want the procedure to run.
- Choose 'Run as system user' or 'Run as logged in user' based on the access rights required for the
 procedure to run at the endpoint.
- Click 'Add'.
- Finally, click 'Save' to apply the procedure and the schedule to the profile:

General	Procedur	es Antivirus	B HIPS					
Proce	edures						Cancel	Save
()	Add 🕟 M	love Up 🛛 🚫 M	ove Down 🛞 Remove					
	ORDER	PROCEDURE NAME	DESCRIPTION	TYPE	SCHEDULE	LAST MODIFIED BY	UPDATED AT	
			Run the script to clean follo					

• The 'Schedule' tab of the procedure interface will list all profiles which have this procedure scheduled:

General	View Procedure	Schedule	Execution Log		
			this procedure is schedul Profile Section» button, se		
PROFILE	NAME		START DATE	SCHEDULE	FINISH DATE
Profile fo	or Windows Maintenanc	e	2018/11/08	Daily	No finish date
Results per	page: 20 🗸				Displaying 1 of 1 results

Important Note: Patches that are hidden by administrators will not be executed. See **Manage OS Patches on Windows Endpoints** for more details.

6.6.6. Import / Export / Clone Procedures

Endpoint Manager allows you to export or import procedures in order to use them in profiles. The procedure files are saved in .json format. You can also clone a procedure and use it as a starting point to create a new procedure according to your requirements. Click the following links to find out more:

- Export a procedure
- Import a procedure
- Clone a procedure

To export a procedure

- Click 'Configuration Templates' > 'Procedures'
- Navigate to the folder containing the procedure to be exported
- Select the procedure and click 'Export' at the top. Please note you can export only custom procedures.

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Q Search folder	Proc	edures	\frown		
My Procedures	Create	F Import Procedure	Export Procedure	Clone	Run
		PROCEDURE NAME	ТҮРЕ	STATUS	CONTENT T
		Test Script	Custom	Approved	Script
		Calculate VAT	Custom	Created	Script
		Uninstall the CESM	Prodofined	Approved	Script

The selected procedure file will be saved in your default download location.

To import a procedure

- Click 'Configuration Templates' > 'Procedures'
- Click 'Import' at the top

Q Search folder	Procedures			
 My Procedures Predefined Procedures 	Create	Export Procedure	Clone	
	PROCEDURE NAME	ТҮРЕ	STATUS	CONTENT TO
	bility to control Wi	Predefined	Approved	
Import Procedure	¥			×
Browse Not Selected				
Your procedure will be importe	ed to «My procedures» folder.			
			Impo	rt

• Click 'Browse', navigate to the location where the procedure file is saved and click 'Open' The selected file will be displayed on the 'Import Procedure' dialog.

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Import Procedure	×
Browse 20181108-Test-Script.json	
Your procedure will be imported to «My procedures» folder.	
	Import

Click 'Import'

The procedure is imported and placed in the 'My Procedures' folder. The procedure name is prefixed with "Imported" to distinguish it from other procedures.

You can save the procedure in a different folder by editing it. See Edit / Delete Procedures for guidance on this.

Proc	edures						
50	₽₽	Ţ		7	50	Ę	Q
Create	Import Procedure	Export Procedure	Clone	Run	Delete Procedure	Export	Y
	PROCEDURE NAME	ТҮРЕ	STATUS	CONTENT T	YPE CREATED	BY	CREATED ON▼
\bigcirc	[Imported] Test Script	Custom	Created	Script	hercules	юр	2018/11/08 1
	Test Script	Custom	Approved	Script	hercules	юр	2018/11/05 0
	Calculate VAT	Custom	Created	Script	hercules	юр	2018/11/05 0

Please note you have to **approve** the imported procedure in order to deploy it in profiles. To change the name and/or edit the script, click on the procedure and then click 'Edit' button on the right. Refer to the section 'Edit / Delete **Procedures**' for more details.

To clone a procedure

- Click 'Configuration Templates' > 'Procedures'
- Navigate to the folder containing the procedure to be cloned
- Select the procedure and click 'Clone' at the top.

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My Procedures				\frown	
Predefined Procedures	- G	₹ Ç	₹ _	- ^E	*⊡
Predenned Procedures	Create	Import Procedure	Export Procedur	e Clone	Rur
	P	ROCEDURE NAME	ТҮРЕ	STATUS	CONT
		est Script	Custom	Approved	Script
	C C	alculate VAT	Custom	Created	Script
Clone Procedure					×
Clone Procedure					×
					×
Procedure name *					×
Procedure name * [cloned] Test Script					×
Procedure name * [cloned] Test Script					×
Procedure name * [cloned] Test Script Description					×

- Change the name, if required, and provide an appropriate description of the profile
- · Select the folder in which the cloned procedure is to be placed
- Click 'Clone'

The procedure will be added to the list:

Proc	edures						
ت	₽₽₽	T,	D ²	7	1 <u>3</u> 💾		Q
Create	Import Procedure	Export Procedure	Clone	Run Dele	te Procedure Expo	rt	Y
	PROCEDURE NAME	TYPE	STATUS	CONTENT TYPE	CREATED BY	CREATED ON	
	[cloned] Test Script	Custom	Approved	Script	herculespop	2018/11/08 1	
	Test Script	Custom	Approved	Script	herculespop	2018/11/ 05 0	
	Calculate VAT	Custom	Created	Script	herculespop	2018/11/05 0	
	Uninstall the CESM	Predefined	Approved	Script		2018/11/01 0	

Please note the status of the cloned procedure will be same as that of the procedure that was cloned. For example, if the status was approved then the cloned procedure will also be of the same status.

6.6.7. Change Alert Settings

Endpoint Manager is capable of issuing alerts when procedures fail to execute as intended. You can set the type of alert shown while you are creating a new procedure, or by editing an existing procedure. Please note you can only select alerts that are already created in the 'Alerts' interface ('Configuration Templates' > 'Alerts'). See 'Manage Alerts' for more details.

To change alert settings

- Click 'Configuration Templates' > 'Procedures'
- · Navigate to the folder containing the procedure to be configured for alert
- Click the name of the procedure to open its details interface and select the 'General' tab.
- Click 'Edit' on the top right



Test Scri	ipt								
₽,		ė ⁿ	≅ □		1	73		70	
Export Procedu	re	Clone	Run	Ready to	Review	Approve	Decline	Delete Procedure	
General	View	Procedure	Sch	edule	Execu	tion Log	Paramete	rs	
Genera	1							🙁 Cancel	Save
Procedure	e name	*				7			
Test S	cript								
Descriptio	n					7			
Folder					/	2			
- Finan	nce Scr	ripts			~				
🔳 Use a	alert se	ettings wh	en the pr	ocedure f	ails				
Use alert	setting	s when the p	rocedure	fails		-			
Defaul	t Alert								

- Make sure the 'Use alert settings when the procedure fails' check box is selected.
- The current alert name is displayed in the 'Use alert settings when the procedure fails' field.
- Start typing the name of the alert in the field and choose the alert to be used, from the options.
- Click 'Save' at the top right.

6.6.8. Directly Apply Procedures to Devices

Procedures can be run on devices in three ways:

- From the procedures interface
- From the device list interface
- Via profiles according to a schedule

The following section describes how to apply procedures to devices from the procedures interface.

To run a procedure

- Click 'Configuration Templates' > 'Procedures'
- Browse the folder tree to locate the procedure you want to run
- Select the procedure and click 'Run' at the top. Note only **approved** procedures can be applied. You can also run only one procedure at a time.

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D My Procedures	200	300	300		
Predefined Procedures	- G	₹₽	Ē	Ċ.	()
	Create	Import Procedure	Export Procedure	Clone	Run Del
	PRC	DCEDURE NAME	ТҮРЕ	STATUS	CONTENT TYPE
	Gree	et User	custom	Approved	Script
	🗌 Fina	ance Dept script	Custom	Approved	Script
		Age Calculator	Custom	Ready to	Script
Run Procedure					×
Run Procedure					
Run Procedure					
Run Procedure Run procedure «Greet U					
Run Procedure Run procedure «Greet U All devices	lser» over:				
Run Procedure Run procedure «Greet L All devices Selected device(s) Type device name to su Run as LocalSystem 	Jser» over: earch among devic				
Run Procedure Run procedure «Greet U	Jser» over: earch among devic				

- · Choose the execution options from the 'Run Procedure' dialog
 - All Devices The procedure will be applied to all Windows devices.
 - Selected Device(s) Enter the name of the Windows device partly or fully and select the device from the list. You can also add multiple devices in the field.

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Run Procedure		×
Run procedure «Greet User» over:		
All devicesSelected device(s)		
DESKTOP-TTPO9PR × Impala Computer ×		
 Run as LocalSystem User Run as Logged in User 		
	Configure parameters	Run

- To remove a device from the list, click 'X' beside it.
- Run as Local System User / Run as Logged in user Choose the user account with which the
 procedure has to be run on the devices based on the access rights required for the procedure.
 Please note this option will not be available for a patch procedure.
- Configure parameters Available only for script procedures defined with variable parameters and allows you to enter the values for them.

To specify values for variable parameters

Click 'Configure Parameters'

Procedure parameters	×
Message (Data Type: String)	
Use default value	
Hi, How are you?	
Title (Data Type: String) Use default value	
Message from Administrator	
	Close Apply



The list of variable parameters will appear with their default values pre-populated in their respective text fields

- Enter the value for each parameter in the respective text box
- · Select 'Use default value' if you want the default value to be applied for a parameter,
- Click 'Apply'

Tip: You can skip this step If you want to use default values for all parameters. For more info on default values, see **Create a Custom Procedure**.

• Click the 'Run' button in the 'Run Procedure' dialog.

The procedure is applied to the selected devices. A confirmation dialog is displayed and the process is logged. You can view the details in the **Procedure Logs** screen for script procedures. **Patch procedure logs** will be available in the respective patch procedure itself.

Important Note: Patches that are hidden by administrators will not be executed. See **Manage OS Patches on Windows Endpoints** for more details.



6.6.9. Edit / Delete Procedures

Custom procedures can be edited or deleted according to your requirements. Please note that if you edit a script procedure, it has to be **approved** again. Predefined procedures cannot be edited or deleted. Click the following links for more details:

- Edit / delete a script procedure
- Edit / delete a patch procedure

Edit a Script Procedure

- Click 'Configuration Templates' > 'Procedures'
- · Browse the folder tree to locate the procedure you want to edit
- · Click on the script procedure to open its details interface
- Select a tab and click 'Edit' to modify its details

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Test Script						
₹	ė ³	₽□				™
Export Procedure	Clone	Run	Ready to Review	Approve	Decline	Delete Procedure
General Vie	ew Procedure	Sche	edule Exect	ution Log	Paramete	rs
General						F Edit 🗊 Delete
Procedure nam Test Script Description	ne					
L. Nederact						
General						Save
Procedure name *	t					
Test Script						
Description						
			1			
Folder						
My Procedure	es.		~			
Use alert se	ttings when t	the proce	dure fails			
Use alert settings	when the proc	edure fails				
Default Alert						

General

• Modify the procedure name, description, the folder in which the procedure is saved and / or alert settings

View Procedure

· Modify the script and / or add another existing procedure

Execution Log

Displays the results of the script procedure that was executed, both manually and scheduled on Windows profiles.

Schedule

The schedule can be edited only in the profile(s) that the procedure is deployed.

• Click the 'Schedule' tab to view the profile(s) in which the procedure is being used.

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General	View Procedure	Schedule	Execution Log	Parameters	
а	his page lists the pro profile in the profiles ress the «Add buttor	s section, press			a new schedule, select ct «Procedures» and
PROFILE	NAME		START DA	re schedul	E FINISH DATE
New Pro	file for Dyanora		2018/11/0	8 Daily	No finish date
Finance	Department Windows C	omputers	2018/11/0	8 Daily	No finish date
Results per	page: 20 🗸				Displaying 1-2 of 2 results

Click the profile for which you want to edit the procedure schedule.

The selected profile is displayed with the 'Procedure' tab opened.

• Click 'Edit' at the top right.

Finance Department Windows Computers 鷗 Ë, Ë, Ð E. Add Profile Export Profile Clone Profile Delete Profile Make Default Section General Procedures Monitors Antivirus Firewall Containment Valkyrie Procedures Edit (+) Add Move Up Move Down Remove PROCEDURE AST MODIFIED BY ORDER DESCRIPTION TYPE SCHEDULE UPDATE NAME General Procedures Moni Antivirus Valkyrie Firewall Containment Save Procedures ω Add Move Up Move Down 💌 Remove PROCEDURE ORDER DESCRIPTION TYPE SCHEDULE LAST MODIFIED BY t NAME This script Generate the helps you to third party get all third patch report party patch for all report of EM devices 1 from selected Script Never 2 from EM as devices or all a single devices as report and one report send an eand sends an mail e-mail 2 Test Script Script Daily herculespopular22@gmail.com .

You can find the procedure type, whether script or patch, under the 'Type' column.

- Click the schedule parameter under 'Schedule' column beside the procedure.
- The 'Procedure Schedule' dialog will be displayed. Modify the schedule per your requirement and click 'Set'.
- The schedule will be modified for the profile. Please note the procedure schedule will impact only the profile that you modify. The schedule for the same procedure deployed onto other profiles will not be affected.

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Click 'Save'

The changes for the procedure will be saved. The following image shows the same procedure having different schedule for different profiles.

Test Script							
Export Procedure	Clone	₽ Run	Ready to Review	Approve	Decline	E Procedure	
General Vi	ew Procedure	Sche	dule Execut	tion Log	Parameter	s	
(i) This page lists the profiles on which this procedure is scheduled. To create a new schedule, select a profile in the profiles section, press the «Add Profile Section» button, select «Procedures» and press the «Add button».							
PROFILE NAM	ΛE			STA	RT DATE	SCHEDULE	FINISH DATE
New Profile for	or Dyanora			201	8/11/08	Weekly	No finish date
Finance Depa	rtment Window	s Compute	rs	201	8/11/08	Daily	No finish date
Results per page	20 🗸						Displaying 1-2 of 2 results

To delete a script procedure

- Click 'Configuration Templates' > 'Procedures'
- Browse the folder tree to locate the procedure you want to edit
- Select the check box beside the procedure and click 'Delete Procedure' at the top.
- · Alternatively, click on the procedure that you want to delete and click 'Delete' on the top right

Delete Procedure		×
Do you really want to delete procedure «Test Script»?		
	Confirm	Cancel

• Click 'Confirm'. The procedure is removed from the list as well as from the profiles on which it is deployed.

Edit a patch procedure

- Click 'Configuration Templates' > 'Procedures'
- · Browse the folder tree to locate the procedure you want to edit

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- · Click on the patch procedure to open its details interface
- Select a tab and click 'Edit' to modify its details

Patch for D	yanora				
Export Procedure	Clone	₽ Run	E Delete Procedure		
General Ex	ecution Optic	ons	Restart Control	Schedule	Execution Log
General					Edit Delete
Patch procedu Patch for Dyar Description					
General Ex	ecution Optio	ons	Restart Control	Schedule	Execution Log
General					Save
Patch procedu Patch for I Description					
Folder My Proced		nen the r	procedure fails	~	
Defaul					

General

 Modify the procedure name, description, the folder in which the procedure is saved and / or alert settings

Execution Options

- Modify the patch options. See the explanation of **Procedure Configuration** in **Create a Custom Procedure** for help on configuring the execution settings.
- Click 'Save' when done

Modify the restart options for the endpoint after the procedure has run successfully. • General Execution Options Restart Control Schedule Execution Log **Restart Control** 前 Delete Edi Restart option Suppress the reboot Restart Control 🙁 Cancel Save Restart option Force the reboot in 5 minutes Suppress the reboot 1 O Warn about the reboot and let users postpone it Reboot message Enter a message that the device owner will get before the reboot

- See the explanation of Procedure Configuration in Create a Custom Procedure for help on configuring the restart control settings.
- Click 'Save' when done

Execution Log

Restart Control

Displays the results of the patch procedure that was executed, both manually and scheduled on Windows profiles.

Schedule

The schedule can be edited only in the profile(s) that the procedure is deployed.

• Click the 'Schedule' tab to view the profile(s) in which the procedure is being used.

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General	Execution Options	Restart Control Sched	ule Execution Log	
		les on which this procedure i he «Add Profile Section» butt		w schedule, select a profile in I press the «Add button».
PROFILE	ENAME	START DATE	SCHEDULE	FINISH DATE
New Pro	file for Dyanora	2018/11/08	Weekly	No finish date
Results per	page: 20 🗸			Displaying 1 of 1 resul

• Click the profile for which you want to edit the procedure schedule.

The selected profile is displayed with the 'Procedure' tab opened.

• Click 'Edit' at the top right.

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-						
New F	Profile for D	yanora				
•	E.	Ľ.	Ē	Ē,		
dd Profile	Export Profile	Clone Profile	Delete Profile	— ₽ Make Default		
Section						
neral P	rocedures	Remote Cont	rol			
		_	_	_		\frown
Procedur	es					💎 Edit
🕂 Add	🔿 Move Up	🕑 Move [own 🙁 Re	move		
00050	PROCEDURE	DECODIDT				
ORDER	NAME	DESCRIPTI	ON TYPE	SCHEDULE	LAST MODIFIED BY	UPDATED AT
1	Patch for		Patch	Weekly	herculespopular22@g	gmail.com 2018/11/08 02:46:27
	Dyanora					
2	Test Script		Script	Weekly	herculespopular22@g	mail.com 2018/11/08 02:11:46
Procedur	es 🖉					🙁 Cancel 📔 Save
_		_				
🕀 Add	🚫 Move Up	🕑 Move 🛛	own 🙁 Re	move		
	PROCE	DURE	CRIPTION 1	TYPE SCHEE	DULE LAST MODIFIE	ED BY UPDATED AT
	NAME	DES	CRIFTION	SCHEL	IAST MODIFIE	OFDATED AT
□ 1	Patch f		F	Patch Weekly	/ herculespopul	ar22@gmail.com 2018/11/08 0
	Dyanor	a				
	Test So	ript	5	Script Weekly	/ herculespopul	ar22@gmail.com 2018/11/08 0
2						

You can find the procedure type, whether script or patch, under the 'Type' column.

- Click the schedule parameter under 'Schedule' column beside the patch procedure.
- The 'Procedure Schedule' dialog will be displayed. Modify the schedule per your requirement and click 'Set'.
- The schedule will be modified for the profile. Please note the procedure schedule will be impacted for only the profile that you modify. The schedule for the same procedure deployed onto other profiles will not be affected.
- Click 'Save'

The changes for the patch procedure will be saved.

Important Note: Patches that are hidden by administrators will not be executed. See **Manage OS Patches on Windows Endpoints** for more details.



6.6.10. View Procedure Results

The results of any script or patch procedure can be viewed in the 'Logs' section of a device. The results can also be found in the 'Procedures' interface.

Click the following links for more details:

- View script procedure results
- View patch procedure results

View Script Procedure Results

Script procedure logs can be viewed in two places - 'Device List' and 'Procedures'.

- Devices > Device List > Open a Windows device > Logs > Script Logs Shows results for all scripts run on a selected device.
- Configuration Templates > Procedures > Open a script procedure > Execution Log Shows all devices on which a selected script was run.

Script procedures results on a particular device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - Select a company or a group to view just their devices
 Or
 - Select 'Show all' to view every device enrolled to EM
- Click on any Windows device then select the 'Logs' tab in the device details interface
- Select the 'Script Logs' sub-tab

This opens the list of all script procedures run on the device. You can also see the scripts start/end time and whether or not it was successful.

• To view the results of a particular procedure, click 'Details' in the row of the procedure name.

For example, the 'Get Running Processes' results show a list of all processes found running on the device, under the 'Statuses' tab:

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Endpoint Manag	Ior	■ Device List				×		
							1	
DASHBOARD	>			9.				
DEVICES		, D Search group na	ime	< ² 6	Group Manag	jement	Device Mana	agement
Device List		Show all		Ģ			20	2
Bulk Installation Pa	ickage	🕞 🖨 Default Custon	ner			e Des	-	-
USERS	,			Enroll De	vice Remote 0	ontroi Hen	note Tools Ru BETA	n Procedu
		Fortfork	egional II	0.8	earch for devi	Ces		
CONFIGURATION TE	MPLATES	+ Saddle and Per	dala					
APPLICATION STOR	E >		udis		OS NAM	ſE▲	ACT	IVE COMP
APPLICATIONS	2							
SECURITY SUB-SYS	TEMP					DESKTO_	🤹 👧	AV BYG
J SECORITI SUB-STS	TEMS					0		
SETTINGS)		-		•	DESKTO	A0	AV FW
	K							
DESKTOP-D80SV	JJ							
Dwner: Herald								
ē, 🖸	\$7	20 (D	(C 🖬	26	h	G	
- <u>-</u>				-	• •	2	-0	
anage Profiles Remote Co				Device Reb			elete Device N	None
anage Profiles Remote Co	ontrol Remote 1			h Device Reb mation	oot Export 1 Config		elete Device N	fore
anage Profiles Remote C							elete Device N	lore
lanage Profiles Remote C	(BETA] Package	es Infor	nation	Config	ration		
] Package	es Infor		Config			
entory File List	Exported Cor) Package ingurations MSI Installation	is Infor State Pat	nation ch Managemen	Config t Antivirus	scan Histor	ry Groups	
entory File List	Exported Cor) Package ingurations MSI Installation	es Infor	nation ch Managemen	Config	scan Histor		
entory File List	Exported Cor) Package ingurations MSI Installation	s Infon State Pat Third Party Pat	nation Ich Managemen Ich Logs In	Config t Antivirus stallation Logs	scan Histor	ry Groups tallation Logs	
entory File List Alert Logs Monitor	Exported Cor) Package ingurations MSI Installation	s Infon State Pat Third Party Pat	nation Ich Managemen Ich Logs in EXECUTED	Config t Antivirus stallation Logs FINISHED	scan Histor	ry Groups	
entory File List Alert Logs Monitor	Exported Cor) Package figurations MSI Installation cript Logs Patch Logs	s Infon State Pat Third Party Pat	nation Ich Managemen Ich Logs In	Config t Antivirus stallation Logs	scan Histor Uninst	ry Groups tallation Logs LAST	s (Log
entory File List Nert Logs Monitor	Exported Cor) Package figurations MSI Installation cript Logs Patch Logs	s Infon State Pat Third Party Pat	nation Ich Managemen Ich Logs in EXECUTED	Config t Antivirus stallation Logs FINISHED	scan Histor Uninst	ry Groups tallation Logs LAST STATUS UPDATE	s (Log
entory File List Vert Logs Monitor PROCEDURE NAME	Exported Cor ing Logs S STARTED AT 2018/11/09) Package figurations MSI Installation cript Logs Patch Logs	s Infon State Pat Third Party Pat	nation Ich Managemen Ich Logs in EXECUTED BY Logged in	Config t Antivirus stallation Logs FINISHED	scan Histor Uninst	ry Groups tallation Logs LAST STATUS	s (Log
entory File List Alert Logs Monitor PROCEDURE NAME Delete the temporary lies for the Edge	Exported Cor) Package ifigurations MSI Installation cript Logs Patch Logs STARTED BY	ss Infon State Pat Third Party Pat LAUNCH TYPE	nation Ich Management Ich Logs In EXECUTED BY	Config t Antivirus stallation Logs FINISHED AT	Scan Histor Uninst STATUS	ry Groups tallation Logs LAST STATUS UPDATE 2018/11/09	e Con
entory File List Alert Logs Monitor PROCEDURE NAME Delete the temporary files for the Edge	Exported Cor ing Logs S STARTED AT 2018/11/09) Package ifigurations MSI Installation cript Logs Patch Logs STARTED BY	ss Infon State Pat Third Party Pat LAUNCH TYPE	nation Ich Managemen Ich Logs in EXECUTED BY Logged in	Configuent t Antivirus stallation Logs FINISHED AT Unknown	Scan Histor Uninst STATUS	ry Groups tallation Logs LAST STATUS UPDATE 2018/11/09 09:49:10 AM	e Con
entory File List Nert Logs Monitor PROCEDURE NAME Delete the temporary likes for the Edge wowser	Exported Cor ing Logs S STARTED AT 2018/11/09 09:49:10 AM 2018/11/09) Package Ifigurations MSI Installation cript Logs Patch Logs STARTED BY herculespopular22@gmail.com	ss Infon State Pat Third Party Pat LAUNCH TYPE	nation ch Management tch Logs In EXECUTED BY Logged in User LocalSystem	Config t Antivirus stallation Logs FINISHED AT	aration Scan Histor Uninst STATUS Started Finished	ry Groups tallation Logs LAST STATUS UPDATE 2018/11/09 09:49:10	e Con
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 The 'Tickets' tab lists tickets which were created as a result of a failed procedure. Clicking the ticket link will open the ticket in service desk.



Result of a selected script on all devices

- Click 'Configuration Templates' > 'Procedures'.
- · Browse the folder tree to locate the procedure for which you want to view results
- · Click the name of the script procedure then click 'Execution Log'.
- · This will open a list of all devices on which the script was run
- · Click 'Details' in the row of a device to view specific results:

Endpoint Manager			*
DASHBOARD >			
DEVICES >	Q Search folder	Procedures	
A USERS	⁽¹⁾ My Procedures ⁽²⁾ Predefined Procedures	i Di	n -
CONFIGURATION TEMPLATES	— ⊕ □ Application	Create Import Procedure Exp	ort Procedure Clone
Profiles Alerts		PROCEDURE NAME -	TYPE STATUS
Procedures	—⊕ [™] Monitors	Get the MAC addres	Predefined Approved
Monitors			
APPLICATION STORE	Hetwork Deployment	Get software invent	Predefined Approved
APPLICATIONS >	E C Reports	Get lookest diek driv	Predefined Approved Predefined
Get running processes	Approve Decline Delete Procedure		
DEVICE NAME STARTED AT STARTED E • DESKTO_ 2018/11/09 10:33:51 AM herculespon	oular22@gmail.com Run Over Logged in User 20	118/11/09 10:33:53 AM Finished success 20	AST STATUS UPDATE DETAILS 018/11/09 10:33:53 AM Datais 018/11/09 09:48:40 AM Details
General View Procedure Sch	edule Execution Log		
Statuses Clickets			🔶 Back
TIME STATUS	ADDITIONAL INFORMATION		
2018/11/09 10:33:53 AM Finished su	CCESS STDOUT:		
	Image Name System Idle Process System Registry smss.exe csrss.exe wininit.exe csrss.exe wininit.exe csrss.exe winlogon.exe		Mem Usage 0 8 K 0 136 K 0 4,584 K 0 832 K 0 4,152 K 0 5,408 K 1 4,180 K 1 7,696 K
	services.exe	576 Services	0 9,496 K

The 'Tickets' section lists tickets which were created as a result of a failed procedure. Click the ticket link to
open the ticket in service desk.



View Patch Procedure Results

Patch procedure results can be viewed from two interfaces - 'Device List' and 'Procedures'.

- Devices > Device List > Open a Windows device > Logs > Patch Logs Displays results for all patch procedures run on a selected device.
- Configuration Templates > Procedures > Open a patch procedure > Execution Log Displays all devices on which the selected patch procedure was run.

Patch procedure results on a specific device

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab in the top-menu
 - · Select a company or a group to view just their devices

Or

- Select 'Show all' to view every device enrolled to EM
- Click on any Windows device then select the 'Logs' tab in the device details interface
- Select the 'Patch Logs' sub-tab

This opens a list of all patch procedures run on the device along with their status (success/failure), their start/finish time and time of last status update.

• Click 'Details' in the row of a procedure to view specific results:

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Endpoint Manager	≡ Device List	· ·	
DASHBOARD >			
DEVICES V	Search group name	Group Management	Device Management
Device List Bulk Installation Package	면 Show all		
<u>A</u> USERS >	 Image: Perfault Customer Image: Image: Image:	Enroll Device Remote Control F	Remote Tools Run Procedure
CONFIGURATION TEMPLATES >	 	Ø Search for devices	
APPLICATION STORE >		OS NAME A	ACTIVE COMPONE
APPLICATIONS >			
SECURITY SUB-SYSTEMS			
<pre> SETTINGS > </pre>		DESKTO	AG AV FW CO
Manage Profiles Remote Control Remote Too Performance Control Remote Too PETA	Packages Information		Delete Device More
Alert Logs Monitoring Logs Scr	ipt Logs Patch Logs Third Party Patch L	ogs Installation Logs Unir	nstallation Logs
PROCEDURE STARTED AT	STARTED BY LAUNCH FINISHED AT TYPE	STATUS LAST	STATUS DETAILS
Patch maintenance 2018/11/08 08:17:05 PM	Patch Run Over 2018/11/08 (Procedure PM	08:21:02 Finished 2018, success PM	/11/01 12:35:07
Security patch 2018/10/31 12:35:00 updates PM	Patch Scheduled 2018/10/31 Procedure PM	12:35:06 Failed 2018, PM	/10/31 12:35:06 Details
Log Detail Statuses Tickets			🔶 Back
TIME STATUS	ADDITIONAL INFORMATION		
2018/11/08 08:21:02 PM Finished succe	SS PROCEDURE operation completed succ	essfully. 1 patch(es) success	fully installed.
2018/11/08 08:17:23 PM In progress	Title: 2018-09 Update for Windows	10 Version 1803 for x64-based	Systems (KB4100347), KI ▶
2018/11/08 08:17:05 PM In progress	Resolving Procedure is completed s	uccesfully.	
2018/11/08 08:17:05 PM Started	Resolving Procedure is started.		
			nson of a social statement of A social to

• The 'Tickets' tab shows tickets which were created as a result of a failed procedure. Click the ticket link to open the ticket in service desk.

Results of a selected patch procedure run on all devices



- Click 'Configuration Templates' > 'Procedures'.
- Click the name of the patch procedure under 'My Procedures' or 'Predefined Procedures' for which you want to view results, then click 'Execution Log' in the Procedure Details screen.
- This will open a list of all devices on which the script procedure was run along with their status (success/failure), their start/finish time and time of last status update.
- Click 'Details' in the row of a device to view specific results:

Endpoint Manager	≡ Procedures		License
	Q Search folder		Clone STATUS
		Install security and Predefined Predefined Predefined Predefined	Approved Approved Approved
Export Procedure Clone Run General Execution Options R	Delete Procedure	>	
2018/11/08	arculespopular22@gmail.com Run Over 2018	SHED AT STATUS LAST STATUS UPDATE 8/11/08 Finished 2018/11/08 08:21:02 PM 1:02 PM success 2018/11/08 08:21:02 PM	DETAILS

Log Detail 🗲		+ Back
Statuses Tickets		🔶 Back
TIME	STATUS	ADDITIONAL INFORMATION
2018/11/08 08:21:02 PM	Finished success	PROCEDURE operation completed successfully. 1 patch(es) successfully installed.
2018/11/08 08:17:23 PM	In progress	Title: 2018-09 Update for Windows 10 Version 1803 for x64-based Systems (KB4100347), KB
2018/11/08 08:17:05 PM	In progress	Resolving Procedure is completed succesfully.
2018/11/08 08:17:05 PM	Started	Resolving Procedure is started.

• The 'Tickets' tab displays a list of tickets which were created as a result of a failed procedure. Clicking the ticket link will open the ticket in service desk.



6.7. Manage Monitors

- Click 'Configuration Templates' > 'Monitors'
- A monitor is a script which tracks events on your network and takes specific actions if its conditions are met.
 For example, 'Alert me when a USB removable disk is connected to the system', or 'Create a log entry if CPU usage goes above 75% for a certain length of time'.
- You can also tell a monitor to run a procedure to remediate issues.
- Monitors are added to configuration profiles which are in-turn applied to a devices. To add a monitor to a
 profile:
 - Click 'Configuration Templates' > 'Profiles'
 - Open an existing profile or create a new profile
 - Click 'Add Profile Section' > 'Monitoring'
- A single monitor can be used in multiple profiles. A single profile can include any number of monitors.
- There are two types of monitors:
 - 'Predefined Monitors' A collection of monitors from Comodo which perform a range of useful monitoring tasks. These can be used in custom profiles, but cannot be edited.
 - 'My Monitors' Custom monitors that you create. These monitors are saved in the 'My Monitors' folder. You can add custom sub-folders as required.

To view and manage monitors

• Click 'Configuration Templates' > 'Monitors'

Endpoint Manager	E Monitors	License Option
DASHBOARD >		
DEVICES >	Search folder name	Monitors
<u>A</u> USERS >	😼 Show all	₽
CONFIGURATION TEMPLATES V	* 🗅 My Monitors	Create Monitor Delete Monitor
Profiles	Predefined Monitors	
Alerts		MONITOR NAME TYPE
Procedures		Second Monitor [Custom
Monitors		
APPLICATION STORE		For Finance Dept Custom
APPLICATIONS >		Recommended P Predefined

Monitors - Column Descriptions					
Column Heading	Description				
Monitor Name	 The monitor label. Click the name of a monitor view and edit it. See View and Edit Monitors for more details. 				
Туре	Whether the monitor is custom or predefined				
Number of profiles	The quantity of profiles on which the monitor is active.				

Created by	 The administrator who created the custom monitor. Click the admin name to view their details. See View User Details if you need help with this.
Created On	Date and time the monitor was created.
Last Modified By	The admin who most recently edited the monitor.
Updated On	Date and time the monitor was last edited.
	Controls
Create Monitor	Configure a new monitor. See 'Create Monitors and Add them to Profiles' for help with this.
Delete Monitor	Remove monitors from Endpoint Manager. Use the check-boxes to select the monitors to be removed.

• Click any column header to sort the items in ascending/descending order of entries in that column.

LAST MC	Monitor name		4	· -
Never mo	Monitor nam	e		
	Туре			
hercules	All			~
	# of profiles			
	# of profiles			
	Created by			
	Created by			
	Created on			
	From		То	
	Last modified b	у		
	Last modified	d by		
	Updated on			
	From		То	
			2	

· Click the funnel icon to search for monitors based on the filter parameters

To add a sub folder to the My Monitors folder

Click 'Configuration Templates' > 'Monitors'

•

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Place your mouse on the 'My Monitors' folder and click '+' beside it

Search folder name	Monitors		
요 Show all	B		
C My Monitors	Create Monitor Delete Monitor		
Predefined Monitors		TYPE	# OF PROFILE
Add Folder			×
Add Folder Name *			×
			×
Name *			×

• Enter a name for the sub-folder to be created in the 'Add Folder' dialog and click 'Add'

The sub-folder will be created and displayed under 'My Monitors'

Search folder name	Monitors		
😕 Show all	E		
- 🗅 My Monitors	Create Monitor Delete Monitor		
—□ Default			
— D Finance Department Wi	MONITOR NAME	TYPE	# OF PROFILES
— 🗇 Monitoring Important D	No results found.		
□ Sales Dept Monitors			
□ Suspicious Files Folder			
Predefined Monitors			

You can also add sub-folders of a sub-folder. Once sub folders are created, you can create new monitors inside them. See **Create Monitors and Add them to Profiles** for more details about adding new monitors.

To edit the name of a sub folder under 'My Monitors'

- Click 'Configuration Templates' > 'Monitors'
- Expand the 'My Monitors' folder (or the parent folder of the sub-folder)
- · Place your mouse on the sub folder and click the pencil symbol beside it
- Enter a new name for the sub folder in the 'Edit Folder' dialog and click 'Save'

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© Search folder name	Monitors
😕 Show all	
– 🗅 My Monitors	Create Monitor Delete Monitor
Default	
- Finance Department Wi	MONITOR NAME TYPE # OF PROFILES
— D Monitoring Important D	No results found.
— 🗆 Sales Dept Monitors	
□ Suspicious Files Folder	
C Drodefined Menitore	
Edit Folder	×
Name *	
Sales Dept Monitors	
	Save

The folder name will be updated in folder tree.

To delete a sub folder under 'My Monitors' folder

- Click 'Configuration Templates' > 'Monitors'
- Expand the 'My Monitors' folder (or the parent folder of the sub-folder)
- Place your mouse on the sub folder and click the trash can symbol beside it

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Search folder name	Monitors
😕 Show all	
– 🗅 My Monitors	Create Monitor Delete Monitor
Default	MONITOR NAME TYPE # OF PROFILES
— D Monitoring Important D	No results found.
Sales Dept Monitors Suspicious Files Folder Decidefined Menitore	
Delete Monitor Folder	×
Do you really want to delete fold	ler «Sales Dept Monitors»?
	Confirm Cancel

• Click 'Confirm' to remove the folder.

Note: You can only remove empty folders. Delete all monitors in a folder before attempting to delete the folder.

Following sections explain more about:

- Create Monitors and Add them to Profiles
- View and Edit Monitors

6.7.1. Create Monitors and Add them to Profiles

- Custom monitors let you track and respond to events of your choice. For example, you may create a monitor to alert you if disk space on a device falls below 10%.
 - You can set a monitor to run a specific procedure if its conditions are met. For example, you could run a disk-defrag procedure when free space falls below a set threshold.
 - You can also configure custom responses by modifying the alert template on the procedure. Click 'Configuration Templates' > 'Alerts' to view alert templates.
- Monitors are assigned to security profiles which are, in-turn, deployed to devices. You need to add a 'Monitors' section to a profile to add your monitor.

To create a new monitor

- Click 'Configuration Templates' > 'Monitors'
- Click 'Create Monitors'

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O Search folder name	Monitors			
면 Show all				
+ 🗅 My Monitors	Create Monitor Delete Monito	or		
Predefined Monitors		ТҮРЕ	# OF PROFILES	CREATE
Create monitor			×	
Monitor name *				ercules
Monitor name				1440
Description				
Folder *				
My Monitors				
			Create	

- Enter a label and description and specify where to save the new monitor. You can create new sub-folders under 'My Monitors' if required.
- Click 'Create'.
- You will be taken to the monitor configuration screen:

Select the Edit name, View configuration parameters to be View logs of events description and profiles to which the related to the monitor monitored and alert settings monitor is added configure thresholds For inance Dept Computers 💾 Save \mathbf{x} Conditions Profiles Logs General Monitor name * For Finance Dept Computers Description To observe performance of computers in Finance Dept Folder My Monitors Trigger an alert if All of the conditions are met Use alert settings Default Alert Auto remediation on alert Take no action O Run below procedure

- Modify the basic settings if required
 - Trigger an alert if Select when the alert should be sent to the admins. The options are to send alert when all conditions are met and any of the conditions are met.
 - Use Alert Settings Select the alert that should be generated. The alert types that are listed here
 are predefined in the 'Alerts' section. See 'Manage Alerts' for more details.
 - Auto Remediation on alert Allows you the choice whether to take automatic remedial action for the alert or not.
 - Taken no action No remedial action will be taken automatically. You can, of course, manually take appropriate action for the generated alert.
 - Run below procedure If selected, the 'Procedure' field allows you to select the procedure that should be run automatically for the alert on the affected endpoints. The procedures listed here are predefined in the **Procedures** interface. Type first few characters of the procedure and select an appropriate procedure from the list.
- Click 'Save' to save your settings.
- Click the 'Conditions' tab followed by 'Edit' to define thresholds for various monitoring parameters that when breached will trigger alerts per the setting:
- Click 'Add Condition'

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For Finance Dept Computers		
General Conditions Profiles	s Logs	
Add Condition - Remove Co	ondition	
Performance	TARGET	CONDITIONS
File size		
Folder size		
Disk		
Service		
Process		
Event		
ТСР		
Ping		
Web page		
Device status		
Custom script		
Security Events CCS 10.6+		
Security Client Events CCS 10.6+		

• Choose the parameter to be monitored

Monitoring Conditions			
Parameter	Description		
Performance	Checks the usage of CPU, RAM and Network on devices and triggers an alert if the specified conditions are met.		
File Size	Checks the disk space used by a specified file on target computers and triggers an alert when the specified conditions are met.		
Folder Size	Checks the disk space used by a directory/folder on target computers and triggers an alert when the specified conditions are met.		
Disk	Checks for free disk space and free space change and triggers an alert whenever the specified conditions are met.		
Service	Checks periodically if the specified services are matching the required status, for example, running, stopped, not started.		
Process	Checks if the specified processes are running or not running and triggers an alert if the conditions are met.		
Event	Checks Windows Event logs on devices. Alerts are generated when a Windows event with the specified Event Sources, Event IDs or Event level occurs.		

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Endpoint Manager - Administrator Guide

TCP	Periodically attempts to connect to a specified host name / IP:port. The monitor can be configured to trigger alerts based on connection status. This allows to check for services that should be running and trigger alerts when ports that should be closed become open.
Ping	Pings a device using its hostname, fully qualified domain name or an IP Address to check the connectivity and triggers an alert depending on the selected option.
Web Page	Checks periodically the web page content of the specified URL and triggers an alert if the specified conditions are met.
Device Status	Checks that the device has sent a message to confirm that it is online and connected. Each device sends its online status message to the EM server every minute and monitoring period is set as 3 minutes. If EM does not receive the online status from a device continuously for 3 minutes, the device's state is set to 'Offline'.
Custom Script	Allows you to create custom monitoring conditions as required. See Add Custom Monitoring Conditions for more details.
Security Events	Monitors events related to malware and unknown applications, including:
	- 'Malware detected and handled'
	- 'Malware detected and not handled'
	- 'Unknown application running inside the container'
	You can request an alert or run a procedure if the condition is met.
Security Client Events	Comodo Client Security is the end-point application which provides the antivirus, firewall and containment services. This monitor checks for any failure in those processes, including:
	'Antivirus scan failed or interrupted'
	'Antivirus database update failed'
	You can request an alert or run a procedure if the condition is met.

Define the thresholds and conditions for the selected parameter. The conditions depend on the type of
parameter selected. For example, if you select 'Disk' monitor, you have the option to specify conditions for
three values. See the example image below.

Add Condition for «Disk»						×
 Parameter Free space left on the system drive Free space left on all the drives Free space change on the system drive 						
Condition		Value *				
Less than	~	10		%	~	
Note: The monitor checks the amount of free space	ce on the selec	sted drive(s) and trig	igers ai	n alert if the sp	pecified	conditions are met.
						Create

• Click 'Create' after specifying the conditions.



The monitoring parameters added for the profile will be listed.

Add Custom Monitoring Conditions

- Endpoint Manager allows you to create custom monitoring conditions per your business requirements.
- You can create custom scripts in python and can define which items should be monitored. You can also
 define the threshold before an alert is generated.
- Predefined script monitors are available in 'Configuration Templates' > 'Procedures' > 'Predefined Procedures' > 'Monitors'. These are available for selection in the 'Add Existing Procedure' >'Procedure name' drop-down.

To add a custom script to the monitoring conditions

Choose 'Custom script' from the 'Add Condition' drop-down

The 'Add Condition for Custom Script' form will appear.

Add Condition for «Custom script»	×
Name *	
Description	
Check Period	665
5 min V	
Note:	
 Please use "alert(1)" to turn on the condition (trigger an alert) and alert(0) to turn off the condition (disable a Please define the custom alert text inside the code with "Print" function* 	an alert)
Add Existing Procedure 🔨 Undo 🌈 Redo	
1 # The script is a template to check UAC status on device.	^
2 import os 3 import sys	
4 import winreq	
5	
6 def alert(arg):	
<pre>7 sys.stderr.write("%d%d%d" % (arg, arg, arg))</pre>	
8	
9 # Please use "alert(1)" to turn on the monitor(trigger an alert)	
10 # Please use "alert(0)" to turn off the monitor(disable an alert)	
11 # Please do not change above block and write your script below 12	
13 def checkUAC():	
14 if 'PROGRAMW6432' in os.environ.keys():	~
15 <	>
Cre	ate

Form Flomont	Description
Form Element	Description
Name	Enter a label for the script, shortly describing its purpose.
Description	Enter a short description for the script.
Check Period	Enter the time interval at which the script should be run on the endpoints to which the profile is applied.
	Tip : Ensure that the check period is greater than the time taken for the script to run and complete, so that successive executions of the script do not overlap.
Script	Enter your Python script in the text editor.
	Note 1 : Keep the following lines intact in the editor and enter your script below these:
	import os
	<pre>import sys</pre>
	<pre>import _winreg</pre>
	<pre>def alert(arg):</pre>
	<pre>sys.stderr.write("%d%d%d" % (arg, arg, arg))</pre>
	<pre># Please use "alert(1)" to turn on the monitor(trigger an</pre>
	alert)
	<pre># Please use "alert(0)" to turn off the monitor(disable an alert)</pre>
	# Please do not change above block and write your script
	below
	Note 2 : If you want an alert to be triggered if the condition is met set the argument to alert parameter to 1, i.e. 'alert(1)'.
	If you do not want an alert to be triggered even if the condition is met set the argumen to alert parameter to 0, i.e. 'alert(0)'.
	Note 3 : You can import an existing script procedure in EM if you wish to create a new custom monitor script using an existing procedure as a starting point. To do so, click 'Add Existing Procedure' and choose the existing procedure. Edit the script as per your requirement as per Note 1. For more details on procedures, See Manage Procedures
	Note 4: In addition to the above, Python script monitors by the Comodo development team are available in the 'Monitors' folder under 'Configuration Templates' > 'Procedure > 'Predefined Procedures'. You can add these predefined scripts by clicking 'Add Existing Procedure' and select from the 'Procedure name' drop-down and can be used directly without any changes. Feel free to try any script that fits your needs. If you require custom scripts from Comodo, please raise a request at https://c1forum.comodo.com/forum/script-library/4460-script-requests-comodo- will-write-the-scripts-for-you-for-free

• Complete the form and click 'Create'

The custom monitor will be added to the list of monitors under the 'Monitors' tab.

• Repeat the process for adding more parameters and monitoring conditions.

For Finance Dept Computers		😢 Cancel 📔 Save
General Conditions Profiles Logs		
Add Condition - Remove Condition		
ТҮРЕ	TARGET	CONDITIONS
Custom script	Monitor Script	Python script procedure
Free space left on the system drive		Less than 10%
Folder size	c:\Users	More than 1000MB

- To remove a monitoring condition, select the check box beside it and click 'Remove Condition' at the top.
- Click 'Save' to apply your changes.

The monitor will be available for selection under 'Add Monitor' when configuring the 'Monitors' section of a Windows profile. For more details on adding a monitor to a profile, see **Monitor Settings**.

6.7.2. View and Edit Monitors

The 'Monitors' interface lets you view the details of any monitor and edit custom monitors as required. You can also view profiles on which the monitor is active and log of events where the monitor was triggered.

To view details of a monitor

- Click 'Configuration Templates' > 'Monitors'
- · Click the name of a monitor to open its configuration interface

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O Search folder name	Monitors			
B Show all				
+ D My Monitors	Create Monitor Delete Monitor			
Predefined Monitors				
	MONITOR NAME	TYPE	# OF PROFILES	CREAT
	For Finance Dept	Sustom	0	
	CPU1 [Finance D	Custom	3	
For Finance Dept Computers General Conditions Profile	rs Logs		Fdit	Delete
General Conditions Profile	rs Logs		Fdit	ີ∭ Delete
General Conditions Profile Monitor name For Finance Dept Computers	rs Logs		Edit	Delete
General Conditions Profile Monitor name For Finance Dept Computers Description	5		Folit	Delete
General Conditions Profile Monitor name For Finance Dept Computers Description To observe performance of computers i Folder	5		P Edit	Delete
General Conditions Profile Monitor name For Finance Dept Computers Description To observe performance of computers i Folder My Monitors Trigger an alert if	5		Folit	Delete
General Conditions Profile Monitor name For Finance Dept Computers Description To observe performance of computers i Folder My Monitors Trigger an alert if	5		Fdit	Delete
General Conditions Profile Monitor name For Finance Dept Computers For Finance Dept Computers Description To observe performance of computers i Folder My Monitors Trigger an alert if All of the conditions are met Use alert settings	5		Folit	Delete
General Conditions Profile Monitor name For Finance Dept Computers For Finance Dept Computers Description To observe performance of computers i Folder My Monitors Trigger an alert if All of the conditions are met Use alert settings	5		Fdit	Delete
General Conditions Profile Monitor name For Finance Dept Computers Description To observe performance of computers i	5		For the second s	Delete

The configuration interface allows your to:

- Edit the general settings and monitoring conditions
- View the configuration profiles to which the monitor is applied
- View the log of events related to the monitor. from all devices on which profiles with the monitor is applied

Edit a Monitor

- Click 'Configuration Templates' > 'Monitors'
- Click the name of a monitor. The configuration interface for the monitor will open at the 'General' tab by default.
- Click the 'Edit' button to modify the details.

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For Finance Dept Computers	Edit Delete
General Conditions Profiles Logs	
Monitor name For Finance Dept Computers Description To observe performance of computers in Finance Dept	
For Finance Dept Computers	Save
General Conditions Profiles Logs	
Monitor name *	
For Finance Dept Computers	
Description	
To observe performance of computers in Finance Dept	
Folder	
My Monitors	
Trigger an alert if	
All of the conditions are met	
Use alert settings	
Default Alert	
Auto remediation on alert Take no action Run below procedure 	

- 'General' Tab Modify the name, description, folder in which the monitor is saved, alert settings and more
- · 'Conditions' tab Modify the monitored parameters and threshold conditions
- See Create Monitors and Add them to Profiles for more details on the options that can be configured under 'General' and 'Conditions' tabs
- Click 'Save' for your changes to take effect
- The changes will effect on the profiles to which the monitor is applied.

View configuration profiles using a monitor

- Click 'Configuration Templates' > 'Monitors'
- Click the name of a monitor to open its configuration interface.

Click the 'Profiles' tab.

•

For Finan	ice Dept Com	puters			Edit	Delete
General	Conditions	Profiles	Logs			
PROFILE NAME				OWNER		
Finance Department Windows Computers				herculespopular22@gmail.	com	
Suspicious Files Folder for John				herculespopular22@gmail.	com	

Monitors - Column Descriptions					
Column Heading Description					
Profile Name	The profile to which the monitor has been applied.				
	 Click the profile name to open its configuration screen. See Edit Configuration Profiles for more details. 				
Owner	The administrator who created the profile.				
	Click the name to view their user details. See View the details of the User for more details.				

View Monitor Logs

- Click 'Configuration Templates' > 'Monitors'
- Click the name of a monitor to open its configuration interface.
- Click the 'Logs' tab.

The 'Logs' tab shows the list of monitoring conditions breach events identified from all devices on which the monitor is applied as a part on profile, in effect in the devices.

Second Monitor [Suspicious Files Folder for John]							
General Conditions Profiles Log							
DEVICE NAME	STATUS	HIT COUNT	LAST HIT TIME	LAST UPDATE TIME	DETAILS		
DESKTOP-Q74RLIJ	On	245	2018/07/27 12:15:31 PM	2018/07/27 12:15:31 PM	Details		
Device removed	Off	494	2018/07/20 10:42:18 AM	2018/07/20 10:42:31 AM	Details		

Monitoring Logs - Table of Column Descriptions						
Column Heading Description						
Device Name	 The Windows device on which the violation occurred. Click the name of the device to open its device details interface. See Manage Windows Devices for more details. 					

Status	Whether or not the monitor is currently active on the device.			
Hit Count	The number of times the monitoring condition was breached during the last 24 hours.			
Last Hit Time	Date and time the monitoring rule was last broken.			
Last Update Time	Date and time when the information was last refreshed.			
Details	 Click the 'Details' link to view a log of the breach events. See View Details of Monitor Logs (given below) for more information. 			

View Details of Monitor Logs

• Click the 'Details' link to view the details of the violations of the monitoring conditions:

	uspicious r	iles Folder f	or John]	🌮 Edit	Delete
General Condition	s Profile	s Logs			
DEVICE NAME	STATUS	HIT COUNT	LAST HIT TIME	LAST UPDATE TIME	DETAILS
DESKTOP-Q74RLIJ	On	245	2018/07/27 12:15:31 PM	2018/07/27 12:15:31 PM	Details
Device removed	Off	494	2018/07/20 10:42:18 AM	2018/07/20 10:42:31 447	Details
Second Monitor [Suspicious	Files Folder	for John	📝 Edit	🗊 Delete
		/			
General Conditio	ns Profil	es Logs			
		-			
Log Detail 🖌					🗕 Back
Log Detail K					- Back
					- Back
	STATU	s additio	NAL INFORMATION		- Back
Statuses Tickets	STATU		NALINFORMATION nitor : Threshold is GREA	TER THAN 5 % - Usage is	
Statuses Tickets	STATU: M ON	CPU Mor		_	84 %
Statuses Tickets TIME 2018/07/27 12:15:31 PM	STATU: M ON M OFF	CPU Mor	nitor : Threshold is GREA	TER THAN 5 % - Usage is	84 % 3 %

Details are displayed under two tabs:

Statuses - Displays the date and time when the breach occurred. Also displays details of the monitoring rule that was broken.

Monitoring Log Details - 'Statuses' tab - Table of Column Descriptions					
Column Heading	Description				



Time	Date and time of the breach event.
Status	Displays the status of the device at the time of monitoring.
Additional Information	Provides details on the condition monitored and the breach

Tickets - Shows any service desk tickets raised for the alert.

Log Detail		- Back
Statuses Tickets		
LINK	STATUS	CREATED ON
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=104	Open	2018/07/27 11:44:04 AM
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=104	Closed	2018/07/27 11:43:58 AM
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=103	Open	2018/07/27 11:43:46 AM
https://frontfork.staging.servicedesk.comodo.com/scp/tickets.php?id=103	Closed	2018/07/27 11:43:39 AM

Monitoring Log Details - 'Tickets' tab - Table of Column Descriptions					
Column Heading Description					
Link	A link to the support ticket created for the breach event.Click the link to open the ticket in service desk.				
Status	Indicates whether the ticket is open or closed				
Created On	The date and time at which the ticket was created.				

7.Applications

· Click 'Applications' in the left-menu to view this section.

Endpoint Manager provides visibility and control over the applications which are installed on user devices.

The 'Applications' tab contains the following areas:

- Mobile Applications View all applications installed on enrolled Android and iOS devices, and block any
 malicious applications that are identified. Once blacklisted, the application is not allowed to run on any
 device on which it is installed.
- **Patch Management** View a constantly updated list of OS and third party application patches available for managed Windows devices. The area lets you install or uninstall patches/updates as required.
- Global Software Inventory View all applications installed on your Windows devices. You can uninstall unwanted applications as required.

Endpoint Manager		≡ Mobile App	lications	License Options	⑦ 名 Logout (he	erculespopular22@gmail.com)
DASHBOARD	>					
DEVICES	>	₽.	1	追 同		
A USERS	>	Add to Black Lis	t Remove from Black List	Apply Changes to Export All Devices		T
	>	OS	NAME	PACKAGE	# OF DEVICES	VERDICT
	>	•	Test your Antivirus	avtester.underdog1987	1	Allowed
	\sim	□ ∰	Kingsoft Office	cn.wps.moffice_i18n	1	Allowed
Mobile Applications		□ 🚔	AccuWeather	com.accuweather.andr	1	Allowed
Patch Management Global Software Inventory		□ ∰	AndroZip	com.agilesoftresource	1	Allowed
SECURITY SUB-SYSTEMS	>		Prime Video	com.amazon.avod.third	0	Allowed
SETTINGS	>		Amazon Kindle	com.amazon.kindle	0	Allowed

Click the following links for more help:

- View Applications Installed on Android and iOS Devices
 - Blacklist and Whitelist Applications
- Patch Management
- View and Manage Applications Installed on Windows Devices

7.1. View Applications Installed on Android and iOS Devices

- Click 'Applications' > 'Mobile Applications'
- The 'Mobile Applications' interface shows all applications identified on enrolled Android and iOS devices. Additional details include the package name and the number of devices on which the app was found.
- · You can blacklist application you feel are suspicious or not trustworthy.
- Blacklisted apps are blocked on any devices on which they are installed. EM also prevents them from being installed on other devices in future.

To access the 'Mobile Applications' interface

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Click 'Applications' > 'Mobile Applications'.

•

Black List		Ny Changes to Export All Devices		Y
OS	NAME 🔺	PACKAGE	# OF DEVICES 🔻	VERDICT
ı∰ı	ES File Explorer	com.estrongs.android.pop	2	Allowed
H	SHAREit	com.lenovo.anyshare.gps	2	Allowed
ı ۳	AccuWeather	com.accuweather.android	1	Allowed
ı∰ı	Amazon Shopping	in.amazon.mShop.android.s	1	Allowed
ı m ı	App Lock	com.comodo.cisme.applock	1	Allowed
ı∰ı	Backup	com.comodo.cisme.backup	1	Allowed
			1	

	Mobile Applications - Column Descriptions
Column Heading	Description
OS	The operating system on which the application runs.
Name	Application label.
	 Click the name of an application to open the 'Devices' interface that shows the list of only those devices on which the app is installed.
	This enables you to identify the devices using the application.
Package	The package name or identifier of the package from which the app was installed.
Number of Devices	The count of devices on which the app is found installed.
Verdict	Whether the application is allowed or blacklisted.
	Controls
Add to Black List	Add selected applications to the global black list.
	Blacklisted apps are blocked on any devices on which they are installed. EM also prevents them from being installed on other devices in future.
	See Blacklist and Whitelist Applications the next section for more details.
Remove from Black List	Release an application from the global black list.
	Released applications are allowed to run on devices on which they are installed. They can also be installed in future on other devices.
	See Blacklist and Whitelist Applications the next section for more details.
Apply Changes to All Devices	Deploy the new settings to all devices.
Export	Save the list of mobile applications as a comma separated values (CSV) file. See Export the List of Mobile Applications for more details.



Sorting, Search and Filter Options

- Click any column header to sort the items based on alphabetical order of entries in that column.
- Click the funnel button **T** at the right end to open filter options.

DICT	os
wed	Android
wed	ios
wed	Name
wed	Package
wed	
wed	Number of devices
wed	Verdict
wed	Allowed
	Blocked

Export the List of Mobile Applications

Export the list of mobile applications to a .csv file as follows:

- Click 'Applications' > 'Mobile Applications'.
- Click the 'Export' button above the table then choose 'Export to CSV':

Add	to Black L	ist Remove from Black List	Apply Changes to All Devices		
	OS	NAME 🔺	PAC Export to CSV	# OF DEVICES 👻	
	中	ES File Explorer	com.estrongs.android.pop	2	
	(SHAREit	com.lenovo.anyshare.gps	2	

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

7.1.1. Blacklist and Whitelist Applications

- Click 'Applications' > 'Mobile Applications'
- The mobile applications area shows a list of applications installed on all enrolled Android and iOS devices.

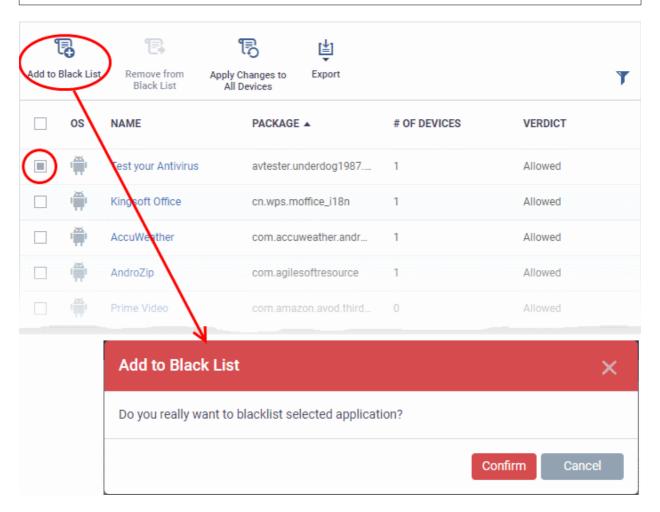


- You can review the list and decide which apps should be allowed or blocked.
- If a suspicious or malicious application is identified then it can be moved to the blacklist. This blocks the application on all devices and prevents other devices from installing the application in future.
- Blacklisted files that are subsequently found to be trustworthy can be moved to the whitelist.

To move selected apps to blacklist

- Click 'Applications' > 'Mobile Applications'.
- Select the apps to be blocked.

Tip: You can filter the list or search for a specific app by using the filter options that appear on clicking the funnel icon at the top right.



- Click 'Add to Black List' on the top.
- Click 'Confirm' in the confirmation dialog.

The selected apps will be added to the 'Black List' and their status will change to 'Blocked'. The apps will be blocked at the devices on which they are currently installed, during the next polling cycle of the device.

Click 'Apply Changes to All Devices' to instantly block the apps on the devices on which they are currently installed.

Unblocking Blacklisted Apps

 Applications that were blocked by mistake can be released from blacklist and allowed to be installed or run on the devices.

To remove trustworthy apps from blacklist

• Click 'Applications' > 'Mobile Applications'.

Select the apps with 'Blocked' status, to be whitelisted.

•

allack List	Remove from Black List	Apply Changes to All Devices			Ţ
OS	NAME	PACKAGE 🔺	# OF DEVICES	VERDICT	
(^A	Test your Antivirus	avtester.underdog1987	1	Blocked	
\	Kingsoft Office	cn.wps.moffice_i18n	1	Allowed	
ı ۳	AccuWeather	com.accuweather.andr	1	Blocked	
Å	AndroZip	com.agilesoftresource	1	Blocked	
 -					

• Click 'Remove From Black List' at the top.

The status of the apps will change to 'Allowed'. The apps will be allowed to run on the devices on which they are currently installed, during the next polling cycle of the device.

Click 'Apply Changes to All Devices' to instantly change the status of the apps in the devices and allow them to run.

7.2. Patch Management

- Click 'Applications' > 'Patch Management' to open this interface
- The patch management area lets you install OS updates and patches for 3rd party applications on managed Windows devices.
- You can also uninstall Windows updates and patches if you want to roll back to the previous version.
- All available patches are displayed by default. You can filter patches by company and device group.

Tip: This area lets you manage patches across all devices in your network. As an alternative, you can manage patches on *individual* devices by clicking 'Devices' > 'Device List' > 'Device Management' > *Click on a device* > 'Patch Management'. See **View and Manage Patches for Windows and 3rd Party Application** to find out more.

To open the 'Patch Management' interface

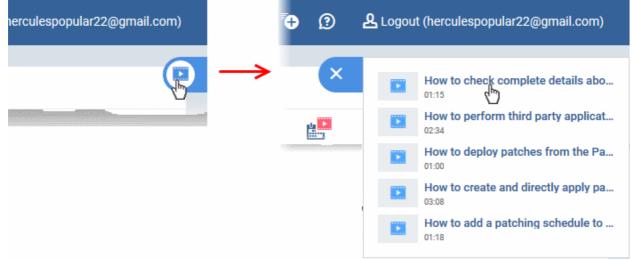
- Open Endpoint Manager
- Click 'Applications' > 'Patch Management':

Endpoint Manager		<u>Patch Management</u> / Operating System			~			Lice	nse Options	• (2)	上 Logout (herculesp	opular22@gma	ail.com)
DASHBOARD	>		, Ъ										6
DEVICES	>	Search group name	〈唱	Operating	System T	'hird Party Appli	ications						
A USERS	>	Bi Show all		<u>%</u>	6	82	82	Ē	*⊡				C
	>	 → ● Default Customer → ● Fork Springs Regional Transports 	Install	Patch(es)	Uninstall Patch(es)	Hide Patch(es)	Unhide Patch(es)	Export	Create Patch Procedure	Schedule Patch Procedure	Show hidden patch(es)	OFF	Ţ
APPLICATION STORE	>	+ 🖶 frontfork		TITLE	KB	BULLETIN	CLASSIFICATION	PRODU	UCT SEVERIT	Y REBOOT	NOT INSTALLED	INSTALLED	RELEA
	~	🛞 🖶 Saddle and Pedals		MSXML 6.0									
Mobile Applications				RTM Securit	925673	MS06-061	Security Update		Critical	Maybe	0	1	2012/0
Patch Management				(925673)									
Global Software Inventory				Update for									
SECURITY SUB-SYSTEMS	\rightarrow			Japanese Microsoft									
∯ SETTINGS	>			IME Standard Extended Dictionary (KB2734786	2734786		Definition Update			No	0	3	2015/0

The interface contains two tabs:

- **Operating System** All OS patches available for deployment through Endpoint Manager.
 - Each patch has additional details such as classification, the Windows component to which the patch applies, severity, release date, installation status and links to knowledgebase articles.
 - The interface lets you install or uninstall selected patches on multiple devices. You can also
 generate a report on overall patch status.
 - See Manage OS Patches on Windows Endpoints for more details.
- Third Party Applications All updates available for 3rd party applications installed on managed Windows
 endpoints.
 - You can update selected applications on all required endpoints. See Install 3rd Party Application Patches on Windows Endpoints for more details.
 - See **EM Supported 3rd Party Applications** for a list of applications that we support for patching.

The slider at top-right contains links to help videos on various patch management tasks:



Use the videos to quickly learn about patch deployment tasks.

View patches by company / device group

• The tree structure on the left shows all enrolled organizations and device groups:

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Patch Management / Operating System

Ø Search group name	، لو	Operating	System	Third Party Appl	
면 Show all		S <u></u>	6		
 → ● Default Customer → ● Fork Springs Regional Transports 	Install	Patch(es)	Uninstall Patch(es)	Hide Patch(es)	
- 🖶 frontfork		TITLE	KB	BULLETIN	
Default Group - frontfork O First Linux Group Running Staff Sales Staff		Security Update for Microsoft Silverlight (KB4023307	4023307 7)	7	
💿 🖶 Saddle and Pedals		MSXML 6.0 RTM Securit Update		MS06-061	

- Type a company or group name in the search field to look for a specific entity
- · Click a company name to view patches for all device groups under it
- · Click '+' beside a company to view device groups under it
- Click a device group to view patches for devices belonging to that group
- · Click 'Show all' to clear any selections and view all patches

7.2.1. Manage OS Patches on Windows Endpoints

- Click 'Applications' > 'Patch Management' > 'Operating System' tab
- The 'Operating System' tab lets you deploy and manage OS updates on Windows devices.
- Endpoint Manager checks Microsoft update servers for available Windows patches and lists them in the interface. You can deploy patches to devices as require. You can also uninstall patches from devices if required.
- The interface shows details about each patch, including patch classification, the Windows component to
 which it applies, release date, severity, previous versions, Microsoft bulletins and number of endpoints
 which require the patch.
- You can filter patches by company and device group.
- You can hide patches if you do not want to deploy them. Hidden patches will not be available for deployment in the 'Device Management' screen and will not be executed if added to a patch procedure.
- You can also generate reports on the current patch status of your Windows devices.

Manage operating system patches

- Click 'Applications' > 'Patch Management'
- Select the 'Operating System' tab
 - Select a company or group to view updates for that entity's devices Or

Select 'Show all' to view every available Windows update • , ដៃ Operating System Third Party Applications 82 82 8 Ľ**±**] ۰. ů ů \mathcal{O} 5 Uninstall Create Patch Schedule Patch Install Patch(es) Hide Patch(es) Unhide Patch(es) Export Show hidden patch(es) ON Y Patch(es) Procedure Procedure TITLE KB BULLETIN CLASSIFICATION PRODUCT SEVERITY REBOOT NOT INSTALLED INSTALLED RELEASE DATE Update for Japanese . Microsoft IME 2015/07/10 05:30:00 AM 2734786 0 Definition Update No 3 Postal Code Dictionary (KB2734786) Microsoft 4023307 2017/06/13 05:30:00 AM Silverlight Feature Pack No 0 1 (KB4023307) Update for Japanese

	'Operating System' Patch Management - Column Descriptions							
Column Heading	Description							
Title	 The descriptive name of the patch. Click the name to view patch details. See View Patch Details for more information on this interface. 							
КВ	 The knowledgebase article number that describes the patch. Click the number to view the Microsoft Knowledgebase article on the patch. 							
Bulletin	The Microsoft Bulletin number that contains details about the patch release.Click the number to view the patch bulletin.							
Classification	 The category of the patch. The possible values are: Update - Fixes a specific non-critical problem, but not a security-related bug. Definition update - Contains updates to a product's definition database. For example, an update to the virus signature database for Windows Defender. Critical Update - Fixes a specific, critical OS problem or a critical security-related bug Security update - Fixes a version specific, security related vulnerability Update rollup - Contains a collection of hotfixes, security updates, critical updates, and updates packaged together for easy deployment. These updates generally target a specific Windows component. Driver - Adds software for controlling peripherals or add-on devices that could be connected to the endpoint Feature pack - Adds new functionality distributed after an OS release. Service pack - Contains a collection of hotfixes, security updates, critical updates, updates, and additional fixes. Tool - Installs a utility or feature for a specific task or a set of tasks. Upgrades - Updates the Windows OS version on the endpoint to the latest build. 							

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Product	The Windows component to which the patch applies.
Severity	 The criticality of the patch. The possible levels are: Critical
	Important
	Low
	Moderate
	Unspecified
Reboot	Whether or not the endpoint requires a restart to complete the patch installation.
Not Installed	The number of managed endpoints on which the patch is yet to be installed.
	 Click the number to view the patch details screen at the 'Device List' tab. See the explanation of View Details of a Patch for more details on the 'Patch Details' screen.
	• The 'Device List' tab shows devices to which the patch is relevant. You can deploy the patch to those devices which need it.
	• See Install a patch on selected endpoints for more details.
Installed	The number of managed endpoints on which the patch has already been installed.
	 Click the number to view the patch details screen at the 'Device List' tab. See View Details of a Patch for more details on the 'Patch Details' screen.
	The 'Device List' tab shows devices along with the installation status of the selected patch.
	 You can select devices on which the patch is required and start the installation process. See the explanation of Install a patch on selected endpoints for more details.
Release Date	The date on which the patch was released by Microsoft.
	Controls
Install Patch(es)	Deploy selected patches to all devices on which they are yet to be installed.
	See Install selected patches on all managed endpoints at once for more details.
Uninstall Patch(es)	Remove selected patches from all devices on which they are installed.
	See Uninstall selected patches from all managed endpoints at once for more details.
Hide Patch(es)	Conceal selected patches that you do not want to be deployed onto enrolled endpoints.
	Hidden patches will not be visible in the 'Device Management' screen and will not be executed as well if added to a patch procedure.
Unhide Patch(es)	Reveal all hidden patches.
Export	Generate current patch statuses for the devices. See Generate Patch Statuses Report.
Create Patch Procedure	Takes you to the 'Procedures' interface in Endpoint Manager.

	You can use pre-defined or custom procedures to deploy patches onto your endpoints. See Manage Procedures for more details.
Schedule Patch Procedure	Takes you to the 'Profiles' interface in Endpoint Manager.
	You can add a procedure to a profile which will install your selected updates onto your endpoints. See Procedure Settings in Profiles for Windows Devices for guidance on this.
Show hidden patch(es)	Reveal all hidden patches so they can be potentially deployed.

• Click any column header to sort the items in ascending/descending order of the entries in that column.

The 'Operating System Patch Management' interface allows you to:

- View Details of a Patch
- Hide Patches
- Restore Hidden Patches
- Install selected patches on all managed endpoints at once
- Install a patch on selected endpoints
- Uninstall selected patches from all managed endpoints at once
- Search specific patches in the Patch Management interface
- Generate Patch Statuses Report

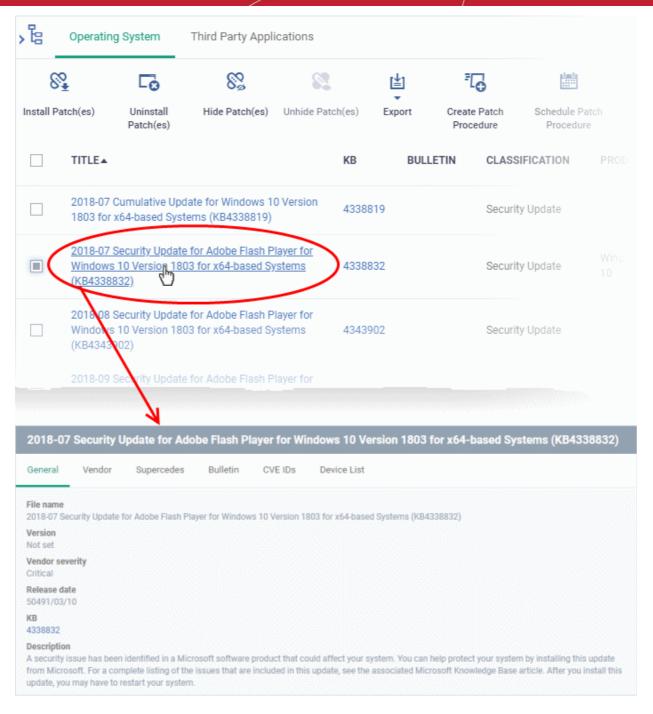
View Details of a Patch

- Click 'Applications' > 'Patch Management'
- Select the 'Operating System' tab
 - Select a company or a group to view the list of patches and Windows updates available for its devices

Or

- Select 'Show all' to view a list of all available patches and Windows updates
- Click the name of a patch to open its patch details screen.

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The details of the patch are displayed under six tabs:

- **General** Shows the name and general description, version number, severity as set by the vendor, release date and a link to the knowledgebase (KB) article for the patch release.
- Vendor Indicates the publisher of the patch, with a link to the support page for the patch from the vendor
- · Security Patch Info Contains information on previous patches that are superseded by this patch
- Bulletin Contains the Bulletin ID and a short summary of the bulletin published by the vendor for the patch
- **CVE IDs** Displays the Common Vulnerabilities and Exposure (CVE) Identity numbers set for the patch by the vendor.
- Device List The list of managed Windows endpoints with the installation status of the patch on them. You
 can install the patch on selected the endpoints from the list. See Install a patch on selected endpoints for
 more details.

Hide Patches



- · You can hide those patches that you do not want to be rolled out to the endpoints, from the list.
- These patches will also be not available for deployment from the 'Device Management' screen and will not be executed as well if added to a patch procedure.
- You can view the hidden patches by using the 'Show hidden patch(es) toggle button and install these patches onto endpoints.

To hide unwanted patch(es)

- Click 'Applications' > 'Patch Management'
- Select the 'Operating System' tab
 - Select a company or a group to view the list of patches and Windows updates available for its devices

Or

- Select 'Show all' to view a list of all available patches and Windows updates
- · Select the patch(es) you want to hide and click 'Hide Patch(es)'

›₽ -	Operating System	Third Party Applications	_	lected patch Iden.	(es) were s	uccessfully	
Install Pa	atch(es) Uninstall	Hide Patch(es) Unhide P			eate Patch	Schedule P	
	Patch(es)		КВ	F	Procedure CLASS	Procedur	PRODU
	MSXML 6.0 RTM Secur	ity Update (925673)	925673	MS06-061	Securit	ty Update	
	Update for Japanese M Dictionary (KB2734786		2734786		Definit	ion Update	
	Update for Japanese M Extended Dictionary (K		2734786		Definit	ion Update	
	Update for Japanese M Dictionary (KB2734786	ficrosoft IME Postal Code i)	2734786		Definit	ion Update	
		te for Adobe Flash Player for 803 for x64-based Systems	4338832		Securit	ty Update	Windo 10

To view the hidden patches again, you have to unhide them.

Restore Hidden Patches

 Restored patches will also be available for installation in the Device Management interface and can be added to a patch procedure.

To view hidden patches and restore them

- Click 'Applications' > 'Patch Management'
- Select the 'Operating System' tab
 - Select a company or a group to view the list of patches and Windows updates available for its devices
 - Or



- · Select 'Show all' to view a list of all available patches and Windows updates
- Slide the 'Show hidden patch(es)' button to 'On'

The hidden patches will be shown with dark gray background stripe.

· Select the hidden patch(es) from the list and click 'Unhide Patch(es)'

، د	Operating S	perating System Third Party Appl		lications				Selected patch(es) were successfully unhidden.		
8	<u>%</u>	Ľ₀	82		<u>H</u>	50	ŭ U			o
Install I	Patch(es)	Uninstall Patch(es)	Hide Patch(es)	Unhide Patch(es)		reate Patch Procedure	Schedule Patch Procedure	Show hidden patch(es)	ON	Ţ
	TITLE	КВ	BULLETIN	CLASSIFICATION	PRODUCT	SEVERITY	REBOOT	NOT INSTALLED	INSTALLED	RELEA
0	Update for Japanese Microsoft IME Postal Code Dictionary (KB2734786)	273478	6	Definition Update			No	0	3	2015/(
	Microsoft Silverlight (KB4023307)	402330	7	Feature Pack			No	0	1	2017/(

A confirmation message will be displayed. The patches will be re-added to the list.

Install patch(es) on all managed endpoints at-once

- Click 'Applications' > 'Patch Management'
- Select the 'Operating System' tab
 - Select a company or a group to view the list of patches and Windows updates available for its devices
 - Or
 - Select 'Show all' to view a list of all available patches and Windows updates
- Select the patch(es) to be installed and click 'Install Patch(es)'

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չե	Operating System	Third Party Applications					
8	°	82	8	L I	₹[ს ს 	
Install P	Patch(es) Uninstall Patch(es)	Hide Patch(es)	Unhide Patch(es) Export	Create Patcl Procedure		
	TITLE▲		KE	BU	ILLETIN CL	ASSIFICATION	PRODU
	2018-09 Update for Wi x64-based Systems (K		303 for 41	00347	Up	date	
	2018-10 Cumulative U 1803 for x64-based Sy			4462919 Security Update			
	Microsoft Silverlight (H	(B4023307)	40	23307	Fea	Feature Pack	
	MSXML 6.0 RTM Secu	rity Update (925673)	92	5673 MS	506-061 Sec	curity Update	
	Update for Adobe Nas Version CS3 for x61-1			62930	Up	date	
	Patch Install						
	Selected patch(es)	do you agree to	gree to install them?				
					Ok	Cancel	

Click 'OK' in the confirmation dialog

The command will be sent and the selected patch(es) will be installed on all endpoint(s) in which the patch is not already installed.

Install a patch on selected endpoints

- Click 'Applications' > 'Patch Management'
- Select the 'Operating System' tab
 - Select a company or a group to view the list of patches and Windows updates available for its devices

Or

- Select 'Show all' to view a list of all available patches and Windows updates
- Click the number in the 'Not Installed' column of the patch you want to install.

, ដៃ Operating System Third Party Applications 20 C 凷 曲 Install Patch(es) Export Hide Patch(es) dule Patch T hidden patch(es) TITLE KB BULLETIN CLASSIFICATION REBOOT NOT INSTALLED . INSTALLED RELEASE DATE PRODUCT SEVERITY Update for Adob Flash Player for Windows 10 Version 1803 for 4462930 Update Maybe 2018/10/09 05:30:00 AM x64-based G Systems (KB4462930) 2018-09 Update for Windows 10 Version 1803 for 4100347 2018/09/13 05:30:00 AM v64.hasad Update for Adobe Flash Player for Windows 10 Version 1803 for x64-based Systems (KB4462930) General Bulletin Vendor Supercedes CVE IDs Device List 82 Install Patch **1** DEVICE NAME OWNER NAME CUSTOMER INSTALLED DESKTOP-TTPO9PR Dyanora Default Customer No DESKTOP-D80SVJJ Yes Avanti frontfork Results per page: Displaying 1-2 of 2 results 20

The 'Patch Details' screen will open at the 'Device List' tab. The screen shows all managed devices to which the patch is relevant. The 'Installed' column tells whether the patch is installed on the device.

- Select the device(s) on which the patch is to be installed and click 'Install Patch'.
- A confirmation dialog will appear:

Patch(es) successfully added to install queue.

The command will be sent to the selected device(s) and a schedule will be created for installation of the selected patch(es) on the devices.

Uninstall selected patches from all managed endpoints at-once

You can remove unwanted patches and Windows updates from the managed devices. This is useful if you want the managed endpoints to be rolled back to the previous build version of Windows component or the OS itself.

- Click 'Applications' > 'Patch Management'
- Select the 'Operating System' tab
 - Select a company or a group to view the list of patches and Windows updates available for its devices

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Or

- Select 'Show all' to view a list of all available patches and Windows updates
- Select the patch(es) to be removed from the devices and click 'Uninstall Patch(es)'

>ե	Operatin	g System	Third Party Appl	ications			
8	<u>.</u>	G	\$	23	Ľ	₹[با <u>ال</u>
Install F	Patch(es)	Uninstall Patch(es)	Hide Patch(es)	Unhide Patch(es)	Export	Create Patch Procedure	Schedule Patch Procedure
	TITLE▲	КB	BULLETIN	CLASSIFICATION	PROE	OUCT SEVERI	TY REBOOT
	2018-09 Update for Windows 1 Version 18 for x64- based Systems (KB410034	10 ³⁰³ 4100347		Update			Maybe
	2018-10 Cumula						
		Patch Unin	istall				
				noved, do you agre ble and cannot be i		ve them? There	may be some
						ок	Cancel

- Click 'OK ' in the confirmation dialog
- The command will be sent to the selected device(s) and a schedule will be created for uninstallation of the selected patch(es) on the devices.

Uninstall command successfully added to uninstall queue. The process may take a while to be completed.

Search specific patches in the Patch Management interface

- Click the funnel icon **T** on the right to filter patches by various criteria, including by name, by KB number, by bulletin number, by classification, by severity, and by whether a restart is required for the patches.
- Start typing the name of a patch in the search field to find a particular patch. Select the patch from the search suggestions and click 'Apply'
- To display all items again, clear any filters and search criteria and click 'Apply'.
- EM returns 20 results per page when you perform a search. To increase the number of results displayed per page up to 200, click the arrow next to 'Results per page' drop-down.

Generate Patch Statuses Report

- Click 'Applications' > 'Patch Management'
- Click 'Export' at the top.

, ₽	Operating	g System	Third Party Applications						
	Patch(es)	Uninstall Patch(es)	89 Hide Patch(es)	Unhide Patch(es)	Export	Create Patch Procedure	Schedule Pato Procedure	:h	
	TITLE	r dicin(ca)		КВ	Export t	o CSV	SIFICATION	PROD	
	2018-09 Update for Windows 10 Version 1803 for x64-based Systems (KB4100347)			303 for 410	4100347 Update				
			date for Windows 10 tems (KB4462919)	0 Version 446	2919	Secu	rity Update		

- The CSV file will be available in 'Dashboard' > 'Reports'
- See 'Reports' in 'Dashboard' for how to view and download reports.

7.2.2. Install 3rd Party Application Patches on Windows Endpoints

- Click 'Applications' > 'Patch Management' > 'Third Party Applications'.
- This area lets you apply patches and updates to 3rd party applications on Windows devices.
- The interface lists all available patches along with details such as patch category, vendor name, and the number of devices which require the patch.
- You can filter patches by company and device group.
- You can hide those applications that you do not want to update.
 - Hidden applications will also not be available for update from the 'Device Management' screen. They
 will also be skipped if named in a patch procedure.
 - Click 'Show hidden patch(es)' to view hidden items.

To open the 'Third Party Applications' interface

- Click 'Applications' > 'Patch Management'
- Select the 'Third Party Applications' tab
 - Select a company or a group to view the list of third party application patches and updates available for its devices

Or

• Select 'Show all' to view a list of all available third party application patches and updates

Coperating System Third Party Applications			ations				C	
8	<u>0</u>	82	82	50	1-1 			Ø
Install P	atch(es)	Hide Patch(es)	Unhide Patch(es)	Create Patch Procedure	Schedule Patch Procedure	More		Y
	NAME	VE	NDOR	CATEGORY	INSTALLE	D DEVICES	UPGRADABLE DEVICE	S
	Zoom	Zo	om	Other	1		1	
	Snagit	Te	chSmith Corporation	Other	1		1	
	Mozilla	Firefox Mo	ozilla	Web Browsers	5 1		1	

- Each row shows the name of the software that needs to be updated. It also shows you how many devices have the software installed and how many of those require the update.
- You can apply updates to all devices or to individual devices:
 - Patch All Use the check-boxes on the left to choose the software you want to patch. Click 'Install Patches' to apply the update to all devices which require patching.
 - Patch Individual Click the number in the 'Upgradable Devices' row > Select the devices you want to update > Click 'Install Patches'

	Third Party Applications Table - Column Descriptions					
Column Heading	Description					
Name	 The label of the software. Click the name to view application details. See View Details of an Application for more details. 					
Vendor	The software publisher.					
Category	The type of the application. Possible values include: Comodo Products Runtime applications Web Browsers Utilities Messaging File Compression utilities Developer Tools Documents Online Storage Other					
Installed Devices	Total number of devices on which the application is installed. This figure includes devices with patched and unpatched versions of the software.					
Upgradable Devices	Number of devices which need to be patched because they are using an older version					



	of the software.
	Controls
Install Patch(es)	Allows you to install the patches/updates.
Hide Patch(es)	Allows you to hide selected patches that you do not want to update. Hidden patches will not be available for deployment on the 'Device Management' screen and will not be executed as well if added to a patch procedure .
Unhide Patch(es)	Allows you to unlock hidden patches.
Create Patch Procedure	Takes you to the 'Procedures' interface in Endpoint Manager. You can use pre-defined procedures or create custom procedures to deploy patches on to managed Windows endpoints. See Manage Procedures for more details.
Schedule Patch Procedure	Takes you to the 'Profiles' interface in Endpoint Manager. You create new or edit an existing Windows profile and add/edit the 'Procedures' component in it to create a schedule for running a patch installation procedure on endpoints on which the profile is active. See Procedure Settings in Profiles for Windows Devices for guidance on this.
Show hidden patch(es)	Allows you to view hidden patches and, if required, install them on endpoints. Use the toggle button to hide / view hidden applications.

- Click any column header to sort items in ascending/descending order of entries in that column.
- Click the funnel icon **Y** on the right to search for applications by name, vendor and/or category.
- See 'EM Supported 3rd Party Applications' for a full list of supported 3rd party applications.

The 'Patch Management' > 'Third Party Applications' interface allows you to:

- View Details of an Application
- Hide Applications
- Restore Hidden Applications
- Update selected applications on all upgradable devices at once
- Update an application on selected devices

View Details of an Application

- Click 'Applications' > 'Patch Management'
- Select the 'Third Party Applications' tab
 - Select a company or a group to view the list of third party application patches and updates available for its devices

Or

- Select 'Show all' to view a list of all available third party application patches and updates
- Click the name of any application to open its application details screen

Ŀ	Operating) System	Third Party Applica	tions				
8	0 *±	82	82	50		i i		
nstall P	atch(es) H	ide Patch(es)	Unhide Patch(es)	Create Patch Procedure		le Patch edure	Show hidde	n patch(es)
	NAME .	v	ENDOR	CATEG	ORY	INSTALLE	DEVICES	UPGRADA
	Mozilla	refox N	lozilla	Web Bro	owsers	1		1
	Snagit	7 T	echSmith Corporation	Other		1		1
Na Mo Ve	cation Info me ozilla Firefox ndor ozilla	Device	List					
Cat	tegory b Browsers							

The details of the application are displayed under two tabs:

- General Displays the name, software publisher and the category of the application.
- **Device List** Displays the list of managed devices on which the application is installed, with the details like the installed version, installation path and the device owner. You can update the application on the devices where required from this screen. See **Update an Application On Selected Devices** for more details.

Hide Applications

- You can hide those applications that you do not want to update
- These applications will also be not available for update from the 'Device Management' screen and will not be executed as well if added to a patch procedure.
- You can view the hidden applications by using the 'Show hidden patch(es) toggle button and update these applications on selected on devices.

To hide upgradable applications

- Click 'Applications' > 'Patch Management'
- Select the 'Third Party Applications' tab
 - Select a company or a group to view the list of third party application patches and updates available for its devices

Or

- Select 'Show all' to view a list of all available third party application patches and updates
- Select the application(s) to be hidden from the list and click 'Hide Patch(es)'

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<mark>،</mark> لا	Operating System	Third Party Applica	tions Sele	cted patch(es	s) were succes	ssfully hidden
Install P	r ((es) Unhide Patch(es)	Create Patch Scher	dule Patch		
	NAME	VENDOR	Procedure Pro	INSTALLE	Show hidde D DEVICES	n patch(es)
	Mozilla Firefox	Mozilla	Web Browsers	1		1
	Snagit	TechSmith Corporation	Other	1		1
	Zoom	Zoom	Other	1		1

A confirmation is displayed. The selected applications are hidden from the list.

- · To view the hidden applications, use the 'Show hidden patch(es)' switch on the top right
- To re-add the hidden applications to the list, you have to **unhide** them.

Restore Hidden Applications

- You can make the hidden applications to be re-added to the 'Third Party Applications' interface.
- Restored applications will also be available for being updated from the **Device Management** interface and can be added to a **patch procedure**.

To view hidden upgradable applications and restore them

- Click 'Applications' > 'Patch Management'
- Select the 'Third Party Applications' tab
 - Select a company or a group to view the list of third party application patches and updates available for its devices

Or

- Select 'Show all' to view a list of all available third party application patches and updates
- Slide the 'Show hidden patch(es)' button to 'On'

The hidden applications will be shown with dark gray background stripe.

• Select the hidden patch(es) from the list and click 'Unhide Patch(es)'

›₽	Operating System	Third Party Application	IS	Selected patch	n(es) were successfully unhidd
Install Par			eate Patch Schedule rocedure Proce	e Patch Show bidde	n patch(es) ON
	NAME	VENDOR	CATEGORY	INSTALLED DEVICES	UPGRADABLE DEVICES
	Mozilla Firefox	Mozilla	Web Browsers	1	1
	Snagit	TechSmith Corporation	Other	1	1
	Zoom	Zoom	Other	1	1

A confirmation is displayed. The applications are re-added to the list.

Update Selected Applications on All Upgradable Devices at once

- Click 'Applications' > 'Patch Management'
- Select the 'Third Party Applications' tab
 - Select a company or a group to view the list of third party application patches and updates available for its devices
 - Or
 - Select 'Show all' to view a list of all available third party application patches and updates
 - Select the application(s) to be updated, click 'Install Patch(es)' and choose 'Update to Latest Version'

<mark>≻</mark> 6	Operating System	n Third Party Applicat	ions		pdate to the Latest Version» command ha		
8	§ 82	23	6		ç	C	
Install P	Patch(es) Hide Patch	n(es) Unhide Patch(es)		ule Patch cedure	Show hidden patch(es) ON	Y	
Unda	ate to the Latest V	ereinn					
oput		R	CATEGORY	INSTALLE	D DEVICES UPGRADABLE DEVICES		
	Mozilla Firefox	Mozilla	CATEGORY Web Browsers	INSTALLE	D DEVICES UPGRADABLE DEVICES		
	<u>(</u>	R		INSTALLE	D DEVICES UPGRADABLE DEVICES 1 1 1		

A command is sent to Communication Client (CC) on the devices to commence the update.

- Once the command is received, CC checks whether the update has already been downloaded by other devices in the network.
 - If the update is available, CC establishes a peer-to-peer network with the device and downloads the patch. This reduces bandwidth usage as the update is downloaded from the local network.
 - If the update is not available on any devices in the local network, CC downloads the update from the EM patch portal.

Update an Application on Selected Devices

- Click 'Applications' > 'Patch Management'
- Select the 'Third Party Applications' tab
 - Select a company or a group to view the list of third party application patches and updates available for its devices

Or

- Select 'Show all' to view a list of all available third party application patches and updates
- Click the number in the 'Upgradable Devices' column of the application to be updated

្ធដ Operating System Third Party Applications 82 10 C Ш Install Patch(es) Hide Patch(es) Unhide Patch(es) Create Patch Schedule Patch Show hidden patch(es) Y Procedure Procedure NAME VENDOR CATEGORY INSTALLED DEVICES UPGRADABLE DEVICES Microsoft Silverlight Other 2 Microsoft Corporation Application Info Device List 💦 Install patch(es) 🚽 VERSION ΡΔΤΗ DEVICE OWNER NAME DESKTOP-D80S.. 4.1.10111.0 c:\Program Files (x86)\Microsoft Silverlight\ Avanti

The application details screen will appear with the 'Device List' tab open, with a list of devices on which the application can be updated.

- Select the device(s) on which the application is to be updated
- Click 'Install patch(es)' and choose 'Update to Latest Version'

A command will be sent to the endpoint(s) to schedule installation of the patch/update the application to the latest version.

Command «Update to the Latest Version» successfully sent

A command is sent to Communication Client (CC) on the devices to commence the update.

- Once the command is received, CC checks whether the update has already been downloaded by other devices in the network.
 - If the update is available, CC establishes a peer-to-peer network with the device and downloads the patch. This reduces bandwidth usage as the update is downloaded from the local network.
 - If the update is not available on any devices in the local network, CC downloads the update from the EM patch portal.

7.2.2.1. EM Supported 3rd Party Applications

The following table provides the names of third party applications that can be updated on enrolled Windows endpoints:

Glary Utilities PRO

- 7-Zip
- ActivePresenter

ActiveState Komodo Edit

- GlassWire
 - GlobalMapper
- PicPick
- PKZIP for Windows
- Plantronics Hub Software



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- Adblock Plus for IE
- Adobe Acrobat Reader DC
- Adobe AIR
- Adobe Digital Editions
- Adobe Flash Player ActiveX
- Adobe Flash Player NPAPI
- Adobe Flash Player PPAPI
- Adobe Shockwave Player
- Advanced Installer
- Advanced IP Scanner
- AIMP
- AirDroid
- AirParrot
- AirServer Universal
- Ant Movie Catalog
- Ant Renamer
- AnyBurn
- AnyDVD
- AppGate Client
- AppInventor Setup
- Apple Application Support
- Apple Application Support (64-bit)
- Apple Mobile Device
 Support
- Apple Software Update
- Audacity
- Aurora Blu-ray Media Player
- Auslogics Browser Care
- Auslogics Disk Defrag
- Auslogics Duplicate File
 Finder
- Auslogics Registry Cleaner
- Auslogics Registry Defrag
- Autolt
- Avant Browser
- AVS Document Converter
- AVS Image Converter
- AVS Media Player
- AVS Video Editor

- GOM Audio
- GOM Player
- GoodSync
- Google Chrome
- Google Drive
- Google Earth
 - Google Earth Pro
- GPL Ghostscript
- grepWin
- HardCopy Pro
- HeliosPaint
- HelpNDoc Personal Edition
- HipChat
- Honeycam
- Honeyview
- HttpWatch Basic
- Hugin
- IE7Pro
- IIS
- ImgBurn
- InfoSlips ForMe Viewer
- iReport
- IrfanView
- iTunes
- IZArc
- JabraDirect
- Java(TM) Update
- Java SE Development Kit
- jing
- Jitsi
- JRE
- K-Lite Codec Pack Basic
- K-Lite Codec Pack Full
- K-Lite Codec Pack Standard
- K-Lite Mega Codec Pack
- KeePass Password Safe 1
- KeePass Password Safe 2
- Kerio Outlook Connector
- Kingsoft Office 2013

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- Plex Media Server
- PNotes.NET
- Poedit
- PotPlayer
- PrimoPDF
- PrintKey-Pro
- proCertum CardManager
- Progress Telerik Fiddler
- PSPad editor
- PuTTY release
- qBittorrent
- QTranslate
- QuickBooks Desktop File
 DoctorQuickTime 7
- RD Tabs
- Recuva
- Reflector
- RenWeb.com
- Revo Uninstaller
- Revo Uninstaller Pro
- R for Windows
- RingCentral for Windows
- RJ TextEd

RStudio

Sandboxie

SciTE Text Editor

ScreenConnect

Screenpresso

SeaMonkey

ShadowCopy

SimplySign Desktop

Slik Subversion

SmartCam

Smart Defrag

804

Silverjuke

Skype

Spark

Scribus

Safari

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- AxCrypt
- AXIS Media Control Embedded Installer
- Bandicut
- Bandizip
- Belarc Advisor
- Beyond Compare
- Bing Desktop
- BitComet
- BitLord
- Blender
- Blio
- Bluebeam Vu
- Blue Jeans
- Bullzip PDF Printer
- Cabos
- calibre
- CCleaner
- CCleanerPro
- CDBurnerXP
- Chilkat ActiveX
- Citrix Group Policy Management
- Citrix Receiver
- Citrix ShareFile Sync
- Classic Shell
- Code42 server
- CollageIt
- Collagerator
- Combined Community
 Codec Pack
- Comodo IceDragon
- Remote Control by ITarian
- Converber
- CPUID CPU-Z
- CrashPlan
- CryptoPrevent
- CrystalDiskInfo
- CutePDF Writer
- Cyberduck

- Kobo
- Krita
- LibreOffice
- Lightshot
- Linphone
- Logitech SetPoint
- LogMeIn Client
- LogMeIn Hamachi
- Malwarebytes
- MathType
- McAfee Security Scan Plus
- MediaInfo
- MediaMonkey
- Media Player Classic Home
- MeshLab_64b 2016
- Microsoft AntiXSS
- Microsoft Baseline Security Analyzer
- Microsoft Power BI Desktop
- Microsoft PowerPoint Viewer
- Microsoft Security Client
- Microsoft Silverlight
- Microsoft SQL Server 2008
 R2 Native Client
- Microsoft SQL Server 2017
 T-SQL Language Service
- Microsoft Sync Framework Runtime v1.0 SP1
- Microsoft Visio Viewer 2013
- Microsoft Visual C++ 2008
 Redistributable
- Microsoft Visual C++ 2012
 Redistributable
- Microsoft Visual C++ 2017 x86 Additional Runtime
- Microsoft Visual Studio
 Code
- Microsoft Web Deploy
- MimioStudio
- Miranda IM
- MobaXterm

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- Speccy
- Spiceworks Desktop
- SplashID Safe
- Splashtop Streamer
- Spybot Search & Destroy
- Steam
- Sticky Password
- SugarSync
- SumatraPDF
- SyncBackFree
- Synology Surveillance Station Client
- Tableau Reader
- TeamSpeak Client
- TeamViewer
- TED Notepad
- Tekla BIMsight
- TenClips
- TeraCopy
- TestNav
- TextPad
- TIBCO Jaspersoft Studio final
- TightVNC
- TomTom HOME
- TortoiseSVN
- TortoiseGit
- TOSHIBA Password Utility

TSR Watermark Image

software version - Free

Universal Extractor

VirtualCloneDrive

805

TreeSize Free

version

UltraVnc

UniPDF

Unlocker

Uplay

•

TSPrint Client

Trillian

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- D&D Interceptor
- DC++
- Defraggler
- Desktop Restore
- DisplayCAL
- DriveImage XML
- Druva inSync
- Dual Monitor Tools
- DU Meter
- Duplicate Cleaner Pro
- DVD Flick
- DYMO Label
- Easy 7-Zip
- Easy Thumbnails
- EditPad Lite
- eM Client
- eMuleTorrent
- EncryptOnClick
- EPI
- Epic Games Launcher
- EPIM-Outlook Sync
- EssentialPIM
- Evernote
- exacqVision Client
- Exact Audio Copy
- Exsate VideoExpress
- FastStone Capture
- FastStone Image Viewer
- FileZilla Client
- Firebird
- FlashGet
- Foobar
- Fotosizer
- Foxit Advanced PDF Editor
- Foxit PhantomPDF
- Foxit Reader
- FreeFixer
- Free RAR Extract Frog
- FrontMotion Firefox Community Edition (en-US)

- MongoDB
- Mozilla Firefox en-GB
- Mozilla Firefox en-US
- Mozilla Firefox ESR
- Mozilla Thunderbird
- MozyHome
- MozyPro
- Mp3tag

.

- MSXML 4.0 SP3 Parser
- Mumble
- MX5
- MyDefrag
- MySQL Connector/C
- MySQL Connector/ODBC
- MySQL Installer -Community
- MySQL Notifier
- MySQL Workbench 6.3 CE
- NeoLoad
- NetBeans IDE
- NetSetMan
- Nextcloud
- Nitro Pro
- Node.js
- NoMachine
- Notepad++
- NoteTab Light
- nPassword
- OCS Inventory NG Agent
- OpenOffice
- Opera Stable
- Oracle VM VirtualBox
- Origin
- ownCloud
- paint.net
- Pale Moon
- Parallels Client
- pCon.planner STD
 - PDF-Viewer

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- VitalSource Bookshelf
- VLC media player
- VMware Horizon Client
- VMware Player
- VMware vCenter Converter Standalone
- VNC Enterprise Edition
- VNC Server
- VNC Viewer
- VSDC Free Video Editor version
- VulkanSDK
- VyprVPN
- Waterfox
- Wave Editor
- WebStorage
- WildTangent Games App
- Winamp
- WinDjView
- Windows Live Sync

WinMerge

WinRAR

WinSCP

WinSnap

Wireshark

Wise AD Cleaner

Wise Disk Cleaner

Wise Folder Hider

Wise Force Deleter

Wise Memory Optimizer

Wise Registry Cleaner

806

XAMPP

XMind

XnConvert

Wise Care 365

WinZip

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- Windows Movie Maker
- Windows Phone app for desktop
- WinHTTrack Website Copier

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- Frontmotion Firefox
 Community Edition ESR
- FSASecureBrowser
- GetGo Download Manager
- glmageReader
- GIMP
- Git version
- Glary Utilities

- PDF-XChange Editor
- PDF24 Creator
- PDFCreator
- PDFill FREE PDF Tools
- PDFsam Basic
- PDFTools Version
 - PeaZip
- Personal Backup
- PhotoFilmStrip

- XnView
- Xvid Video Codec
- Zimbra Connector for Microsoft Outlook
- Zimbra Desktop
- ZIPI
- Zoiper
- Zoom
- Zoom Player
- Zotero

7.3. View and Manage Applications Installed on Windows Devices

- Click 'Applications' > 'Global Software Inventory'
- The global software inventory shows all applications installed on managed Windows devices.
- The interface also shows details about each application. Details include the software vendor and the number of devices on which the app is installed.
- · You can have the option to uninstall applications from all Windows devices at-once

To open the 'Global Software Inventory' interface

- Click 'Applications' > 'Global Software Inventory'
 - Select a company or group on the left to view applications installed on devices in it Or
 - Select 'Show all' to view applications on every Windows device enrolled to Endpoint Manager

Endpoint Manager			Software	Inventory Lic	ense Options 🛛 🔁 🕥	요 Logout (hercu	lespopular22@gmail.com)
DASHBOARD	>						
DEVICES	>	Ø Search group name	، β	Global Software Invent	ory		
A USERS	>	묘 Show all	1	-œ			Ţ
	>	 →		install cation(s)			
APPLICATION STORE	>	 		TITLE	APPLICATION CATEGORY	VENDOR	INSTALLED DEVICES
	\sim	💿 🖶 Saddle and Pedals		7 Zip	File Compression	Igor Pavlov	2
Mobile Applications				, L.p	The compression	igor r anor	-
Patch Management				7-Zip 9.20	N/A		1
Global Software Inventory				Acronis Backup Agent	N/A	Acronis	2
SECURITY SUB-SYSTEMS	>			Adobe AIR	Developer Tools	Adobe Systems	1
SETTINGS	>			Angry Birds	N/A	Rovio	1
				AnyDVD	Utilities	RedFox	1
				AVS Video Converter	N/A	Online Media Technologies Ltd	

	Global Software Inventory - Column Descriptions					
Column Heading	Description					
Title	 Label of the application. Click the name of an application to view its details and a list of endpoints on which it is installed. The app details screens also lets you uninstall the application from devices. See View Details of an Application for more details. 					
Application Category	The genre of the application. For example, 'Productivity', 'Security', 'Entertainment' etc.					
Vendor	The publisher of the software/application					
Installed Devices	The number of devices on which the app is installed currently.					
	Controls					
Uninstall	Uninstalls the selected application from all Windows devices at-once. See Remotely Uninstall an Application from all Devices for more details.					

The global software inventory lets you:

- View details of an application
- · Remotely uninstall an application from selected devices
- · Remotely uninstall an application from all devices

Sorting and Filtering Options

- Click any column header to sort the items in ascending or descending order
- Click the funnel button **T** at the right end to open the filter options.

			(
TEGORY	VEI	Title	
	lgo	Title	
	igo	Vendor	
		Vendor	
		Application Category	
		All	~

View Details of an Application

The 'Global Software Inventory' interface allows you to view the information about an application and the list of devices on which it is found. You can also remove the application from selected devices on which it is not required.

Note: The application details is available only for applications supported by EM. See **EM Supported 3rd Party Applications** to view the list of supported applications.

To view the details of an application

- Click 'Applications' > 'Global Software Inventory'
 - Select a company or group on the left to view applications installed on devices in it Or
 - Select 'Show all' to view applications on every Windows device enrolled to EM
- · Click on the name of a supported application to view its details

	Global Software Inventory			
6)			
Ininst	all			
	TITLE	APPLICATION CATEGORY	VENDOR	INSTALLED DEVIC
	7 Zip	File Compression	Igor Pavlov	2
	7-Zip 9.20	N/A		1
	Acronis Backup Agent	N/A	Acronis	1
	Adobe AIR	Developer Tools	Adobe Systems	1
	Advanced Installer	Other	Caphyon	1
	Angry Lirds	N/A	Rovio	1
Appli	cation Info Device List			
Na Ad De Ad cre fre cre ap Ve Ca Ca	me Ivanced Installer escription Ivanced Installer is a setup authori eates installers and software pack ea and commercial editions. It is p eating Windows Installer MSI pack plications Indor phyon tegory	ing tool which ages. It has both rimarily used for 1. ages for Windows 1. V	ersions(32bit) 5.0 4.9 4.8 4.6 4.5.2 ersions(64bit) 5.0 4.9	

The application details interface contains two tabs:

- **Application Info** General information about the application. This includes a short description of the application, the vendor, category, the available versions and more.
- **Device List** The devices on which the application was found installed. You can select the devices and uninstall the application from them.

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Applic	cation Info De	evice List		
Uninsta				
	NAME	VERSION	РАТН	DEVICE OWNER
	• DESKTOP	15.0	C:\Program Files (x86)\Caphyon\Advanced Installer 15.0\	Avanti

	Device List - Column Descriptions				
Column Heading	Description				
Name	 The label of the Windows device. Click the name of a device to open its device details interface See Manage Windows Devices for more details 				
Version	The version number of the application installed in the device				
Path	The installation location of the application				
Owner	 The device user. Click the user name to open the 'View User' interface. See View User Information for more details. 				
	Controls				
Uninstall	Allows your to remotely uninstall the application from selected Windows devices. See Uninstall a Windows Application from Selected Devices for more details.				

7.3.1. Uninstall a Windows Application from Selected Devices

The global software inventory lets you remotely remove unwanted applications from selected Windows devices.

Note: You can only remove applications which are supported by EM. See the list at **EM Supported 3rd Party Applications**.

To uninstall an application from selected devices:

- Click 'Applications' > 'Global Software Inventory'
 - Select a company or group on the left

Or

- Select 'Show all' to view applications on every enrolled device
- · Click the name of an application to open its details interface
- Click the 'Device List' tab

Appli	cation Info	Device List		
Uninsta	all			
	NAME	VERSION	РАТН	DEVICE OWNER
	DESKTOF	P 15.0	C:\Program Files (x86)\Caphyon\Advanced Installer 15.0\	Avanti

- Select the devices and click the 'Uninstall' button at the top
- An uninstall command will be sent to the selected devices.
- · You will see the following message if the software cannot be uninstalled without notifying the device user:

Notice		×
Uninstall will not be able to happen silently!. There might b client.	oe distracting pop-u	ps for the
	Proceed	Cancel

• Click 'Proceed' to continue with the uninstall.

The application will be uninstalled from the selected devices.

Tip: You can remove apps from an individual device by using the device's details page. See **View and Manage Applications Installed on a Device** for more details.

7.3.2. Uninstall a Windows Application from All Devices

The global software inventory lets you remove unwanted applications from multiple Windows devices.

Note: You can only remove applications which are supported by EM. See the list at **EM Supported 3rd Party Applications**.

To uninstall an application from all Windows devices

- Click 'Applications' > 'Global Software Inventory'
 - Select a company or group on the left
 - Or
 - Select 'Show all' to view applications on every enrolled device
- Select the application and click the 'Uninstall' button

Ъ.	Global Software Invento	ory		
5				Y
Uninsta	TITLE	APPLICATION CATEGORY	VENDOR	INSTALLED DEVICES
	7 Zip	File Compression	Igor Pavlov	2
	7-Zip 9.20	N/A		1
	Acronis Backup Agent	N/A	Acronis	1
	Adobe AIR	Developer Tools	Adobe Systems	1
	Angry Birds	N/A	Rovio	1
	AnyDVD	Utilities	RedFox	1
	AVS Video Converter	N/A	Online Media Technologies Ltd.	1

- The uninstall command is sent to all devices which have the application installed.
- You will see the following message if the software cannot be uninstalled without notifying the device user:

Notice		×
Uninstall will not be able to happen silently!. There might be client.	e distracting pop-u	ips for the
	Proceed	Cancel

• Click 'Proceed' to continue with the uninstall.

The application will be uninstalled from the selected devices.

Tip: You can uninstall an application from an individual Windows device from its Device Details interface. See View and Manage Applications Installed on a Device for more details.

8. Application Store

• The 'Application Store' is a repository of useful applications which can be pushed to iOS, Android and Windows devices.

Android and iOS Applications

- You can add both mandatory and optional apps to the repository. You can update all devices with one-click
 of the 'Inform Devices Now' button.
 - Google Play and Apple App Store Specify the app name or bundle identifier. Endpoint Manager will
 automatically fetch the app details. The device owner will be taken to the Google Play page/App Store
 page to install the app.
 - Custom 'Enterprise' applications You can also upload your own .apk (Android) or .ipa (iOS) files to the app store. The communication client on the device collects the app from Endpoint Manager and installs it.
- Apps in the repository are automatically synchronized with enrolled devices every 24 hours. Notifications
 are sent to devices if new apps are ready to be installed. You can also manually sync apps if required.
 Users will be informed if there are new apps awaiting installation.

Windows Applications

- Endpoint Manager comes with a built-in list of popular Windows applications.
- Applications can be installed on all managed devices or selected devices.
- You cannot edit or remove applications from the list

The 'Application Store' tab contains three sub tabs, iOS Store, Android Store and Windows Application Store.

Endpoint Manager		≡	iOS	Store		· · ·	Lic	ense Options	÷ 🤉	온 Logout (hercul	espopular22@gmail.com)
DASHBOARD	>										
DEVICES	>		ĺ	Ś	Δ	4		≝ 1			O
	>			interprise lication	Add App Store Application	Inform Devices Now	Delete Application	Export			Y
	>			NAME	TYPE	APPLICATION ID	SUPPO	RTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
	~			Frontfork	iOS	6 Jahrenne er	Orrest	hana Tablat	Faturation	N	0010/11/00 10:00:00 DM
iOS Store				File Browser	Enterprise	filebrowser	Smartp	hone, Tablet	Enterprise	No	2018/11/09 12:03:00 PM
Android Store Windows Application Store				Dropbox	iOS App Store	com.getdropbox.Dropbo	x Smartp	hone, Tablet	Free	No	2018/11/09 11:55:56 AM
	>			Skype							
SECURITY SUB-SYSTEMS	>			for iPhone	iOS App Store	com.skype.skype	Smartp	hone, Tablet	Free	No	2018/11/09 11:55:37 AM
				SHAREit							

The following sections contain more details on each app type:

- iOS Apps
 - Add iOS Apps and Installing them on Devices
 - Manage iOS Apps
- Android Apps
 - Add Android Apps and Installing them on Devices
 - Manage Android Apps
- Windows Apps
 - Install Windows Apps on Devices

8.1.iOS Apps

- Click 'Application Store' > 'iOS Store'.
- The iOS store area contains all available iOS apps that have been uploaded to Endpoint Manager. You can deploy selected apps to all managed devices or specific devices.
- You can add new apps from the Apple store or upload your own custom enterprise apps. You can synchronize the app list with managed iOS devices and edit existing app parameters.
- You can specify whether an app is a mandatory install or an optional install.

Add En		App Store	Contractions Now	Delete Application	Export			0 T
	NAME 🗸	ТҮРЕ	APPLICATIO	DN ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
	Skype for iPho	ne iOS A Store	com skype s	skype	Smartphone, Tablet	Free	No	2018/07/20 11:40:24 AM
	SHAREit - Conr & Transfer	nect iOS A Store	com lenovo.	anyshare	Smartphone, Tablet	Free	No	2018/07/20 11:41:07 AM
	K9 Web Protec Browser	tion iOS A Store	com blueco	at.K9Browser	Smartphone, Tablet	Free	No	2018/07/20 11:42:11 AM
	ITSM	iOS A Store	pp com.comod	o.cmdm.client	Smartphone, Tablet	Free	Yes	2015/04/28 04:36:13 PM
	Dropbox	iOS A Store	pp com.getdroj	obox.Dropbox	Smartphone, Tablet	Free	No	2018/07/20 11:42:33 AM
	CMRL Complai	int iOS A						

	'iOS App Catalog' - Column Descriptions					
Column Heading	Description					
Name	 Application label. Click on the name to view app description, version number, bundle ID, category, supported devices, mandatory/optional setting and download URL. You can also edit app details from here. See Manage iOS Apps for more details. 					
Туре	 App class as determined by the source of the app. Possible types are: iOS App Store iOS Enterprise (apps uploaded by an admin) 					
Application ID	The bundle identifier of the app. This is a unique id used by Apple to identify an app.					
Supported Devices	Types of devices with which the app is compatible.					
License Type	Whether the app is a free, paid or enterprise version.					
Mandatory	Whether or not it is compulsory for managed devices to install the app. Admins can set if an app should be mandatory. See 'Add iOS Apps and Install them on Devices' for more details.					
Added	The date and time at which the app was added to repository					

1

	Controls								
Add Enterprise Application	Add custom applications to Endpoint Manager by simply uploading the .ipa package files of the apps. See Add iOS Apps and Install them on Devices for more details.								
Add App Store Application	Add applications from the Apple store by typing the app name. See Add iOS Apps and Install them on Devices for more details.								
Inform Devices Now	Synchronize enrolled Android devices with the latest app list.								
Delete Application	Remove an application from the iOS app repository.								
Export	Save a copy of the app list as a comma separated values (csv) file. See Export the List of iOS Applications for more details.								

Export the List of iOS Applications

- Click 'Application Store' > 'iOS Store'.
- Click the 'Export' button above the table then choose 'Export to CSV':

Ē	i i	Δ		<		ب ۲		
Add Ente Applica		Add App Sto Application		m Devices Now	Delete Application	Export		
	NAME 🗸		ТҮРЕ	APPLICATIO	DI ID	Export to CSV	ENSE TYPE	MANDA
	Skype for	iPhone	iOS App Store	com.skype.s	skype	Smartphone, Tablet	Free	No
1	SHAREit - & Transfer		iOS App Store	com.lenovo	anyshare.	Smartphone, Tablet	Free	No

- The CSV file will be available in 'Dashboard' > 'Reports'
- See **Reports** in **The Dashboard** for more details.

Sorting, Search and Filter Options

- Click a column header to sort items in alphabetical order of entries in the column.
- Click the funnel button **T** to open the filter options.

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SUPPORTED DEVICES	LICENSE TYP	Name
		Name
Smartphone, Tablet	Free	Туре
Smartphone, Tablet	Free	iOS App Store
and the store stor		iOS Enterprise
		Application ID
		Application ID
		Supported devices
		Smartphone
		Tablet
		Smartphone, Tablet
		License type
		Free Free
		Paid
		Enterprise
		Mandatory
		Yes
		No

Click the following links for more help:

- Add iOS Apps and Install them on Devices
- Manage iOS Apps

8.1.1. Add iOS Apps and Install them on Devices

- You can add apps direct from the Apple store or by uploading custom/enterprise apps.
- Apps can be installed on all or selected managed iOS smart phones and tablets.

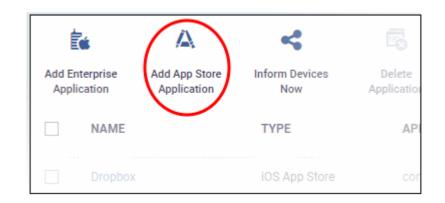
See the following sections for more details:

- Add iOS Apps from the App Store
- Add Custom/Enterprise iOS Apps

Add iOS Apps from the App Store

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- Click 'Application Store' > 'iOS Store'
- Click the 'Add App Store Application' button:



- Type the first few letters of the app in the 'Name' field on the form. Endpoint Manager will search for matching apps from the store.
- Select the correct app from the list of suggestions. The rest of the form will be auto-populated by the app details.
- Click 'Save' after confirming the details.
- The app will be added to the repository and listed in the 'iOS Store' interface. It will be synced to devices during the next cycle.

≡	iOS St	ore				€	요 Logout (hercu	lespopular22@gmail.com)
A	Add Ent Applic	erprise Add Ap	p Store	InformDevices Delete	Export		Request sent	J T
		NAME	ТҮРЕ	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
[Comodo ONE Mobile	iOS App Store	comodo.one.mobile	Smartphone, Tablet	Free	No	2018/07/20 12:40:54 PM
[Microsoft Excel	iOS App Store	com.microsoft.Office.Excel	Smartphone, Tablet	Free	No	2018/07/20 12:39:28 PM
		CMRL Complaint	iOS App	com.triton.complaintmanagement	Smartphone Tablet	Free	.No	

• Click 'Inform Devices Now' if you want to immediately notify devices to install the app:

😵 Cancel 🕒 Save Name * Version iTunes store ID * Application ID * License type * O Free O Paid Category * Select category ~ Supported devices * Select supported devices ~ Description **Distribution Options** Mandatory app Allow backup of the app data Remove app when device management profile is removed Remove from device when removed from app catalog Application logo * Application screenshots

	Apple S	Store Application - Table of Parameters				
Form Element	Туре	Description				
Name	Text Field	The label of the application.Enter the first few letters of the app name.EM searches for matching apps in the app store				
Version	Text Field	The version number of the application. This field is auto-populated afte entering the app name.				
iTunes Store ID Text F		The Apple identification number of the app. This field is auto-populated after entering the app name.				
		Usually, this number will appear after ID in the download URL of the app. For example, in the URL https://itunes.apple.com/us/app/ITSM/id807480077, the numbers after ID is the iTunes Store ID for this app.				
Application ID	Text Field	The bundle ID of the app. This field is auto-populated after entering the app name.				
		For example, the bundle ID for EM client is com.comodo.ITSM.client				

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	Apple S	tore Application - Table of Parameters
Form Element	Туре	Description
License Type	Radio Button	Specify whether the app is free or a paid version. This option is pre-populated by the app chosen in the 'Name' field.
Category	Drop-down	The classification of the application. The category field will be auto- populated depending on the app chosen in the 'Name' field The drop-down also enables you to choose the category to which the app belongs.
Supported devices	Drop-down	The category of devices on which the app can run. The device type will be auto-selected depending on the app chosen in the 'Name' field. The drop-down also enables you to choose the device types to which the app is compatible.
Description	Text Field	The 'Description' filed will be auto-populated with the description of the selected app, from the App Store page. The text field also enables you to enter your description or edit the existing description.
Mandatory app	Checkbox	Specify whether or not it is compulsory that devices install this app. If enabled, all enrolled devices will get alerts automatically to install the app. See Install Apps on Android/iOS Devices for more details.
Allow backup of the app data	Checkbox	Allows user to backup the application along with its user data to iTunes.
Remove app when device management profile is removed	Checkbox	The app will be deleted from devices if the profile applied to the device is removed.
Remove from device when removed from app catalog	Checkbox	The app will be deleted from devices if it is removed from 'iOS Store'.
Application logo	'Browse' Button	The application logo will be automatically fetched from the App Store for the app chosen in the name field. If you want to change the logo, upload a new logo from the local computer by clicking 'Browse'.
Application screenshots	'Browse' Button	The application screenshots will be automatically fetched from the App Store for the app chosen in the name field. If you want to add new screenshots from the local computer, upload them by clicking 'Browse'.

Add Custom/Enterprise iOS Apps

- · Custom applications can be added to the repository by simply uploading the app .ipa file
- Most app details, such as name, version and ID, will be automatically fetched by parsing the file. You just need to manually enter some remaining details

To add Custom/Enterprise iOS Apps

- Click 'Application Store' > 'iOS Store' to open the interface
- Click 'Add Enterprise Application' from the options at the top.

Add Ente Applica		Add App Store Application	Contract of the second	Delete Application
	NAME		TYPE	
	Simple F	Radio - Live AM & FM	iOS Ar	op Store

- Click 'Browse' beside 'Source File', select the .ipa file you want to upload and click 'Open'
- The file will be uploaded. Many form field details are auto-populated from the file itself:

iOS Enterprise Application	
Name *	
Version *	
Application ID *	
Category *	
Select category	~
Supported devices *	
Select supported devices	~
Description	
Distribution Options	
Mandatory app	
Allow backup of the app data	
 Remove app when device managemen profile is removed 	t
Source file *	
Browse	
Application logo *	
Browse	
Application screenshots	
Browse	

	Add iOS Enterprise Application - Table of Parameters					
Form Element	Туре	Description				

	Add iOS En	terprise Application - Table of Parameters
Name	Text Field	Application label. Auto-populated from the .ipa file
		Enter the name of the app if not auto-populated
Version	Text Field	The version of the application as obtained from the .ipa file.
		Enter the version number, if it is not auto-populated
Application ID	Text Field	The app's unique identifier as obtained from the .ipa file.
		Usually, this number will appear after ID in the download URL of the app.
		For example, in the URL https://itunes.apple.com/us/app/ITSM/id807480077, the numbers after ID is the iTunes Store ID for this app.
Category	Drop-down	Select the app classification.
Supported devices	Drop-down	Select the category of the devices to which the app is compatible.
Description	Text Field	Enter a description for the app.
Mandatory app	Checkbox	Specify whether the app should compulsorily be installed on devices. If enabled, all enrolled devices will be alerted to install the app.
		See Install Apps on Android/iOS Devices for more details.
Allow backup of the app data	Checkbox	Allows to backup the application along with its user data to iTunes.
Remove app when device management profile Is removed	Checkbox	The app will be automatically uninstalled if the EM profile applied to the device is removed.
Source file	Browse button	Navigate to the storage location of the .ipa file to be uploaded and select the file.
Application logo	Browse button	Upload the logo image for the app.
Application screenshots	Browse button	Upload screenshots of the app, if required.

- Click 'Save' after confirming all details.
- The app will be added to the repository and listed in the 'iOS Store' interface. It will be pushed to devices on the next sync-cycle.
- Click 'Inform Devices Now' if you want to push the app to devices immediately.

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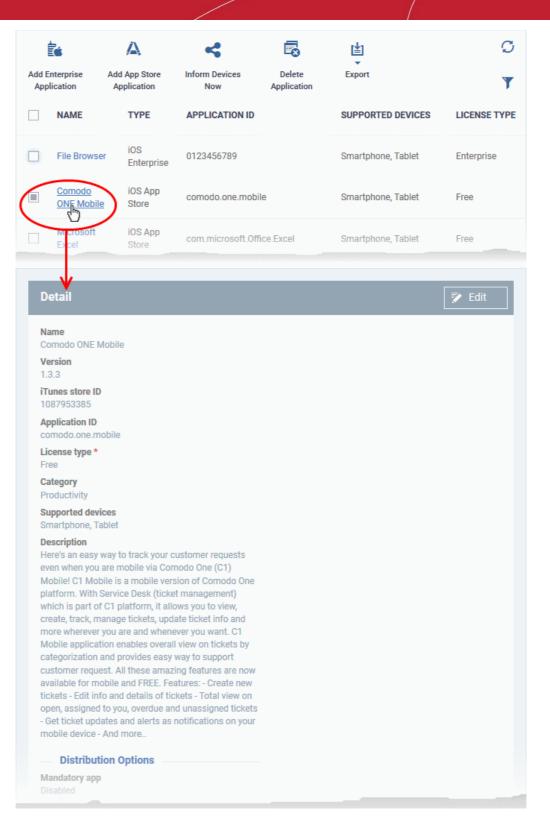
iOS	Store		🔁 🕜 🕹 Logout (herculespopular22@ر				
Add E	interprise dication	Add App Store Application	Inform Devices Delete Application	equest sent	Y		
	NAME	TYPE	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYP		
	File Browser	iOS Enterprise	0123456789	Smartphone, Tablet	Enterprise		
	Comodo ONE Mobile	iOS App Store	comodo.one.mobile	Smartphone, Tablet	Free		
	Microsoft	iOS App	com.microsoft.Office.Excel	Smartphone, Tablet	Free		

8.1.2. Manage iOS Apps

The 'iOS Apps' interface lets you view and edit app details, and remove unwanted apps from the repository.

- Click 'Application Store' > 'iOS Store'
- Click the name of an app.

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The details page contains a product description and various other info about the app. You can edit app details from here too.

To edit the details of an application

Click on the 'Edit' button

•

at top right.

The application details edit screen will open. This screen is similar to the interface for adding a new application. See Add iOS Apps and Install them on Devices if you need help with this.

Remove Apps from the store

- Click 'Application Store' > 'iOS Store'
- Select the app(s) you want to remove and click 'Delete Application' above the table.
 - Note. If 'Remove from device when removed from app catalog' is enabled, then the app will also be removed from devices.

-	App Store	Inform Devices Delete	e Export			C
cation App	plication	Now Applet t	tion			Y
NAME	TYPE	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
Angry Birds 2	iOS App Store	com.rovio.baba	Smartphone, Tablet	Free	No	2018/07/20 02:14:57 PM
File Browser	iOS Enterprise	0123456789	Smartphone, Tablet	Enterprise	No	2018/07/20 01:00:10 PM
Comodo ONE	iOS App	compde one mobile	Smartobone John Smartobone			75
	Delete A	pplication			×	
	Do you rea	lly want to delete selected	d application(s)?			
			C	confirm Cano	el	

• Click 'Confirm' in the confirmation dialog to remove the app(s)

8.2. Android Apps

- Click 'Application Store' > 'Android Store'.
- The store contains all Android apps that have been uploaded to Endpoint Manager. You can deploy selected apps to all managed devices or to specific devices.
- You can add new apps from the Google Play Store or upload your own custom enterprise apps. You can synchronize the app list with managed Android devices and edit existing app parameters.
- You can specify whether an app is a mandatory install or an optional install.

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Add En	terprise Add Goog cation Applica	jle Play Info	•	ixport			
	NAME	ТҮРЕ	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
	Dithers Office	Android Enterprise	cn.wps.moffice_eng	Smartphone, Tablet	Enterprise	Yes	2018/07/20 03:18:08 F
	Kanchi Sri Sankara Academy	Google Play Store	in.nirals.kssa	Smartphone, Tablet	Free	No	2018/07/20 03:12:27 F
	Chennai Transit: Offline Metro, Rail, MTC, CMRL Google Play Store		com.swash.transitworld.chennai	Smartphone, Tablet	Free	No	2018/07/20 03:11:41 F
	Chennai Local Train Timetable	Google Play Store	com.miin.chennaitraintimetable	Smartphone, Tablet	Free	No	2018/07/20 03:10:47 F
	SHAREit - Transfer & Share	Google Play Store	com.lenovo.anyshare.gps	Smartphone, Tablet	Free	No	2018/07/20 03:09:55
]	Skype - free IM & video calls	Google Play Store	com.skype.raider	Smartphone, Tablet	Free	No	2018/07/20 03:09:26

'Android Store' - Column Descriptions				
Column Heading	Description			
Name	 Label of the application. Click the name to view details of the application. The screen also lets you edit app details. See Manage Android Apps for more details. 			
Туре	 The source type of the app. Possible types are: Google Play Store Application Android Enterprise Application uploaded by the administrator 			
Application ID	The bundle identifier of the app.			
Supported Devices	The types of devices with which the application is compatible.			
License Type	Whether the app is a free, paid or enterprise version.			
Mandatory	Whether the app has been marked to be installed compulsorily on the devices. See 'Add Android Apps and Install them on Devices' for more details			
Added	The date and time at which the app was added to repository.			
	Controls			
Add Enterprise Application	Add custom applications to Endpoint Manager by uploading the .apk package files. See Add Android Apps and Install them on Devices for more details.			
Add App Store Application	Add Android apps from the Play Store by entering the app name. See Add Android Apps and Install them on Devices for more details.			
Inform Devices Now	Synchronize the app list with enrolled Android devices.			
Delete Application	Remove an application from the Android app repository.			
Export	Save the list of Android apps as a comma separated values (csv) file. See Export the			

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List of Android Applications for more details.

Export the List of Android Applications

Export the list of Android applications to a .csv file as follows:

- Click 'Application Store' > 'Android Store'.
- Click the 'Export' button above the table then choose 'Export to CSV':

Add En	terprise ication	Add Googl Applicat	-	Contract of the second	Delete Application	Export	
	NAME		TYPE	APPLICA	TION ID	Export to CSV	LICENSE TYPE
	Dithers	Office	Android Enterpr	cn.wps.m	office_eng	Smartphone, Tablet	Enterprise
	Kanchi S Sankara Academ		Google Play Sto	in nirals k	SSa	Smartphone, Tablet	Free

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

Sort, Search and Filter Options

- Click a column header to sort items in alphabetical order of entries in the column.
- Click the funnel button **T** to open the filter options.

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	C
	Ţ
LICENSE TYP	Name
	Name
Enterprise	Туре
	Google Play Store
Free	Android Enterprise
	Application ID
	Application ID
	Supported devices
	Smartphone
	Tablet
	Smartphone, Tablet
	License type
	Free Free
	Paid
	Enterprise
	Mandatory
	Yes
	No

Click the following links for more help:

- Add Android Apps and Install them on Devices
- Manage Android Apps

8.2.1. Add Android Apps and Install them on Devices

- You can add apps direct from the Google Play Store or by uploading custom apps
- Apps in the repository can be installed on all or specific managed Android devices.

See the following sections for more details:

- Add an Android App from Google Play Store
- Add a Custom/Enterprise Android App

Add an App from the Google Play Store



- Click 'Application Store' > 'Android Store'
- Click the 'Add Google Play Application' button
- Type the first few letters of the app in the 'Name' field on the form. Endpoint Manager will search for matching apps from the store.
- Select the correct app from the list of suggestions. Most of the form will then be auto-populated from the app details

nterprise Add Google Play Infe	orm Devices Now	Delete Application	Export		
NAME TYPE	APPLICATI				LICENS
Google Play Application				🙁 Cancel	🖹 Save
Name *					
Version *					
Application ID * 🚯					
License type *					
O Paid					
Category *					
Select category	~				
Supported devices *					
Select supported devices	~				
Description					
Distribution Options					
Mandatory app Remove from device when i	removed from				
app catalog					
Application logo *					
	Browse				
Application screenshots					

Google Play Application - Table of Parameters					
Form Element	Туре	Description			
Name	Text Field	Enter the label of the application.			

	Google	Play Application - Table of Parameters
		Type the first few letters of the app name
		EM displays matching results
		Choose the app you want to add from the suggestions
		 Once you have chosen the app, most other form fields will be auto-populated.
Version	Text Field	The version number of the application.
		This field will be auto-populated after choosing an app in the 'Name' field.
		 Enter the version number manually if the version number wasn't automatically fetched.
Application ID	Text Field	The application ID (bundle identifier) of the app. Usually this is in the reverse DNS format, for example, 'com.comodo.mobile.comodoantitheft'. 'In the Google Play store, the identifier is located after the '=' in the URL. An example is shown below:
		https://play.google.com/store/apps/details?id=com.comodo.mdm
		Click the help icon beside the field displays how to retrieve the application ID for the Play Store Apps.
		This field will be auto-populated on entering the correct app name in the 'Name' field.
License Type	Radio	Whether the app is free or paid.
	Button	This option will be pre-chosen depending on the app chosen in the 'Name' field.
Category	Drop-down	The classification of the application.
		The category will be auto-selected depending on the app chosen in the 'Name' field.
		 Select the category from the drop-down if it is not auto- populated.
Supported devices	Drop-down	The category of devices on which the app can be run.
		This device type will be auto-selected depending on the app chosen in the 'Name' field.
		 Select the device type from the drop-down if it is not auto- populated.
Description	Text Field	The 'Description' filed will be auto-populated with the description of the selected app, from the Google Play Store page.
		The text field also enables you to edit the description or enter your own description of the app.
Mandatory app	Checkbox	Specify whether the app is a compulsorily install. If enabled, the app will be automatically pushed to all enrolled devices.
Remove from device when removed from app catalog	Checkbox	The app will be uninstalled from devices if it is removed from the EM app store.
Application logo	Button	The application logo will be automatically fetched from the Google Play Store for the app chosen in the 'Name' field. If you want to change the

Google Play Application - Table of Parameters					
		logo, upload a new logo from the local computer by clicking 'Browse'.			
Application screenshots	Button	The application screenshots will be automatically fetched from the Google Play Store for the app chosen in the 'Name' field. If you want to add new screenshots from the local computer, upload them by clicking 'Browse'.			

- Click 'Save' after entering the details.
- The app will be added to the App repository and will listed in the 'Android Store'. It will be synced to the devices during the next cycle.
- Click 'Inform Devices Now' if you want to push the app immediately.

≡	Androi	id Store				ē ⊕ ②	요 Logout (hercu	lespopular22@gmail.com)
	Add Ente		> oogle Play	nform Devices Delete	Export		Request sent	J
	Applica	ation Appl	TYPE	Application Application	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
		Dithers Office	Android Enterprise	cn.wps.moffice_eng	Smartphone, Tablet	Enterprise	Yes	2018/07/20 03:18:08 PM
		Kanchi Sri Sankara Academy	Google Play Store	in.nirals.kssa	Smartphone, Tablet	Free	No	2018/07/20 03:12:27 PM

Add a Custom/Enterprise Android App

- Custom apps can be added to the repository by uploading the app's .apk file.
- App details will be automatically fetched by parsing the file. You will need to manually enter details which could not be fetched from the .apk file.

Prerequisite: The .apk file of the app should have been saved in the computer or in the network storage accessible through the computer, from which the Endpoint Manager console is accessed.

To add Custom/Enterprise Android Apps

- Click 'Application Store' > 'Android Store'
- Click 'Add Enterprise Application' from the options at the top.

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Enterprise	Add Google Play	Inform Devices	Delete	Export		
lication	Add Google Play Application	Now	Application	Export		
NAME	ТҮРЕ	APPLIC	ATION ID			LICENSE
Android E	Enterprise Appl	ication			🙁 Cancel	🖹 Save
Name *						
Hunte						
Version *						
Application I	ID *					
Category *						
Select c	ategory		~			
Supported d	levices *					
	upported devices	3	~			
Description						
Pescipion						
	oution Options					
	tory app					
	& uninstall this ap ossible	oplication silen	tly			
Source file *						
		Browse				
Application I	logo *	Browse				
Application	screenshote					
Application	aur cerranota	Browse	-			

 Click 'Browse' under 'Source File', navigate to the location of the .apk file to be uploaded, select the file and click 'Open'

The file will be uploaded and form details auto-populated. See the previous section if you need advice on the fields in this form.

- Click 'Save' after entering the details.
- · The app will be added to the repository and listed in the 'Android Store' interface. It will be synced to



enrolled devices during the next update cycle.

• Click 'Inform Devices Now' if you want to push the app out immediately.

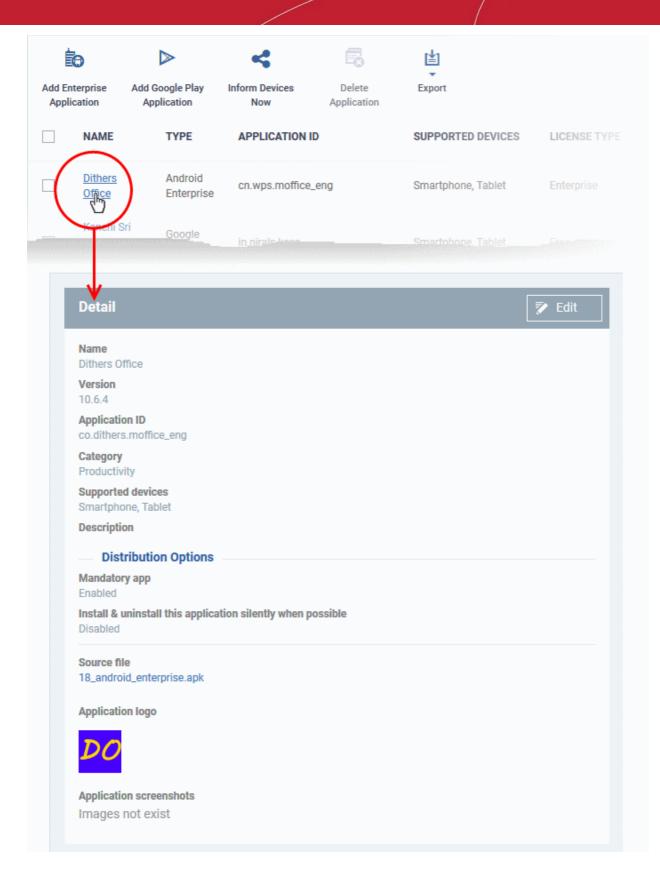
≡	Andro	id Store				+ (2)	온 Logout (hercu	lespopular22@gmail.com)
	Add Ent Applic	erprise Add Go	> ogle Play In	form Devices Delete Application	Export		Request sent	T
		NAME	ТҮРЕ	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
		Dithers Office	Android Enterprise	cn.wps.moffice_eng	Smartphone, Tablet	Enterprise	Yes	2018/07/20 03:18:08 PM
		Kanchi Sri Sankara Academy	Google Play Store	in.nirals.kssa	Smartphone, Tablet	Free	No	2018/07/20 03:12:27 PM

8.2.2. Manage Android Apps

The 'Android Apps' interface lets you view and edit app details, and remove unwanted apps from the repository.

- Click 'Application Store' > 'Android Store'
- Click the name of an app

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The 'Application Details' page contains a description of the app and various other identifying information. You can also edit app details from here.

To edit the details of an application

Click on the 'Edit' button Edit at the top right .

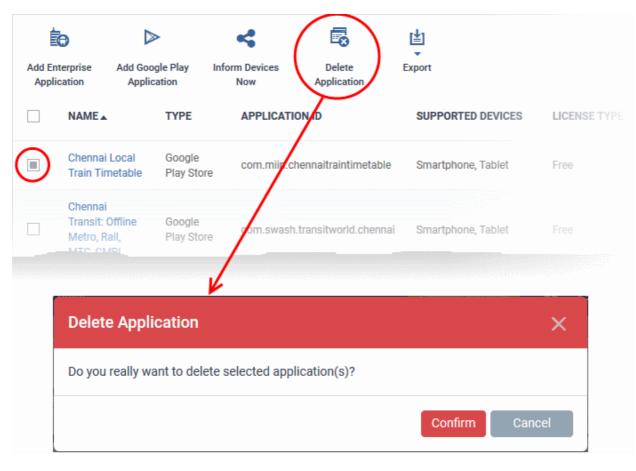
The application details edit screen will be displayed. This screen is similar to the interface for adding a new application. For more details on the parameters, see **Add Android Apps and Install them on Devices**.

Remove Apps from the Android App Catalog

- · You can remove unwanted applications from the repository at any time.
- If you also select 'Remove from device when removed from app catalog', the app will also be deleted from devices.

To remove selected Apps

- Click 'Application Store' > 'Android Store'
- Select the app(s) you want to remove and click the 'Delete Application' button:



Click 'Confirm' to remove the app(s).

8.3. Windows Apps

The 'Windows Application Store' is a library of applications which can be deployed to Windows devices. Applications you can install include Adobe Acrobat, CCleaner, Firefox, Thunderbird and more. The list is continuously updated by Comodo.

• Click 'Application Store' > 'Windows Application Store' to open the interface

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Endpoint Manager		≡ Wi	ndows Application Store	License Optio	ons 👎 🔉 占 Logout	(herculespopular22@gmail.com)
DASHBOARD	>					
DEVICES	>	Win	dows Application Store			
A USERS	>		82			Q
	>		II Selected lication(s)			Ŧ
APPLICATION STORE	~		TITLE	APPLICATION CATEGORY	VENDOR	INSTALLED DEVICES
iOS Store						
Android Store			7 Zip	File Compression	Igor Pavlov	1
Windows Application Store			ActivePresenter	Documents	Atomi Systems, Inc.	0
APPLICATIONS	>		ActiveState Komodo Edit	Utilities	ActiveState Software Inc.	0
SECURITY SUB-SYSTEMS	>		Adobe Acrobat Reader DC	Documents	Adobe Systems Incorporated	0
SETTINGS	>		Adobe AIR	Developer Tools	Adobe Systems	1
☆ SETTINGS	>		Adobe AIR	Developer Tools	Adobe Systems	1

Windows Application Store - Column Descriptions					
Column Heading	Description				
Title	 The name of the application. Click the name to view application details, including version number and any devices on which it is installed. 				
	See View Application Details.				
Application Category	The category under which the application is grouped.				
Vendor	The name of the organization / person that distributes the application				
Installed Devices	The number of devices on which the application is installed. Clicking the number will open the 'Device List' screen. See View Application-Installed Devices List .				
	Controls				
Install Selected Application(s)	Allows you to install selected application(s) on managed devices. See Install Windows Apps on Devices for more details.				

- Click any column header to sort items in ascending/descending order of entries in that column.
- Click the refresh icon ${\cal O}$ on the top-right to update the table list
- Click the funnel icon on the top-right to search for Windows applications by title, vendor and/or application category.
- To display all the items again, remove the search key from filter and click 'Apply'.
- EM returns 20 results per page when you perform a search. Click the arrow next to 'Results per page' to change the number of results shown.

From the interface you can:

- View Application Details
- View Application-Installed Devices List
- Install Applications on Devices

View Application Details

• Click an application's name in the list

A new screen with 'Application Info' and 'Device List' tabs will open.

Windows Application	n Store			
8%	Windows Application Store > 7 Zip		" 0	各 Logout (kamal@yopmail.com)
install Selected Application(es)	1			
TITLE	Application Info Device List			
Control of the second	Description 7-Zip is an open-source file archiver, an application used primarily to compress files. Vendor Igor Pavlov Catagory N/A	Versions(32bil) 16.04 16.03 Versions(64bil) 16.04		

By default, the 'Application Info' tab will be displayed. The details of the application such as name, description, vendor, category including version number(s) will be available.

• The 'Device List' tab displays the device details on which the application is installed. This screen is same that is shown when the number in the 'Installed Devices' column is clicked. See View Application-Installed Devices List for details.

View Application-Installed Devices List

• Click the number on the far right beside an application's name ('Installed Devices' column)

A new screen with 'Application Info' and 'Device List' tabs will open.

Windows Application Store					
82					C
Install Selected Application(es)					Y
TITLE	AP	PLICATION CATEGORY	VENDOR	INSTALLED DEVICES	
7 Zip	File	Compression	lgor Pavlov		
Adobe Associate Device List	n.,	uran kanta	Adaha Distama Isaa	manufad o	
NAME	VERSION	РАТН		DEVICE OWNER	
check	16.04	C:\Program Files\7-2	Ľíp\	kamai@yopmail.com	
DESKTOP-81RSIOQ	16.04	C:\Program Files\7-2	Σιρ\	kamal@yopmail.com	

By default, the 'Device List' tab will be displayed. The details of the device such as name, application version, installation path and name of the device owner will be available.

 Click the name of a device to view its summary information. See 'Manage Windows Devices' for more information about how to manage devices.

8.3.1. Install Windows Apps on Devices

The 'Windows Application Store' lets you install apps on managed Windows devices.

- Click 'Application Store' > 'Windows Application Store'
- Select the applications you want and click 'Install Selected Application(s)':

Windo	ows Appl	ication Store			
Install S	Selected ation(s))	APPLICATION CATEGORY	VENDOR	
	7 Zip		File Compression	Igor Pavlov	
	Active	Presenter	Documents	Atomi Systems, Inc.	
	Actives	State Konodo Edit	Utilities	ActiveState Software Inc.	
	Adobe	Acrobat Reader DC	Documents	Adobe Systems Incorporated	
	Adobe	AIR	Developer Tools	Adobe Systems	-
	Adobe	Install Selected A	pplication(s)		×
		Install selected applica All devices Selected device(s) Type device name to	ations over: search among devices	Install	

- All Devices Install the latest version of the apps on every managed Windows device.
- Selected Devices Install the apps on specific devices:
 - Choose 'Selected device(s)'

Install Selected Application(es) Install selected applications over: All devices Selected device(s) Aqua-PC Please select a version to install: Available Versions Install

- Enter first few letters of the device name and select from the suggestions.
- Repeat to add multiple devices.

Note - The version number drop-down is not available if you select 'All devices', multiple devices, or multiple apps.

• Select the application version (available for single application/ single device installs only)

	Aqua-PC ×		
I 1	Please select a version to install: Available Versions		
		~	
	16.04 (32bit) 16.03 (32bit) 16.04 (64bit)		

Click 'Install'

The install command is sent immediately. The 'Software Inventory' screen shows all apps installed on a particular device. See 'View Applications Installed on a Device' for more information.

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9. Security Sub Systems

The 'Security Sub systems' menu lets you:

- View the infection status of managed devices.
- Run antivirus and file-rating scan on devices.
- Update the virus database on devices.
- View and manage quarantined files.
- · View and modify the trust rating of files discovered on devices
- · View unknown files currently running in the container on an endpoint.
- · View unknown files which were automatically submitted to Valkyrie for analysis
- View a consolidated list of all security events on all managed Windows endpoints.
- View a list of external connection attempts from devices.

The following sections contain more details on each area:

- Security Dashboards
 - View Security Events by Time
 - View Events by File
- View Contained Applications
- Manage File Trust Ratings on Windows Devices
- View Valkyrie Analyzed Files
- Antivirus and File Rating scans
 - Run Antivirus and/or File Rating Scans on Devices
 - Handle Malware on Scanned Devices
 - Update Virus Signature Database on Windows, Mac OS and Linux Devices
- View and Manage Identified Malware
- View and Manage Quarantined Items
- View Threat History
- View History of External Device Connection Attempts

9.1. Security Dashboards

Click 'Security Sub-Systems' > 'Security Dashboards'

The security dashboard is a list of all security events on managed Windows endpoints. This includes events generated by the antivirus, containment and application-control modules. Events include:

Antivirus:

- · Files blocked, moved to quarantine or ignored
- Files restored/removed from quarantine
- · Files rated as trusted, or submitted as false positives, from the scan results screen
- Files added to the exclusions list

Containment:

• Files blocked, ignored or run in the container by:



- Auto-containment rules in the profile on the device
- · Local user running the file in the container on a one-off basis

Application Control

- Unrecognized and malicious files added to, or removed from, the CCS 'File list'.
- Changes in the trust rating of those files
- See Manage File Trust Ratings on Windows Devices for more details.

The interface also lets you rate files, and move files in or out of quarantine.

To open the interface:

Click 'Security Sub-Systems' > 'Security Dashboards'

Endpoint Manager		<u>≡ Se</u>	<u>curity Dashboards</u>	/ Event View			License Options	÷	<u> </u> Logout (ł	nerculespopular2	2@gmail.com)
DASHBOARD	>										
DEVICES	>	Eve	nt View File	View							
A USERS	>		G	ē.							
	>		ction on Chan indpoint	ge Rating							
	>	Q	Search file HAS	Н							
	>		DATE TIME	COMPONENTS	ACTION	SEVERITY	DEVICE	FILE NAME	FILE PATH	FILE HASH	ADDITIONAL
SECURITY SUB-SYSTEMS	~						NAME				INFO
Security Dashboards			2018/11/09	Antivirus	Block	High	DESKTOP-D	123	\Device	d ³	ApplicUnwn
Containment Application Control			2018/11/09	Antivirus	Malware det	High	DESKTOP-D	123	\Device	6 1	ApplicUnwn
Next Gen Sandbox			2018/11/09	Application c	Update items	Low	DESKTOP-D	Astrolog.exe	C:\Astr	87ABE0	Unrecogniz
Antivirus Device Control			2018/11/09	Antivirus	Malware det	High	DESKTOP-D	Astrolog.exe	C:\Astr	87ABE0	Policy.Admi
SETTINGS	>		2018/11/09	Antivirus	Block	High	DESKTOP-D	Astrolog.exe	C:\Astr	87ABE0	Policy.Admi
			2018/11/08	Antivirus	Malware det	High	DESKTOP-D	123	\Device	Ċ.	ApplicUnwn

The interface has two tabs:

- Event View Shows the events in chronological order. See View Security Events by Time for more details.
- File View Shows events in file wise order. The events from antivirus, containment and application control components for each file are grouped and shown in a single row. You can expand the row to view the list of events on that file corresponding to different components. See View Events by Files for more details.

9.1.1. View Security Events by Time

- Click 'Security Sub-Systems' > 'Security Dashboards' > 'Event View'
- The event view shows events in chronological order:

Acti	•	Rating							
0 8	Search file HASH								Ø 1
	DATE TIME -	COMPONENTS	ACTION	SEVERITY	DEVICE NAME	FILE NAME	FILE PATH	FILE HASH	ADDITIONAL INFO
	2018/09/12	Containment	Virtually	Low	DESKTOP-D	virtkiosk.exe	C:\Prog	474348	Completed
	2018/09/12	Containment	Virtually	Low	DESKTOP-D	virtkiosk.exe	C:\Prog	474348	Completed
	2018/09/12	Containment	Virtually	Low	DESKTOP-D	cheatbook0	C:\Prog	0AF7BD	Completed
	2018/09/12	Containment	Virtually	Low	DESKTOP-D	virtkiosk.exe	C:\Prog	474348	Completed
	2018/09/12	Antivirus	Malware qu	Moderate	DESKTOP-D	pcalc_17046	C:\User	EB9592	Malware@#.
	2018/09/12	Antivirus	Malware det	High	DESKTOP-D	pcalc_17046	C:\User	EB9592	Malware@#.
	2018/09/12	Containment	Virtually	Low	DESKTOP-D	cheatbook0	C:\Prog	0AF7BD	Running
	2018/09/12	Containment	Virtually	Low	DESKTOP-D	virtkiosk.exe	C:\Prog	474348	Completed
	2018/09/10	Application c	Delete items	None	DESKTOP-D	C_powershe	C:\Prog	AA2317	Unrecognize

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Endpoint Manager - Administrator Guide

Security Dashboards - Event View - Column Descriptions						
Column Header	Description					
Date/Time	The time at which the event occurred.					
Components	Whether the 'Antivirus', 'Containment' or 'Application Control' that reported the event					
Components	Whether the 'Antivirus', 'Containment' or 'Application Control' that reported the event The nature of the event showing the how the file was handled by the CCS component. The possible actions are: Antivirus: • Detection of malware • Malware quarantined • Malware removed from quarantine • Malware removed from quarantine • Malware removed from quarantine • Malware removed from infected file • Detected item ignored • Detected file blocked • File added to exclusions • File added to trusted files list • File reported as false positive from the results screen Containment • Virtually • File blocked • File spored Application Control: • File added to the file list					
Severity	Trust rating updated for a file The criticality of the event. The possible values are:					
	 High Moderate Low 					
Device Name	The label of the Windows endpoint on which the event occurred.					
File Name	The label of the executable file affected by the action					
File Path	 The installation location of the executable file on the endpoint Click the icon to copy the path to the clipboard. 					
File Hash	Click the Control copy the path to the clipboard. The SHA 1 hash value of the executable file Click the Click the clipboard.					

	Controls
Action on Endpoints	Allows you to delete a file or restore a file from quarantine on the endpoint. Applicable only for events involving 'Malware quarantined' action. See Handle Quarantined Items for more details
Change rating	Allow you to change the rating of the affected file to trusted, malicious or unrecognized. See Rate Files as Trusted, Malicious or Unrecognized for more details.

Sorting, Search and Filter Options

- · Click the column headers to sort events in ascending or descending order
- Enter the SHA 1 hash value of a file in the search box to filter the events involving the file.
- Click the funnel icon on the top right to open more filter options:

Date time	K
From To	
Components	
All	~
Action	
All	~
# of devices	
# of devices	
File name	
File name	
File path	
File path	
File hash	
File hash	

- Use the search fields to filter the events by date/time, component, action, number of devices, file name, file path or SHA1 hash value.
- To display all items again, clear any search filters and click 'OK'.

You can use any combination of filters simultaneously to search for specific apps.

Handle Quarantined Items

- You can delete or restore quarantined items from the 'File View' tab of 'Security Dashboards' interface.
- Click 'Security Sub-Systems' > 'Security Dashboards' > 'File View'



- Select the event(s) in which the file(s) of interest are moved to quarantine.
- Click 'Action on Endpoint' on top

Event	View File View	w				
Acti	on on point					
	te File ore from Quaranti	ine				
		COMPONENTS	ACTION	SEVERITY	DEVICE NAME	FILE NAME
	2018/09/12 1	Containment	Virtually	Low	DESKTOP-D80	Astrolog.exe
	2018/09/12 1	Antivirus	Malware dete	High	DESKTOP-D80	25786c51-414.
	2018/09/12 1	Antivirus	Malware quar	Moderate	DESKTOP-D80	25786c51-414.
	2018/09/12 1	Antivirus	Malware dete	High	DESKTOP-D80	2473c2ca-414
	2018/09/12 1	Antivirus	Malware resto	Low	DESKTOP-D80	25786c51-414.
	2018/09/12 1	Antivirus	Malware resto	Low	DESKTOP-D80	pcalc_170462
	2018/09/12 1	Antivirus	Malware dete	High	DESKTOP-D80	pcalc_170462
	2018/09/12 1	Antivirus	Malware quar	Moderate	DESKTOP-D80	pcalc_170462
	2018/09/12 1	Containment	Virtually	Low	DESKTOP-D80	virtkiosk.exe

- Select 'Delete File' to remove the file from the device
- Select 'Restore from Quarantine' to move the file(s) from quarantine to their original location on the device

Rate Files as Trusted, Malicious or Unrecognized

If required, you can manually rate files as unrecognized, trusted or malicious. The new rating will be sent to endpoints during the next sync.

- Click 'Security Sub-Systems' > 'Security Dashboards' > 'Event View'
- Select the events involving the files of interest.
- Click the 'Change Rating' button
- Set your preferred rating from the options:

Event	View	File Viev	v					
Actio	on on point	Change R						
₽ s	earch file		file as Unrecognize	ed				
	DATE TI		file as Trusted	TION	SEVERITY	DEVICE NAME	FILE NAME	FILE PATH
	2018/09/	12 1	Containment	Virtually	Low	DESKTOP-D80	Astrolog.exe	C:\Astrol
	2018/09/	12 1	Antivirus	Malware dete	High	DESKTOP-D80	25786c51-414	C:\Users\.
	2018/09/	12 1	Antivirus	Malware quar	Moderate	DESKTOP-D80	25786c51-414	C:\Users\.

The new rating will be propagated to all endpoints during the next synchronization.

9.1.2. View Events by File

- Click 'Security Sub-Systems' > 'Security Dashboards' > 'File View'
- File view groups together all events concerning a particular file.
 - A file can generate events from multiple security modules on multiple devices at different times. All these events are grouped together and shown as a single row:

Event View	v File View							
Action on Endpoint	~ ~ ~							
₽ Searc	ch file HASH							२० ▼
	DATE TIME	COMPONENTS	ACTION	SEVERITY	# OF DEVICES	FILE NAME	FILE PATH	FILE HASH
	2018/09/12	Containment, Application control	Virtually, Insert items, Delete items	Low	1	Astrolog.exe	C:\Astr	87ABE 📑
• +	2018/09/12	Antivirus, Application control	Malware detected, Ignore, Malware quarantined, Malware restored from quarantine, Update items, Delete items, Insert items	High	1	25786c51-4	C:\Susp	3EF5D 📑
	2018/09/12	Containment	Virtually	Low	1	virtkiosk.exe	C:\Prog	47434
	2018/09/12	Antivirus, Application	Malware detected, Insert items	High	1	2473c2ca-4	C:\Susp	56237 📺

- You can expand the row to view individual events:
- Click the '+' at the left of a row to expand it and view a list of all events for a file.

₽ Searc	h file HASH							🤉 🔻
	DATE TIME	COMPONENTS	ACTION	SEVERITY	# OF DEVICES	FILE NAME	FILE PATH	FILE HASH
	2018/09/12	Containment, Application control	Virtually, Insert items, Delete items	Low	1	Astrolog.exe	C:\Astr	87ABE
			Malware detected, Ignore,					
,⊅ Searc	h file HASH							@ ¥
	DATE TIME	COMPONENTS	ACTION	SEVERITY	# OF DEVICES	FILE NAME	FILE PATH	FILE HASH
	2018/09/12	Containment, Application control	Virtually, Insert items, Delete items	Low	1	Astrolog.exe	C:\Astr	87ABE
	2018/09/12	Containment	Virtually	Low	1	Astrolog.exe	C:\Astr	ġ.
	2018/09/12	Application control	Insert items, Delete items	Low	1	Astrolog.exe	C:\VTR	d'i

Security Dashboards - Event View - Column Descriptions					
Column Header	Description				



Date/Time	The time at which the event occurred.
Components	Whether the 'Antivirus', 'Containment' or 'Application Control' that reported the event
Action	whether the Antivirus, Containment of Application Control that reported the event The nature of the event showing the how the file was handled by the CCS component. The possible actions are: Antivirus: • Detection of malware • Malware quarantined • Malware removed from quarantine • Malware removed from quarantine • Malware removed from infected file • Detected item ignored • Detected file blocked • File added to exclusions • File added to trusted files list • File reported as false positive from the results screen Containment • Virtually • File ignored Application Control: • File added to the file list • File removed from the file list
Severity	The criticality of the event. The possible values are: High Moderate Low
Number of devices	On how many devices the event was detected
File Name	The label of the executable file affected by the action
File Path	 The installation location of the executable file on the endpoint Click the icon to copy the path to the clipboard.
File Hash	 The SHA 1 hash value of the executable file Click the icon to copy the hash value to the clipboard.
	Controls
Action on Endpoints	Allows you to delete a file or restore a file from quarantine on the endpoint. Applicable only for events involving 'Malware quarantined' action. See Handle Quarantined Items



	for more details	
	Allow you to change the rating of the affected file to trusted, malicious or unrecognized. See Rate Files as Trusted, Malicious or Unrecognized for more details.	

Sorting, Search and Filter Options

- Click a column header to sort items in ascending or descending order
- The search box at the top allows you filter devices based on any parameter in the table.
- Click the funnel icon on the top right to open more filter options:

FILE NAME	FILE PAT	Date time			
	014-4-4	From		То	
Astrolog.exe	C:\Astrol.				
25786c51-414	C:\Users\	Components			
		All			~
25786c51-414	C:\Users)	Action			
		All			~
		Device name			
		Device nan	ne		
		File name			
		File name			
		File path			
	1	File path			
		File hash			
		File hash			
		Additional inf	ō		
		Additional			

• Use the search fields to filter the events by date/time, component, action, device name, file name, file path or SHA1 hash value.



• To display all items again, clear any search filters and click 'OK'.

You can use any combination of filters simultaneously to search for specific apps.

Handle Quarantined Items

- You can delete or restore quarantined items from the 'Security Dashboards' interface.
- Click 'Security Sub-Systems' > 'Security Dashboards' > 'File View'
- Select the event(s) in which the file(s) of interest are moved to quarantine.
- · Click 'Action on Endpoint' on top

Event	View	File View					
Actio		Change Rating					
Delet	e File						
Resto		Quarantine					
	d"	DATE TIME	COMPONENTS	ACTION	SEVERITY	# OF DEVICES	FILE NAME
	:	2018/09/12	Containment, Application control	Virtually, Insert items, Delete items	Low	1	Astrolog.ex
	£ 2	2018/09/12	Antivirus, Application control	Malware detected, Ignore, Malware quarantined, Malware restored from quarantine, Update items, Delete items, Insert items	High	1	25786 c51-4

- Select 'Delete File' to remove the file from the respective devices
- Select 'Restore from Quarantine' to move the file(s) from quarantine to their original location on the respective devices

Rate Files as Trusted, Malicious or Unrecognized

If required, you can rate the files affected by the events as unrecognized, trusted or malicious. Please make sure before marking a file as trusted. Any new file ratings will be sent to endpoints during the next sync.

- Click 'Security Sub-Systems' > 'Security Dashboards' > 'File View'
- Select the event(s) involving the file(s) of interest.
- Click the 'Change Rating' button
- Set your preferred rating from the options:

Event View	File View					
Action on Endpoint	Change Rating)				
	Rate file a	s Unrecognized				
	Rate file a	s Trusted				
	D Rate file a	s Malicious	ACTION	SEVERITY	# OF DEVICES	FILE NAME
	2018/09/12	Containment, Application control	Virtually, Insert items, Delete items	Low	1	Astrolog er
		Antivirus,	Malware detected, Ignore, Malware quarantined,			

The new rating will be propagated to all endpoints during the next synchronization.

9.2. View Contained Applications

- Click 'Security Sub-Systems' > 'Containment'
- The container is a secure environment in which files with an 'unknown' trust rating are run. 'Unknown' files have not yet been classified as either 'safe' or 'malware'.
- Contained applications are not permitted to modify files, user data or other processes on the host machine.
- You can also submit unknown applications to Valkyrie, Comodo's file analysis system. Valkyrie will test the file and attempt to classify it as 'safe' or 'malware'.

An application could be run inside the container because:

- It was auto-contained by rules in the EM configuration profile applied to the endpoint. See 'Containment Settings' in Create Windows Profiles for more details about containment rules in a profile.
- It was auto-contained by local Comodo Client Security rules on the endpoint
- The endpoint user ran the program inside the container on a 'one-off' basis. This can be helpful to test the behavior of new executables that have they downloaded.

You can view all programs that ran inside the container from the 'Containment' interface. Admins can also view the activity of processes started by contained applications. Admins have the option to rate a contained file as trusted or malicious.

To open the 'Containment' file list interface:

Click 'Security Sub-Systems' > 'Containment'

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Endpoint Manager		≡ Containment	
DASHBOARD	>		
DEVICES	>		Ē
	>	File Details Change Rating Record Download O Valkyrie report	heck Valkyri details
	>	FILE NAME FILE PATH	FILE
APPLICATION STORE	>	7E3690D7-658F-41 C:\Windows\Temp\7E3690	 09A8
BECURITY SUB-SYSTEMS	> ~	C_powershell.exe_D C:\ProgramData\Comodo\	DFA3
Security Dashboards Containment		406D1905-584E-41 C:\Users\Acronis Agent Us	 D4D1
Application Control Next Gen Sandbox		O9DA751A-08EB-4D C:\Users\Acronis Agent Us	5.1 E 001
Antivirus Device Control		ast64win.exe C:\Program Files\ast64win	5. 6784
SETTINGS	>	C:\Program Files (x86)\My	

Containment - Column Descriptions				
Column Heading	Description			
File Name	The executable that was run in the container.Click the name of the file to view its details.			
	• See View details of a contained application for more details.			
File Path	The location of the contained file on the local endpoint.			
	 Click the icon to copy the path to the clipboard. 			
File Hash	SHA1 hash value of the file.			
	 Click the icon to copy the hash value to the clipboard. 			
Number of Devices	The quantity of endpoints on which the item was identified.			
	Click the number to view a list of endpoints on which the item was found.			
	 This also allows you to view the activities of processes started by the item. For more details, see Device List Screen below. 			
Contained By	The reason the file was contained.			
Parent Process	The program or service that launched the contained application.			
Action	The permission level at which the file was executed in the container, or the action that was taken upon it. The possible values are:			

	Restricted - The file was run inside the container but had limited access to the operating system resources.
	• Virtually - The file was completely isolated from the operating system and files on the computer.
	Blocked - The file was not allowed to run at all.
	 Ignored - The file was allowed to run outside the container without any restrictions.
	Unknown - The containment status was not determined.
Status	The execution state of the file inside the container. The possible values are:
	Running
	Complete
	• Failed
Admin Rating	The trust rating of the file as set by the administrator. Files can be rated as trusted, malicious or unrecognized.
Date Contained	Date and time the file ran in the contained environment.
	Controls
File Details	View full details of the contained file including the devices on which it was contained and its activity.
Change Rating	You can change the rating of the contained file as trusted, malicious or unrecognized.
Record	Hide or delete a contained file record from the list.
Export	Export the list of contained files to a .csv file.
	The exported file can be viewed in 'Dashboard' > 'Reports'.
Download Valkyrie report	Valkyrie is Comodo's advanced file analysis and verdicting system. Each report contains an in-depth breakdown on the activity an unknown file, along with an overall verdict on its trustworthiness.
Check Valkyrie details	View Valkyrie file analysis of the contained file at https://valkyrie.comodo.com .
	4

- Click any column header to sort items in ascending/descending order of entries in that column.
- Click the funnel icon **Y** on the right to search for contained applications by name, file path, SHA1 file hash, admin rating, action, status and/or execution date.
- To display all the items again, remove / deselect the search key from filter and click 'Apply'.
- EM returns 20 results per page when you perform a search. To increase the number of results displayed per page up to 200, click the arrow next to 'Results per page' drop-down and choose the number.

Manage Contained Items

The 'Containment' interface allows you to:

- View details of a contained application
- Rate the files
- Hide / Unhide / Delete records
- Export file records as CSV file



- Download Valkyrie report
- View Valkyrie fie analysis report online

View details of a contained application

- Click 'Security Sub-Systems' > 'Containment'
- Click on a specific file-name in the list OR select a file and click 'File Details'
- This will open the file details interface which shows:
 - File Info General information such as file-name, path, age, hash and file-size.
 - Device List Shows endpoints upon which the file was found. This tab also tells you the device owner and lists any activities by the file. The next sections contain more info on these items:

Device List Screen

- Click 'Security Sub-Systems' > 'Containment'
- Click on a specific file name in the list OR select a file and click 'File Details'
- Click the 'Device List' tab

The 'Device List' shows endpoints on which the file was discovered and its activities. Admins can view processes executed by the file with details on data handled by each process.

File Info	Device list		
NAME	FILE PATH	DEVICE OWNER	ACTIVITY
AHMET	C:\Users\ahmetenes\Downloads\openhardwaremonitor-v0.8.0-beta\OpenHardwareMonitor\OpenHardwareMonitor.exe	demo_q3@yo_	View activity

View File Activities on Endpoints

- Click 'Security Sub-Systems' > 'Containment'
- Click on a specific file-name in the list OR select a file and click 'File Details'
- Click the 'Device List' tab
- Click the 'View Activity' link

Note: VirusScope must be enabled in the profile in effect on the endpoint for Endpoint Manager to collect file activity data. See **VirusScope Settings** in **Create Windows Profiles** for more details.

The 'Process Activity' interface will open. It has two tabs.

Summary - Shows basic file activity details

le Info	Device List
rocess	OpenHardwareMonitor.exe
ummary	Activity
Sumn	
Guillin	nor y
Path C:\Users\a	hmetenes\Downloads\openhardwaremonitor-v0.8.0-
Path C:\Users\a beta\Open	
Path C:\Users\a beta\Open Name	hmetenes\Downloads\openhardwaremonitor-v0.8.0-

Activity - Lists all processes executed by the files in chronological order:

File Info Device List			
Process OpenHardware	Monitor.exe		
Summary Activity			
DATE	ACTION	PATH	DETAILS
2016/09/20 09:34:10 AM	Create Process	C:\Program Files (x86)\COMODO\Comodo	Details
2016/09/20 09:34:10 AM	Create Process	C:\Windows\System32\conhost.exe	Details
2016/09/20 09:34:18 AM	Create Process	C:\Program Files (x86)\COMODO\Comodo	Details
2016/09/20 09:34:18 AM	Create Process	C:\Windows\System32\conhost.exe	Details
2016/09/20 09:36:58 AM	Create Process	C:\Program Files (x86)\COMODO\Comodo	Details
2016/09/20 09:36:58 AM	Create Process	C:\Windows\System32\conhost.exe	Details

The 'Activity' - Table of Column Descriptions				
Column Heading	Description			
Date	Date and time the process was executed			
Action	Task that was executed by the file			
Path	Location of the file affected by the action			
Details	View more information about the action			

• To view the details of an activity, click the 'Details' link under the 'Details' column

(conhost.exe						
	Details	Back					
	Date 2016/09/20 09:36:58 AM						
	Action Create Process						
	Path C:\Windows\System32\conhost.exe						
	Object Type Unknown						
	Cnd Line C:\Windows\System32\conhost.exe						

Rate files as trusted / malicious

If required, admins can rate contained files as unrecognized, trusted or malicious. Please make sure before marking a file as trusted. Any new file ratings will be sent to endpoints during the next sync.

- Click 'Security Sub-Systems' > 'Containment'
- Select the file(s) whose rating you wish to change
- Click the 'Change Rating' button

• Set your preferred rating from the options:

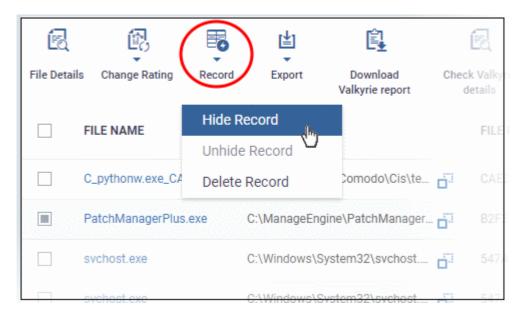
ß		Ē,	5	L L	<u>e</u>	ĺ	<u>ع</u>
File Detail	s	ChangehRating	Record	Expor	rt Download Valkyrie report		Valkyrie tails
	FI	Rate File as Rate File as			Н		FILE HASH
	C.	Rate File as	Unrecogni	zed	amData\Comodo\Cis\te	ġ.	CAED3E670B033B5C0BA4F3243
	Pa	atchManagerPlus	.exe (C:\Manag	geEngine\PatchManager	ġ.j	B2F2BDE193513E61C9C528753
	sv	chost.exe	(C:\Windo	ows\System32\svchost	di)	547AE8443B7BA206B3E47B1E6
	sv	chost.exe	(C:\Windo	ws\System32\svchost	ġ.	547AE8443B7BA206B3E47B1E6
	SV	chost.exe	(C:\Windo	ows\System32\svchost	ġ,	A2D14508B3EDDDF86D0D6672E
	117	SMAgent.exe	(C:\Progra	am Files (x86)\Comodo\	ġ.	27A449B8708C758E30A15C865

The new rating will be propagated to all endpoints during the next synchronization.

Hide / unhide / remove files from the list

The 'Record' button at the top allows you to change the visibility of file records and also to remove files from the list. **To hide a file record**

• Select a file, click 'Record' at the top and select 'Hide' from the options



The file will no longer will be displayed in the list. Please note you can hide multiple files at a time.

To unhide file records

• First click the filter icon, select 'Show with hidden file(s)'

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CONTAINED DV		
Containment Policy		Show with hidden file(s)
Containment Policy	Not	File name
N/A	Not	File path
N/A	No.	

Click 'Apply'

•

The hidden file records will now be visible and highlighted.

		8		0								Ø
File Details	Change Rating	Record	Esport	Download Valkyrie report		Valkyri# tafic						Ŧ
	FILE NAME		FILE PATH			FILE HASH		# OF DEVICES	CONTAINED BY	ADMIN RATING	DATE CONTAINED	
	C_pythonw.exe_CAEI		C:\ProgramDat	a\Comodo\Cis\te_		CAED3E670803385C0BA4F3243_	d3	2	Containment Policy	Not set	2017/07/14 07:52:05 PM	
	PatchManagerPlus.e	xe	C:\ManageEng	ine\PatchManager.	6 ³	B2F2BDE193513E61C9C528753	6 ³	1	Containment Policy	Not set	2017/07/14 07:51:01 PM	
	sychost.exe		C:\Windows\Sy	vstem32\svchost	d ³	547AE8443B7BA206B3E47B1E6	d ³	1	N/A	Not set	2017/05/23 09:00:30 AM	
	sychost.exe		C:\Windows\S)	rstem32\svchost	d ²	547AE8443878A20683E4781E6	d ²	1	N/A	Not set	2017/05/23 09:00:30 AM	
	svchost.exe		C:\Windows\Sy	ystem32\svchost	6 ³	A2D14508B3EDDDF86D0D6672E	ġ3	1	N/A	Not set	2017/05/09 06:33:07 PM	
	TSMAgent.exe		C:\Program File	es (x86)\Comodo\	d ²	27A44988708C758E30A15C865	di,	1	Containment Policy	Not set	2017/02/21 01:00:37 PM	
	sychost.exe		C:\Windows\S)	/stem32\svchost	ď	619652842AFE5F80E371907AE.	ē7	12	N/A	Not set	2017/02/21 08:36:13 AM	

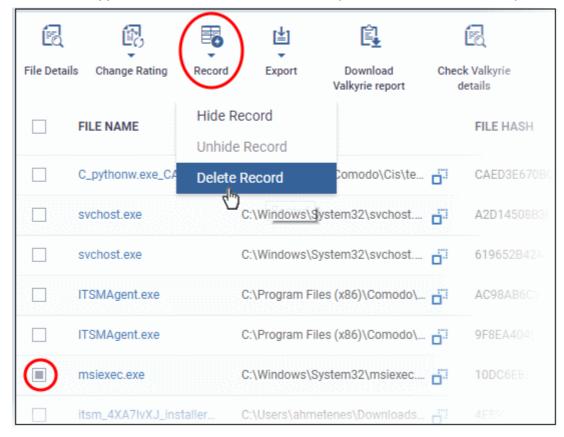
Select the file(s) that you want to unhide, click 'Record' at the top then 'Unhide' from the options.

File Deta	ils Change Rating	Record E	xport	Download Valkyrie report		Calkyrie etails
	FILE NAME	Hide Record				FILE HASH
	C_pythonw.exe_CA	Delete Reco	chu -	Comodo\Cis\te	ġ,	CAED3E670B033B5C0BA4:
	PatchManagerPlus.	exe C:\Ma	inageEngine	e\PatchManager	ġ,	B2F2BDE193513E61C9C52
	svchost.exe	C:\Wi	ndows\Syst	em32\svchost	ė,	547AE8443B7BA206B3E4
	svchost.exe	C:\Wi	ndows\Syst	em32\svchost	ġ3	547AE8443B7BA206B3E4
	svchost.exe	C:\Wi	ndows\Syst	em32\svchost	ġ,	A2D14508B3EDDDF86D0
	ITSMAgent.exe	C:\Pro	ogram Files	(x86)\Comodo\	ġ,	27A449B8708C758E30A1
	svchost.exe	C:\Wi	ndows\Syst	em32\svchost	ų.j	619652PACAS

The selected hidden file records will now be visible.

To remove file records

• To delete item(s), select from the list, click 'Record' at the top then 'Delete Record' from the options



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Click 'Confirm' in the confirmation dialog to remove the item(s) from the 'Containment' interface.

Delete File History		×
Entire file history will be removed. Do you want to continue?		
	Confirm	Cancel

Export file records as a CSV file

•

- Click 'Security Sub-Systems' > 'Containment'
- Click the funnel I icon to filter which records are included in the report.
- Click the 'Export' button and choose 'Export to CSV':

B	ē,	Ę	Ê	Ē		ů,		
File Deta	ails Change Rating	Record	Download Valkyrie report	Check Va detai		Export		_
	FILE NAME	FILE P/	ATH		FILE HAS	Export to CS	v U	OF DEVICES
	check.vbs	C:\Use	rs\win864\Docume	n 🛄	E8D0D84	98A113CB9D764.	- <u>6</u> 1	1
	C_powershell.exe_E	. C:\Pro	gramData\Comodo\	-	E31C1FC	879BFB7B8C3BB	- 63	1
	PXGLUYPA.vbs	C:\Use	rs\win864\AppData	\ <mark>6</mark> 3	D1F7540	FAB30E5912C87E	- <u>6</u> 1	1

The report will be generated in .csv file format.

Report has been created. Please, check «<u>Reports</u>» in dashboard

You can access the report in the 'Dashboard' > 'Reports' interface. See **Reports** if you need more help with this interface.

Valkyrie Reports

Files running in the container are analyzed and rated by Comodo's behavior analysis system, Valkyrie. Valkyrie tests unknown files with a range of static and dynamic behavioral checks to identify whether they are malicious or safe.

You can view the file rating in the 'Application Control' interface also. You can download a Valkyrie report or view it online at https://valkyrie.comodo.com/

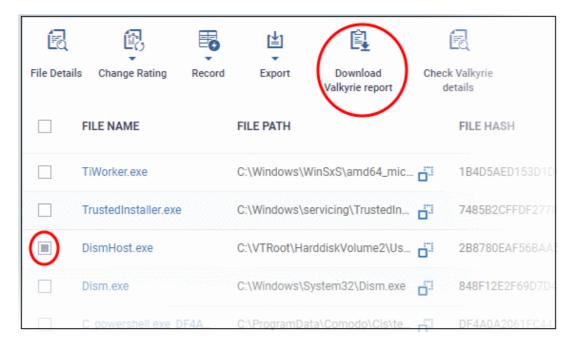
Download Valkyrie report

- Click 'Security Sub-Systems' > 'Containment'
- Select any file



Click 'Download Valkyrie report':

•



This will open the Valkyrie report on the contained file in PDF format:

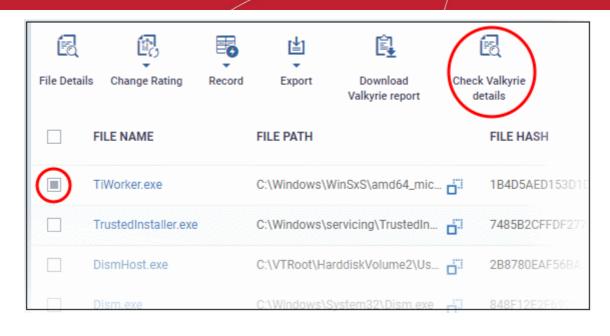
	File Name: DismHost.exe						
	File Type: PE32+ executable (GUI) x86-64, for MS Windows						
	SHA1: 2b8780eaf56baa53f53649bcffc10d9cc2e14a36						
	MD5: 418299/70b35752cb048ed773c59002e						
	First Seen Date: 2016-07-27 07:29:53 UTC						
CLEAN	Number of Clients Seen: 34 Last Analysis Date: 2016-07-27 07:29:53 UTC						
Valkyrie Final Verdict		ample vet					
	Human Expert Analysis Result: No human expert analysis verdict given to this sample yet.						
	Verdict Source: Trusted Vendor						
Analysis Summary							
Analysis Summary							
	Verdict Source: Trusted Vendor	•					
ANALYSIS TYPE	Verdict Source: Trusted Vendor DATE VERDICT	•					
ANALYSIS TYPE Signature Based Detection	Verdict Source: Trusted Vendor DATE VERDICT 2016-07-27 07:29:53 UTC Clean 2016-07-27 07:29:53 UTC No Threat Found	© 00 00 00					

You can also download and view the report at https://valkyrie.comodo.com/ after signing into your Valkyrie account.

View Valkyrie fie analysis report online

• Select the file from the list and click 'Check Valkyrie Details' at the top.

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You will be taken to the report summary page of the selected file at https://valkyrie.comodo.com/.

VALKYRIE ≡		🛦 SIGN IN
BB DASHBOARD	Summary Static Analysis Dynamic Analysis Procise Detectors Human Expert Analysis File Details	
⊖ STATISTICS >>	Copy VRL No Exact Hermits View Vites Kell Chein Austral Analysis Hermits Analysis Medice.	
⊙ SETTINGS >	CLEAN File Name: T/Worker son Valkyria Final Varist. File Type: FE324 accostable (OUI) #86-64, for MS Windows Stati:::::::::::::::::::::::::::::::::::	
	Analysis Summary	
	ANALYSIS TYPE DATE VERDICT	

- View a more detailed version of the Valkyrie analysis by logging in at https://valkyrie.comodo.com/. You can use your Comodo One username and password to login.
- See https://help.comodo.com/topic-397-1-773-9563-Introduction-to-Comodo-Valkyrie.html for help to use the Valkyrie online portal.

9.3. Manage File Trust Ratings on Windows Devices

- Click 'Security Sub-Systems' > 'Application Control' to open the 'Application Control' interface.
- Comodo Client Security (CCS) monitors all file activity on Windows devices. Every new executable is scanned against the Comodo white and blacklists then awarded a rating of 'Unrecognized', 'Trusted' or 'Malicious'.
- Files that have a rating of 'Unrecognized' or 'Malicious' are reported to the 'Application Control' interface. Admins can change the rating of a file as required.
- You can configure file analysis in the 'File Rating settings' section of the configuration profile applied to the device. See **File Rating settings** in **Creating a Windows Profile** for more details.



• See File Ratings Explained for background information on file ratings.

The Application Control Interface

The 'Application Control' interface lets you view the trust rating of files on an endpoint. Possible ratings are 'Unrecognized', 'Trusted' or 'Malicious', with 'Unrecognized' and 'Malicious' files being reported to this interface. You can manually set the rating of a file at your discretion.

- · Files rated as 'Trusted' are allowed to run as normal on the endpoint.
- Files rated as 'Malicious' are quarantined and not allowed to run.
- Files rated as 'Unrecognized' are run inside the container an isolated operating environment. Contained applications are not permitted to access files or user data on the host machine.

Any rating you set for a file is pushed to all managed endpoints on which the file is installed.

- You can also view a history of purged files. Purged files are those which existed on devices at one point in time, but are not currently present on any device.
- Apply the 'Show Purged Files' filter to view these files. See the explanation of Filter Options below.

You can also hide items as required.

• Click 'Security Sub-Systems' > Application Control' to open the application control interface:

B	Ē,		下					Q
File Det	ails Change Ratin	ig Record	Export					T
	FILE NAME	FILE PATH		FILE HASH	SIZE	# OF DEVICES	COMODO RATING	ADMIN RATING
	ccsetup539	C:\Users\stuxn	et\Desktop\ 📑	46AC9F993765F87FF419D	N/A	1	Trusted	Trusted
	CuteWriter3	C:\Users\cool\I	Desktop\Cu	3E5974149C4A3FBA9385	N/A	1	Malicious	Trusted
	disk-defrag	C:\Users\cool\I	Desktop\dis 📩	D5A179660F19786882D0A	7.8 MB	1	Trusted	Trusted

	Application Control - Table of Column Descriptions
Column Heading	Description
File Name	The label of the application/executable file.Click the name of a file to view its details.
	• See View file details given below for more details.
File Path	 The installation location of the application on the endpoint. Click the i icon to copy the path to the clipboard.
File Hash	 The SHA1 hash value of the executable file. Click the i icon to copy the hash value to the clipboard.
Size	The size of the executable file.
# of Devices	 The count of endpoints on which the item was found. Click the number to view the the 'Device List' interface with a list of endpoints containing the item. You can also view the activities of the item from here. For more details, refer to

	the description under Device List Screen below.
Comodo Rating	The rating of the file as per the Comodo File Look-up service, reported by the CCS installations at the endpoints. See File Ratings Explained for more details.
Admin Rating	Indicates the rating of the file as manually set by the administrator, if any.

Sorting, Search and Filter Options

- · Click any column header to sort items in alphabetical order
- Click the funnel icon T to open more filter options:

# OF DEV	Show purged file(s)	K			
5	Show only unrecognized file(s)				
2	Show with non-executable file(s)				
2	Show with hidden file(s)				
	File Name				
1	File Name				
2	File Path				
1	File Path				
1	SHA1	,			
	SHA1				
2	Size (in bytes)				
2	From	То			
1	# of Devices				
	From	То			
1	Comodo Rating				
2	All	v			
1	Admin Rating				
1	All	~			

• Use the check-boxes to show or hide purged, non-executable, hidden or unrecognized files.



- Use the search fields to filter by file name, file path or SHA1 hash value. You can also filter by file size and the number of devices on which the file is present.
- Use the drop-down boxes to filter items by Comodo and/or Admin rating
- To display all items again, clear any search filters and click 'OK'.

You can use any combination of filters simultaneously to search for specific apps.

Manage Applications

The Applications Control interface allows you to:

- View the details of files in the list
- View Process Activities of a File
- Assign Admin rating to a file
- Hide/Display selected files in the list
- Export the list of selected files to a CSV file
- Remove files from the list

View file details

• Simply click on a file in the list or select a file and click 'File Details' at the top. The 'file info' screen shows basic file details and the devices on which the file is present. You can also change the trust rating of the file in this area.

File information

- The file info screen shows file name, installation path, file type, version, size, hash values and the date the file was first encountered. The screen also shows the file's trust rating and the number of endpoints on which the file is present.
- The 'Change Rating' button allows you to manually set the file's rating as 'Trusted', 'Malicious' or 'Unrecognized':

File Info Device List	
Change Rating Record	
Rate File as Trusted	
Rate File 💭 Malicious	
Rate File as Unrecognized	
Type: Unknown	

The new rating will be sent to all endpoints.

• The 'Record' button lets you hide, display or remove the file from the 'Application Control' list

le Info Dev	vice List	
ē, (B	
Change Rating	Record	
Name:	Hide Record	
Astrolog.exe	dho	
	Unh 🖒 Record	
Path:		
	Unh 🕁 Record Delete Record	
Path:		

Device List Screen

- Click 'Security Sub-Systems' > 'Application Control' then click on a file in the list.
- Next, select the 'Device List' tab to see a list of all devices on which the file is present
- The 'Device List' Screen can also be opened by clicking on the number in the 'Number of Devices' column in the 'Application Control' table.
- The device list screen shows each endpoint on which the item was discovered. The screen also shows the installation path, the installation date and the file rating assigned by Comodo Client Security. The Viruscope column shows detailed info on processes started by the file.

File Ir	ifo Device Li	ist					
)elete						
	NAME	OWNER	COMPANY	PATH	AGE	RATING ON COMPUTER	VIRUSCOPE
	DESKTOP- HIP81N3	Dyanora	Dithers Construction Company	C:\Suspicious \x64\vt.exe	Apr 25, 2017	Unrecognized	View processes
Results p	Results per page: 20 V Displaying 1 of 1 results						

· You can remove the file from device(s) by selecting a device then clicking 'Delete'

View Process Activities of a File

Note: In order to fetch process activity data, VirusScope should be enabled in the profile in effect on the endpoint. See **VirusScope Settings** in **Create a Windows Profile** for more details.

To view the activities of a file on an endpoint

- Open the 'Device List' screen by clicking the file name or the number in the 'Number of Devices' column
- Click the 'View Processes' link in the 'Activity' column in the row of the device name.

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· This will open a list of processes executed by the file on the selected endpoint:

III De	lete						
	NAME	OWNER	COMPANY	РАТН	AGE	RATING ON COMPUTER	VIRUSCOPE
	DESKTOP- HIP81N3	Dyanora	Dithers Construction Company	C:\Suspicious \x64\vt.exe	Apr 25, 2017	Unrecognized	View processes
							lavion 1 of 1 com
Proce	ess List of	vt.exe 🗲					laving 1 of 1 rem
		Vt.exe 🗲	FILE	РАТН		DETAILS	lavina 3.of 1. per
PID	CRE4			PATH uspicious\x64\vt.exe			
Proce PID 5708 6608	CREA Apr 2	ATED AT	C:\S			DETAILS	vity

- Click 'View Activity' to see detailed information about each process. The 'Process Activity' interface has two tabs:
 - Summary Displays the name of the device and the installation path of the executable
 - Activity Displays a chronological list of activities by the selected process, including details of files modified by the process.

Process vt.exe					
Summary	Activity				
DATE	ACTION	PATH	DETAILS		
Apr 25, 2017	Load Image File	C:\Windows\System32\conhost.exe	Details		
Apr 25, 2017	Create Process	C:\Windows\System32\conhost.exe	Details		
Apr 25, 2017	Load Image File	C:\Windows\System32\guard64.dll	Details		
Apr 25, 2017	Load Image File	C:\Windows\System32\imm32.dll	Details		
Apr 25, 2017	Load Image File	C:\Windows\System32\version.dll	Details		

The 'Activity' - Table of Column Descriptions					
Column Heading	Description				
Date	Indicates the date and time of process execution				
Action	Action Indicates the action executed by the process on the target file				



Path	Indicates the path of the target file
Details	Contains a link to view details of the action

You can inspect a particular activity by clicking the 'Details' link:

Process vt.exe					
Summary	Activity				
DATE	ACTION	PATH	DETAILS		
Apr 25, 2017	Load Image File	C:\Windows\System32\conhost.exe	Details		
Apr 25, 2017	Create Process	C:\Windows\System32\conhost.exe	Details		
Conhost.ex	File System32\conhost.exe				
Not available	1				

Assign Admin Rating to a File

- Each file on an endpoint is automatically scanned and assigned a trust rating by Comodo Client Security on the endpoint.
- These ratings can be either 'Unrecognized', 'Trusted' or 'Malicious'. The rating for each file is shown in the 'Comodo Rating' column of the 'Application Control' interface.
- The file rating determines whether or how the file is allowed to run:
 - **Trusted** The file will be allowed to run normally. It will, of course, still be subject to the standard protection mechanisms of Comodo Client Security (behavior monitoring, host intrusion prevention etc).
 - Malicious The file will not be allowed to run. It will be automatically quarantined or deleted depending on admin preferences.
 - Unknown The file will be run inside the container. The container is a virtual operating environment which is isolated from the rest of the endpoint. Files in the container write to a virtual file system, use a virtual registry and cannot access user or operating system data.
- Automatic file rating can be configured in the 'File Rating' section of the configuration profile active on the endpoint. See File Rating settings in Create a Windows Profile for more details.
- Click 'Change Rating' in the 'Application Control' interface to manually set a rating for a selected file or files. The new rating will be propagated to all endpoints on which the item was identified and will determine the file's run-time privileges. Admin assigned ratings will be shown in the 'Admin Rating' column of the interface:

To assign a file rating to a file

- Select the file(s) whose rating you want to change and click 'Change Rating'.
- Choose the rating you want to from the drop-down:

File Deta	ils Change Rating) 🐺 🤺	≚] ▼ port	
	FL	as Trusted		FILE HASH
	2 Rate File	as Unrecognized	5c51-41 📋	3EF5D6E051420D3DD
	Astrolog.exe	C:\VTRoot\Harddi	skVolume	87ABE010028CC32D6
	Autorun-nat	C:\Suspicious File	s\ssts64\ 📋	30189F47644060066

As mentioned, the admin rating will be set and sent to all endpoints. The admin rating will determine the file's runtime privileges.

Hide/Display Selected Files

• Select the file(s) you want to hide and click 'Record' at the top

File Deta	ils Change Rating	Record Export		
	FILE NAME	Hide Record		FILE HASH
	25786c51-4	Delete Record	Ċ,	3EF5D6E051420D3DD
	Astrolog.exe	C:\VTRoot\HarddiskVolume	ġ3	87ABE010028CC32D6
- 14- 14-	Autorun-nat	C:\Suspicious Files\ssts64\	ġ.	30189F47644060066

• Select 'Hide / Unhide / Delete Record' as required.

To view hidden files

- Click the funnel icon at the top-right to open the filter options
- Select 'Show with hidden file(s)' and click 'Apply'



	SIZE	# OF DEV	
720A	145.5 kB	2	 Show purged file(s) Show only unrecognized file(s)
46F 6	337.5 kB	2	Show with non-executable file(s)
1 fi	ilter A	pply	Show with hidden file(s)
			File Name
			File Name
			File Path
			File Path
			SHA1

The hidden files will be included to the 'Application Control' interface. These files will be highlighted with a gray stripe.

To restore hidden files

- Click the funnel icon at the top-right to open the filter options
- Enable 'Show with hidden file(s)'
- Select the hidden files you want to restore click 'Record' and choose 'Unhide Record' from the drop-down

File Detail	S Change Rating	Record Export		
	FILE NAME	Hide Record		FILE HASH
		Unhide Record		
	25786c51-4	Delete Record	ġ,	3EF5D6E051420D3DD
	Astrolog.exe	C:\VTRoot\HarddiskVolume	ġ,	87ABE010028CC32D6
	Autorun-nat	C:\Suspicious Files\ssts64\	<u>i</u>	30189F47644060066

The files will be displayed in the file list permanently.

Export a Report of the Files List

You can export a file-rating report in .csv format as follows:

• Click 'Security Sub-Systems' > 'Application Control'

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- Click the funnel icon T to apply any filters you require
- Click the 'Export' button and choose 'Export to CSV':

File Det	•	g Record Export			
	FILE NAME	FILE PATH	ASH	SIZE	# OF DEVICES
	ccsetup539	C:\Users\stuxnet\Desktop\ 📩	46AC9F993765F87FF419D	N/A	1
	CuteWriter3	C:\Users\cool\Desktop\Cu	3E5974149C4A3FBA9385	N/A	1
	disk-defrag	C:\Users\cool\Desktop\dis	D5A179660F19786882D0A	7.8 MB	1

The report will be generated in .csv file format.

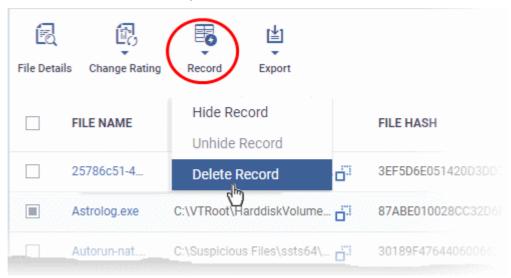
Report has been created. Please, check «<u>Reports</u>» in dashboard

The report will be available in the 'Dashboard' > 'Reports' interface. See **Reports** if you need more help with this interface.

Remove files from the list

You can hide files that you no longer wish to see in the list. The files will be removed from the list but will not be deleted from the endpoints.

- · Select the files you want to remove and click 'Record' at the top
- · Choose 'Delete Record' from the drop-down



9.3.1. File Ratings Explained

Comodo Client Security (CCS) rates files on Windows devices as follows:

Unrecognized Files

Files that could not be identified as 'Trusted' or 'Malicious' by Comodo Client Security (CCS). You can review these files and can manually rate them as 'Trusted' or 'Malicious' as required.

Trusted Files

Files that are safe to run. Files can be classed as safe by the following:

- File lookup service (FLS) When a file is first accessed, CCS will check whether it is on Comodo's master whitelist and blacklists. The file is classed as trusted if:
 - The application is on the whitelist
 - The application is from a vendor in the 'Trusted Software Vendors' list
- Admin rating The application control interface lets you assign a trusted rating to files. Click 'Security Sub-Systems > 'Application Control'
- User rating Users can assign a trusted rating to a file in the CCS interface. There are two ways to do this:
 - At a security alert. If an executable is unknown then it may generate a HIPS alert on the local endpoint. Users could choose 'Treat this as a Trusted Application' at the alert
 - In the 'File List' interface. From the CCS home screen, click 'Tasks' > 'Security Settings' > 'File Rating' > 'File List'.

CCS creates a hash of all files that a user classifies as 'Trusted'. So, even if the file name is changed, it will keep its trusted status because the hash remains same. This is particularly useful for developers creating new applications which, by their nature, are unknown to the Comodo.

Malicious Files

Files on the Comodo blacklist will be quarantined or deleted by CCS. These files are reported to Endpoint Manager as malware.

9.4. View List of Valkyrie Analyzed Files

- Click 'Security Sub-Systems' > 'Next Gen Sandbox'
- The 'Next Gen Sandbox' interface lists unknown files identified on all endpoints, along with their Valkyrie ratings.
 - Valkyrie is a cloud-based file analysis service that tests unknown files with a range of static and behavioral checks. The service helps Comodo establish whether an unknown file is malicious or safe.
 - You can configure Comodo Client Security on endpoints to automatically upload unknown files to Valkyrie.
- You can also view Valkyrie statistics by clicking 'Dashboard' > 'Valkyrie'.
- You can schedule the upload of unknown files in the 'Valkyrie' section of a Windows profile. See Valkyrie Settings if you need help with this.

Note: The version of Valkyrie that comes with the free version of Endpoint Manager is limited to the online testing service. The 'Premium' and 'Managed' versions of EM also includes manual file testing by Comodo research labs. This helps enterprises quickly create definitive whitelists of trusted files. Valkyrie is also available as a standalone service. Contact your Comodo account manager for further details.

To open the 'Next Gen Sandbox' interface

• Click 'Security Sub-Systems' > 'Next Gen Sandbox'

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Endpoint Manager			<u>^</u>	License Options	စ္ကာ 🖧 Loga	ut (coyoteewile@yahoo.com)
DASHBOARD	>					
DEVICES	>]			
A USERS	>	View File Details Expo	ort			
	>	FILE NAME▲	FILE PATH	SHA1	FILE RATING	FIRST SEEN DATE BY COMODO
	>	24x7mp_set	C: \VTRoot\HarddiskVolum	e8bb5426cc6256ddec8a4c	Clean	2017/04/25 12:33:41 PM
	>	4758cca.dll	C:\OpenSSL-Win32\bin\47	0743acdfc87b0eb25f18c6	Clean	2016/07/27 08:54:13 PM
SECURITY SUB-SYSTEMS	~	6ABCA9177	C: \Users\Giri\AppData\Lo	f16f5b98ce1f83ef3225804	Clean	2017/05/30 05:26:21 PM
Security Dashboards Containment		7z.dll	C: \Program Files (x86)\7-Z	ee72ebed1d5db6b4b15cc5	Clean	2016/04/26 06:50:31 AM
Application Control		7z.exe	C:\Program Files (x86)\7-Zi	8fbe4a34d3afebb1231420	Clean	2016/02/26 01:50:05 PM
Next Gen Sandbox		7zG.exe	C:\Program Files (x86)\7-Zi	d4b5aa08b5decb1f85c8fc	Clean	2016/01/07 01:28:06 PM
Device Control		7-zip.dll	C:\Program Files (x86)\7-Zi	f0ae3b89dff28ded243250	Clean	2016/05/19 11:06:05 PM
		AboveLockA	C: \Windows\SoftwareDistr	ae3cad3ca9ea9d926f331c 🗄	Clean	2017/03/20 11:59:36 AM

Column Heading	Description
Oolullin Heading	Description
Name	The label of the unknown item
Path	The installation location of the file on the endpoint
	 Click the icon to copy the file path to the clipboard.
Hash	The SHA1 hash value of the unknown file
	 Click the clipboard.
File Rating	The file's trust verdict from Valkyrie. The possible values are:
	Clean - The file is safe to run
	No Threat Found - No malware found in the file, but cannot say it is safe to run
	Malware - The file is malicious and should not be allowed to run.
	• Potentially Unwanted Application - Applications such as adware, browser toolbars etc. These applications are often bundled as an 'extra utility' with freeware applications. Users might not be aware they are installed, or may not be aware of their full functionality. For example, a browser toolbar may also contain code that tracks a user's activity on the internet.
First Seen by Comodo	Date and time at which the file was first received by Valkyrie.
View File Details	Complete information about a selected item. See View the details of files in the list for more.
Export	Save the list of analyzed files as a comma separated values (csv) file. See Export the List of Valkyrie Analyzed Files for more details.

View the details of files in the list

Administrators can view complete details of files identified as 'Unknown' and uploaded to Valkyrie for analysis.

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24x7 24x7 4758 Gen F 2 F a S 6 M 6 5 6 M 1 F C C C	Ľ				
24x7 24x7 4758 Gen F 2 F a S 6 M 6 5 6 M 1 F C C C	ails Expo				
3 4758 Gen F 2 F a S 6 M 6 6 S 6 M 1 F C C C	E NAME 🔺	FILE PATH	SHA1	FILE RATING	
Gen F 2 F a S S e M 6 S S 6 M 1 F C C C	0mp_set	C: \VTRoot\HarddiskVolum	e8bb5426cc6256ddec8a4c	Clean	
F 2 F a S S e M 6 5 5 6 0 N 1 1 F C C	58cta.dll	C:\OpenSSL-Win32\bin\47	0743acdfc87b0eb25f18c6		
2 F a S 6 6 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	eneral Info				
2 F a S 6 6 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		-			
F a s e M 6 S 6 M 1 F C C	File name 24x7mp_set	tun ton			
S e 6 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	File type application/				
M 6 6 1 1 7 7 0 0	SHA1	c6256ddec8a4c7b7ff2218021d668b4			
S 6 N 1 F C C	MD5	c986586f70a0d1df7db856			
N 1 F C C	Size 686.7 kB	69000001/0808101/09000			
F C C	Number of e	endpoints seen			
C	1 File rating				
	Clean Comodo rat	ing			
	Not rated				
	Admin ratin				
F		ate by Comodo			
		of rating			

The 'General Info' screen displays file details like file name, installation path, file version, size, hash value and file ratings assigned by Comodo and by EM Administrator.

Export the List of Valkyrie Analyzed Files

Export the list of files to a .csv file as follows:

- Click 'Security Sub-Systems' > 'Next Gen Sandbox'.
- Click the 'Export' button above the table then choose 'Export to CSV':

View File I	Details)			
F	FILE NA Expo	rt to CSV	SHA1	FILE RATING	
	24x7mp_set	C: \VTRoot\HarddiskVolum	e8bb5426cc6256ddec8a4c	Clean	
	4758cca.dll	C:\OpenSSL-Win32\bin\47	0743acdfc87b0eb25f18c6	Clean	

- The CSV file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

9.5. Antivirus and File Rating Scans

• Click 'Security Sub-systems' > 'Antivirus' to open this area.

The area allows you to:

- View the infection status of managed Windows, Mas OS, Linux and Android devices.
- Run antivirus and file rating scans on devices.
- View a consolidated list of all malware on all endpoints.
- · View all quarantined files on Windows, Mac OS and Linux devices
- · View an all-time history of threats discovered on all endpoints
- Manually delete, quarantine or ignore malicious files

Endpoint Manager		Antivirus / Device List			· · ·		License Option	ns 🔁 g	⑦ 名 Logout (hero	ulespopular:	22@gmail.com)
DASHBOARD	>										
DEVICES	>	Search group name	، ե	Devid	ce List Currer	nt Malware List	Quarantined Files	Threat History			
A USERS	>	😕 Show all	ø	Scan 🗸	👼 Stop Scan	Protective	Action 🗸 🛛 😽 Update Ar	ntivirus DB	Export 🗸		O T
	>	 → ● Default Customer → ● Fork Springs Regional Transp 		os	NAME	OWNER	ANTIVIRUS DB STATE	ANTIVIRUS DB	ANTIVIRUS DB DATE	RUN BY	SCAN TYPE
APPLICATION STORE	>	+ 🖨 frontfork						VERSION			
APPLICATIONS	>	🛞 🖶 Saddle and Pedals		255	DESKTO	Avanti	Failed	29858	2018/10/22 03:27:54	Schedule	Custom Scan
SECURITY SUB-SYSTEMS	~				DESKTO	herculespop	Updated	29334	2018/07/12 04:34:47	Schedule	Custom Scan
Security Dashboards Containment					DESKTO	Dyanora	Updated	29858	2018/10/22 03:47:02	Schedule	Custom Scan
Application Control				۲	Herald	Herald	Updated	29819	2018/10/15 03:38:35	Unknown	Unknown
Next Gen Sandbox Antivirus				۵	Joe Linux	Herald	Updated	29859	2018/10/22 04:02:42	Schedule	Antivirus Qui
Device Control	5				LENOVO	Avanti	Updated	64	N/A	Portal	SD Card Scan
· · · · · · · · · · · · · · · · · · ·									N/A		

The 'Antivirus' interface has five tabs:

- **Device List** Shows the status of all managed devices with regards to antivirus health. The interface shows:
 - The date and type of the most recent virus scan
 - Whether or not the device is using the latest virus database
 - The malware status of the device (clean, infected or unknown)

You can also run a on-demand scan on a device, and delete/quarantine/ignore threats.

See The Device List Interface for more details.

- Current Malware List Lists all unprocessed malware residing on managed devices. You can delete, ignore or quarantine specific pieces of malware on specific devices, or apply these actions to multiple threats at once. See Viewing and Managing Identified Malware for more details.
- Quarantined Files Malware which has been quarantined by Comodo Client Security on Windows, Mac and Linux devices. You can delete or restore quarantined items, or assign a trust rating to items. See View and Manage Quarantined Items for more details.
- Threat History A log of all malicious items found on Android, Windows, Mac OS and Linux devices over time. See View Threat History for more details.

The Device List Interface

The 'Device List' screen displays the infection status of Android, Mac OS and Windows devices. From here you can:

- Run on-demand antivirus scans on selected devices
- Run file rating scans on Windows devices
- Choose the action to be taken on malware discovered by scans.
- Update the AV database on endpoints
- Export device list data from the table

Note: You can run virus scans on specific areas of a device and setup ongoing, scheduled scans. These tasks are configured in the 'Antivirus' section of the device's configuration profile. See:

- Windows see Custom Scans and Create Windows Profiles.
- MAC see Scan Profiles and Create a Mac OS Profile.
- Linux see Create and Manage Scan Profiles and Create a Linux Profile

To open the 'Device List' interface:

- Click 'Security Sub-Systems' > 'Antivirus'
- Select the 'Device List' tab
- Select a company and group on the left to view all devices in it Or
- Select 'Show All' to view all devices enrolled to EM

Search group name	، ۴	Devic	e List Currer	nt Malware List	Quarantined Files	Threat History			
😕 Show all	, <u></u> s	Scan 🚽	Stop Scan	G Protective	Action - Egy Update An	tivirus DB	Export 🗸	Q	Y
+		OS	NAME	OWNER	ANTIVIRUS DB STATE	ANTIVIRUS DB VERSION	ANTIVIRUS DB DATE	RUN BY	SC
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			Herald	Herald	Updated	29631	2018/09/05 04:50:21	Unknown	Un
			DESKTO	Avanti	Updated	29666	2018/09/14 12:27:54	Schedule	Cu
		Δ	Joe Linux	Herald	Updated	29666	2018/09/14 01:30:19	Schedule	An
		i H	🌒 samsun	Dyanora	Updated	71	N/A	Portal	SD
			LENOVO	Avanti	Updated	71	N/A	Portal	SD

The list displays all Android, Windows, Mac OS and Linux devices along with their last scan details, infection status and antivirus database update state.

	Antivirus Device List - Column Descriptions
Column Heading	Description
OS	The operating system of the device.
Name	 The label of the device on which the threat was found. If no name was assigned then the model number of the device is used. Gray text color shows the device has been offline for the past 24 hours. Click the name of the device to open its device details interface. See Manage Windows Devices, Manage Mac OS Devices, Manage Linux Devices and Manage Android / iOS Devices for more details.
Owner	 The name of the device user. Click the user name to view more details about the user See View the User Details for more details.
Antivirus DB State	The update status of the virus signature database on the device.
Antivirus DB Version	The version number of the virus signature database on the device
Antivirus DB Date	The date and time at which the AV database was last updated
Run By	 The source that initiated the last scan. An antivirus scan or a file rating scan can be initiated in the following ways: Portal - Manually run by an admin from the EM interface. See Run Antivirus and/or File Rating Scans on Devices for more details. User - Manually run by the end-user at the device itself. Scheduled - Automatically run as per the schedule defined in the configuration profiles effective on the device.
Scan Type	Indicates the type of the last scan ran on the device. The possible types of scan are:

	 Antivirus Full Scan - Applies to Windows, Mac OS and Android devices. Antivirus Quick Scan - Applies to Windows, Mac OS and Android devices. File Rating Quick Scan - Applies only to Windows devices. Custom Scan - Applies to Windows and Mac OS devices. Manual Scan - Applies to Windows and Mac OS devices SD Card Scan - Applies only to Android devices.
Scan State	Status of the last scan run on the device. Possible states are: Not scanned yet Complete Scanning Failed Viruses found Canceled Command sent
Scan Date	The date and time at which the last scan was run.
Malware Status	 The infection status of the device. Devices with untreated malware are listed as 'Infected'. Click the 'Infected' link to view a list of malware on all managed devices. You can remove, quarantine or ignore the malware direct from this list. See View and Manage Identified Malware if you want more help on this. Alternatively, you can also view/manage malware from the device details screen. Click "Security Sub-Systems' > 'Antivirus' > 'Device List'. See Handle Malware on Scanned Devices for more details.
	Controls
Scan	Run a manual scan on selected devices. See Run Antivirus and/or File Rating Scans on Devices for more details.
Stop Scan	Terminate any type of on-going scans on selected devices. This includes on-demand scans run from the EM console, scheduled scans run by the security profiles active on the device and any on-demand scan run by the local user from the Comodo Client - Security (CCS) application on the device. See Run Antivirus and/or File Rating Scans on Devices for more details.
Protective Action	Remove, quarantine or ignore threats found on infected devices. See Handle Malware on Scanned Devices for more details.
Update Antivirus DB	Manually run a virus signature update on selected devices. See Update virus signature database on Windows, Mac OS and Linux Devices for mode details.
Export	Save the device list, including current statuses, as a .csv file. The exported .csv is available in 'Dashboard' > 'Reports' See Export the List of Devices for more details.

The 'Antivirus' > 'Device List' interface allows you to:



- Run Antivirus and/or File Rating Scans on Devices
- Handle Malware on Scanned Devices
- Update virus signature database on Windows, Mac OS and Linux Devices

Sorting, Search and Filter Options

- · Click any column header except 'Antivirus DB version' to sort items in ascending/descending order
- Click the funnel icon I on the right to filter items by various criteria.
 - Start typing or select the search criteria in the search field to find a particular item and click 'Apply'
 - To display all items again, clear any filters and search criteria and click 'Apply'.
- EM returns 20 results per page when you perform a search. Click the arrow next to the 'Results per page' drop-down to increase results up to a maximum of 200.
- Use the left and right arrows and the page numbers to navigate to the page you want to view.

Export device list records as a CSV file

- Click 'Security Sub-Systems' > 'Antivirus' > 'Device List'
- Click the funnel i icon to filter which records are included in the report.
- Click the 'Export' button and choose 'Export to CSV':

<	ቴ	Device List Current Malware List		Quarantined Files	Threat History	Threat History		
	₫	Scan 🗸	Stop Scan	Protective	Action 🗸 🛛 层 Update A	ntivirus DB	Export -	
		OS	NAME	OWNER	ANTIVIRUS DB STATE	ANTIVIF DB VERSION		RUN
			DESKTO	Dyanora	Empty DB	1	Unknown	Unk
NAME:			Herald	Herald	Updated	29631	2018/09/05 04:50:21	Unka
	in ja ta			Avanti	Undated	<u>2</u> 9666	2010/00/14 12:27:54	

- The .csv file will be available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

9.5.1. Run Antivirus and/or File Rating Scans on Devices

- Click 'Security Sub-Systems' > 'Antivirus' > 'Device List'.
- The interface lets you run virus and file rating scans on Android, Mac OS, Windows and Linux devices.

Note: The scans interface lets you manage on-demand scans only. For automated scans, please create a scan schedule in a configuration profile then push it to selected devices/groups. See **Create Configuration Profiles** for more details.

To launch an on-demand scan

Click 'Security Sub-Systems' on the left then select 'Antivirus'



- Click the 'Device List' tab
 - Select a company or a group to view their devices Or
 - Select 'Show All' to view all devices enrolled to EM
- Select the devices you wish to scan
- Choose a scan type from the 'Scan' drop-down
- The scan command will sent to the target devices and the scan will commence immediately

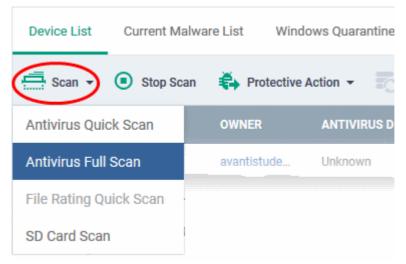
Tip: You can access filters by clicking the funnel icon at the top right. For example, you may want to display only devices with Last Scan States of 'Unknown', 'Scan Failed' and 'Scan Canceled'.

The scan types available depend on the OS of the selected device(s). The scan type defines the areas to be scanned on the selected device(s). The following sections explain the scan process for:

- Android Devices (Quick Scan, Full Scan, SD Card Scan)
- Windows Devices (Quick Scan, Full Scan, File Rating Quick Scan)
- Mac OS Devices (Quick Scan, Full Scan)
- Linux Devices (Quick Scan, Full Scan)

Android Devices

 Click 'Scan Device' and choose the 'Scan Profile' from the drop-down to select the area to be scanned on the device.



The available scan profiles are:

- Antivirus Quick Scan Scans critical areas of the device which are highly prone to attack from viruses, rootkits and other malware. Areas scanned include RAM, hidden services and other significant areas like system files. These areas are of great importance to the health of the device so it is essential to keep them free of infection.
- Antivirus Full Scan Scans all folders/files in both the system internal memory and the SD card.
- SD Card Scan Scans all folders/files in the Secure Digital (SD) memory card mounted on the device.

The scan command will be sent to the selected device(s) and the scan status will be displayed in the 'Last Scan State' column for each device.

- If you want to terminate the scan, choose the devices and click 'Stop Scan' from the options at the top.
- If malware is found after the scan then the 'Last Scan State' will say 'Infected'. Infections identified after the scan will be treated according to settings in 'Settings' > 'Portal Set-Up' >Android Client Configuration' > 'Antivirus'. See Configure Android Client Antivirus Settings for more details.

- If 'Manual control' is chosen, then you have the option to uninstall or ignore from the 'Current Malware List'. See View and Manage Identified Malware for more details.
- You can also choose to uninstall or ignore the identified malware by clicking the respective buttons at the top. See Handle Malware Identified from Scanned devices section for more details.

Windows Devices

 Click 'Scan Device' and choose the 'Scan type/Scan Profile' from the drop-down to select the area to be scanned on the device.

< 唱 Device List Curre	ent Malware List Window
Scan Stop Scan	Protective Action 🗸
Antivirus Quick Scan	
Antivirus Full Scan	OWNER ANTIVIRU
File Rating Quick Scan	
SD Card Scan	

The available scan types/profiles are:

- Antivirus Quick Scan Scans critical areas of the device which are highly prone to attack from viruses, rootkits and other malware. Areas scanned include. Areas scanned include include system memory, auto-run entries, hidden services, boot sectors and other significant areas like important registry keys and system files. These areas are of great importance to the health of each computer so it is essential to keep them free of infection.
- Antivirus Full Scan Scans every local drive, folder and file on each computer. Any external devices like USB drives, digital camera and so on are also scanned.
- File Rating Quick Scan Runs a cloud-based assessment of files on the device to determine the trust rating of each file. The 'Quick' rating scan checks commonly infected areas and memory.

Files are rated as:

- Trusted the file is safe
- Unknown the trustworthiness of the file could not be assessed
- Bad the file is unsafe and may contain malicious code

The scan command will be sent to the selected device(s) and the scan status will be displayed in the 'Scan State' column for each device.

- If you want to terminate the scanning on selected devices, choose the devices and click 'Stop Scan' from the options at the top.
- If malware is found on completion of scan the Scan State will indicate 'Viruses Found'. You can choose to uninstall, ignore, delete the identified malware or to move them to quarantine at the endpoint for later analysis. See Handle Malware Identified from Scanned devices for more details.
- Items moved to quarantine are encrypted and saved in the endpoint itself, so that they are isolated from the rest of the system.
- You view the quarantined items from the 'Quarantine' interface. The Quarantine interface allows you to:
 - Delete an item, if it is identified as malicious
 - Restore the file to its original location on the endpoint if the item is a false-positive. You can also
 rate a file as 'Trusted' to restore it to the endpoint. Doing so will effectively white-list the file by
 giving it a 'Trusted' rating in the local CCS database.

• See View and Manage Quarantined Items for more details.

Mac OS Devices

 Click 'Scan Device' and choose the 'Scan Profile' from the drop-down to select the area to be scanned on the device.

< と	nt Malware List Windows
Scan Stop Scan	Protective Action 🗸
Antivirus Quick Scan	
Antivirus Full Scan	OWNER ANTIVIRU
File Rating Quick Scan	
SD Card Scan	

The available scan profiles are:

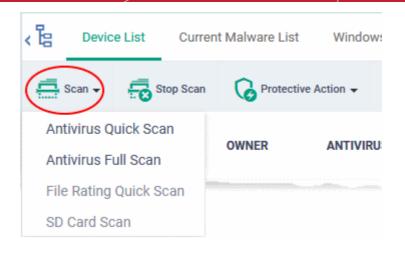
- Antivirus Quick Scan Scans important operating system files and folders including system memory, auto-run entries, hidden services.
- Antivirus Full Scan Scans every local drive, folder and file on your system including external devices, storage drives, digital cameras.

The scan command will be sent to the selected device(s) and the scan status will be displayed in the 'Last Scan State' column for each device.

- If you want to terminate the scan on certain devices, choose the devices and click 'Stop Scan' from the
 options at the top.
- If malware is found on completion of scan the Last Scan State will indicate 'Viruses Found'. You can choose to uninstall, ignore, delete the identified malware or to move them to quarantine at the endpoint for later analysis. See Handle Malware Identified from Scanned devices for more details.
- Items moved to quarantine are encrypted and saved in the device itself, so that they are isolated from the rest of the system.
- You view the quarantined items from the 'Quarantine' interface. The Quarantine interface allows you to:
 - Delete an item, if it is identified as malicious
 - Restore the file to its original location on the endpoint if the item is a false-positive.
 - See View and Manage Quarantined Items for more details.

Linux Devices

• Click 'Scan Device' and choose the scan type from the drop-down menu:



- Antivirus Quick Scan Scans important areas which are frequently targeted by malware. Areas scanned include system memory, important registry keys, auto-run entries, operating system folders and hidden services.
- Antivirus Full Scan Scans every local drive, folder and file on your system. Connected devices like USB sticks and external drives are also scanned.

The status of current, or previous, scans is shown in the 'Last Scan State' column.

- Terminate a scan Select target devices then click 'Stop Scan' from the options at the top.
- 'Viruses Found' You can uninstall, ignore, quarantine or delete the identified malware. See Handle Malware Identified on Scanned devices for more details.

9.5.2. Handle Malware on Scanned Devices

- Click 'Security Sub-Systems' > 'Antivirus' > 'Device List'
- Click the 'Protective Action' button to remove, ignore or quarantine the malware.

Note:

- This interface lets you apply actions to all malware found on specific devices.
- If you instead want to apply actions to individual malware, please use the 'Current Malware List'.
 - Click 'Security Sub-Systems' > 'Antivirus' > 'Current Malware List'.
 - See View and Manage Identified Malware if you need more help with this interface.

To apply actions to ALL malware on selected devices

- Click 'Security Sub-Systems' > 'Antivirus'
- Click the 'Device List' tab
 - Click a company name/group on the left to view their devices Or
 - · Select 'Show All' on the left menu to view every device enrolled to EM
 - Select device(s) with a malware status of 'Infected' using the check-box(es) on the left.

Tip: You can filter the list or search for specific device(s) by clicking the funnel icon at the top right of the table.

• Click 'Protective Action' above the table and select your desired action:

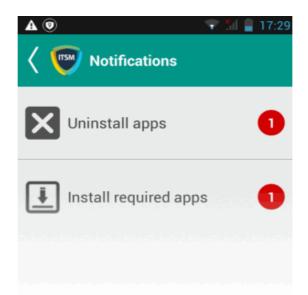
、 ធៃ	Devi	ce List Curre	nt Malware List	Quarantined Files	Threat History		
e	Scan 🗸	Stop Scar	Protective	Action - E Update A	Antivirus DB	Export 🗸	
	OS	NAME	Delete Quarantine	IS DB STATE	ANTIVIRUS DB	ANTIVIRUS DB DATE	R
		DESKTO	Ignore	Ċ	VERSION	Unknown	U
		Herald	Herald	Updated	29631	2018/09/05 04:50:21	U
		DESKTO	Avanti	Updated	29666	2018/09/14 12:27:54	P
				لمتمتعلي			

The actions available depend on the OS of the device chosen:

For Android Devices:

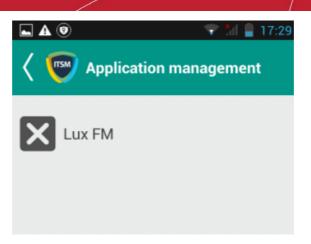
- Delete Removes the malicious app
- **Ignore** Ignores malware found by the last scan. The item will be identified as malware again on the next scan.

For the 'Delete' operation, a notification will be sent to the selected devices to uninstall the app(s):



The notification shows the number of threats which will be removed from the device.

• Touch the alert to view all items which are ready for removal.



Tap on the malware to be removed, confirm the removal in the next dialog and follow the uninstall wizard.

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X Lux	FM		
Applica	tion manage	ment	
Applica	tion should be r	emoved	
	Uninstall		

For Windows. Mac OS and Linux Devices

- **Delete** Instructs CCS on the endpoint to clean the malware.
 - If a disinfection routine is available, CCS will disinfect it and retain the original file.
 - If a disinfection routine is not available, CCS will delete the application.
- Quarantine Moves the malware to quarantine on the device.
 - Click 'Security Sub-Systems' > 'Antivirus' > 'Quarantined Files' to manage quarantined files.
 - Based on their trustworthiness, you can remove them from the device or restore them to their original locations. See View and Manage Quarantined Items for more details.

9.5.3. Update Virus Signature Database on Windows, Mac OS and Linux Devices

- Click 'Security Sub-Systems' > 'Antivirus' > 'Device List'
- Select a device using the check-boxes on the left > Click the 'Update Antivirus DB' button



• You can update the database manually or according to a schedule.

Automatic Updates

- Windows devices Configure the 'Update' component of the Windows profile applied to a device. See Client Security Update in Creating Windows Profiles for more details.
- MAC OS devices Configure the 'Antivirus' component of the Mac OS profile applied to a device. See Configure Antivirus Settings in Antivirus Settings for Mac OS Profile for more details.
- Linux devices Configure the 'Antivirus' component of the Linux profile applied to a device. See Antivirus Settings for Linux Profile for more details.

Manual Updates

•

- · Click 'Security Sub-Systems' on the left then select 'Antivirus'
- Click the 'Device List' tab
 - Click a company or a group to view only their devices Or
 - · Select 'Show All' to view every device enrolled to EM
 - Select the Windows, Mac OS and/or Linux device(s) on which you wish to update the virus database

Tip: You can filter the list or search for specific device(s) by clicking the funnel icon at the top right of the table.

Click 'Update Antivirus DB' from the options at the top:

<u>Antivirus</u> > Device List		F	Request has beer	n successfully s	ent	Licer	nse
Ø Search group name	، ใช	Devic	e List Currer	nt Malware List	Windows Quarantine	macOS Qu	Jara
B Show all	6	Scan 🗸	Stop Scan		Action - 层 Update An	ntivirus DB	
						ANTIVIRUS	
+ 🖶 Chennai IT Services		OS	NAME	OWNER	ANTIVIRUS DB STATE	DB	
+ ECoyote						VERSION	
🔹 🖶 Deer Company			DESKTO	avantistude	Updated	28689	
🔹 🖶 Default Company			DESKTO	Dyanora	Updating	28683	
🔹 🖶 Dithers Construction Company			o blonnoil	byanona	opouting	20000	
🔹 🖶 Horizon		Щ.	samsun	Greg Wonde	Unknown	10	
🔹 🖶 Kanchi Customer			011/000			00464	
🕂 🖶 kanchiidly			CW002	coyoteewile	Updated	28461	
∓ 🖶 Sky walk			Sony Eri	Impala	Unknown	10	

A command will be sent to target devices to start downloading the updates.

9.6. View and Manage Identified Malware

- Click 'Security Sub-Systems' > 'Antivirus' > 'Current Malware List'
- The 'Current Malware List' shows malicious items on which no action has yet been taken.
- · You can use this interface to clean, ignore or quarantine the items.
- You can also assign a 'Trusted' rating to an item. Use this option if you think the item is a false positive. The
 item will not be flagged by future scans.



Notes:

Android Devices:

• If AV options are set to 'automatically uninstall' or 'ignore' in a device profile, then the item will be handled accordingly and not shown in the 'Current Malware List'.

See Antivirus Settings in Profiles for Android Devices for more details.

Windows Devices:

Real-time virus monitoring:

- Threats will be shown in the list if:
 - 'Show antivirus alerts' is disabled and 'Block Threats' is chosen as the default action in the profile
 active on the device

OR

- 'Show antivirus alerts' is enabled and the user decides to block the threat at an alert.
- Threats will NOT be shown in the list if:
 - 'Show antivirus alerts' is disabled and 'Quarantine Threats' is set as the default action OR
 - 'Show antivirus alerts' is enabled and the user quarantines the threat at an alert.
- To view the settings above:
 - Click 'Configuration Templates' > 'Profiles' > Click the name of any Windows profile > 'Antivirus' tab > Open the 'Realtime Scan' tab.
- See Realtime Scan settings in Antivirus Settings if you need more help with this.

Scheduled and manual scans:

- Threats will be shown in the list only if 'Automatically clean threats' is disabled in the profile active on the device.
- To view the setting above:
 - Click 'Configuration Templates' > 'Profiles' > *Click the name of any Windows profile* > 'Antivirus' tab > 'Scans' tab > Click the 'Edit' icon beside a profile > Click the 'Options' bar.
- See Custom Scans in Antivirus Settings if you need more help with this.

Mac OS Devices:

- Threats will only appear in this list if 'Auto-Quarantine' is disabled in the profile on the device.
- Threats will NOT appear in this list if:
 - 'Auto quarantine' is enabled in 'Realtime scanning', 'Manual Scanning' and 'Scheduled Scanning'
 - 'Auto quarantine' is disabled but the user chooses to quarantine the item from an alert
- See Configure Antivirus Settings in Antivirus Settings for Mac OS Profile under Create a Mac OS Profile for more details.

Linux Devices:

- Threats will only appear in this list if 'Auto-Quarantine' is disabled in the profile on the device.
- Threats will NOT appear in this list if:
 - · 'Auto quarantine' is enabled in 'Realtime scanning' and 'Scheduled Scanning'
 - 'Auto quarantine' is disabled but the user chooses to quarantine the item from an alert
- See 'Configure Scanner Settings for CCS for Linux' in Antivirus Settings for Linux Profile in Create a Linux Profile for more details.



To view the malware list

•

- Click 'Security Sub-Systems' > 'Antivirus'
- Click the 'Current Malware List' tab
 - Click a company or a group to view malware identified on their devices Or
 - · Select 'Show All' to view malware identified on every device in EM

Search group name	، ۴	Device	List Current M	Malware List Quaranti	ned Files Threat History			
😼 Show all	ت ن)elete Malv	vare 👸 Ignore	Malware 💽 Quarantine	Malware 😥 Rate as Trusted	Export 🗸		O Y
 Image: Default Company Image: Imag		OS	DEVICE NAME	APPLICATION NAME	PACKAGE NAME / FILE PATH	FILE HASH	SIGNATURE	DETECTION DATE
🕂 🖶 Saddle and Pedals		۵	Joe Linux	eicar_com.zip	/home/comodo/Suspicio	ė ³	Malware	2018/09/14 09:43:
		,	samsung_S	eicar_com.zip	/storage/emulated/0/Do	ġ,	Android.Test	2018/09/14 10:32:
			DESKTOP	2473c2ca-414b-11e8	C:\Suspicious\venom - C	562370	Malware@#	2018/09/12 12:19:
		4	• DESKTOP	25786c51-414b-11e8	C:\Suspicious\poison\25	3EF5D6	Malware@#	2018/09/12 12:10:
			DESKTOP	pcflank.exe	C:\Suspicious Files\Bewa	ⁱ ³	Valkyrie.Aut	2018/07/11 03:02:

	Current Malware List - Column Descriptions
Column Heading	Description
OS	The operating system of the device on which the malware was identified.
Device Name	The label of the device on which threats were found.
	If no name was assigned then the model number of the device is used.
	Gray text color shows the device has been offline for the past 24 hours.
	 Click the name of the device to open its device details interface. See Manage Windows Devices, Manage Mac OS Devices, Manage Linux Devices and Manage Android / iOS Devices for more details.
Application Name	The label of the infected file.
Package Name / File	Windows, Linux and Mac OS devices - Shows the location of the malware
Path	Android devices - Shows the package name or identifier.
	• Click the icon to copy the package name/ file path to the clipboard.
File Hash	The SHA1 hash value of the file.
	 Click the icon to copy the hash value to the clipboard.
Signature	The malware signature.
	 Signatures enable the scanner to identify viruses. Each malware signature represents a snippet of malicious code unique to a virus.
	• The signatures of known-malware are stored in the local antivirus database. This is also known as the 'blacklist'.
	• If the scanner finds a file with a signature that matches one on the blacklist then it raises a virus alert.
Detection Date	Date and time that the malware was discovered.



	Controls
Delete Malware	Uninstalls/removes the malware infected item from the device.Applies to items identified from devices of all operating systems.
Ignore Malware	The item will be allowed to remain on the device. Applies to items identified from Android devices only.
Quarantine Malware	Moves the selected items to quarantine on the respective devices.Applies to items identified from Windows, Mac OS and Linux devices.
Rate as Trusted	 Awards 'Trusted' file rating to the selected items. Please make sure before marking a file as trusted. Use this option only for false positives and genuine items. Applies only to items identified from Windows devices.
Export	Save the list of currently displayed threats as a comma separated values (CSV) file. The exported .csv is available in 'Dashboard' > 'Reports' See Export the List of Malware for more details.

Sorting, Search and Filter Options

- Click any column header to sort items in ascending/descending order.
- Click the funnel icon I on the right to filter items by various criteria.
 - Start typing or select the search criteria in the search field to find a particular item and click 'Apply'
 - To display all items again, clear any filters and search criteria and click 'Apply'.
- EM returns 20 results per page when you perform a search. You can increase results up to a maximum of 200.

Take Actions on Identified Malware

- You can uninstall/delete malicious items from the devices on which they were found.
- Alternatively, if you think an item is a false positive, you have the following options:
 - Ignore malware Applies to items identified on Android devices only. The item will not be uninstalled and will be skipped in the future scans.
 - Rate as 'Trusted' Applies to items identified on Windows devices only. The item will be allowed to
 run and will be skipped in future scans.
- If an item is found to be suspicious, you can choose to move it to quarantine for later analysis and removal.

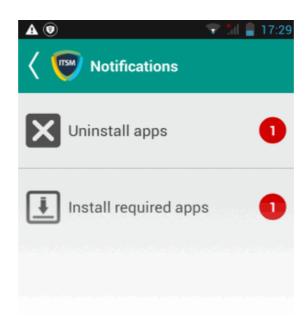
The options at the top of the table let you take actions on selected items. The available actions depend on the operating system of the device(s).

End	poin	t Manager	· - Administrat	or-Guide		COMODC Creating Trust Onlin
، ۴	Device	EList Current M	lalware List Quaranti	ned Files Threat History		
	elete Mal	ware 🧞 Ignore I	Malware Quarantine	Malware 😥 Rate as Trusted	Export 🗸	
	OS	DEVICE NAME	APPLICATION NAME	PACKAGE NAME / FILE PATH	FILE HASH	SIG
	۵	Joe Linux	eicar_com.zip	/home/comodo/Suspicio	ċ	I Ma:
	P	samsung_S	eicar_com.zip	/storage/emulated/0/Do	d	Anc
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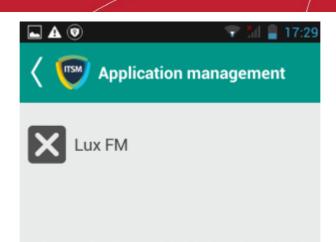
Threats identified on Android Devices

First, select the items on which you want to take the action. Then click one of the following:

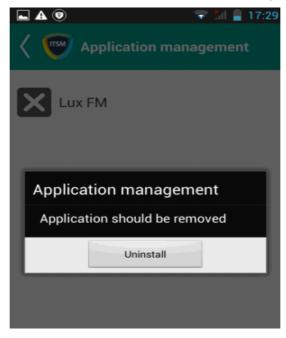
- **Ignore Malware** Select if the item is a false positive. The item will remain on the device and skipped in future scans.
- **Delete Malware** Select if you want to remove the malware from the device. The following notification will be sent to the affected device:



• Touch the alert to view a list of all items which are ready to be removed:



Tap on the malware to be removed, confirm the removal in the next dialog and follow the uninstall wizard.



Threats identified on Windows Devices:

First, select the items on which you want to take the action. Then click one of the following:

- Delete Malware Will remove the malware from the device.
- Quarantine Malware The items will be moved to quarantine on the respective devices. You can delete the items from quarantine later, or restore them to their original locations. See View and Manage Quarantined Items for more details.
- Rate as Trusted Trusted files are considered safe to run. Trusted items can run outside the container on devices and will be skipped in future scans. See File Ratings Explained for more details on trust ratings of files.

Threats identified on Mac OS Devices:

First, select the items on which you want to take the action. Then click one of the following:

- Delete Malware Will remove the malware from the device.
- Quarantine Malware The items will be moved to quarantine on the respective devices. You can delete the items from quarantine later, or restore them to their original locations. See View and Manage Quarantined Items for more details.

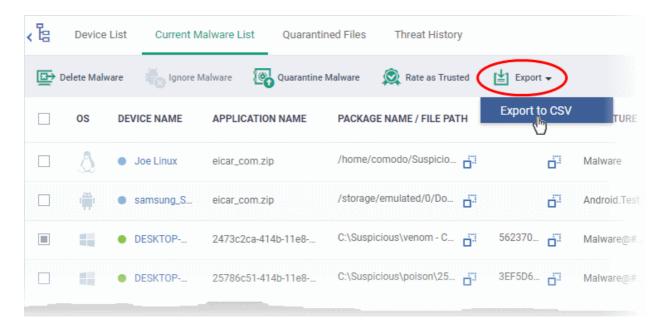
Threats identified on Linux Devices:

First, select the items on which you want to take the action. Then click one of the following:

- Delete Malware Will remove the malware from the device.
- Quarantine Malware The items will be moved to quarantine on the respective devices. You can delete the
 items from quarantine later, or restore them to their original locations. See View and Manage Quarantined
 Items for more details.

Export the List of Malware

- Click 'Security Sub-Systems' > 'Antivirus' > 'Current Malware List'
- Click the funnel i icon to filter which records are included in the report.
- Click the 'Export' button then choose 'Export to CSV':



- The .csv file is available in 'Dashboard' > 'Reports'
- See Reports in The Dashboard for more details.

9.7. View and Manage Quarantined Items

- Click 'Security Sub-Systems' > 'Antivirus' > 'Quarantined Files' to open the quarantine interface
- This interface lists all items moved to quarantine by CCS on managed Windows, Linux and Mac OS devices.
- Quarantine is a secure holding area for potentially dangerous files. Quarantined files pose no threat to your system.
- You can delete or restore quarantined items, or assign a file rating to them.
- File ratings determine how CCS handles the file:
 - · Files rated as 'Malicious' will stay in quarantine on the device.
 - Files rated as 'Unrecognized' will be restored to their original locations on the device. Future virus scans may flag them as malicious again.
 - Files rated as 'Trusted' will be restored to their original locations on the device. These files will be skipped by future antivirus scans.



How do threats get quarantined on a Windows device?

Real time scans - Threats will be placed in quarantine if:

- 'Show antivirus alerts' is disabled and 'Quarantine Threats' is set as the default action in the profile on the device. This setting can be found in the 'Realtime Scan Settings' section of the profile's antivirus component.
- 'Show antivirus alerts' is enabled in 'Realtime Scan Settings' and the end user quarantined the threat at an alert.
- See Realtime Scan settings in the section Antivirus Settings under Creating Windows Profile

On-demand / Scheduled scans - Threats will be placed in quarantine if:

- 'Automatically clean threats' is enabled and 'Quarantine' is set as the action in the profile on the device.
- See Custom Scans in Antivirus Settings if you need more help with this.

Manual quarantine:

- Admins can move threats to guarantine from the 'Current Malware List' interface.
- · End-users can move files to quarantine on their endpoint.
- See View and Manage Identified Malware for more details.

How do threats get quarantined on a MAC?

Real time scans - Threats will be placed in quarantine if:

- 'Automatically quarantine threats found during scanning' is enabled is enabled in the profile on the device. This setting can be found in the 'Realtime Scan Settings' section of the profile's antivirus component.
- The end user chooses to quarantine the threat from a displayed alert
- See the explanation of Realtime Scanner settings in the section Antivirus Settings for Mac OS Profile under Create a Mac OS Profile

On-demand / Scheduled scans - Threats will be placed in quarantine if:

- 'Automatically quarantine threats found during scanning' is enabled in the 'Antivirus' > 'Scanner Settings' > 'Manual Scanning' settings/ 'Scheduled Scanning' settings of the profile on the device
- See the explanations of Manual Scanner settings and Scheduled Scanner settings in the section Antivirus Settings for Mac OS Profile under Create a Mac OS Profile.

Manual quarantine:

- An administrator moved a threat to quarantine from the 'Current Malware List' interface
- · An end-user moved a file to quarantine on the endpoint
- See View and Manage Identified Malware for more details.

How do threats get quarantined on Linux?

Real time scans - Threats will be placed in quarantine if:

- 'Automatically quarantine threats found during scanning' is enabled in the profile on the device. This
 setting can be found in the 'Realtime Scan Settings' section of the profile's antivirus component.
- The end-user chooses to quarantine the threat at an alert
- See the explanation of Realtime Scanner settings in the section Antivirus Settings for Linux Profile under Create a Linux Profile

On-demand / Scheduled scans - Threats will be placed in quarantine if:

'Automatically quarantine threats found during scanning' is enabled in the 'Antivirus' > 'Scanner Settings' >



'Realtime Scanning' settings/ 'Scheduled Scanning' settings of the profile on the device

• See the explanations of **Realtime Scanner settings** and **Scheduled Scanner settings** in the section Antivirus Settings for Linux Profile under Create a Linux Profile

Manual quarantine:

- An administrator moved a threat to guarantine from the 'Current Malware List' interface
- An end-user moved a file to quarantine on the endpoint
- See View and Manage Identified Malware for more details.

Items moved to quarantine are encrypted and not allowed to run.

From this interface, you can:

- Assign a rating to quarantined files (trusted, malicious or unrecognized)
- Delete them permanently
- Restore them to their original location

Files rated as 'Trusted' will be restored to their original location and awarded a 'Trusted' rating in the local CCS database.

To open the 'Quarantined Files ' interface

- Click 'Security Sub-Systems' > 'Antivirus'
- Click the 'Quarantined Files' tab
 - Select a company or a group to view malware identified on their devices Or
 - · Select 'Show All' on the left menu to view malware identified on all devices enrolled to EM

Search group name	، ۴	Devic	e List Curre	nt Malware List	Quarantined F	Files Threat Histor	/		
🖽 Show all	₽	Delete File	e(s) from Device	Restore File(s) on Devices	Rate as Unrecognized	Rate as Trusted	d 🍓 Rate as Malicious	O Y
+ 昌 Default Company + 昌 herculespopular		OS	FILE NAME	HASH	SIGNATURE	COMODO RATING	ADMIN RATING	DEVICES DETECTED ON	FIRST QUARANTINED
→			eicar.com	339585	ApplicUnwnt	Not set	Not set	1	2018/08/09 11:48:17
		۵	eicarcom2.zip	BEC1B5	Malware@#	Not set	Not set	1	2018/08/09 05:30:09
		8	eicar_com.zip	D27265	Malware@#	Not set	Not set	1	2018/08/09 05:30:09

'Quarantine Files' - Table of Column Descriptions						
Column Heading	Description					
OS	The operating system of the device at which the item was quarantined.					
File Name	 The file that was moved to quarantine. Click the name of a file to view its details. See View details of a quarantined item for more details. 					
Hash	 The SHA1 hash value of the quarantined file Click the clipboard. 					
Signature	The name of the identified malware. 'User Item' indicates the file was moved to quarantine manually by the user on the endpoint.					

Comodo Rating	The file's trust level as rated by CCS.					
Admin Rating	The trust rating of the file as set by the administrator. Files can be rated as trusted, malicious or unrecognized.					
Devices Detected On	 The number of devices on which the item was quarantined. Click the number to view the list of devices on which the item was quarantined See the explanation of Device Details given below 					
First Quarantined	Date and time at which the malware was identified and quarantined the first time.					

The 'Quarantine' interface allows you to:

- · View details of a quarantined item
- Restore False Positives from Quarantine
- Remove Malware files from the devices
- Rate files as 'Unrecognized', 'Trusted' or 'Malicious'
- Export the list of quarantined files as a CSV file

View Details of a Quarantined Item

- Click 'Security Sub-Systems' > 'Antivirus' > 'Quarantined Files'
- Click on the file name of an item in the list:

File Info Device List	
_6ji5WZD.zip.part	
OS	Windows
Name of the file	_6ji5WZD.zip.part
Hash	BEC1B52D350D721C7E22A6D4BB0A92909893A3AE
Signature	Malware@#2256q1i2knmti
Comodo Rating	Malicious
Admin Rating	Not set
Devices Detected on	1
First Quarantined	2018/07/11 03:20:00 PM

- This will open the file details interface which shows:
 - File Info General information such as OS, file-name,hash, file ratings, number of devices on which the file was quarantined and more.
 - Device List Shows list of endpoints upon which the file was found with heir details like installation
 path of the file on each device, the device owner and the date and time at which the file was
 quarantined.

evice	e Deta	ils					
File In	nfo I	Device List					
D 🔁	elete File(s) from Device	File(s) on Devices 👩 Rate	e as Unrecognized 🙍 Rate as 1	rusted ••• More	Ø	Y
	OS	DEVICE NAME	FILE PATH	DEVICE OWNER	DATE QUARANTINED		
100		DESKTOP-Q74RLIJ	C:\Users\John\App	herculespopular22@gmail.cor	n 2018/07/11 03:20:08 P	M	
		DESKTOP-Q74RLIJ	C:\Users\John\App	herculespopular22@gmail.cor	n 2018/07/11 03:20:00 P	M	

The options on the top let you to:

- Restore False Positives from Quarantine on a device
- Remove the item from a device
- Rate files as 'Unrecognized', 'Trusted' or 'Malicious'
- See the following sections for more details

Manage Quarantined Items

- If your review confirms that a quarantined item is a genuine threat then it can be deleted from endpoints.
- Conversely, if an item is is found to be a false positive, you can restore it to its original location.
- You can also rate a file as unrecognized, trusted or malicious based on your assessment. The new verdict will be sent to all endpoints and will be reflected in the 'Unrecognized' and 'Trusted' interfaces.

Restore False Positives from Quarantine

 If the identified item is a false positive, select the item from the list and click 'Restore File(s) on Devices' from the options at the top.

The item will be restored to its original location on all devices and removed from the list.

، گ	Device	e List Current	Malware List	Quarantined Files	Threat History	
	elete File((s) from Device	Restore File(s) on	Devices 👩 Ra	te as Unrecognized	Rate as Trusted
	OS	FILE NAME	наян	SIGNATURE	COMODO RATING	ADMIN RATING
	4	_6ji5WZD.zip	BEC1B52	Malware@#2	Malicious	Not set
		Chandif Ib sin	D272650 📑	Malware@#2	Molinieure	Nation
		Selected file(s)	successfully resto	red		

Remove Malware files from the devices

• Select the item(s) from the list and click 'Delete File(s) From Device' from the options at the top.

۲Ъ Device List Current Malware List Quarantined Files Threat History Restore File(s) on Devices ⊡→ Delete File(s) from Device Rate as Unrecognized Rate as Truste **0**S FILE NAME HASH SIGNATURE COMODO RATING ADMIN RATING BEC1B52... 6ji5WZD.zip... Malware@#2.. Malicious Not set lware@# Delete File(s) from Device × Do you really want to delete selected file(s) from all device(s)? Confirm

• Click 'Confirm' in the confirmation dialog.

The file will be deleted from all devices at which it was quarantined and removed from the list.

Rate files as 'Unrecognized', 'Trusted' or 'Malicious'

- If the rating of a quarantined file is changed to 'Trusted' or 'Unrecognized', the file is restored to its original location. The new rating is also stored in the CCS database on the devices.
- To change the rating of a quarantined file, select it and click the appropriate button at the top:

، لو	Device	List Current I	Malware List	Quarantined Files	Threat History			
•	elete File(s) from Device	Restore File(s) on I	Devices 🛃 Rat	te as Unrecognized	Rate as Trusted	Rate as Malicious	
	os	FILE NAME	HASH	SIGNATURE	COMODO RATING	ADMIN RATING	DEVICES DETECTED ON	FIR
		_6ji5WZD.zip	BEC1B52	Malware@#2	Malicious	Not set	1	
		5tnedfJb.zip.p	D272650	Malware@#2	Malicious	Not set	1	

A confirmation will be displayed and the information will also be sent to the devices.

- · Files rated as 'Malicious' will stay in quarantine on the device.
- Files rated as 'Unrecognized' will be restored to their original locations on the device. Future AV scans may
 flag them as 'malicious' again.
- Files rated as 'Trusted' will be restored to their original locations in the device. These files will be whitelisted and skipped by future antivirus scans.

Export quarantined files records as a CSV file

Click 'Security Sub-Systems' > 'Antivirus' > 'Quarantined Files' tab

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- Click the funnel *i* icon to filter which records are included in the report.
- Click the 'Export' button and choose 'Export to CSV':

، لو	Devi	ce List Curre	nt Malware List	Quarantined F	iles Threat History			
	Delete Fi	e(s) from Device	Restore File(s)	on Devices	Rate as Unrecognized	👰 Rate as Trusted	Rate as Malicious	Export -
	os	FILE NAME	HASH	SIGNATURE	COMODO RATING	ADMIN RATING	DEVICES DETECTED ON	Export to CSV
	-	pcalc_17046	EB9592	Malware@#	Unrecognized	Not set	1	2018/09/12 12:18:28
		.com.google	339585	ApplicUnwnt	Malicious	Not set	1	2018/09/04 09:37:48
	A	004504545	CAE9R5	Malummet	Notest	Mateat	1	2010/00/24 11-22-20

The report will be generated in .csv format.

Report has been created. Please, check «<u>Reports</u>» in dashboard

The file will be available in 'Dashboard' > 'Reports'. See Reports if you need more help with this interface.

9.8. View Threat History

 Click 'Security Sub-Systems' > 'Antivirus' > 'Threat History' to view all malware discovered on devices since you deployed Endpoint Manager.

The 'Threat History' area shows all malicious events found on managed devices over time. The list shows items that have been removed from devices and those which are still present.

• You can remove unnecessary entries from the list

To view threat history

- · Choose 'Security Sub-systems' on the left then select 'Antivirus'.
- Click the 'Threat History' tab.
 - Select a company or a group view a log of malware identified on their devices Or
 - Select 'Show All' on the left menu to view a log of malware identified on all devices added to EM

Search group name	group name Current Malware List Windows Quarantine macOS Quarantine Threat History								
😼 Show all	3	lean His	tory for File(s)						O Y
ABC TV Services ABC TV Services Dennai IT Services		os	DEVICE NAME	APPLICATION NAME	PACKAGE NAME / FILE PATH	SIGNATURE	STATUS	FIRST DETECTION -	LAST DETECTION
💿 🖨 Coyote			• VIJAYALA	pcflank.exe	E:\work\Suspicious Files	ApplicUnwnt	In quarantine	2018/03/20 08:09:	2018/03/20 08:09
Default Group - Deer Company Default Group - Deer Company Default Group - Deer Company		44	• DESKTOP	eicar.com	C:\Users\Joe\Downloads	ApplicUnwnt	Infected	2018/03/19 11:36:	2018/03/19 11:40
O / Inch tabs Default Group			• DESKTOP	eicar_com.zip	C:\Users\Joe\Downloads	Malware@#	Infected	2018/03/19 11:36:	2018/03/19 11:40
D Innotek PCs Mac Machines		4	• DESKTOP	EYi_SvUV.zip.part	C:\Users\Joe\AppData\L	Malware@#	Infected	2018/03/19 11:28:	2018/03/19 11:40
 Running Staff 		Ť	samsung	eicar_com.zip	/storage/emulated/0/Do	Android.Test	Infected	2018/03/19 11:22:	2018/03/20 10:43
Default Company Ditheration Company			• VIJAYALA	TrojanSimulator.exe	E:\work\ccav\All_tests\Tr	Application	Infected	2018/03/16 06:28:	2018/03/20 08:09

Antivirus Threat History - Column Descriptions

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Column Heading	Description					
OS	The operating system of the device on which the malware was found.					
Device Name	The label assigned to the device. If no name was assigned by the end-user, the model number of the device is used. A gray text color indicates the device has been offline for the past 24 hours.					
	Click the device name to view granular details about the device.					
	See Manage Windows Devices, Manage Mac OS Devices, Manage Linux Devices and Manage Android / iOS Devices for more details.					
Application Name	The name of the infected application.					
Package Name / File Path	The Android package name or identifier of the package from which the app was installed. For Windows, Linux and Mac OS devices, the file path of the detected malware is shown.					
Signature The name of the identified malware.						
Status	Whether the malware was uninstalled or is yet to be uninstalled.					
First Detection	Date and time of the scan which first discovered the malware on the device.					
Last Detection	Date and time of the last scan to discover the malware.					

To remove unwanted entries from the 'Threat History' interface

• Select the log entries you want to remove then click 'Clean History for File(s)' at the top

، ۴	Devic	e List	Curren	t Malware List	Window	ws Quarantine	macOS Quara	antine Thre	at History
(D)	Clean His	tory for File((s)						
	os	DEVICE	NAME	APPLICATION I	NAME	PACKAGE NAM	IE / FILE PATH	SIGNATURE	STATU
		• VIJA	YALA	pcflank.exe		E:\work\Suspic	ious Files 📋	ApplicUnwnt	
		A VIJA	YALA	DNStest.zip		E:\work\ccav\A	All_tests\D	ApplicUnwnt	
		• VIJA	YALA	Surfer.zip		E:\work\ccav\A	All_tests\S	ApplicUnwnt	
	1	V					177 mm - 17		
		Delete	File H	listory					×
		Entire fil	le histor	y will be remove	d. Do you	ı want to contin	nue?		
							Confi	irm Canc	el

• Click 'Confirm' to remove the entries from the list

• Deleting file history will only remove the log entry. The file will not be removed from the device or from any other interfaces in which it is listed (for example, the quarantine list).

Sorting, Search and Filter Options

- Click any column header to sort items in ascending/descending order of the entries in that column
- Click the funnel icon I on the right to filter items by various criteria, including by OS, device name, application name, package name/file path, signature, status and first/last detection dates.
- Start typing or select the search criteria in the search field to find a particular item and click 'Apply'
- To display all items again, clear any filters and search criteria and click 'Apply'.
- EM returns 20 results per page when you perform a search. Click the arrow next to the 'Results per page' drop-down to increase results up to a maximum of 200.
- Use the left and right arrows and the page numbers to navigate to the page you want to view.

Export threat history records as a CSV file

- Click 'Security Sub-Systems' > 'Antivirus' > 'Threat History' tab
- Click the funnel i icon to filter which records are included in the report.
- Click the 'Export' button and choose 'Export to CSV':

<	Ŀ	Device	List Current N	Malware List	Windows Quarantine	macOS Quara	intine	Threat History	
	3	Clean Histor	y for File(s)	Export 👻					
		OS		cport to CSV		IAME / FILE PATH	SIGNA	TURE STATUS	S
			DESKTOP	jre-10.0.1_windov		obby1\Deskto	Applic	Unwnt In quarant	ine
			DESKTOP	jdk-10.0.1_windo	ws-x C:\Users\bo	obby1\Deskto 💾	Applic	Unwnt In quarant	ine

The report will be generated in .csv file format.

Report has been created. Please, check «<u>Reports</u>» in dashboard

Click 'Dashboard' > 'Reports' to view the report. See Reports if you need more help with this interface.

9.9. View History of External Device Connection Attempts

- Click 'Security Sub-Systems' > 'Device Control' to view all connection attempts from external devices to your Windows endpoints
- Endpoint Manager can create a log entry when an external device attempts to connect to a Windows endpoint. External devices include USB devices, DVD drives, printers, Bluetooth devices etc.
- These logs are created when the Windows profile contains the 'External Devices Control' section. See External Devices Control Settings for more details.
- · You can also generate a report of external device connection attempts.

To view a history of device connections:

Click 'Security Sub-Systems' > 'Device Control'

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Endpoint Manager	:	Device Control			License Options 🔁 🗿 🛓 Logout (herculespopular22@)gmail.com)
DASHBOARD	>						
DEVICES	>	لطًا ج					Y
	>	Export					
	>	HARDWARE NAME	DATE DETECTED	HARDWARE CLASS	HARDWARE PATH	HOST DEVICE	STATUS
APPLICATION STORE	>	CD-ROM Drive	2018/07/09 01:58:45 PM	4D36E965-E325- 11CE-BFC1- 08002BE10318	SCSI\CDROM&VEN_VBOX&PROD_CD-ROM\4&3554261F&0&010000	DESKTOP- HI950BN (removed)	Allowed
Security Dashboards	~	CD-ROM Drive	2018/07/11 01:05:21 PM	4D36E965-E325- 11CE-BFC1- 08002BE10318	SCSI\CDROM&VEN_VBOX&PROD_CD-ROM\4&3554261F&0&010000	DESKTOP- TTPO9PR (removed)	Allowed
Containment Application Control Next Gen Sandbox		CD-ROM Drive	2018/07/10 11:37:36 AM	4D36E965-E325- 11CE-BFC1- 08002BE10318	SCSI\CDROM&VEN_VBOX&PROD_CD-ROM\4&2617AEAE&0&010000	DESKTOP- Q74RLIJ	Allowed
Antivirus Device Control		CD-ROM Drive	2018/09/04 12:01:09 PM	4D36E965-E325- 11CE-BFC1- 08002BE10318	SCSI\CDROM&VEN_VBOX&PROD_CD-ROM\4&3554261F&0&010000	DESKTOP- TTPO9PR (removed)	Allowed
SETTINGS	>	CD-ROM Drive	2018/09/10 11:34:55 AM	4D36E965-E325- 11CE-BFC1- 08002BE10318	SCSI\CDROM&VEN_VBOX&PROD_CD-ROM\482617AEAE&0&010000	DESKTOP- D80SVJJ (removed)	Allowed
				4D36E965-E325- 11CE-BFC1-		DESKTOP-	

Device Control - Column Descriptions						
Column Header	Description					
Hardware Name	Displays the name of the external device which attempted to connect to a managed Windows device					
Date Detected	The date and time at which the device was first detected					
Hardware Class	The Globally Unique Identifier (GUID) of the device class which attempted to connect.					
Hardware Path	The Device Instance Identifier of the external device which attempted to connect.					
Host Device	The name of the Windows device to which the connection attempt was made. This column also shows the host's current connection status (connected or removed)					
Status	Indicates whether the connection was allowed or blocked. This depends on the settings in the 'External Devices Control' section of the profile active on the host device.					

Sorting, Search and Filter Options

- Click any of the 'Hardware Name', 'Hardware Class', 'Host Device' or 'Status' column headers to sort the items based on alphabetical order of entries in that column.
- Click the funnel button **T** at the right end to filter the items based on device name, hardware class, hardware path, host, status and/or detection date.
 - Enter the search criteria in the respective field and click 'Apply'.
- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- EM returns 20 results per page when you perform a search. To increase the number of results displayed per page up to 200, click the arrow next to 'Results per page' drop-down.

• Use the left and right arrows and the page numbers at the bottom to navigate to the page you want to view. Generate a report containing log of device connection attempts

- Click 'Security Sub-Systems' > 'Device Control'
- Click the funnel icon I to apply filters to the report.

• Click the 'Export' button and choose 'Export to CSV':

Export			
Export to CSV	ATE DETECTED	HARDWARE CLASS	HARDWARE PATH
Cisco AnyConnect Secure Mobility Client Virtual Miniport Adapter for Windows	2017/12/11 03:30:00 PM	4D36E972-E325-11CE- BFC1-08002BE10318	ROOT\NET\0000
WAN Miniport (PPPOE)	2017/11/03 01:43:37 PM	4D36E972-E325-11CE- BFC1-08002BE10318	ROOT\MS_PPPOEMINIPORT\0000
Microsoft ISATAP	2017-410/27 12:27:31 PM	4D36E972-E325-11CE-	

The report will be generated in .csv file format.

Report has been created. Please, check «<u>Reports</u>» in dashboard

The report can be accessed in the 'Dashboard' > 'Reports' interface. See **Reports** in **The Dashboard** if you need more help with this interface.

10. Manage Certificates Installed on Devices

- Click 'Certificates' > 'Certificate List'
- The 'Certificate List' interface lets you view and manage client and device certificates acquired from Sectigo Certificate Manager (SCM) and installed on managed devices by Endpoint Manager.
- · You can revoke certificates that are no longer required and renew certificates that are nearing expiry.
- The 'Certificate List' interface will be available only if you have integrated EM with your SCM account. For more details, see Integrate with Sectigo Certificate Manager.

To open the 'Certificate List' interface

Click 'Certificates' > 'Certificate List'

Endpoint Manager		≡	Certif	ficate List		License Options	+	0	<u>گ</u> ل	ogout (coyoteewile@	yahoo.com)
DASHBOARD	>										
DEVICES	>		Ē								
A USERS	>			roke Renew Certificate ficate							T
	>			CERTIFICATE NAME	DEVICE	DEVICE OWNER	CREAT	ED AT		EXPIRATION DATE	STATUS
APPLICATION STORE	>			avantistude@gmail.com	CW002	avantistude@gmail.com)4/27 11:	57:37	Request pending	Failed
APPLICATIONS	>						AM				
SECURITY SUB-SYSTEMS	>						Not m	odified		Request pending	Failed
CERTIFICATES	~			Dyanora	DESKTOP- HIP81N3	Dyanora	2017/0 AM)4/24 10:	30:35	Request pending	Failed
Certificate List				ssgalia@yahoo.com	DESKTOP-	ssgalia@yahoo.com		03/09 03:	13:09	Request pending	Failed
SETTINGS	>				TTP09PR		PM				

Certificate List - Column Descriptions					
Column Header	Description				
Certificate Name	The label for identifying the certificate				
Device	The name of the device on which the certificate was installed				
User The name or email address of the user for whom the certificate was issued.					
Created At	Displays the precise date and time at which the certificate request was created.				
Expiration Date	The date and time at which the validity of the certificate expires.				
Status	Indicates whether the certificate is active, revoked or expired.				

Sorting, Search and Filter Options

- Click any of the 'Certificate Name', 'Device', 'User' or 'Created At' column headers sorts the items based on alphabetical order of entries in that column.
- Click the funnel button **T** at the right end to open the filter options.

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	Certificate Name
9	Certificate Name
M	Device
	Device
	User
	User
	Created At
	Start 🗰 Enc 🗰

Т

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- EM returns 20 results per page when you perform a search. To increase the number of results displayed per page up to 200, click the arrow next to 'Results per page' drop-down.

Manage Certificates

- To revoke an unwanted certificate, select it and click 'Revoke Certificate'
- To renew an expired certificate, select it and click 'Renew Certificate'.

11. Configure Endpoint Manager

- The 'Settings' tab lets you configure email notifications, active directory, Google and Apple device certificates, and more.
- You can also manage subscriptions, renew/upgrade licenses and view support information from this interface.

Endpoint Manager	■ Portal Set-Up / APNs Certificate License Options	و المعنى الم
DASHBOARD >		
DEVICES >	Active Directory APNs Certificate Android Client	t Configuration Windows Client Configuration Extension •
A USERS >	APNs Certificate	
CONFIGURATION TEMPLATES >	Certificate	Additional Info
APPLICATION STORE	Details	
APPLICATIONS >	Country name India	Activation date 2018/09/04 15:40:37 PM
SECURITY SUB-SYSTEMS	Locality name Madras	Expiry date 2019/09/04 15:40:37 PM
🔅 SETTINGS 🗸 🗸	Organization name Saddle and Pedals	
System Templates	Organization unit name	
Portal Set-Up	Common name	
Subscriptions	saddleandpedals.net	
Support	Email	

The following sections provide more details on each area:

•

- Email Notifications, Templates and Custom Variables
 - Configure Email Templates
 - Configure Email Notifications
 - Create and Manage Custom Variables
 - Create and Manage Registry Groups
 - Create and Manage COM Groups
 - Create and Manage File Groups
- Endpoint Manager Portal Configuration
 - Import User Groups from LDAP
 - Add Apple Push Notification Certificate
 - Configure the EM Android Client
 - Configure General Settings
 - Configure Android Client Antivirus Settings
 - Add Google Cloud Messaging (GCM) Token
 - Configure EM Windows Client
 - Managing Endpoint Manager Extensions
 - Configure Endpoint Manager Reports
 - Integrate with Sectigo Certificate Manager
 - Set-up Administrators Time Zone
- View and Manage Licenses



- Upgrade or Add a License
- View Version and Support Information

11.1. Email Notifications, Templates and Custom Variables

• Click 'Settings' > 'System Templates'

•

The 'System Templates' area lets you to manage email templates, configure variables and set file groups that can be used in profile settings.

Endpoint Manager		Ξ <u>System Templates</u>	/ Email Templates	
DASHBOARD	>			
DEVICES	>	Email Templates	Email Notifications	Custom Variables
A USERS	>	NAME		SUBJECT
CONFIGURATION TEMPLATES	>	Activate account		Endpoint Manager
	>			
	>	Password reset		Endpoint Manager
SECURITY SUB-SYSTEMS	>			
SETTINGS	~	Device enrollment		Endpoint Manager
System Templates				
Portal Set-Up		Email notification		Endpoint Manager
Subscriptions				
Support				

The following sections explain how to:

- Configure Email Templates
- Configure Email Notifications
- Create and Manage Custom Variables
- Create and Manage Registry Groups
- Create and Manage COM Groups
- Create and Manage File Groups

11.1.1. Configure Email Templates

- Click 'Settings' > 'System Templates' > 'Email Templates'
- Email templates contain the content for Endpoint Manager's system emails. Examples include templates for account activation, device enrollment and password resets.
- Due to their importance, you cannot delete these templates or create new templates. You can, however, modify the contents of a template. The preset email templates are:
 - Activate account Sent only to new admins to activate their account. These mails are not sent to
 people with the 'User' role (your end-users/device owners). Users receive a different enrollment
 mail which you can disable during the csv user import process if required.
 - Password reset Sent to any user that requests a new password.
 - Device enrollment Sent to end-users. Contains instructions on how to add their device to Endpoint Manager.
 - **Email notification** Sent on the occurrence of certain events. You can configure the recipients of these mails, and the events that generate them, in the 'Email Notifications' tab.
 - Device enrollment via Active Directory Sent to users imported from Active Directory when you
 enroll their devices. You can enable or disable this mail in 'Settings' > 'Portal Set-Up' > 'Active
 Directory' > click the name of an LDAP domain > 'Enroll' > 'Edit'.

View and manage email templates

- Click 'Settings' > 'System Templates'.
- Click the 'Email Templates' tab

Email Templates	Email Notifications	Custom Variables	Registry Variab	les COM Variables	File Groups Variable 🕨
NAME		SUBJECT	I	NCLUDED VARIABLES	
Activate account		Endpoint Manage	er - Account	& username % - Name of regis & activateLink% - Link for Act	
Password reset		Endpoint Manage	er - Passwor %	6 username% - Name of regis 6 linkResetPass% - Link for re 6 supportEmail% - Support er 6 currentDate% - Current date	eset password nail
Device enrollment		Endpoint Manage	er - Device E %	6linkEnroll% - Link of enrollm	nent the client
Email notification		Endpoint Manage	۶ r - Email No %	&eventDatetime% - Event tim &eventTitle% - Event title &deviceUrl% - URL device de &description% - Additional da	tail view
Device enrollment via	Active Directory	Endpoint Manage	er - Device E %	linkEnroll% - Link to enrollm	nent page

Email Templates- Column Descriptions					
Column Heading Description					
Name	 The label of email template. This cannot be changed. Click the name of a email template to view and edit its content and variables. See View and Manage an Email Template for more details 				

Subject	The email subject. You can modify this as required.			
Included Variables	Email variables are dynamic fields which reference data held elsewhere. For example, the %username% variable will actually show the real username of the email recipient.			
	 The 'Included Variables' column tells you the name and purpose of each variable in a template. 			
	• You can add or remove variables if you edit the template.			
	 You can create your own variables in 'Settings' > 'System Templates' > 'Custom Variables' 			
	 You can view other variables in the 'Registry variables', 'COM variables' and 'File Group variables' tabs. 			

View and Manage an Email Template

- Click 'Settings' > 'System Templates'
- Click the 'Email Templates' tab
- Click the name of the template that you want to edit

This opens the full email text. The 'Activate Account' template is shown below:

ŀ	Activate account						
	Email Editor		F Edit				
		er account has been successfully created. te your account and set up your password:					
	%activateLink%						
	Click the edit button	if you want to modify the subject line, body text or varia	bles.				

Activate account
Email Editor Save
Email Subject
Endpoint Manager - Account activation
Email Body
Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source Image: Source <
Dear %username%, Congratulations, your Endpoint Manager account has been successfully created. Please click the following link to activate your account and set up your password: %activateLink%

- Edit the subject line and/or email content as required
- You can remove variables by simply deleting the %variable% from the body text.
- Insert a variable Place your mouse cursor where you want the variable to appear. Click the 'User Variables' button to insert the variable.

Note: Each email template has a limited selection of user and device variables.

• Click 'Save'. You changes will take effect immediately.

11.1.2. Configure Email Notifications

- Click 'Settings' > 'System Templates' > 'Email Notifications'
- Endpoint Manager can send alert emails to admins and users when certain events happen.
- Example events include detection of a new threat, or when a mobile device is removed from management.
- The 'Email Notifications' tab lets you set alert recipients and which events are covered.
 - The 'Email Notification' template contains the actual content of this mail. Click 'Settings' > 'System Templates' > 'Email Templates' to view and edit this content.

To configure email notifications

- Click 'Settings' > 'System Templates'.
- Click the 'Email Notifications' tab

Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables
Send To Alert				
Send To Set	tings			📝 Edit
EM administrators Disabled				
Send to email list Disabled				
Email list Email list is empty				
Send to user list Disabled				
User list User list is empty				

The interface has two tabs.

- Send To Configure alert recipients
- Alerts Select which events generate an alert

Send to

· Click the 'Edit' button at top-right to modify the list of recipients

Send To Alert	
Send To Settings	Edit
EM administrators Disabled	
Send to email list Disabled	
Send To Alert	
Send To Settings	😵 Cancel 🕒 Save
EM administrators	
Send to email list	
Email list	
Emails	
Send to user list	
User list	

- EM Administrators Send alerts to every Endpoint Manager admin
- Send to Email List Type the email addresses of additional recipients. Press space after each address to enter another email address.
- Send to User List Select users that have been added to endpoint manager. You can view a list
 of current users in 'Users' > 'User List'.

Alerts

The alerts interface lets you select the events for which alerts are sent.

Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables
Send To Alert	_			
Alert Settin	gs			📝 Edit
New infection dete Disabled	ected			
iOS device remova Disabled	al detected			
macOS device ren Disabled	noval detected			

- New Infection Detected Sends an alert if malware is found on a managed device
- iOS Device Removal Detected Sends an alert if an iOS device is removed from management.
- Mac OS Device Removal Detected Sends an alert if a MAC is removed from management.
- Click the 'Edit' button at top-right to enable/disable specific alerts.

11.1.3. Create and Manage Custom Variables

- Click 'Settings' > 'System Templates' > 'Custom Variables'
- A variable is a string of text which references a piece of data. For example, '%u.mail% is the variable for a user's email address.
- Variables can be added to email templates and profiles and will dynamically populate the field with the piece of data requested.
- There are three types of variable 'User', 'Device' and 'Custom'. The first two types, 'user' and 'device', are
 preset and cannot be edited.
 - User variables Fetch data about a specific user. For example, the user's login name or email address.
 - **Device variables** Fetch data about a specific device. For example, the IMEI number or phone number of a mobile device.
 - **Custom variables** Fetch data about an item of your choice. For example, you could create a custom variable called 'secure_mail_port' with a value of '2525'. You can then use this variable in the 'Email' section of an Android or iOS profile. If you decide to change the port number in future, you can easily update all devices by changing the variable value instead of editing multiple profiles.

 Illustration - Click 'Configuration Templates' > 'Profiles' > open an Android profile > Click 'Add Profile Section' > 'Email'. Click the 'Variables' button in any field to view available variables:

General Email		
Email	🙁 Canc	el 📳 Save
Configure for type *		KNOX 2.0+
IMAP		~
Email address *		KN0X 2.0+
%u.mail%		+ Variables
Account display name		KNOX 2.0+
%u.username%		+ Variables
Set as default account		KNOX 2.0+
Mail server host name (for incom	ning mail) *	KNOX 2.0+
mail.company.net		+ Variables
Mail server port number (for inc	oming mail) *	KNOX 2.0+
		+ Variables
	Variables Lis	t x
	User variables	>
	Device variables	>
	Custom variable	s 🗸
	%c.wi_fi_office%	•
	%c.mail_server_	port% +

View, manage and create custom variables

- Click 'Settings' > 'System Templates'
- Click the 'Custom Variables' tab

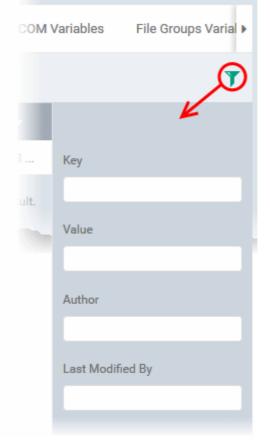
Emai	l Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Varial 🕨
(>6)	Add Variable	(3) Delete				T
	KEY	VALUE	AUTHOR	LAST MODIFIED B	Y	CREATED -
	%c.wi_fi_office	% wifi_ssid	demo_q3@yopmail.	Not modified		2016/10/18 11:48:5
Resul	ts per page: 2	20 🗸			Dis	splaying 1-1 of 1 result.

	Custom Variables - Column Descriptions
Column Heading	Description
Кеу	Friendly name which identifies the variable.

	You select a variable you want to use by choosing the key name.Click the key name to edit the key value.
Value	The value to be substituted for the key
Author	The admin who created the custom variable.
	 Click the admin name to view their details. See View User Details if you need help with this.
Last Modified By	The admin who most recently edited the variable.
	 Click the admin name to view their details. See View User Details if you need help with this.
Created	The date and time the custom variable was added.

Sorting, Search and Filter Options

- Click on any of the column headers to sort the items in ascending/descending order of entries in that column
- Click the funnel icon to search for custom variables based on filter parameters



To create a new custom variable

- Click 'Settings' > 'System Templates' > 'Custom Variables' tab
- Click 'Add Variable'

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Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables
Add Variable	Delete			
TEY	VAL	UE	AUTHOR	LAST MODIFIED
%c.wi_fi_office	% wifi	_ssid	herculespopular22@gmail.	com herculespopula
Create No Key *	ew Variable			×
Кеу				
Value *				
Value				
				Save

- Key Enter a name for variable as it should appear in the Variables drop-down
- Value Enter the value to be fetched for the key
- Click 'Save' to add the variable to EM.
- Repeat the process to add more variables.

To edit a Custom Variable

• Click on the name of the 'Custom Variable' to be edited.

The 'Update Custom Variable' screen will appear.

File Groups Variable
ncel 🕞 Save

• Edit the 'Key' and 'Value' as required and click the 'Save' button.

To remove a Custom Variable

· Select the custom variable to be removed from the list and click the 'Delete' button at the top

11.1.4. Create and Manage Registry Groups

- Click 'Settings' > 'System Templates' > 'Registry Variables'
- The 'Registry Variables' tab contains references to pre-defined and custom registry groups.
 - A registry group is a collection of registry keys with similar attributes or scope.
 - For example, the 'Important Keys' group contains keys which are essential to the security and stability of the operating system. The 'Automatic Startup' group contains keys which load at Windows boot.
- Registry groups are useful when you want to apply an action to an entire class of keys. For example, you can exclude a registry group from containment when creating a profile.
- · You can add new groups and edit existing groups as required.
- Groups in this interface are available for selection when configuring a Windows profile.

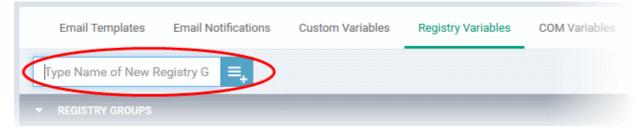
To open the 'Registry Groups' interface

- Click 'Settings' > 'System Templates'
- Click the 'Registry Variables' tab

	Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variables
	Type Name of New R	egistry G ≡_+				₹
-	REGISTRY GROUPS					
+	Automatic Startup					Default
+	COMODO Keys					Default
+	Important Keys					Default
+	Internet Explorer Keys	I				Default
+	Temporary Keys					Default

To add a new Registry group

Enter the name of the new Registry Group in the 'New Registry Group' field and click the '+' button.



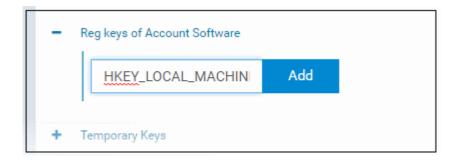
The new group will be added to the list. The next step is to add the Registry keys to the group.

Click the '+' at the left of the group name



New Registry Entry	Add

Enter the path of the registry key/value in the New Registry Entry field and click 'Add'



The key will be added to the group.

- Repeat the process to add more Registry keys and values to the group.
- To edit the key/value in the group, click the 'Edit' icon beside the key name.

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	REGISTRY GROUPS	
-	Accounts Software	e 🖉
	New registry ϵ Add	Q≣
	HKEY_LOCAL_MACHINE\SOFTWARE\Accountsapp	
+	Automatic Startup	(Rename)
	Rename Registry Entry	×
	Rename Registry Entry	×
		×
	Registry entry	

- Edit the entry and click 'OK' to save your changes •
- To remove the key added by mistake or an unwanted key from the group, click the trash can icon beside the key name.



Click 'OK' in the confirmation dialog.

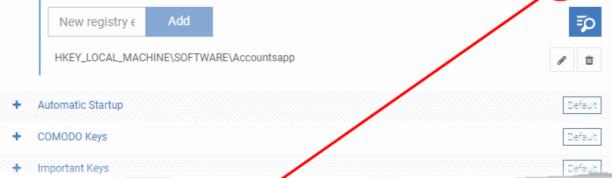
Once a registry group is added, it will be available for selection while configuring Windows Profiles, for example in the 'Containment' > 'Settings' > 'Do not virtualize access to the specified registry keys/values' > 'Exclusions'.

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Manage Exclusions		×
Add - Registry Entry Registry Groups REGISTRY ENTRIES	try Keys Automatic Startup COMODO Keys Internet Explorer Keys	Exclusion Registry Groups ACTIONS
You can add/edit registry	Important Keys Tem <u>porary Keys</u> Accounts Software	ок

To edit the name of a Registry Group

Click the 'Edit' icon beside the Registry Group
 REGISTRY GROUPS
 Accounts Software



Rename Registry Group	×
Registry entry	
Accounts Software	
	ок
	UK

Enter the new name for the group in the 'Rename Registry Group' dialog and click 'OK'

To remove a Registry Group

Click the trash can icon beside the Registry Group

Û

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– Re	g keys of Account Software	
[New registry entry Add	To
	Confirm Group Deletion	
	Are you sure you want to delete the group «Reg keys of Account Software	e»?
	Ok	Cancel

A confirmation dialog will appear.

• Click OK in the confirmation dialog.

11.1.5. Create and Manage COM Groups

- Click 'Settings' > 'System Templates' > 'COM Variables'
- Each COM group is a handy collection of COM interfaces falling under a certain category.
- Endpoint Manager ships with a set of predefined COM Groups that are available for use in configuration profiles, for example to add a COM group to the 'Protected Objects' list in the HIPS settings of a Windows profile. If required, You administrators can add new COM Groups, edit and manage them.
- The 'COM Variables' tab in the 'System Templates' interface lets you view and manage pre-defined and custom COM groups.
- The groups added to this interface will be available for selection while configuring Windows profiles from the 'Profiles' interface.

To open the 'COM Groups' interface

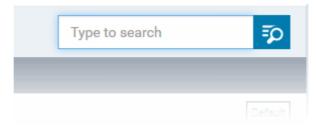
- Click 'Settings' > 'System Templates'
- Click the 'COM Variables' tab

Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variables
Type Name of	New COM Grou 📃				Q≣
- COM GROUPS	;				
+ Internet Explo	rer/Windows Shell				Default
+ Miscellaneou	s Classes				Default
+ Pseudo COM	Interfaces - Important Ports				Default
+ Pseudo COM	Interfaces - Privileges				Default
+ Windows Mar	agement				Default

The list of pre-defined and user-defined COM groups will be displayed. The default groups are indicated by 'Default' at their right and cannot be edited or deleted.

Sorting, Search and Filter Options

- Click the 'COM Groups' column header will sort the items in ascending/descending order of the names of the groups.
- To filter or search for a specific COM group, click the search icon at the top right and enter the name of the group on part or full



To add a new COM group

Enter the name of the new COM Group in the 'Type Name of New COM Group' field and click the '+ '
 button.

Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	
Special COM C	lass =	>			
- COM GROUPS					
+ Internet Explor	er/Windows Shell				

The new group will be added to the list. The next step is to add COM classes to the group.

• Click the '+' at the left of the group name

+	Pseudo COM Interfaces - Privileges	Default
-	Special COM Classes	2
	New COM Component Add	Q
+	• Windows Management	Default

• Enter the COM classes to be added to the group, in the 'New COM Component' field and click 'Add'

*\RPC Control	Add	

The COM class will be added to the group.

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- :	Special COM Classes	
	New COM Component	Add
	*\RPC Control	
+ \	Windows Management	

• Repeat the process to add more COM classes to the group.

Once a COM group is added, it will be available for selection while configuring a Windows Profile, for example in the 'HIPS' > 'Protected Objects' > 'Groups List' interface.

HIPS	
HIPS Settings HIPS Rules Rulesets	Protected Objects
Show COM Interfaces ~	By Groups List ~
Add COM Group -	
Internet Explorer/Windows Shell	
Windows Management	
Miscellaneous Classes	
Pseudo COM Interfaces - Privileges	
Pseudo COM Interfaces - Important Ports	
Special COM Classes	

• Click the pencil icon beside the class name to edit a class in the group,

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Special COM Classes	8
New COM com Add	Ę
*\RPC Control	Im
Windows Management	Def
Rename COM Component	×
Rename COM Component	×
	×
COM component name	×

- Edit the entry and click 'OK' to save your changes
- Click the trash can icon beside the COM component name to remove the COM class added by mistake or an unwanted class

Deletion of Component «*\RPC Control»
You are really want to delete «*\RPC Control» from «Special COM Classes»?
Ok Cancel

• Click 'OK' in the confirmation dialog.

To edit the name of a COM Group

Click the pencil icon beside the COM Group

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• Enter the new name for the group in the Rename COM Group dialog and click 'OK'

To remove a COM Group

Click the Trash can icon beside the COM Group

ecial COM Classes	
New COM compone Add	/
	K
Confirm Group Deletion	
Confirm Group Deletion	
Confirm Group Deletion Are you sure you want to delete the group «Special COM Classes»?	

• Click 'OK' in the confirmation dialog.

11.1.6. Create and Manage File Groups

- Click 'Settings' > 'System Templates' > 'File Groups Variables'
- File Groups are handy, predefined groupings of one or more file types, which makes it easy to add them for various functions such as adding them to Exclusions for AV scans, HIPS monitoring, auto-containment rules and so on in Windows Profiles.
- Endpoint Manager ships with a set of predefined File Groups and if required administrators can add new File Groups, edit and manage them.
- The 'File Group Variables' tab in the 'System Templates' interface lets you view, create and manage pre-

defined and custom file groups.

• The groups added to this interface are available for selection while configuring Windows profiles from the 'Profiles' interface.

To open the 'File Groups ' interface

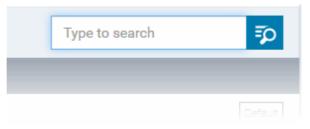
- Click 'Settings' > 'System Templates'
- Click the 'File Groups Variables' tab

Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variables
Type Name of N	lew File Grou				₽
▼ FILE GROUPS					
+ 3rd Party Protoc	col Drivers				Default
 All Applications 					Default
+ Browser Plugins	S				Default
+ COMODO Client	t - Communication				Default
+ COMODO Client	t - Security				Default
+ COMODO Client	t - Security Manager				Default
+ COMODO Client	t Files/Folders				Default
Containment So					Default

The default groups are indicated by 'Default' at their right and cannot be edited or deleted.

Sorting, Search and Filter Options

- Click the 'File Groups' column header to sort the items in ascending/descending order of the names of the groups.
- To filter or search for a specific file group, click the search icon at the top right and enter the name of the group on part or full



To add a new File group

• Enter the name shortly describing the group in the 'New File Group' field and click the '+'.button

	Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variables
,	Exclusions for P	Purchase Dep				Þ
	▼ FILE GROUPS					

The new group will be added to the list. The next step is to add files to the group.

• Click the '+' at the left of the group name

+	Email Clients		Delote
-	Exclusions for Purchase Dept F	Profile	/ 0
	New file group path	Add	₹p
	-		
-	Executables		2.5.4

• Enter the full standard folder/file path of the file to be added to the group in the 'New File Group Path' field and click 'Add'

Tip: To include all the files in a folder, place the wildcard character in the place of file name in the folder path. For example: " C:\My Files* "

The file(s) will be added to the group.

Exclusions for Purchase Dept F	rofile	/ 0
New file group path	Add	5 0
C:\Program Files (x86)\Ope	nOffice 4\program*	

• Repeat the process to add more files to the group.

Once a File Group is added, it will be available for selection in applicable settings interfaces for defining the File Groups, example, for adding to 'Exclusions' list in 'Antivirus Settings' panel , in the 'Windows Profile' interface.

rus le Scan Scans Exclusions ed Paths Excluded Applications Excluded Groups d GROUPS	
ed Paths Excluded Applications Excluded Groups	
d	
\sim	
000073 -	
Add Excluded Group	×
	^
Group	
Executables	~
Startup Folders	
Windows Management 3rd Party Protocol Drivers	
Metro Apps	
Management and Productivity Applications Web Browsers	
Email Clients	
Suspicious Locations	
Shared Spaces File Downloaders	
Pseudo File Downloaders	
File Archivers	
Containment Folders	
Important Files/Folders Temporary Files	
Communication Client	
Communication Client	
COMODO Client - Security Manager	

• Click the pencil icon beside the file name to edit the files in the group

Exclusions for Purchase Dept Profile New file group Add C.\Program Files\OpenOffice 4\program* File path C.\Program Files\OpenOffice 4\program* OK

- Edit the file path in the 'Rename Path' dialog and click 'OK'.
- Click the trash can icon beside the file name to remove the file added by mistake or an unwanted file from the group.

New file group patł	Add		
C:\Program Files\OpenOffice	4\program*		ø
			1
letion of Path «C:\Pro	gram Files\OpenOffice 4\pro	ogram*»	
letion of Path «C:\Pro	gram Files\OpenOffice 4\pro	ogram*»	
	gram Files\OpenOffice 4\pro		
	«C:\Program Files\OpenOffice 4\prog		

Click OK in the confirmation dialog

To edit the name of a File Group

• Click the 'Edit' icon beside the File Group

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C:\Program Files\OpenOffice 4\program*	New file grou Add	
	C:\Program Files\OpenOffice 4\program*	
ocutables	icutables	
	Rename File Group	
Rename File Group		·
Rename File Group		
Rename File Group	File group name	

• Enter the new name for the group in the 'Rename File Group' dialog and click 'OK'

To remove a File Group

Click the Trash can icon beside the File Group

	oundermont i ouoro	DCIDUR .
+	Email Clients	Default
+	Exclusions for Purchase Dept Profile	(1)
+	Executables	Default
	Confirm Group Deletion	
	Are you sure you want to delete the group «Excl	usions for Purchase Dept Profile»?
		Ok Cancel

A confirmation dialog will appear.

• Click 'OK' in the confirmation dialog.

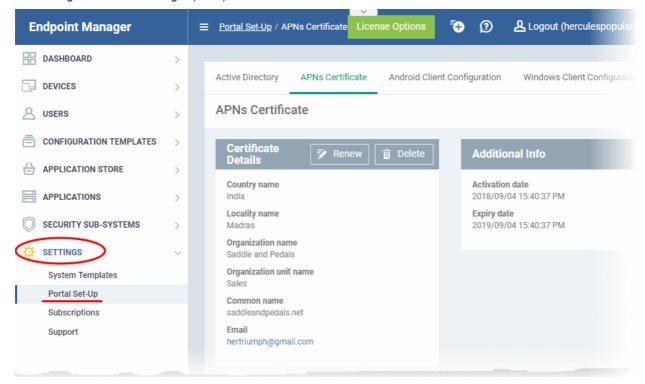
11.2. Endpoint Manager Portal Configuration

• Click 'Settings' > 'Portal Set-up'

The 'Portal Set-up' tab under 'Settings' tab lets you configure the Endpoint Manager portal as per your network setup and requirements. You can integrate AD server(s) in your and your customers' network(s) for importing the users

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and devices, integrate your Apple Push Notification (APN) certificate for communication with managed iOS and Mac OS devices, Google Cloud Messaging (GCM) token for communication with managed Android devices, integrate with Sectigo Certificate Manager (SCM) for issuance of client and device certificates and more.



Use the following links to learn more about each setting:

- Import User Groups from LDAP
- Add Apple Push Notification Certificate
- Configure the EM Android Client
 - Configure General Settings
 - Configure Android Client Antivirus Settings
 - Add Google Cloud Messaging (GCM) Token
- Configure EM Windows Client
- Managing Endpoint Manager Extensions
- Configure Endpoint Manager Reports
- Integrate with Sectigo Certificate Manager
- Set-up Administrators Time Zone

11.2.1. Import User Groups from LDAP

You can add users to Endpoint Manager in two ways:

- 1. Manually add users:
 - Enroll one user at a time
 - Import multiple users from a .csv file
- 2. Import user groups from Active Directory (AD) servers

Endpoint Manager can be configured to access your AD server through the Lightweight Directory Access Protocol (LDAP). You can add multiple LDAP accounts.

The process in brief:

- Add an LDAP server by specifying its IP address, domain and the login credentials of the AD server:
 - Click 'Settings' > 'Portal Set-Up' > select the 'Active Directory' tab > Click 'Add'
- Once added, users and user groups in the AD directory will be visible in the 'Active Directory' interface:
 - Click 'Settings' > 'Portal Set-Up' > select the 'Active Directory' tab > Click on an AD domain name > Click the 'User Groups' tab
- Select the users and groups you wish to import
- Assign roles to users/user groups as required
- Synchronize LDAP with Endpoint Manager
- The selected users/user groups will be imported and placed into respective groups in EM
- The 'User List' and 'User Groups' interfaces let you view/manage users and enroll user devices. See Users and User Groups for more details.

To open the Active Directory interface

- Click 'Settings' > 'Portal Set-Up'
- Click the 'Active Directory' tab

Active	Directory	APNs Certificate	e Android Client C	onfiguration	Windows Client Cor	nfiguration Extensi	ons Management
Щ.	Q						
Add							Ţ
	LDAP ACCO	UNT DOMAIN	COMPANY NAME	ENABLE LDAP	LDAP SERVER H	OST AUTHOR	CREATED
	itsm-team.n	et	Dithers Constructi	Enabled	54.93.118.85	coyoteewile	
Result	s per page:	20 🗸				Display	ving 1-1 of 1 results

	LDAP Accounts - Column Description
Column Heading	Description
LDAP Account Domain	The Active Directory domain name.Click the domain name to:
	 View and import user groups Configure device enrollment for imported users Configure the connection between the AD server and Endpoint Manager See Manage LDAP Accounts for more details.
Company Name	The customer organization associated with the AD domain
Enable LDAP	Whether or not the LDAP account is active
LDAP Server Host	The hostname or IP address of the AD server
Author	The admin who added the LDAP account
	Click the admin name to view their details. See View User Details if you need help with this.
Created	The date and time at which the LDAP account was added

Note: Endpoint Manager communicates with Comodo servers and managed devices in order to update data,



deploy profiles, synchronize LDAP server via devices and so on. You need to configure your firewall accordingly to allow these connections. The details of IPs, hostnames and ports are provided in **Appendix 1**.

To add an LDAP account

• Click 'Add' at the top

The 'Login to Active Directory' wizard opens:

Step 1 - Enter LDAP account details

Login to Active Directory		×
Ē		
1. SETTINGS	2. SYNCHRONIZATION	3. FINISH
LDAP server host *		
LDAP account domain *		
Customer *		
LDAP account login *		
LDAP account password *		
		Next

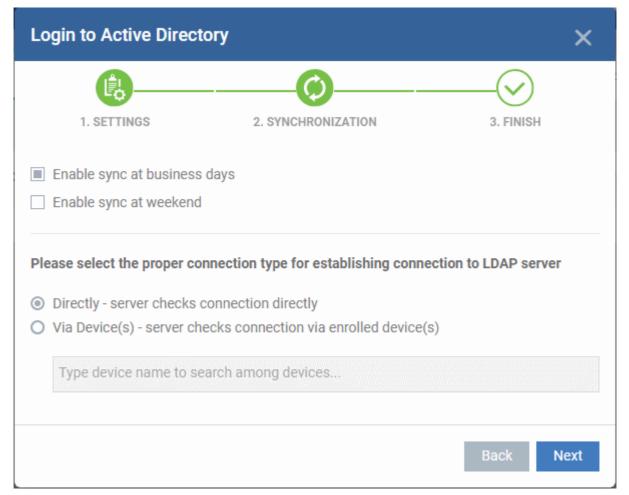
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Endpoint Manager - Administrator Guide

'Login to Active Directory - Settings' Form - Table of Parameters						
Description						
The IP address or hostname of the Active Directory (AD) server						
The Active Directory domain name.						
 Choose the company to which the AD server belongs. Comodo One MSP and ITarian MSP customers can add AD servers for multiple companies. Type the first few characters of the company name and select from 						
 Comodo One Enterprise, ITarian Enterprise and EM stand-alone customers can only select the default company. 						
The admin username and password required to access the AD server.						

• Click 'Next' after completing the settings form.

Step 2 - Configure Synchronization Settings



Sync Settings

• Enable Sync at Business Days - Endpoint Manager will automatically sync with the LDAP server once per



day Monday through Friday to check for and import new users

• Enable Sync At Weekend - Endpoint Manager will automatically sync with the LDAP server once a day on Saturdays and Sundays to check for and import new users on weekends.

Note - you can manually sync at any time by clicking the 'Sync with LDAP' button.

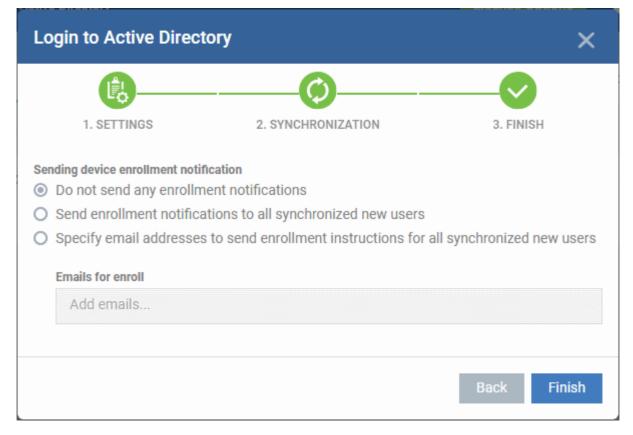
Connection Type

The connections setting determine how Endpoint Manager connects to the LDAP server. You can connect directly from the EM server or via the enrolled devices.

If you choose the second option, you should specify the names of enrolled Windows devices which are in the same network as the AD server.

Click 'Next'

Step 3 - Finish



- Do not send any enrollment notifications No notification mails are sent to imported users
- Send enrollment notifications to all synchronized new users Device enrollment emails are sent to imported users. These mails include instructions which tell the user how to add their device to Endpoint Manager.
- Specify email address to send enrollment notifications for all synchronized new users Add the recipients who should receive a notification mail when new users are added. Usually sent to an administrator, the mail contains instructions on how to enroll devices for the new users. You can add multiple email addresses here.
- Click 'Finish'

Endpoint Manager will connect to the LDAP server per the configuration. A summary of account settings is shown if the connection is successful:

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Settings	User Groups	Enroll	Connection Type		
Setting	ļs			🏹 Edit	Delete
Is active Enabled					
LDAP ser 54.93.118					
LDAP acc itsm-tean	count domain n.net				
Custome frontfork	-				
LDAP acc Administ	count login rator				
LDAP acc	count password *				
Sync stat Failed	tus				
	tus reason t connect to LDAP				

• Click 'Edit' if you want to change any details, edit the details and click 'Save' to save your settings.

The synchronization task will run as scheduled in step - 2, and the user groups will be added.

- Click 'Sync with LDAP' to instantly sync the user groups between the AD server and EM
- Repeat the process to add more AD servers to import user groups from.

Manage LDAP Accounts

The Active Directory interface lets you view and edit the details of integrated AD servers, synchronize users between AD and EM, and more.

- Click 'Settings' > 'Portal Set-up' > 'Active Directory'
- · Click the AD domain name from the list of LDAP accounts to view or edit its details

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Active	Directory	APNs Certificate	Android Cli	ent Configuration	Windows Client Conf	iguration Exte
Add	C Sync wit LDAP	h				
	LDAP ACCO	UNT DOMAIN	COMPA	NY NAME	ENABLE LDAP	LDAP SERVER
	itsm-team.ne	et	Dithers	Construction Co	Enabled	54.93.1 18.85
Results	per page.	20 🗸				
		N				
Se	ettings	User Groups	Enroll	Connection Type		
	Active Di	rectory			📝 Edit	Delete
	Is Active Enabled					
	LDAP Server 54.93.118.85					
	LDAP Accou					
	itsm-team.ne Company *	et				
		truction Company				
	LDAP Accou Administrate					
		nt Password *				
	Sync Status Done					

The Active Directory details will be displayed under four tabs:

- Settings
- User Groups
- Enroll
- Connection Type

Settings tab

The 'Settings' tab displays AD configuration details:

ettings	User Groups	Enroll	Connection Type	
Setting	s			Edit
Is active Enabled				
LDAP ser 10.100.66				
LDAP acc mdm.net	ount domain			
Company Dithers Co	* onstruction Compa	ny		
LDAP acc Administr	count login rator			
LDAP acc	ount password *			
Sync state Failed	us			
Sync state Could not	us reason connect to LDAP			

Click 'Edit' to update any LDAP details and click the 'Save' button

User Groups tab

The 'User Groups' tab shows groups that were identified on the AD server. This includes users/groups created in the root folder and all sub-folders/custom folders on the AD server. This interface allows you to:

- Selectively enable/disable AD synchronization for groups. Synchronization allows EM to update its user list whenever users are added/removed from the AD sever.
- Select the roles to be applied to users in each AD group.
- Manually synchronize groups before importing to EM

Act	tive Directory	Jser Groups	Enroll	Connection Type		
O s	ynchronization	6 Set Default P	ole B			
	GROUP NAME			ROLE	SYNCHRONIZED	LAST SYNC
	Active Directory Ro	bot Autotests		Users	Enabled	2016/08/30 04:33:23 PM
	Allowed RODC Pas	sword Replicatio	n Group	Users	Enabled	Not Modified
	Cert Publishers			Users	Disabled	Not Modified
	Denied RODC Password Replication Group			Users	Disabled	Not Modified
	DnsAdmins			Users	Disabled	Not Modified
	DnsUpdateProxy			Users	Disabled	Not Modified
	Domain Admins			Users	Disabled	Not Modified
	Domain Computers			Users	Disabled	Not Modified

To enable/disable synchronization

Select user group(s) from the list and click 'Synchronization' at the top:

Active Directo	ry User Groups Enroll Co	nnection Type		
G Synchronizatio	Set Default Role	ge Role		
nable Sync		ROLE	SYNCHRONIZED	LAST SYNC
isable Sync	obot Autotests	Users	Enabled	2016/08/30 04:45:19 PM
Allowed R	DDC Password Replication Group	Users	Enabled	2016/08/30 04:45:19 PM
Cert Publis	ihers	Users	Enabled	2016/08/30 04:45:19 PM
Denied R0	DC Password Replication Group	Users	Disabled	Not Modified
DnsAdmin	5 5	Users	Disabled	Not Modified
DnsUpdate	Prove	Users	Disabled	Not Modified

• Select whether synchronization should be enabled or not from the drop-down. If enabled, EM will periodically synchronize with the group to import new users and remove deleted users.

To assign roles to the users to be imported

•

- Select the user(s)/user group(s).
- Select 'Set Default Role' to assign the default EM user role to the users. See Set a role as the default role if you need help with this.

Ac	tive Directory	User Groups	Enroll	Connection Type		
s of	ynchronization	Set Default R	ole 🧟	Change Role		т
	GROUP NAME			ROLE	SYNCHRONIZED	LAST SYNC
	Active Directory	Robot Autorests		Users	Enabled	2016/08/30 04:56:02 PM
	Allowed RODC	assword Replication	Group	Users	Enabled	2016/08/30 04:56:02 PM
	Cert Publishers			Users	Enabled	2016/08/30 04:56:02 PM
Ø	Denied RODC P	assword Replication	Group	Users	Enabled	2016/08/30 04:56:02 PM
	DnsAdmins			Users	Enabled	2016/08/30 04:56:02 PM

Select 'Change Role' if you want to assign a different role to imported users.

Assign Role	×
Select role *	
Please type first letters to select a role	
	Change

Type the first few characters of the name of the role to be assigned and select the role from the
options.

The selected role will be displayed in the 'Role' column for the users/user groups.

• Repeat the process to apply different roles to different users/user groups.

See 'Manage Roles Assigned to a User' for more details on roles.

To import users from selected user group

• Click 'Sync with LDAP'

Ac	tive Directory	User Groups	Enroll	Connection Type			
O s	ynchronization	A Set Default i	iole L				,
	GROUP NAME			ROLE	SYNCHRONIZED	LAST SYNC	
	Active Director	y Robot Autotests		Users	Enabled	2016/08/30 04:56:02 PM	1
	Allowed RODC	Password Replicatio	n Group	Users	Enabled	2016/08/30 04:56:02 PM	
	Cert Publishers	1		Users	Enabled	2016/08/30 04:56:02 PM	
	Denied RODC F	assword Replication	Group	Users	Enabled	2016/08/30 04:56:02 PM	
	DnsAdmins			Users	Enabled	2016/08/30 04:56:02 PM	
	DnsUpdatePro	¢γ		Users	Disabled	Not Modified	
	Domain Admin	8		Users	Disabled	Not Modified	
					Disabled	Not Modified	

 The LDAP user/user groups are synchronized with EM and new users are imported. The 'User List'/'User Groups' interfaces will update appropriately. See 'Users and User Groups' if you need more help with users and groups.

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Endpoint Manager	≡ User Groups	-
DASHBOARD >		
DEVICES >	略, 原	
& USERS V	Create Group Export	
User List	NAME	# OF USERS
User Groups		
Role Management	test123456	0
CONFIGURATION TEMPLATES	itsm-team.net/G1	3
APPLICATION STORE	itsm-team.net/Denied RODC Password Re	0
APPLICATIONS >	itsm-team.net/DnsAdmins	1
SECURITY SUB-SYSTEMS	itsm-team.net/Cert Publishers	0
G CERTIFICATES	itsm-team.net/Allowed RODC Password R	0
SETTINGS >	itsm-team.net/Active Directory Robot Aut	1
	Marketing Staff	2

Enroll tab

•

The 'Enroll' tab displays the current setting of enrollment notification sent to imported users.

Settings	User Groups	Enroll	Connection Type	
Enroll				Edit 🖞 Delete
	device enrollment n ollment notifications		ronized new users	

Click 'Edit' to change the enrollment notification type

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	Enroll	Connection Type	
Enroll			Save
 Do not Send e Specif 	llment noti fications to ses to send	fications all synchronized new users I enrollment notifications for	

- Do not send any enrollment notifications No enrollment mails will be sent to users imported via LDAP
- Send enrollment notifications to all synchronized new users Device enrollment emails will be sent to new users enrolled via LDAP.
- Specify email address to send enrollment notifications for all synchronized new users Specify email recipients who should receive a notification mail when new users have been added. Usually sent to an administrator, the mail will contain instructions on how to enroll devices for the new users. You can add multiple email addresses here.
- Update the notification type from the options and click 'Save'

Connection Type Tab

The 'Connection Type' tab displays how the AD server currently connects to Endpoint Manager.

ettings	User Groups	Enroll	Connection Type		
Conne	ction Type			📝 Edit	Delete
The prop LDAP set	er connection type rver	for establish	ing connection to		
	Server checks conn	oction direct	h		

• Click the 'Edit' button to change the connection type.



ettings	User Groups	Enroll	Connection Type	
Connec	ction Type			Save
The prope LDAP ser	er connection type 1 ver	for establishi	ng connection to	
Oired	ctly - Server chec	ks connect	ion directly	
	Device(s) - Server lled device(s)	checks co	nnection via	

If the first option is selected, EM will connect to the configured LDAP server directly. The second option enables the EM server to connect to the LDAP server via enrolled devices. Multiple devices can be configured for the second option.

• Click 'Save' after selecting the option.

You can add multiple LDAP servers for the account from the Active Directory interface. Click 'Add' and follow the same procedure explained above.

Active Directory Interface - Sorting, Search and Filter Options

- · Click on the column headers sorts items in alphabetical, ascending/descending order
- Click the funnel button **T** to open filter options:

1	Account Domain
3	Account Domain
	Server Host
	Server Host
	Company Name
	Company Name
	Author
	Author
	Created
	Start 🗮 End 🗮



- You can search for a specific LDAP account based by domain name, host, company and/or author. Enter your search criteria in the respective text boxes and click 'Apply'.
- You can also filter by the date the account was created. Use the calendar buttons at the bottom to select start and end dates then click 'Apply'.

You can use any combination of filters to search for specific LDAP accounts.

11.2.2. Add Apple Push Notification Certificate

- You need to install an Apple Push Notification (APN) certificate on your Endpoint Manager portal in order to communicate with iOS and Mac devices.
- You can enroll for an APN certificate using your Apple account. If you do not have an Apple account then please create one at https://appleid.apple.com. A free account is enough.
- The certificate is valid for one year. EM will remind you when your certificate is nearing expiry. It is free to renew the certificate each year
- Please follow the steps below to obtain and implement an APN certificate:

Step 1- Generate your PLIST

- Click 'Settings' > 'Portal Set-Up'
- Click the 'APNs Certificate' tab.

Endpoint Manager		Portal Set-Up / APNs Certificate / Generation
DASHBOARD	>	
DEVICES	>	Active Directory APNs Certificate Android Client Configuration
A USERS	>	
	>	APNs certificate is not installed.
	>	Click "Create APNs Certificate" to proceed.
APPLICATIONS	>	Create APNs Certificate
SECURITY SUB-SYSTEMS	>	
SETTINGS	~	
System Templates		
Portal Set-Up		
Subscriptions		
Support		

Click the 'Create APNs Certificate' button to open the APNs application form.

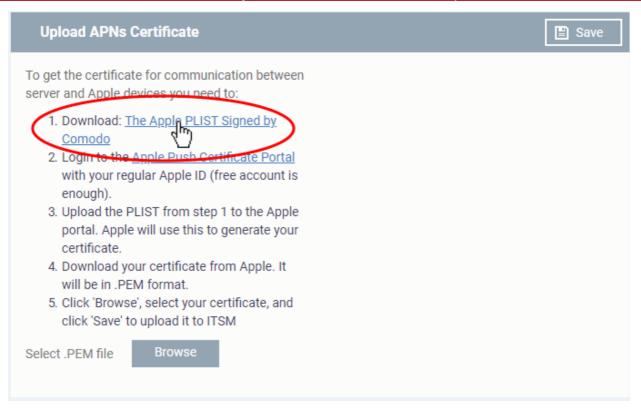
The fields on this form are for generating a Certificate Signing Request (CSR):

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Generation of APNs Certificate	×
Country name *	
India	•
Apple ID *	
herculespopular22@gmail.com	
State or province name *	
Tamilnadu	
Locality name (e.g, city) *	
Chennai	
Organization name *	
Saddle and Pedals	
Organizational unit *	
Sales	
Organizational Unit Name (e.g, section)	
Common name *	
herculespopular22.com	
(e.g., server FQDN or YOUR name)	
Cr	eate Reset

 Complete all fields marked with an asterisk and click 'Create'. This will send a request to Comodo to sign the CSR and generate an Apple PLIST. You will need to submit this to Apple in order to obtain your APN certificate. Usually your request will be fulfilled within seconds and you will be taken to a page which allows you to download the PLIST:

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• Download your Apple PLIST from the link in step 1 on this screen. This will be a file with a name similar to 'COMODO_Apple_CSR.csr'. Please save this to your local drive.

Step 2 -Obtain Your Certificate From Apple

- Login to the 'Apple Push Certificates Portal' with your Apple ID at https://identity.apple.com/pushcert/.
- Once logged in, click 'Create a Certificate'.



You will need to agree to Apple's EULA to proceed.

Apple Push Certificates Portal herculespopular22@gmail.com Terms of Use PLEASE READ THE FOLLOWING LICENSE AGREEMENT TERMS AND CONDITIONS CAREFULLY BEFORE DOWNLOADING OR USING THE APPLE CERTIFICATES. THESE TERMS AND CONDITIONS CONSTITUTE A LEGAL AGREEMENT BETWEEN YOUR COMPANY/ORGANIZATION AND APPLE. MDM Certificate Agreement (for companies deploying mobile device management for iOS and/or OS X products) Purpose Your company, organization or educational institution would like to use the MDM Certificates (as defined below) to enable You to either deploy a third-party commercial, enterprise server software product for mobile device management of iOS and/or OS X products, or deploy Your own internal mobile device management for iOS and/or OS X products within Your company, organization or educational institution. Apple is willing to grant You a limited license to use the MDM Certificates as permitted herein on the terms and conditions set forth in this Agreement. 1. Accepting this Agreement; Definitions 1.1 Acceptance In order to use the MDM Certificates and related services, You must first agree to this License Agreement. If You do not or cannot agree to this License Agreement, You are not permitted to use the MDM Certificates or related services. Do not download or use the MDM Certificates or any related services in that case. You accept and agree to the terms of this License Agreement on Your company's, organization's, educational \boxdot I have read and agree to these terms and conditions. Printable Version > Decline Accept

 On the next page, click 'Choose File', navigate to the location where you stored 'COMODO_Apple_CSR.csr' and click 'Upload'.

Apple Push Certificates Portal	herculespopular22@gmail.com Sign out
Create a New Push Certificate	
Upload your Certificate Signing Request signed by your third-party server vendor to create a new push certificate.	
Notes	
Vendor-Signed Certificate Signing Request	
E:\work\ITSM\COMODO_ Browse	Alto A
Cancel Upload	

Apple servers will process your request and generate your push certificate. You can download your certificate from the confirmation screen:

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Save

Apple Push Certific	ates Portal	herculespopular22@gmail.com Sign out
Confirmation 🧭		
You have successfully created a n	ew push certificate with the following informa	ttion:
Service Vendor Expiration Date	Mobile Device Management COMODO GROUP LTD. Jul 23, 2019	CO MAR
Manage Cert	ficates Download	THE

 Click the 'Download' button and save the certificate to a secure location. It is a .pem file with a name similar to 'MDM_COMODO GROUP LTD._Certificate.pem'

Step 3 - Upload your certificate to Endpoint Manager

- Return to EM, click 'Settings' > 'Portal Set-Up' > 'APNs Certificate'
- · Click the 'Browse' button, locate your certificate file and select it.

Upload APNs Certificate

To get the certificate for communication between server and Apple devices you need to:

- 1. Download: <u>The Apple PLIST Signed by</u> <u>Comodo</u>
- Login to the <u>Apple Push Certificate Portal</u> with your regular Apple ID (free account is enough).
- Upload the PLIST from step 1 to the Apple portal. Apple will use this to generate your certificate.
- Download your certificate from Apple. It will be in .PEM format.
- Click 'Browse', select your certificate, and click 'Save' to upload it to ITSM

MDM_ COMODO GROUP LTD._Certifica...

Browse

• Click 'Save' to upload your certificate.

The APNs Certificate details interface opens:

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ctive Directory	APNs Certificate	Android Client Co	onfiguration	Windows Client Configuration	Exte
PNs Certifica	ate				
Certificate Details	📝 Renew	Delete	Addition	nal Info	
Country name India			Activation 2018/07/2	date 3 11:56:51 AM	
Locality name Chennai			Expiry date 2019/07/2	e 3 11:56:51 AM	
Organization name Saddle and Pedals					
Organization unit Sales	name				
Common name herculespopular22	2.net				
Email herculespopular22	2@gmail.com				

Endpoint Manager can now communicate with iOS and Mac OS devices. You can enroll iOS devices and Mac OS devices for management.

- The certificate is valid for 365 days. EM will remind you when your certificate is due to expire.
- We advise you renew your certificate at least 1 week before expiry. If it is allowed to expire, you will need to re-enroll all your iOS and Mac devices.
 - Click 'Renew' in the APNs certificate details interface to renew the cert:

Active Directory	APNs Certificate	Android Client Confi	guration Wine
APNs Certific	ate		
Certificate Details	Renew	Delete	Additional Int
Country name India			Activation date 2018/07/23 11:5:
Locality name Chennai			Expiry date 2019/07/23 11:50
Organization nam Saddle and Pedals			
Organization unit Sales	name		
Common name herculespopular22	2.net		
Email herculespopular2	2@gmail.com		

• Click 'Delete' only if you wish to remove the certificate so you can generate a new APNs certificate.

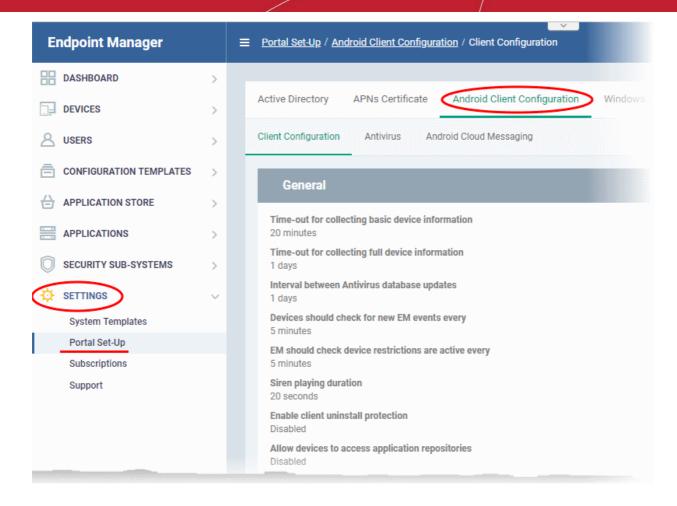
11.2.3. Configure the EM Android Client

- Click 'Settings' > 'Portal Set-up' > 'Android Client Configuration'
- You need to install the communication client on each Android device that you want to manage. The client allows Endpoint Manager to pass updates and commands to the device, and to run antivirus scans.
- You also need to add a Google Cloud Messaging (GCM) token for the EM server to communicate with the clients.
- This area also lets you configure client general settings and antivirus settings.

To open the 'Android Client Configuration' interface

- Click 'Settings' > 'Portal Set-Up'
- Click the 'Android Client Configuration' tab

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The interface has three tabs:

- Client Configuration General settings like client and AV database updates, polling intervals, client uninstall protection and more. See Configure Android Client General Settings.
- Antivirus Specify how viruses identified by client should be dealt with. If 'Automatic' is chosen you can
 also specify whether the AV should remove the threat or ignore it. See Configure Android Client Antivirus
 Settings.
- Android Cloud Messaging Create a Google Cloud Messaging (GCM) token to facilitate communications between EM and Android devices. See Add Google Cloud Messaging (GCM) Token.

11.2.3.1. Configure Android Client General Settings

- Click 'Settings' > 'Portal Set-up' > 'Android Client Configuration' > 'Client Configuration'
- This area lets you configure various settings for the Endpoint Manager Android client. Settings include update frequency, device alarms, uninstall protection and more.

To configure the Android client

- Click 'Settings' > 'Portal Set-Up'.
- Click 'Android Client Configuration' > 'Client Configuration' tab

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Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configura
Client Configuration	Antivirus An	droid Cloud Messaging	
General			📝 Edit
Time-out for colle 20 minutes	ecting basic device info	ormation	
Time-out for colle 1 days	ecting full device inform	nation	
Interval between A 1 days	Antivirus database upd	lates	
Devices should ch 5 minutes	neck for new EM events	s every	
EM should check 5 minutes	device restrictions are	active every	
Siren playing dura 20 seconds	ation		
Enable client unin Disabled	stall protection		
Allow devices to a Disabled	access application repo	ositories	

The current settings for various parameters of Client Configuration is displayed.

• To change the settings, click the edit button

on the top.

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ime-out for collecting basic device information	
0 minutes	
ime-out for collecting full device information	
days	
terval between Antivirus database updates	
days	_
evices should check for new EM events every	
minutes	
M should check device restrictions are active every	
minutes	
iren playing duration	
0 seconds	
Enable client uninstall protection	
0000	
Allow devices to access application repositories	

Android Client Configuration - Table of parameters		
Parameter	Description	
Time-out for collecting basic device information	The maximum time allowed for EM to collect essential information such as battery level, CPU usage, GPS location and WiFI SSID.	
Time-out for collecting full device information	The maximum time allowed for EM to collect all device information. This includes memory status, device name, IMEI number, roaming status, bluetooth MAC address and WiFi MAC address.	
Interval between antivirus database update	The frequency at which the antivirus database should be updated on the device.	
Devices should check for new EM events every	The frequency at which the device should contact Endpoint Manager to receive new push notifications.	
EM should check device restrictions are active every	The frequency at which the client should confirm that its device restrictions (as per the applied profile) are in place.	
Siren Playing Duration	Length of time that the device alarm will play for when remotely activated by an admin.	

protection	 Whether or not a password is required in order to remove the client from a device. Select the 'Enable client uninstall protection' check box and specify a password in the text box. The EM client can be uninstalled from any enrolled device only after entering the password.
	If enabled, an 'Applications' bar will be visible on Android devices which will open a list of Android apps in the 'Application Store'.

• Click 'Save' to apply your changes.

11.2.3.2. Configure Android Client Antivirus Settings

The Android antivirus provides real-time protection against malware and malicious apps on Android devices. You can also launch 'on-demand' scans from Endpoint Manager.

The antivirus settings area allows administrators to configure whether threats identified by the antivirus should be automatically removed or handled manually .

- Automatic Control You have the choice to auto-uninstall the threat, or ignore it.
- **Manual Control** The device status will change to 'Infected' if a virus is found. A notification will be shown on the device. The user can respond to the notification to manually remove the virus. See **Run Antivirus** and/or File Rating Scans on Devices for more details.

To configure antivirus settings

- Click 'Settings' > 'Portal Set-Up'.
- Click 'Android Client Configuration' > 'Antivirus' tab:

Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configurati 🕨
Client Configuration	Antivirus An	droid Cloud Messaging	
Android An	tivirus		📝 Edit
Virus reaction Manual control			
Automatic respon Disabled	se		

The current antivirus settings are displayed.

To change the settings, click the edit button



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Android Antivirus		😢 Cancel	Save
Virus reaction			
Manual control			
Manual control			
Automatic response	*		
oninstan			

Android Client Antivirus Settings - Table of Parameters		
Parameter	Description	
Virus Reaction	 Choose the type of action taken if malware is discovered on the device. The options are: Manual control The device status changes to 'Infected'. A notification will be shown on the device. Users can respond to the notification to manually remove the virus Admins can take further action on the threat in the AV Scan interface See Run Antivirus and/or File Rating Scans on Devices for more details. Automatic response Choose the action that the client should take on the threat. Choose between 'Uninstall' (delete) or 'Ignore' (allow). 	

• Click 'Save' for your settings to take effect.

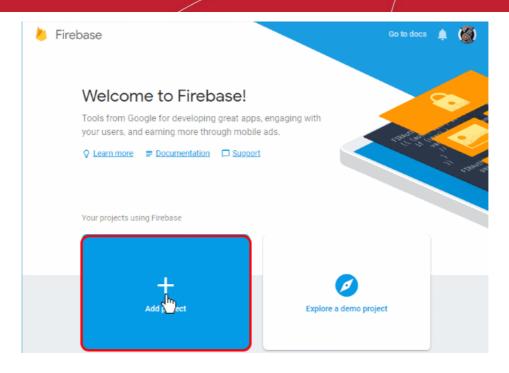
11.2.3.3. Add Google Cloud Messaging (GCM) Token

- Endpoint Manager requires a Google Cloud Messaging (GCM) token in order to communicate with enrolled Android devices.
- EM ships with a default token. However, you can also generate a unique Android GCM token for your EM portal.
- To get a token, you must first create a project in the Google Developers console.
- Please follow the steps given below to create a project and upload a token.

Step 1 - Create a New Project

Login to the Google Firebase API Console at https://console.firebase.google.com, using your Google account.

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Click 'Add Project'

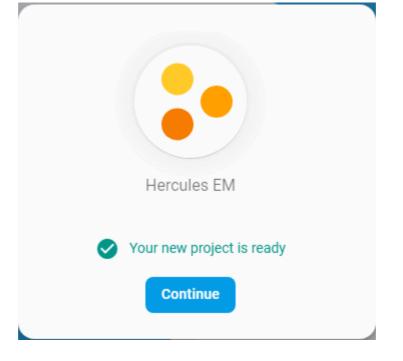


Add a project	×
Project name	₩ + i05 +
Hercules EM 🔹	Tip: Projects span apps across platforms ⑦
Project ID 💿	
hercules-em 🎤	
Locations ③	
United States (Analytics) us-central (Cloud Firestore)	
Use the default settings for sharing Google A	nalytics for Firebase data
 Share your Analytics data with Google to improv Share your Analytics data with Google to enable Share your Analytics data with Google to enable Share your Analytics data with Google Account 	technical support Benchmarking
✓ I accept the <u>controller-controller terms</u> . This	is required when sharing
Analytics data to improve Google Products a	nd Services. <u>Learn more</u>
 I agree that I am using Firebase services in my app the applicable <u>terms</u>. 	and I agree to
Car	Create project

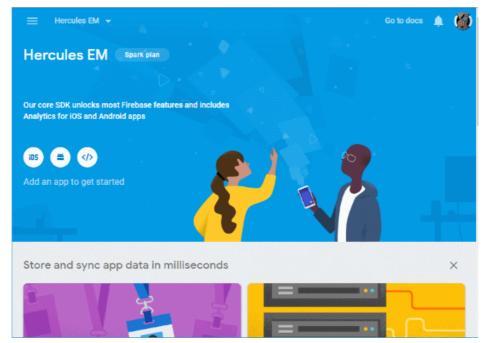
- Type a name for the new project in the 'Project name' field
- Click the pencil icon beside the 'Locations' field and select your country and Google Cloud Firestore server location nearest to you.
- Leave 'Use the default settings for sharing Google Analytics for Firebase data' selected
- Read Agree to the terms and conditions by selecting respective checkboxes
- Click 'Create Project'.

Your project is created.



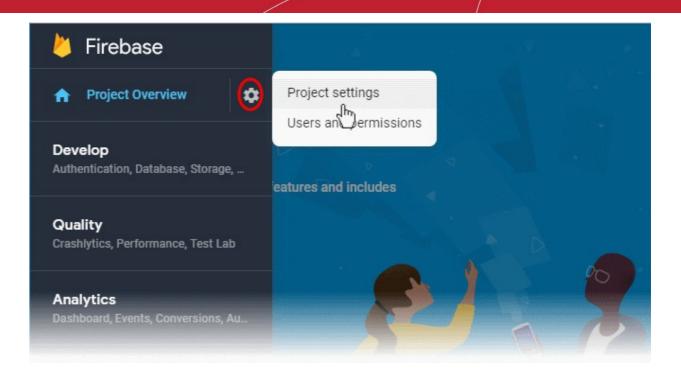


Click 'Continue' to go to the project dashboard



Step 2 - Obtain GCM Token and Project number

- Click the hamburger button
- Click the gear icon beside 'Project Overview' and choose 'Project settings' from the options.



The 'Settings' screen for the project appears.

• Click the 'Cloud Messaging' tab.

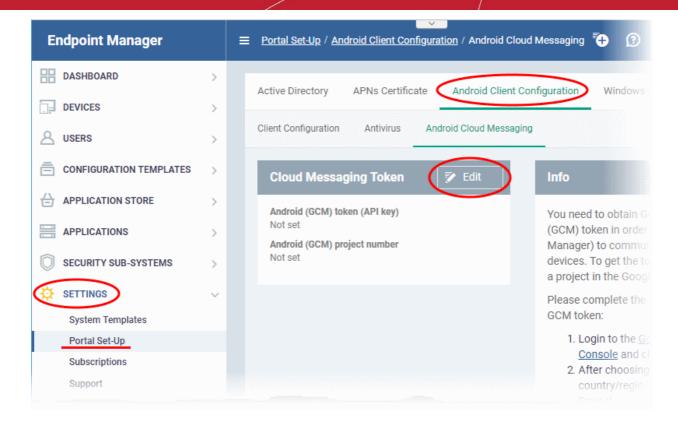
ettings				
neral Cloud Messagi	ing Integrations	Service accounts	Data privacy	Users and permissions
ject credentials				
				Add server key
Кеу	Token			
Server key	jSZ-HSU37_atF-	APA91bFkf_isHDMdwz-M wKFGPwQvnCFpXOtYEbZ JhqgmxgCgO2Co10QKJw	hCJ7SCNgBHPLVL	
Legacy server key	AlzaSyB-dqyrVD	0-08k0giPyR0fS09z65fZd4	4i3Q	
Sender ID				
1046067498170				

• Note down the 'Server key' and 'Sender ID' in a safe place

Step 3 - Enter GCM Token and Project number

- Login to Endpoint Manager
- Click 'Settings' > 'Portal Set-Up' > 'Android Client Configuration' and choose 'Android Cloud Messaging' tab

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Edit

Click the edit button **Example** at the top right of the 'Cloud Messaging Token' column, to view the GCM token and project number fields

Cloud Messaging Token	😒 Cancel 📔 Save
Android (GCM) token (API key)	
Android (GCM) project number	

- Paste the 'Server key' into 'Android (GCM) Token' field.
- Paste the 'Sender ID' into 'Android (GCM) Project Number' field.

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Cloud Messaging Token	😵 Cancel 📔 Save
Android (GCM) token (API key)	
AAAA8457TLo:APA91bFkf_isHDMdwz-	
MGtxOdddhH0wqPoXBbyvFqCX8LjSZ-F	HSU37_atF-
wKFGPwQvnCFpX0tYEbZhCJ7SCNgBF	IPLVLeTVwIz9gIB3GEQ2Dq
Android (GCM) project number	
1046067498170	

Click 'Save'.

Your settings will be updated and the token/project number will be displayed in the same interface.

Your EM Portal will be now be able to communicate with Android devices using the unique token generated for your EM portal.

11.2.4. Configure EM Windows Client

• Click 'Settings' > 'Portal Set-up' > 'Windows Client Configuration'

The 'Windows Agent Configuration' area lets you configure time intervals for device information updates and polling intervals for the communication client installed on the Windows devices to obtain commands from Endpoint Manager.

To configure the windows communication client

- Click 'Settings' > 'Portal Set-Up'
- Click the 'Windows Client Configuration' tab

Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions M 🕨
Windows	Client Configuratio	n		📝 Edit
Device dynamica Every 15 minutes	al information update s			
Requesting devi Every 15 minutes				
Sending device (Every 15 minute:	online status confirmatio s	ns		
The default values	of the undate interv	ale are displayed		

The default values of the update intervals are displayed.

Click the edit button

on the top right to modify these settings

The settings screen will be displayed.

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Active Directory	APNs Certificate	Android Client Co	nfiguration	Windows Client	Configuration	Extensions M 🕨
Windows (Client Configuratio	n			S Cancel	Save
Device dynamica	l information update					
15 minutes						
Requesting devic	ce commands					
15 minutes						
Sending device o	online status confirmatio	ns				
15 minutes						

	Windows Agent Configuration Settings
Parameter	Description
Device dynamical information update	How often the communication client on the device should provide EM with updates about its status. This includes, for example, memory status, name of the device, OS summary, security information from the CCS installation and network information. Use the slider to set the update interval. (Default = 15 minutes)
Request device commands	The frequency at which the client on the device should poll the EM server to receive commands about, for example, updating configuration profiles, refreshing device information and so on.
	Use the slider to set the update interval. (Default = 15 minutes)
Sending device online status confirmations	The frequency at which the client on the device should send a message confirming that it is online and connected. If EM does not receive such a message for more than the set time period, it changes the device status to 'Offline'.
	Use the slider to set the update interval. (Default = 15 minutes)

• Click 'Save' to apply your changes.

11.2.5. Manage Endpoint Manager Extensions

- Click 'Settings' > 'Portal Set-up' > 'Extensions Management'
- Endpoint Manager Extensions are additional software modules which administrators can add to EM to
 expand its functionality. Once added, each extension can be controlled and managed from the EM
 interface.
- The 'Extensions Management' interface lets you enable or disable modules.

The extension currently available is:

Comodo Client Security - Comodo Client Security is the remotely managed Client Security software
installed on managed Windows devices. It offers complete protection against internal and external threats
by combining a powerful antivirus, an enterprise class packet filtering firewall, an advanced host intrusion
prevention system (HIPS) and Containment feature that runs unknown and unrecognized applications in an
isolated environment at the endpoints. CCS can be installed on the endpoints from the 'Devices' interface.
See Remotely Install and Update Packages on Windows Devices for more details.

Once installed, CCS can be configured for optimal security by applying configuration profiles. See **Profiles** for Windows Devices for more details.

- Remote Control by ITarian 'Remote Control by ITarian' lets you to take control of managed Windows and Mac OS endpoints through remote desktop connection. This allows you to solve issues, install third party software, run system maintenance and more. There are two ways to remote control of a device:
 - **Remote Control by ITarian** (recommended) Install the client viewer software on your Windows or Mac OS admin computer to take control of any managed Windows endpoint.
 - Comodo Remote Monitoring and Management (RMM) Customers using our legacy RMM product can connect to Windows endpoints using the remote desktop feature built into that product.

You can take remote control of a Windows or Mac OS device from the 'Device Management' interface. For more details, see **Remote Management of Windows and Mac OS Devices**.

To enable or disable EM extensions

- Click 'Settings' > 'Portal Set-Up'
- Click the 'Extensions Management' tab

Endpoint Manager			<u>t-Up</u> / Extensions Managem	ent	÷ 🤅) 🐣 Logout (he	rculespopular24@gmail.com)
DASHBOARD	>						
DEVICES	>	Active Dire	ctory APNs Certificate	Android Client Configura	tion Windows (Client Configuration	Extensions Management
A USERS	>		_				
CONFIGURATION TEMPLATES	>		C				
APPLICATION STORE	>	Com	odo Client - Security	Remote Cont	trol by ITarian		
APPLICATIONS	>	ON		ON]		
SECURITY SUB-SYSTEMS	>						
SETTINGS	\sim						
System Templates							
Portal Set-Up							
Subscriptions							
Support							

- Use the toggle switch in a tile to enable or disable an extension. Only extensions which are enabled will be available in the 'Device Management' interface.
- See Remotely Install and Update Packages on Windows Devices and Remote Management of Windows and Mac OS Devices for more details.

11.2.6. Configure Endpoint Manager Reports

Endpoint Manager undergoes rigorous Quality Assurance testing before release to ensure that the software is as stable and reliable as possible. However, in rare situations, EM may run into an exception which needs to be addressed. If the report setting is enabled, an exception report will automatically be sent to Comodo if EM encounters a problem.

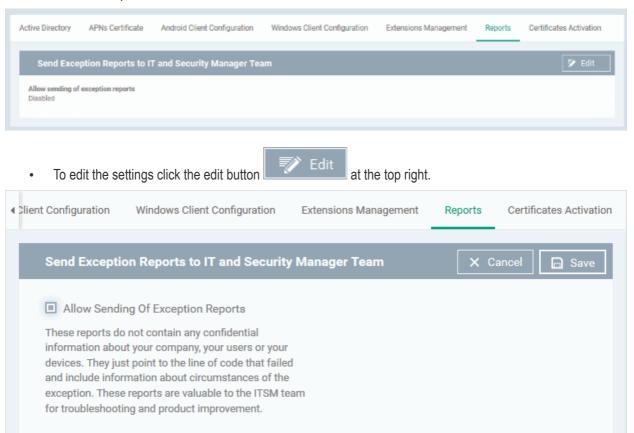
Exception reports are a valuable and constructive means of feedback that help Comodo to debug our products and improve the service we provide to our customers.

These reports contain only the line of code that failed with additional information about the circumstances of the exception. They do not contain any private information about your company or your users.

The 'Reports' interface allows you to enable or disable automated sending of exception reports. Automatic report submission is disabled by default.

To configure exception reporting

- Click 'Settings' > 'Portal Set-Up'
- Click the 'Reports' tab



- Allow sending of exception reports Send anonymous reports to the Endpoint Manager team if the application encounters errors
- Click 'Save' for your settings to take effect.

11.2.7. Integrate with Sectigo Certificate Manager

Endpoint Manager allows admins to integrate their Sectigo Certificate Manager (SCM) account with EM to issue client certificates to end-users and device certificates to managed devices. These certificates can also be used for authentication for secure connection applications like VPN connections.

Administrators can add any number of SCM accounts from different SCM servers for different organizations. Certificates will be issued to end-users/devices by the SCM server with which the organization is associated.

Note 1: Sectigo Certificate Manager is the new name for Comodo Certificate Manager. We are in the process of updating the Endpoint Manager UI to reflect this name change. **Click here** if you want to read more about the Comodo CA/Sectigo rebrand.

Note 2: Please contact your Sectigo Account Manager should you need a SCM account.

Note 3: Endpoint Manager communicates with Sectigo servers and communication clients on devices in order to update data, deploy profiles, issue client certificates, submit unknown files for analysis to Valkyrie, monitor Windows events and provide alerts. You need to configure your firewall accordingly to allow these connections. The details of IPs, hostnames and ports are provided in **Appendix 1**.

Once an SCM account is added, a new component will be added to your profiles called 'CCM Certificates'.

You can configure client and device certificate requests in a profile which can be applied to enrolled devices. Once the profile is applied, a corresponding certificate request will be sent to SCM. SCM obtains the certificate and sends

it to EM which in turn pushes it to the communication client on the device. The client installs the certificate to the certificate store in the respective device.

The client certificate can also be used for email signing and encryption if it is imported into a user's mail client.

The rest of this section explains how to integrate your SCM account to Endpoint Manager.

Prerequisites:

- The organization whose end-users/devices require certificates is added as an organization in SCM.
- The email domains used by end-users have been delegated to the organization in SCM.
- SMIME certificate enrollment through Web API has been enabled for the SCM organization, and a secret key has been set for Web API enrollment.

For help to add an organization to SCM and configure it for enrollment of client certificates through Web API, please see the respective section in the SCM admin guide: https://help.comodo.com/topic-286-1-606-7511-Comodo-Certificate-Manager-MRAO.html.

To add an SCM Account

- Click 'Settings' > 'Portal Set-Up'
- Click the 'Certificate Activation' tab
- Click 'Add Comodo Certificate Account'

The 'Add Account' dialog opens.

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If your organization needs root cartificates from a trusted aut	thority, apply to Comodo Certification Au	thority
Contact Comodo S		,
Add Account		×
Login *		
Password *		
Login URI *		
Secret key *		
Organization ID *		
Certificate server *		
cert-manager.com		~

Add Account Dialog - Description of form parameters					
Field	Description				
Login/Password	The username/password for the SCM MRAO Administrator account. This will allow EM to access SCM.				
Login URI	The customer URI of the SCM account which you wish to add to EM.				
	Tip : The customer URI is the suffix of the URL used to access SCM. SCM URLs use the following format:				
	https://cert-manager.com/customer/ <customer uri=""></customer>				
	So if your URL is https://cert-manager.com/customer/examplecompany , then you would enter 'examplecompany' in this field.				
Secret Key	Enter the secret key which has been set for the organization for Web API enrollment of client				

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	certificates. Tip : You can find the secret identifier in SCM from the 'Client Cert' tab of the Add/Edit organization dialog:						
	Edit Organization: Dithers Organization						
	General EV Details Client Certificate SSL Certificate Code Signing Certificate Email Templ						
	Self Enrollment 闭						
	Access Code* 1234						
	Web API 🖉						
	Secret Key* 123456						
	Allow Key Recovery by Master Administrators 😪						
	For more details, see the following section of the SCM admin guide: https://help.comodo.com/topic-286-1-606-7511-Comodo-Certificate-Manager-MRAO.html.						
Organization ID	Enter the ID of the organization to which certificates are to be issued from this SCM account.						
	Tip : You can identify the organization id in SCM from the 'General' tab of the 'Edit Organization' dialog of the organization:						
	Edit Organization: Dithers Organization						
	General EV Details Client Certificate SSL Certificate Code Signing Certificate Email Templ						
	*-required fields						
	Organization Name* Dithers Organization						
	Address1* Mount Road						
	Address2						
	Address3 City* Chennai						
	State/Province* TN						
	Postal Code* 600032						
	Country* India						
	Validation Status Not Validated						
	Anchor certificate						
	OrgID 3267 Access Control List Edit						
	OK Cancel						
	For more details, see https://help.comodo.com/topic-286-1-606-7511-Comodo-Certificate- Manager-MRAO.html.						
Certificate Server	Choose the SCM server at which you have your SCM account subscription:						

3000	
Certificate server *	
cert-manager.com	~
cert-manager.com	
hard.cert-manager.com	
	Add

• Click 'Add' after completing the form.

The SCM account is now added to Endpoint Manager. EM can issue client certificates to users of Windows devices. You can also issue device certificates by applying a suitably enabled profile to the device.

The SCM account is listed in the interface as shown below:

Active	Directory	APNs Certificate	Android Client Config	guration Wi	ndows Client Configuration	Extensions Management
20 A	dd Account	🕐 Help				Ţ
	LOGIN	LOGIN URI	CERTIFICATE SERVER	CREATED	CHECKED AT	API ENABLED
	itsm_dithers	dithers	cert-manager.com	2017/02/01 04	1:00:02 PM 2017/02/01 04	00:02 PM Enabled
Result	s per page:	20 🗸				Displaying 1 of 1 results

	Certificates Activation - Column Descriptions
Column Heading	Description
Login	The username of the MRAO Administrator account for EM to login to SCM.
	Click the username to view the account details like the login URI and the Organization ID of the organization to which certificates are issued from this account.
Login URI	The real customer URI of the SCM account.
Certificate Server	The SCM server from which the account is subscribed. The certificates will be issued only from this server,
Created	The precise date and time at which the SCM account was added to EM by the administrator.
Checked at	The precise date and time at which the EM logged-in to the SCM account.
API Enabled	Whether the organization is enabled for procuring client and device certificates from SCM through API integration.

• To add more SCM accounts, click 'Add Account' at the top left and repeat the process as explained above.

11.2.8. Set-up Administrator's Time Zone

Note. Administrators added through Comodo One or ITarian must set their time zone in the C1/ITarian console.



Only administrators added directly to Endpoint Manager can set their time zone in the EM console.

To set your time zone

- Click 'Settings' > 'Portal Set-Up'
- Click the 'Time Zone' tab

Note: The 'Time Zone' tab is only available if you login to EM through your dedicated URL. It is not available if you login through Comodo One or ITarian console.

◀ t Configuration	Windows Client Configuration	Extensions Management	Reports	Certificates Activation	Time Zone
Time Zone					Edit
Time zone Not set					

Click 'Edit' at the top right

onfiguration	Windows Client Configuration	Extensions Manageme	nt Reports	Certificates Activation	Time 2
Time Zone				🙁 Cancel	🖺 Save
Time zone					
Use default	time zone	~			
Use default (-11:00) Mid (-11:00) Niu (-11:00) Pag (-10:00) Hor (-10:00) Ada (-10:00) Rar (-10:00) Rar (-10:00) Rar (-09:30) Mai (-09:30) Mai (-09:00) Ada (-09:00) Gar (-08:00) Jun (-08:00) Mei (-08:00) Nor (-08:00) Pito	way e po Pago nolulu nston otonga iti rquesas ik rquesas ik hoier chorage eau clakatla ne				

• Choose your time zone from the 'Time Zone' drop-down and click 'Save'.

Your time zone will be updated. All logs and interface time indicators will use the set time zone..

11.3. View and Manage Licenses

- Click 'Settings' > 'Subscriptions'
- The subscriptions area contains your license details, validity, and the number of devices allowed on each.
- You can also add new licenses from this interface.

To view and manage licenses

• Click 'Settings' > 'Subscriptions'.

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The interface has two tabs:

• License Summary - Active licenses.

Endpoint Manager	Ξ <u>Subscriptions</u> / License Summary License Options
DASHBOARD >	
DEVICES >	License Summary List of Licenses
<u>A</u> users >	License Summary
CONFIGURATION TEMPLATES	Active license
APPLICATION STORE >	Maximum licenses available
APPLICATIONS >	Unlimited
SECURITY SUB-SYSTEMS	Number of used licenses 3
🔅 SETTINGS 🗸 🗸	Expires 2019/04/30 02:06:40 PM
System Templates	Time check 2018/11/18 05:41:48 AM
Portal Set-Up	
Subscriptions	
Support	
• List of Licenses - All licenses r	urchasod so far

List of Licenses - All licenses purchased so far.

License Summary	List of Licenses				
Add New License	Remove License(s)			
LICENSE TYPE	LICENSE KEY	ACTIVE	PREMIUM	OWNER	EXPIRATION DATE
EM + Valkyrie	570802554676-4.	Yes	No		2019/04/30 02:06:40 P

Click a license key to view its details. •



License details

Main License Details

License key

4804-9585-1364748712

License type EM + Valkyrie

Maximum licenses available Unlimited

Licensed to herculespopular22@gmail.com

Free Yes

Active Yes

Advanced

Valid from 2018/04/30 02:07:20 PM

Expires 2019/04/30 02:06:40 PM

Time check 2018/11/18 05:41:48 AM

License registered at 2018/04/30 02:06:40 PM

SubLicense Details

License kev

License type Valkyrie Free

Maximum licenses available Unlimited

Licensed to herculespopular22@gmail.com

Free Yes Active

Yes

Advanced

Valid from 2018/04/30 02:07:20 PM

Expires 2019/04/30 02:06:40 PM

Time check 2018/11/18 05:41:48 AM

License registered at 2018/04/30 02:06:40 PM

See **Upgrade or Add a License** for more help to renew or purchase licenses.

Remove a License

- Click > 'Settings' > 'Subscriptions'
- Click the 'List of Licenses' tab
- · Select the licenses you want to delete
- Click the Remove License' button:

Licen	nse Summary	List of Licenses				
Ş,	Add New License	Rempye License	(s)			
	LICENSE TYPE		ACTIVE	PREMIUM	OWNER	EXPIRATION DAT
	EM + Valkyrie	STANGER ANTO .	Yes	No	herculespopular	2019/04/30 02:06
	Remove Lice	↓ enses				×
	Do you really wa	nt to delete checked	all, EM + Va	Ikyrie licenses?	,	
					Confirm Ca	ncel

Click 'Confirm' to remove the license from the list.

11.3.1. Upgrade or Add a License

You can purchase new licenses by logging into Comodo Account Manager at https://accounts.comodo.com.

To upgrade a license

- · Log in at https://accounts.comodo.com with your Comodo username and password
- Select 'Endpoint Manager' and complete the purchase process.

Your license key will be sent via email to your registered email address.

• Alternatively, click 'License Options' at the top of the Endpoint Manager interface

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Endpoint Manager ≡	Audit	License	Options 🕂
DASHBOARD V		\sim	
Audit	/		
Compliance	Operating System		O II
Valkyrie	operating of otom		
Reports		Android _	
ndpoint Manager License Options			>
Advanced Endpoint Protection (AEP)	Core (free)	Premium	Managed
7-layer Advanced Endpoint Protection (AEP) security posture https://enterprise.comodo.com/advanced-endpoint- protection including World's best Containment technology	eny 30 days	*	~
Valkyrie - File intelligence service (automated artificial intelligence analysis)	30 days	*	~
Valkyrie - File intelligence service (manual analysis by human experts)	30 days	×	×
Patch management	v	~	~
Monitoring - Proactive monitoring		×	~
Procedures - Standalone instruction scripts	~	×	~
Remote Access - Remote Desktop connection	 ••••••••••••••••••••••••••••••••••••	×	~
Full MDM (Mobile Device Management)	~	×	~
Full MAM (Mobile Application Management)		×	~
Full MSM (Mobile Security Management)	~	~	~
BYOD support (Bring Your Own Device support)	 ✓ 	×	~
Community support	~	~	×
24/7 professional support		×	~
Managed Security	×	×	*
		UPGRADE NOW	UPGRADE NOW

One Premium / Managed license covers one device with enabled security.

The 'License Options' screen shows a comparison of available license types:

• Click 'Upgrade Now' under the license type your want.

You will be taken to the order forms to complete the purchase.



Once you have obtained a new license, you need to register it in Endpoint Manager.

To add a new license

- Click 'Settings' > 'Subscriptions'
- Open the 'List of Licenses' tab
- Click 'Add New License' at the top left.

	LICENSE TYPE	LICENSE KEY	ACTIVE	PREMIUM	OWNER	EXPIRATI
	EM +Valkyrie	5707020146704.	Yes	No	herculespopular	2019/0 4/3
[N					
4	Add New Lie	cense Key				\times
L						
	License key *					
	License key *					

- Enter the license key from your license confirmation email.
- Click 'Add'.

Your new license is shown in the 'License Key' column.

• Click on the key to view license details and activation status.

New License

Validate your license by using Endpoint Manager within 10 days of registration. Access to EM may be blocked otherwise.

Renewal

Make sure to renew your license before it expires. You can access Endpoint Manager for up to 30 days after license expiry. Access is blocked when this grace period is over until you renew the license.

11.4. View Version and Support Information

• Click 'Settings' > 'Support'

The support panel shows contact information, the Endpoint Manager version number, and a list of platforms supported by this version.

To view the the version and support details

Click 'Settings' > 'Support'

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Endpoint Manager		≡ Support	License Options	÷) 🐣 Logout (hero	culespopular22@gmail.co
DASHBOARD	>	Support				
A USERS	>	Contact Information	Supported Device Platforms		Latest Platform	n and Client Versions
CONFIGURATION TEMPLATES APPLICATION STORE	>	Support telephone +1 877 422 3865 Support email support@itarian.com	Android 4.x 4.x (KNOX) 5.x		Endpoint Manager Server version	6.24.1956 2018/1 4.18120 1/16
SECURITY SUB-SYSTEMS	>	Online support community.ttarian.com/support Please register to submit tickets Forum	5.x (KNOX) 6.x (KNOX) 7.x 7.x (KNOX) 8.x		Windows Communication Client Client - Security	6.24.1919 2018/1 3.18120 1/16 10.8.0.709 2018/1
System Templates Portal Set-Up		forum.itarian.com Help guide community.itarian.com/help Certificates support	8.x (KNOX) 9.x 105 7.x 8.x		Remote Control	1 1/16 6.24.1940 2018/1 0.18120 1/16
Subscriptions Support		enterprise.comodo.com/contact-us.php	8.x 9.x 10.x 11.x 12.x macOS		macOS Communication Client Client - Security	6.24.1943 2018/1 6.18120 1/16 2.4.1.629 2018/1 1/16
			10.11.x 10.12 x		Remote Control	6.24.19392018/19.181201/16

- Contact Information Support telephone numbers and email addresses
- **Supported Device Platforms** The devices and operating systems supported by this version of Endpoint Manager.
- Latest Platform and Client Versions Version numbers of the Endpoint Manager server, communication clients and client security software.

Submit Ticket - Your end-users can submit a ticket to your Service Desk module for your technicians to handle.

• Right-click on the communication client tray icon and select 'Submit ticket'



The 'Submit ticket' dialog opens:

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	Communication Client	Submit ticket
Please fill in the field	s below and describe deta	ils of your issue:
Issue Summary		
Required (max. 100 chars))	
Department		
Support Department		-
Priority Level		
Normal		•
Issue Details		
Required (max. 5000 char	s)	
Include device data (bra	nd, model, serial number, logged	on user, domain/workgroup)
Note: Company, Device Nar	me and Owner are included by default.	
	Subn	nit Cancel

Tip: You can rebrand the dialog shown above as required. See Communication Client and Comodo Client - Security Application UI Settings in Create Windows Profiles for help with this.

- Issue Summary Provide a short description of the issue.
- Department Select the department to whom the ticket should be assigned.
- Priority Level Select the priority from the drop-down. The levels are: Low, Normal, High and Critical.
- Issue Details Provide detailed description of the issue.
- Click 'Submit'.

•

A support ticket will be created in the Service Desk module of the C1 or ITarian account based on your subcription and assigned to the selected department.

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Appendix 1a: Endpoint Manager Services - IP Nos, Host Names and Port Details -EU Customers

Note: This page contains information for customers located in Europe. Click here to see USA information instead.

- Endpoint Manager communicates with Comodo servers and your devices to issue commands, run virus scans, deploy updates and more.
- You need to configure your firewall accordingly to allow these connections.
- All client to server communications are encrypted over https connections using the strongest TLS protocols, RSA 2048 bit keys and SHA 256 algorithms.
- The tables on this page show firewall requirements for the following Comodo services:
 - Communication Client (CC)
 - Comodo Client Security (CCS)
 - Endpoint Manager Server (on premise installations)
 - Remote Control sessions
 - Remote Control Direct connection
 - Remote Control Peer to Peer connection
 - Remote Control Relay connection
 - All settings grouped by port

Communication Client (CC)

	Communication Client (CC)								
Service	Purpose	Hostname	IP	Port	Criticality and notes				
CC	Communication between device and EM server	subdomain.cmdm.co modo.com	Dynamic (Amazon load balancing)	443	Mandatory				
Enrollment	To get client certificates	mdmsupport.comodo .com	54.93.214.133	443	Mandatory				
Monitoring and alerts	Access to Monitoring and alerts server	plugins.cmdm.comod o.com	Dynamic (Amazon load balancing)	443	Mandatory				
File rating management	Access to Local Verdict Server	subdomain.cmdm.co modo.com	Dynamic (Amazon load balancing)	443	Optional This is for reporting data from CCS				
Windows push service (XMPP)	Device communication (push messages)	xmpp.cmdm.comodo. com	18.196.72.222 18.196.138.4 18.197.8.210	443	Mandatory				
LDAP	Synchronization	User's LDAP server	User's LDAP server	389	Optional				

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synchronizati on	with LDAP via device	host	IP	636 (LDAPS)	For LDAP sync via device only. Related to
					Device to LDAP server connections only
SSO	Single Sign On	one.comodo.com	Dynamic (Amazon load balancing)	443	Mandatory
Client Security installation	Download and install/upgrade Client Security agent. Requests to download.comodo. com are redirected to cdn.download.com odo.com which is managed by The CDN provider, and those IP addresses can change	download.comodo.co m cdn.download.comod o.com	178.255.82.5 104.16.61.31 104.16.60.31	443, 80	Optional For CCS installation/upgrade only
OCSP	Client certificate revocation checking	http://ocsp.comodoca .com/	Dynamic load balancing	80	Optional For mobile devices only. The Windows client does not perform OCSP checks.
CRL	Client certificate revocation checking	http://crl.comodoca.c om/	Dynamic load balancing	80	Optional For mobile devices only. The Windows client does not perform CRL checks.
3rd Party Patch Management	3rd party applications updates	patchportal.one.com odo.com	23.229.69.170	443	Optional For 3rd party software updates only
Telemetry	Sending telemetry data for analysis	cescollector.cwatcha pi.com	Dynamic (Amazon load balancing)	443	Optional

Comodo Client - Security (CCS)

	Comodo Client - Security (CCS)						
Service	Purpose	Hostname	IP	Port	Protocol	Criticality and notes	
FLS	FLS lookup	fls.security.co modo.com	199.66.201.16	4447 (optional), 53	UDP	Mandatory - choose *either* UDP or TCP for FLS	

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						UDP is the main, preferred FLS lookup channel 53 - Default port. 4447 - Reserve port. Can be specified manually in profile. At least one of the two ports must be open.
	FLS lookup	fls.security.co modo.com	199.66.201.16	4448 (optional), 80	TCP	Mandatory - choose *either* UDP or TCP for FLS TCP is the reserve FLS lookup channel. 80 - Default port 4448 - Reserve port. Can be specified manually in profile. At least one of the two ports must be open
Valkyrie	Valkyrie lookup	valkyrie.como do.com	Dynamic (Amazon load balancing)	443	HTTPS	Optional Valkyrie lookup is currently disabled on CCS, CCS gets Valkyrie verdicts from LVS.
	Submit to Valkyrie	valkyrie.como do.com	Dynamic (Amazon load balancing)	443	HTTPS	Mandatory
cdn.dow nload.co modo.co	Update / upgrade mirror	cdn.download. comodo.com	104.16.61.31 104.16.60.31	80	HTTP	Mandatory
m		cdn.download. comodo.com	104.16.61.31 104.16.60.31	443	HTTPS	
downloa d.comod o.com	Update/upgrade. Requests to	download.com odo.com	178.255.82.5	80	HTTP	Mandatory
	download.comodo. com are redirected to cdn.download.com odo.com which is managed by The CDN provider, and those IP addresses can change	download.com odo.com	178.255.82.5	443	HTTPS	
LVS	Download the EM verdicts database	s3-eu-west- 1.amazonaws. com	Dynamic (Amazon load balancing)	443	HTTPS	Mandatory

	LVS lookup	subdomain.cm dm.comodo.co m	Dynamic (Amazon load balancing)	443	HTTPS	
OCSP	Client certificate revocation checking	http://ocsp.co modoca.com/	Dynamic load balancing	80	-	Optional CCS does not perform CRL checking yet
CRL	Client certificate revocation checking	http://crl.como doca.com/	Dynamic load balancing	80	-	Optional CCS does not perform CRL checking yet

Endpoint Manager Server (on premise installation)

	Endpoint Manager Server (on premise)						
Service	Purpose	Hostname	IP	Port			
E-mail	Connection to the configured SMTP server for e-mail sending	SMTP server hostname	SMTP server IP	25			
LDAP synchronization	Direct synchronization with LDAP	User's LDAP server host	User's LDAP server IP	389 636 (LDAPS)			
Connection to Comodo Accounts Manager	License verification	https://accounts.como do.com	91.199.212.166	443			
Google Cloud Messaging	To push messages	https://android.google apis.com/gcm/send	Dynamic	443			
Connection to Apple Push Notification Server	To push messages	https://gateway.push.a pple.com	Dynamic	2195 2196 80 443			
Local Verdict Server	File rating management	EM server hostname	EM server IP	443			

Remote Control

	Remote Control						
Service	Purpose	Hostname	IP	Port	Protocol	Criticality and notes	
XMPP	Remote Control Session (with new version of Comodo RC*	xmpp.cmdm.c omodo.com	18.196.72.222 18.196.138.4 18.197.8.210	443	HTTPS	Mandatory for both RC host and target device	
STUN server	To receive possible	stun.l.google. com	Dynamic	19302	UDP	Mandatory for both RC host and target	

	network configuration, external ip etc.					device for peer-to- peer and relay connections.
Direct connection	Establish direct connection between RC and target device.	-	IP of the RC host AND target host	Local port range specified in profile. Win7+/MacO S. Default port range= 49152 - 65535 WinXP/2003. Default port range = 1025-5000	UDP	Mandatory for both RC host and target device
Peer-to-peer connection	Establish peer- to-peer connection RC and target device.	-	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	UDP	Mandatory for both RC host and target device for peer-to-peer connections.
Relay connection	Establish relay connection between RC and target device.	-	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478, 49152 - 65535	UDP	Mandatory for both RC host and target device for relay connections.

Remote Control - Direct connection by traffic direction *

Outgoing Traffic							
Source			Destination				
IP	Port	IP	Port				
Local IP 1	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	Local IP 2	local port range specified in profile (Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	UDP			

Incoming Traffic						
	Source					
IP	Port	IP	Port	Protocol		
Local IP 2	local port range specified in profile	Local IP 1	local port range specified in	UDP		



(Win7+/MacOS default port range: 49152 - 65535) (WinXP/2003 default port range: 1025- 5000)	profile(Win7+/MacOS default port range: 49152 - 65535) (WinXP/2003 default port range: 1025-5000)	
,	,	

* - applies to both sides - RC host and target

Remote Control - Peer to Peer Connection by traffic direction *

	Outgoing Traffic						
	Source	Destina	ition	Protocol			
IP	Port	IP	Port				
Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	UDP			
Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535)(WinXP/2003 default port range: 1025-5000)	stun.l.google.com	19302				

Incoming Traffic						
Source	e	Destination		Protocol		
IP	Port	IP	Port			
18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)	UDP		
stun.l.google.com	19302	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535)(WinXP/2003 default port range: 1025-5000)			

* - applies to both sides - RC host and target

Remote Control - Relay connection by traffic direction*

Outgoing Traffic							
Source Destination							
IP	Port	IP	Port				
Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478, 49152 - 65535	UDP			



Local IP local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	e.com 19302
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	Incoming Traffic					
Sou	Source		Destination		Destination	
IP	Port	IP	Port			
18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478, 49152 - 65535	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)	UDP		
stun.l.google.com	19302	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)			

* - applies to both sides - RC host and target

All settings grouped by port

This table contains the same information as the other four tables on this page but with services grouped by port number.

	Settings Grouped by Port						
Port	Service	IP	URL / Hostname	Protocol	Component		
443	CC	Dynamic (Amazon load balancing)	subdomain. cmdm.como do.com	HTTPS	Communication Client		
	Enrollment	54.93.214.133	mdmsuppor t.comodo.co m	HTTPS			
	Monitoring and alerts	Dynamic (Amazon load balancing)	plugins.cmd m.comodo.c om	HTTPS			
	File rating managemen t	Dynamic (Amazon load balancing)	subdomain. cmdm.como do.com	HTTPS			
	Windows push service (XMPP)	18.196.72.222 18.196.138.4 18.197.8.210	xmpp.cmdm .comodo.co m	HTTPS			
	SSO	69.4.89.244	one.comod o.com	HTTPS			

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3rd party patch managemen t	23.229.69.170	patchportal. one.comod o.com	HTTPS	
Client Security	178.255.82.5	download.c omodo.com	HTTPS	
installation	104.16.61.31 104.16.60.31	cdn.downlo ad.comodo. com	HTTPS	
Telemetry	Dynamic (Amazon load balancing)	cescollector. cwatchapi.c om	HTTPS	
Valkyrie	178.255.87.4	valkyrie.co modo.com	HTTPS	Comodo Client Security
Update/upgr ade.	178.255.82.5	download.c omodo.com	HTTPS	
Requests to download.co modo.com are redirected to				
cdn.downloa d.comodo.c om which is managed by				
The CDN provider, and those IP addresses can change				
Updates/upg rades mirror	104.16.61.31 & 104.16.60.31	cdn.downlo ad.comodo. com	HTTPS	
LVS	Dynamic (Amazon load balancing)	s3-eu-west- 1.amazona ws.com	HTTPS	
	Dynamic (Amazon load balancing)	subdomain. cmdm.como do.com	HTTPS	
License verification	91.199.212.166	accounts.co modo.com	HTTPS	EM server (on premise)
Google cloud messaging	Dynamic	android.goo gleapis.com /gcm/send	HTTPS	
Apple push notifications	Dynamic	gateway.pu sh.apple.co m	HTTPS	

	Local Verdict EM server IP Server		EM server hostname	HTTPS	
	XMPP	18.196.72.222 18.196.138.4 18.197.8.210	xmpp.cmdm .comodo.co m	HTTPS	Remote Control
80	Client Security	178.255.82.5	download.c omodo.com	HTTPS	Communication Client
	installation	104.16.61.31 104.16.60.31	cdn.downlo ad.comodo. com	HTTPS	
	OCSP	Dynamic load balancing	http://ocsp.c omodoca.co m/	HTTPS	
	CRL	Dynamic load balancing	http://crl.co modoca.co m/	HTTPS	
	FLS Lookup	199.66.201.16	fls.security.c omodo.com	HTTPS	Comodo Client Security
	Update/upgr ade.	178.255.82.5	download.c omodo.com	HTTPS	
	Requests to download.co modo.com are redirected to				
	cdn.downloa d.comodo.c om which is managed by				
	The CDN provider, and those IP addresses can change				
	Updates/upg rades mirror	104.16.61.31 & 104.16.60.31	cdn.downlo ad.comodo. com	HTTPS	
	OCSP	Dynamic load balancing	http://ocsp.c omodoca.co m/	HTTPS	
	CRL	Dynamic load balancing	http://crl.co modoca.co m/	HTTPS	
	Apple push notifications	Dynamic	gateway.pu sh.apple.co	HTTPS	EM server (on premise)

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			m		
25	Email	SMTP server IP	SMTP server hostname	SMTP	EM server (on premise)
53	FLS Lookup	199.66.201.16	fls.security.c omodo.com	UDP	Comodo Client Security
4447 (Optional)	FLS Lookup	199.66.201.16	fls.security.c omodo.com	UDP	Comodo Client Security
4448 (Optional)	FLS Lookup	199.66.201.16	fls.security.c omodo.com	UDP	Comodo Client Security
389	LDAP synchronizat ion	User's LDAP server IP	User's LDAP server IP	-	Communication Client
	LDAP synchronizat ion	User's LDAP server IP	User's LDAP server IP	-	EM server (on premise)
636	LDAP synchronizat ion	User's LDAP server IP	User's LDAP server IP	-	Communication Client
	LDAP synchronizat ion	User's LDAP server IP	User's LDAP server IP	-	EM server (on premise)
2195	Apple push notifications	Dynamic	Dynamic gateway.pu - sh.apple.co m		EM server (on premise)
2196	Apple push notifications	Dynamic	gateway.pu sh.apple.co m	-	EM server (on premise)
19302	STUN server	Dynamic (Amazon load balancing)	stun.l.googl e.com	UDP	Remote Control tool
Win7+/MacOS. Default port range = 49152 - 65535	Direct connection	IP of the RC host AND target host	N/A UDP		
WinXP/2003. Default port range = 1025- 5000					
3478	Peer-to-peer connection	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	-	UDP	
3478, 49152 - 65535	Relay connection	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	-	UDP	



Appendix 1b: Endpoint Manager Services - IP Nos, Host Names and Port Details -US Customers

Note: This page contains information for customers located in the USA. **Click here** to see Europe information instead.

- Endpoint Manager communicates with Comodo servers and your devices to issue commands, run virus scans, deploy updates and more.
- You need to configure your firewall accordingly to allow these connections.
- All client to server communications are encrypted over https connections using the strongest TLS protocols, RSA 2048 bit keys and SHA 256 algorithms.
- The tables on this page show firewall requirements for the following Comodo services:
 - Communication Client (CC)
 - Comodo Client Security (CCS)
 - Endpoint Manager Server (on premise installations)
 - Remote Control sessions
 - Remote Control Direct connection
 - Remote Control Peer to Peer connection
 - Remote Control Relay connection
 - All settings grouped by port

Communication Client (CC)

	Communication Client (CC)								
Service	Purpose	Hostname	IP	Port	Criticality and notes				
CC	Communication between device and EM server	subdomain.itsm- us1.comodo.com	Dynamic (Amazon load balancing)	443	Mandatory				
Enrollment	To get client certificates	mdmsupport.comodo.c om	54.93.214.133	443	Mandatory				
Monitoring and alerts	Access to Monitoring and alerts server	plugins.itsm- us1.comodo.com	Dynamic (Amazon load balancing)	443	Mandatory				
File rating management	Access to Local Verdict Server	subdomain.itsm- us1.comodo.com	Dynamic (Amazon load balancing)	443	Optional This is for reporting data from CCS				
Windows push service (XMPP)	Device communication (push messages)	xmpp.itsm- us1.comodo.com	100.25.122.42 34.193.74.83 54.163.100.185	443	Mandatory				
LDAP synchronizati on	Synchronization with LDAP via device	User's LDAP server host	User's LDAP server IP	389 636	Optional For LDAP sync via				

				(LDAPS)	device only. Related to Device to LDAP server connections only
SSO	Single Sign On	one-us.comodo.com	one-us.comodo.com Dynamic 443 (Amazon load balancing)		Mandatory
Client	Download and	download.comodo.com	178.255.82.5	443, 80	Optional
Security installation	install/upgrade Client Security agent. Requests to download.comod o.com are redirected to cdn.download.co modo.com which is managed by The CDN provider, and those IP addresses can change.	cdn.download.comodo. com	104.16.61.31 104.16.60.31		For CCS installation/upgrade only
OCSP	Client certificate revocation checking	http://ocsp.comodoca.c om/	Dynamic load balancing	80	Optional For mobile devices only. The Windows client does not perform OCSP checks.
CRL	Client certificate revocation checking	http://crl.comodoca.co m/	Dynamic load balancing	80	Optional For mobile devices only. The Windows client
					does not perform CRL checks.
3rd Party Patch Management	3rd party applications updates	patchportal.one.comod o.com	23.229.69.170	443	Optional For 3rd party software updates only
Telemetry	Sending telemetry data for analysis	cescollector.cwatchapi. com	Dynamic (Amazon load balancing)	443	Optional

Comodo Client - Security (CCS)

	Comodo Client - Security (CCS)						
Service	Purpose	Hostname	IP	Port	Protocol	Criticality and notes	
FLS	FLS lookup	fls.security.c omodo.com	199.66.201.16	4447 (optional), 53	UDP	Mandatory - choose *either* UDP or TCP for FLS	

						UDP is the main, preferred FLS lookup channel 53 - Default port. 4447 - Reserve port. Can be specified manually in profile. At least one of the two ports must be open.
	FLS lookup	fls.security.c omodo.com	199.66.201.16	4448 (optional), 80	TCP	Mandatory - choose *either* UDP or TCP for FLS TCP is the reserve FLS lookup channel. 80 - Default port 4448 - Reserve port. Can be specified manually in profile. At least one of the two ports must be open
Valkyrie	Valkyrie lookup	valkyrie.com odo.com	Dynamic (Amazon load balancing)	443	HTTPS	Optional Valkyrie lookup is currently disabled on CCS, CCS gets Valkyrie verdicts from LVS.
	Submit to Valkyrie	valkyrie.com odo.com	Dynamic (Amazon load balancing)	443	HTTPS	Mandatory
cdn.download.c omodo.com	Update / upgrade mirror	cdn.downloa d.comodo.c om	104.16.61.31 104.16.60.31	80	HTTP	Mandatory
		cdn.downloa d.comodo.c om	104.16.61.31 104.16.60.31	443	HTTPS	
download.com odo.com	Update/upgrade. Requests to	download.co modo.com	178.255.82.5	80	HTTP	Mandatory
	download.como do.com are redirected to cdn.download.c omodo.com which is managed by The CDN provider, and those IP addresses can change	download.co modo.com	178.255.82.5	443	HTTPS	Mandatory
LVS	Download the EM verdicts database	s3-eu-west- 1.amazonaw s.com	Dynamic (Amazon load balancing)	443	HTTPS	Mandatory

	LVS lookup	subdomain.it sm- us1.comodo .com	Dynamic (Amazon load balancing)	443	HTTPS	
OCSP	Client certificate revocation checking	http://ocsp.c omodoca.co m/	Dynamic load balancing	80	-	Optional CCS does not perform CRL checking yet
CRL	Client certificate revocation checking	http://crl.co modoca.co m/	Dynamic load balancing	80	-	Optional CCS does not perform CRL checking yet

Endpoint Manager Server (on premise installation)

	Endpoint Manager Server (on premise)						
Service	Purpose	Hostname	IP	Port			
E-mail	Connection to the configured SMTP server for e-mail sending	SMTP server hostname	SMTP server IP	25			
LDAP synchronization	Direct synchronization with LDAP	User's LDAP server host	User's LDAP server IP	389 636 (LDAPS)			
Connection to Comodo Accounts Manager	License verification	https://accounts.como do.com	91.199.212.166	443			
Google Cloud Messaging	To push messages	https://android.google apis.com/gcm/send	Dynamic	443			
Connection to	To push messages	https://gateway.push.a	Dynamic	2195			
Apple Push		pple.com		2196			
Notification Server				80			
				443			
Local Verdict Server	File rating management	EM server hostname	EM server IP	443			

Remote Control

	Remote Control							
Service	Purpose	Hostname	IP	Port	Protocol	Criticality and notes		
XMPP	Remote Control Session (with new version of Comodo RC*	xmpp.itsm- us1.comodo.c om	100.25.122.42 34.193.74.83 54.163.100.185	443	HTTPS	Mandatory for both RC host and target device		
STUN server	To receive	stun.l.google.	Dynamic	19302	UDP	Mandatory for both		

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	possible network configuration, external ip etc.	com				RC host and target device for peer-to- peer and relay connections.
Direct connection	To establish direct or relay connection between RC and target device.	-		1025 - 65535	UDP	Mandatory for both RC host and target device
Direct connection	Establish direct connection between RC and target device.	-	IP of the RC host AND target host	Local port range specified in profile. Win7+/Mac OS. Default port range= 49152 - 65535 WinXP/2003 . Default port range = 1025-5000	UDP	Mandatory for both RC host and target device
Peer-to-peer connection	Establish peer- to-peer connection RC and target device.	-	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	UDP	Mandatory for both RC host and target device for peer-to-peer connections.
Relay connection	Establish relay connection between RC and target device.	-	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478, 49152 - 65535	UDP	Mandatory for both RC host and target device for relay connections.

Remote Control - Direct connection by traffic direction *

	Outgoing Traffic							
	Source		Protocol					
IP	Port	IP	Port					
Local IP 1	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	Local IP 2	local port range specified in profile (Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	UDP				

Incoming Traffic

	Source		Destination	
IP	Port	IP	Port	Protocol
Local IP 2	local port range specified in profile (Win7+/MacOS default port range: 49152 - 65535) (WinXP/2003 default port range: 1025- 5000)	Local IP 1	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535) (WinXP/2003 default port range: 1025-5000)	UDP

* - applies to both sides - RC host and target.

Remote Control - Peer to Peer Connection by traffic direction *

	Outgoing Traffic							
	Source		Destination					
IP	Port	IP	Port					
Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	UDP				
Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535)(WinXP/2003 default port range: 1025-5000)	stun.l.google.com	19302					

	Incoming Traffic					
Sourc	Source		Destination			
IP	Port	IP	Port			
18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)	UDP		
stun.l.google.com	19302	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535)(WinXP/2003 default port range: 1025-5000)			

* - applies to both sides - RC host and target.

Remote Control - Relay Connection by traffic direction*

Outgoing Traffic						
Source		Destination		Protocol		
IP	Port	IP	Port			

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Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478, 49152 - 65535	UDP
Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	stun.l.google.com	19302	UDP

	Incoming Traffic						
Sou	irce						
IP	Port	IP	IP Port				
18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478, 49152 - 65535	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	UDP			
stun.l.google.com	19302	Local IP	local port range specified in profile(Win7+/MacOS default port range: 49152 — 65535) (WinXP/2003 default port range: 1025-5000)	UDP			

* - applies to both sides - RC host and target.

All settings grouped by port

This table contains the same information as the other four tables on this page but with services grouped by port number.

Port	Service	IP	URL / Hostname	Protocol	Component
443	CC	Dynamic (Amazon load balancing)	subdomain.itsm- us1.comodo.com	HTTPS	Communication Client
	Enrollment	54.93.214.133	mdmsupport.comodo.co m	HTTPS	
	Monitoring and alerts	Dynamic (Amazon load balancing)	plugins.itsm- us1.comodo.com	HTTPS	

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File rating management	Dynamic (Amazon load balancing)	subdomain.itsm- us1.comodo.com	HTTPS	
Windows push service (XMPP)	100.25.122.42 34.193.74.83 54.163.100.185	xmpp.itsm- us1.comodo.com	HTTPS	
SSO	69.4.89.244	one-us.comodo.com	HTTPS	
3rd party patch management	23.229.69.170	patchportal.one.comodo. com	HTTPS	
Client Security installation	178.255.82.5	download.comodo.com	HTTPS	
Installation	104.16.61.31 104.16.60.31	cdn.download.comodo.c om	HTTPS	
Telemetry	Dynamic (Amazon load balancing)	cescollector.cwatchapi.c om	HTTPS	
Valkyrie	178.255.87.4	valkyrie.comodo.com	HTTPS	Comodo Client Security
Update/upgrade. Requests to download.comod o.com are redirected to cdn.download.co modo.com which is managed by The CDN provider, and those IP addresses can change	178.255.82.5	download.comodo.com	HTTPS	
Updates/upgrade s mirror	104.16.61.31 & 104.16.60.31	cdn.download.comodo.c om	HTTPS	
LVS	Dynamic (Amazon load balancing)	s3-eu-west- 1.amazonaws.com	HTTPS	
	Dynamic (Amazon load balancing)	subdomain.itsm- us1.comodo.com	HTTPS	
License verification	91.199.212.166	accounts.comodo.com	HTTPS	EM server (on premise)
Google cloud messaging	Dynamic	android.googleapis.com/ gcm/send	HTTPS	
Apple push notifications	Dynamic	gateway.push.apple.com	HTTPS	
Local Verdict Server	EM server IP	EM server hostname	HTTPS	
 XMPP	100.25.122.42	xmpp.itsm-	HTTPS	Remote Control

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		34.193.74.83 54.163.100.185	us1.comodo.com		tool	
80	Client Security	178.255.82.5	download.comodo.com	HTTPS	Communication	
	installation	104.16.61.31 104.16.60.31	cdn.download.comodo.c om	HTTPS	Client	
	OCSP CRL FLS Lookup	Dynamic load balancing	http://ocsp.comodoca.co m/	HTTPS		
		Dynamic load balancing	http://crl.comodoca.com/	HTTPS		
		199.66.201.16	fls.security.comodo.com	HTTPS	Comodo Client	
	Update/upgrade. Requests to download.comod o.com are redirected to cdn.download.co modo.com which is managed by The CDN provider, and those IP addresses can change	178.255.82.5	download.comodo.com	HTTPS	Security	
	Updates/upgrade s mirror	104.16.61.31 & 104.16.60.31	cdn.download.comodo.c om	HTTPS		
	OCSP	Dynamic load balancing	http://ocsp.comodoca.co m/	HTTPS		
	CRL	Dynamic load balancing	http://crl.comodoca.com/	HTTPS		
	Apple push notifications	Dynamic	gateway.push.apple.com	HTTPS	EM server (on premise)	
25	Email	SMTP server IP	SMTP server hostname	SMTP	EM server (on premise)	
53	FLS Lookup	199.66.201.16	fls.security.comodo.com	UDP	Comodo Client Security	
4447 (Optional)	FLS Lookup	199.66.201.16	fls.security.comodo.com	UDP	Comodo Client Security	
4448 (Optional)	FLS Lookup	199.66.201.16	fls.security.comodo.com	UDP	Comodo Client Security	
389	LDAP synchronization	User's LDAP server IP	User's LDAP server IP	LDAP server IP		
	LDAP synchronization	User's LDAP server IP	User's LDAP server IP		EM server (on premise)	

636	LDAP synchronization	User's LDAP server IP	User's LDAP server IP		Communication Client
	LDAP synchronization	User's LDAP server IP	User's LDAP server IP		EM server (on premise)
2195	Apple push notifications	Dynamic	gateway.push.apple.com		EM server (on premise)
2196	Apple push notifications	Dynamic	gateway.push.apple.com		EM server (on premise)
19302	STUN server	Dynamic (Amazon load balancing)	stun.l.google.com	UDP	Remote Control tool
Win7+/MacO S. Default port range = 49152 - 65535 WinXP/2003. Default port range = 1025-5000	Direct connection	IP of the RC host AND target host	N/A	Win7+/Mac OS. Default port range = 49152 - 65535 WinXP/200 3. Default port range = 1025- 5000	Remote Control tool
3478	Peer-to-peer connection	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	-	3478	
3478, 49152 - 65535	Relay connection	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	-	3478, 49152 - 65535	



Appendix 2: Pre-configured Profiles

Endpoint Manager ships with the following built-in profiles:

- Windows Security Level 1 Profile (default profile)
- Windows Security Level 1 Profile [Former Standard Profile]
- Windows Security Level 2 Profile
- Windows Security Level 3 Profile
- Mac OS Security Level 1 Profile for EM (default profile)
- iOS Security Level 1 Profile for EM (default profile)
- Android Security Level 1 Profile for EM (default profile)
- Linux Security Level 1 Profile for EM (default profile)

'Default' profiles are automatically applied to devices which match their operating system IF no custom profile exists for the device.

Windows Profile Settings

Section	Security Level 1	Security Level 1	Security Level 2	Security Level 3
		[Former 'Standard' profile]		
Containme nt Rule	All malicious files are blocked and quarantined	All malicious files are blocked and quarantined	All malicious files are blocked and quarantined	All malicious files are blocked and quarantined
	All files in suspicious and containment folders are blocked	All files in suspicious and containment folders are blocked	All files in suspicious and containment folders are blocked	All files in suspicious and containment folders are blocked
	Metro apps are not contained	Metro apps are not contained	All unrecognized files are contained.	All unrecognized files are contained.
	All unrecognized files are contained	All unrecognized files are contained.	All contained files are logged	All contained files are logged
HIPS	Enabled	Enabled	Enabled	Enabled
	'Safe Mode' action = 'Allow Requests'	'Safe Mode' action = 'Allow Requests'	'Safe Mode' action = 'Block Requests'	Safe Mode action = 'Block Requests'
	'Enhanced Protection Mode' - Disabled,	'Enhanced Protection Mode' = Disabled	'Enhanced Protection Mode' = Enabled	'Enhanced Protection Mode' = Disabled
		'Enable Embedded Code Detection and Heuristic Command- line Analysis for Certain Applications' = Enabled		'Enable Embedded Code Detection and Heuristic Command- Line Analysis for Certain Applications' = Enabled with all applications selected
Firewall	Enabled	Enabled	Enabled	Enabled
	'Safe Mode' action = 'Allow Requests'	'Safe Mode' action = 'Allow Requests'	'Safe Mode' action = 'Block Requests'	'Safe Mode' action = 'Block Requests'
VirusScope	Enabled	Enabled	Enabled	Enabled

	'Monitor Contained	'Monitor Contained	'Monitor Contained	'Monitor Contained
	Applications only' =	Applications only' =	Applications only' =	Applications only' =
	Enabled	Enabled	Disabled	Disabled
File Rating	Enabled	Enabled	Enabled	Enabled
	'Detect potentially	'Detect potentially	'Detect potentially	'Detect potentially
	unwanted	unwanted	unwanted	unwanted
	applications' =	applications' =	applications' =	applications' =
	Enabled	Enabled	Enabled	Enabled
Antivirus	'Realtime Scan' -	'Realtime Scan' -	'Realtime Scan' -	'Realtime Scan' -
	Enabled	Enabled	Enabled	Enabled
	Full Scan - 'Use cloud			
	while scanning' -	while scanning' -	while scanning' -	while scanning' -
	Disabled	Disabled	Disabled	Enabled

About Comodo Security Solutions

Comodo Security Solutions is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Comodo provides complete, end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats. With over 80 million installations of its threat prevention products, Comodo provides an extensive suite of endpoint, website and network security products for MSPs, enterprises and consumers.

Continual innovation and a commitment to reversing the growth of zero-day malware, ransomware, data-breaches and internet-crime distinguish Comodo Security Solutions as a vital player in today's enterprise and home security markets.

About Comodo Cybersecurity

In a world where preventing all cyberattacks is impossible, Comodo Cybersecurity delivers an innovative cybersecurity platform that renders threats useless, across the LAN, web and cloud. The Comodo Cybersecurity platform enables customers to protect their systems and data against even military-grade threats, including zero-day attacks. Based in Clifton, New Jersey, Comodo Cybersecurity has a 20-year history of protecting the most sensitive data for both businesses and consumers globally. For more information, visit comodo.com or our **blog**. You can also follow us on **Twitter** (@ComodoDesktop) or **LinkedIn**.

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