



Comodo IT and Security Manager

Software Version 6.19

Administrator Guide

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COMODO Creating Trust Online*

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1. Introduction to Comodo IT and Security Manager

Comodo IT and Security Manager (ITSM) allows you to manage, monitor and secure mobile devices and Windows/Mac OS endpoints which connect to enterprise wired and wireless networks.

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



- Each user license covers up to five mobile devices or one Windows endpoint for a single user. So 1 license will be consumed by 5 mobile devices, or 1 license could be used for a single Windows endpoint.
- If more than 5 devices or 1 endpoint are added for the same user then an additional license is required.

Guide Structure

This guide is intended to take you through the configuration and use of Comodo IT and Security Manager and is broken down into the following main sections.

Introduction to Comodo IT and Security Manager - Contains a high level overview of the service and serves as an introduction to the main themes and concepts that are discussed in more detail later in the guide.

The Administrative Console - Contains an overview of the main interface of ITSM and guidance to navigate to different areas of the interface.

The Dashboard - Describes the Dashboard area of the interface that allows the administrator to view a snapshot summary of devices and their statuses as pie-charts.

Users and User Groups - Covers the creation and management of users and user groups, enrollment of devices and assigning configuration profiles to devices.

- Managing Users
 - Creating New User Accounts
 - Enrolling Users Devices for Management
 - Viewing the Details of a User



- Assigning Configuration Profile(s) to Users' Devices
- Removing a User
- Managing User Groups
 - Creating a New User Group
 - Editing a User Group
 - Assigning Configuration Profiles to a User Group
 - Removing a User Group
- Configuring Role Based Access Control for Users
 - Creating a New Role
 - Managing Permissions and Assigned Users of a Role
 - Removing a Role
 - Managing Roles Assigned to a User

Devices and Device Groups - Covers management and control of enrolled devices, remotely generating sirens, wiping, locking and powering off enrolled devices, remotely installing and managing apps on devices and managing device groups.

- Managing Device Groups
 - Creating Device Groups
 - Editing a Device Group
 - Assign Configuration Profiles to a Device Group
 - Remove a Device Group
- Managing Devices
 - Managing Windows Devices
 - Managing Mac OS Devices
 - Managing Android/iOS Devices
 - Viewing User Information
 - Removing a Device
 - Remote Management of Windows Devices
 - Applying Procedures to Windows Devices
 - Remotely Installing and Updating Packages on Windows Devices
 - Remotely Installing Packages on Mac OS Devices
 - Installing Apps on Android/iOS Devices
 - Generating an Alarm on Devices
 - Locking/Unlocking Selected Devices
 - Wiping Selected Devices
 - Assigning Configuration Profiles to Selected Devices
 - Setting / Resetting Screen Lock Password for Selected Devices
 - Updating Device Information
 - Sending Text Message to Devices
 - Restarting Selected Windows Devices
 - Changing a Device's Owner
 - Changing the ownership status of a Device
- Bulk Enrollment of Devices



- Enroll Windows and Mac OS Devices by Installing the ITSM Agent Package
- Enroll Windows Devices Via AD Group Policy
- Enroll Windows and Mac OS Devices by Offline Installation of Agent
- Enroll Windows Devices using Comodo Auto Discovery and Deployment Tool
- Enroll Android and iOS Devices of AD Users

Configuration Templates – Create and manage configuration profiles for iOS, Android, Windows and MAC OS devices.

Creating Configuration Profiles

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- Profiles for Android Devices
- Profiles for iOS Devices
- Profiles for Windows Device
- Profiles for Mac OS Devices
- Viewing and Managing Profiles
 - Exporting and Importing Configuration Profiles
 - Cloning a Profile
- Editing Configuration Profiles
- Managing Default Profiles
- Managing Alerts
 - Create a New Alert
 - Edit / Delete an Alert
- Managing Procedures
 - Viewing and Managing 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

Applications – Manage applications installed on devices, blacklist and whitelist applications and deploy patches.

- 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

Application Store - Covers the management of applications that can be pushed to enrolled devices from the ITSM console.

- iOS Apps
 - Adding iOS Apps and Installing them on Devices



- Managing iOS Apps
- Manag
 Android Apps
 - Adding Android Apps and Installing them on Devices
 - Managing Android Apps
- Windows Apps
 - Install Windows Apps on Devices

Security Sub-Systems - Obtain trust ratings for files on your devices, run AV scans, view threats, manage quarantined items and more.

- Viewing Contained Applications
- Manage File Trust Ratings on Windows Devices
- Viewing list of Valkyrie Analyzed Files
- Antivirus and File Rating Scans
 - Running Antivirus and/or File Rating Scans on Devices
 - Handling Malware on Scanned Devices
 - Updating Virus Signature Database on Windows and Mac OS Devices
- Viewing and Managing Identified Malware
- Viewing and Managing Quarantined Items on Windows Devices
- Viewing and Managing Quarantined Items on Mac OS Devices
- Viewing Threat History
- Viewing History of External Device Connection Attempts

Manage Certificates Installed on Devices - Manage authentication certificates issued to users and devices by Comodo Certificate Manager

Configure Comodo IT and Security Manager - Explains how to set up your ITSM portal to communicate with enrolled Android and iOS devices, how to integrate AD servers and import user groups and how to configure the Windows client and various ITSM components. Also covers management of subscriptions and renewal/upgrade of licenses.

- Email Notifications, Templates and Custom Variables
 - Configuring Email Templates
 - Configuring Email Notifications
 - Creating and Managing Custom Variables
 - Creating and Managing Registry Groups
 - Creating and Managing COM Groups
 - Creating and Managing File Groups
- ITSM Portal Configuration
 - Importing User Groups from LDAP
 - Adding Apple Push Notification Certificate
 - Configuring the ITSM Android Agent
 - Configuring ITSM Windows Client
 - Managing ITSM Extensions
 - Configuring ITSM Reports
 - Integrating with Comodo Certificate Manager



- Setting-up Administrator's Time Zone
- Viewing and Managing Licenses
 - Upgrading or Adding a License
- Viewing Version and Support Information

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

1.1.Key Concepts

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. Comodo IT and Security 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.

Windows Endpoints - For the purposes of this guide, a Windows Endpoint is any Windows laptop, desktop or server computer that is allowed to connect to the enterprise network through a wireless or wired connection. Comodo **IT and Security Manager** allows administrators to install Comodo Client Security, manage security settings on them, view and manage installed applications, run antivirus scans manage OS update/security path installation and more. Windows Endpoints may be employee or company owned.

Mac OS - For purpose of this guide, Mac OS is Mac Endpoints with version 10 of the Apple Macintosh operating system. ITSM allows administrators to install Comodo Antivirus for Mac, manage secure settings on them, deploy required profiles on them and more.

User - An employee or guest of the enterprise whose device(s) are managed by the ITSM 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 administrator-defined grouping of Android, iOS and/or Windows devices that allows administrators to apply configuration profile(s) to multiple devices at once.

Quarantine - If the antivirus scanner detects a malicious application on an Android device then it may either be deleted immediately or isolated in a secure environment known as 'quarantine'. Any infected files moved into quarantine are encrypted so they cannot run or be executed.

Configuration Profile - A configuration profile is a collection of settings applied to enrolled device(s) which determine network access rights, overall security policy, antivirus scan schedule and other preferences. Profiles are split into iOS profiles, Android profiles and Windows profiles. Profiles can be applied to an individual device, to a group of devices, selected users' devices or designated as a 'default' profile.

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 ITSM. 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.

Comodo Client Communication (a.k.a ITSM Agent) - Comodo Client Communication (CCC) is an agent which needs to be installed on all enrolled devices to facilitate communication with the ITSM server. The agent 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.

 CCC 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 CCC 'About' dialog.

Notifications - Notifications are sent to devices by ITSM after events like the installation or removal of an app or because a threat has been identified on the device. For identification of threats during on-access, scheduled or on-demand scanning on Android and Windows devices, the notifications are generated at the web interface for the administrator.

Patch Management - The Patch Management involves monitoring the security and update patches for various versions of Windows operating systems released from time to time by software vendors, identifying patches appropriate for the OS version of each managed Windows device and installing missing patches on to them. ITSM is capable identifying patch status of each managed endpoint and apply missing patches.

Remote Monitoring and Management - Remote Monitoring and Management (RMM) Module is an efficient endpoint monitoring application that allows administrators to monitor and manage multiple endpoints from one centralized console. RMM is available as a ITSM extension to Comodo One customers and can be accessed from the ITSM interface.

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 ITSM interface.

Active Directory - ITSM 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 when it is first enrolled. It is prudent, therefore, to keep them as simple as possible as you can always deploy more refined profiles later. For example, you can set up passcode complexity and encryption profiles that will provide immediate, protection for enrolled devices. Default profiles will also be applied to devices when:
 - Currently active policies are removed
 - A device is removed from a device group

See Managing 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 (remember, many profiles can be applied 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. A system like this would allow you to construct bespoke profiles on-the-fly from a pool of known settings. Adding or removing a profile from a device would let you quickly troubleshoot if a particular setting is causing issues.

See Creating Configuration Profiles for more details.

 Each ITSM license allows you to enroll up to five mobile devices or one Windows/ Mac endpoint for a single user. If more than 5 devices or 1 endpoint are enrolled for one particular user, then an additional license will be consumed. We encourage admins to evaluate the average number of devices per user and to set max. enrollments accordingly.

See Enrolling 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 Managing Device Groups for more details.

5. The first level of defense on any device is to set a complex passcode policy. ITSM 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. ITSM 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. ITSM 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.

See Viewing Applications Installed on Enrolled Devices 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. ITSM 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. ITSM interface can be accessed by administrators with different administrative roles and the activities performed by them depends on the roles assigned to them. Privileges to administrative roles should be according to organizational hierarchy and requirements. ITSM allows to configure different roles with different privileges and assign them to administrators as per organizational needs. See Configuring the Role-Based Access Control for Users for more details.
- 10. Check the devices statuses regularly for compliance of deployed profiles and other reports. ITSM provides at-a-glance view of platform details of devices, types of devices and other reports. See **The Dashboard** and **Device List** for more details.

1.3. Quick Start

This tutorial explains how to use Comodo IT and Security Manager (ITSM) to add users, enroll devices, create device groups and create/deploy device configuration profiles:

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

Note - ITSM communicates with Comodo servers and agents on devices in order to update data, deploy profiles, submit files for analysis 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**.

Step 1 - Enrollment and Configuration

- Note: This step explains how to enroll to ITSM as a new customer.
- Existing Comodo One users can access ITSM by logging in at https://one.comodo.com/app/login then clicking 'Licensed Applications' > 'IT and Security Manager'.

For more details on Comodo One services, see the online guide at https://help.comodo.com/topic-289-1-716-8478-Introduction-to-Comodo-One-MSP.html

Getting a new Comodo ITSM subscription is very easy and can be completed in a few steps.

- Visit https://one.comodo.com/
- · Click 'Get Now for Free!' at top right



You will be taken to the Comodo One enrollment wizard:

Enter your email	
Get Free Access Now	

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

NEW COMODO ONE USER	• En ad En
Email *	ch thi
admin@comnanyname.com	• Pa
Password *	- A
•••••	- C let
Telephone Number *	- C - C
0123456789	ch
✓ I have read the <u>Terms and Conditions</u> and accept it.	• Te • En EL
	the
I'm not a robot	• Ca
GET NOW FOR FREE!	Click 'Get N

- Email This will be 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 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 'EULA' link and select the 'I have read EULA and accept it' check box.
- **Captcha**: Select I'm not a robot and complete the verification.

Click 'Get Now for Free'.

You will receive a confirmation email to verify your account:





Hello,

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

Verify my email

Thank you for joining The Comodo One Community!

The Comodo One Team

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

Comodo One Technical Support Call: 973-396-1232 (24/7) Email: <u>c1-support@comodo.com</u> MSP Forum: <u>https://forum.mspconsortium.com</u> Enterprise Forum: <u>https://forum1.comodo.com</u>

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

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

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Comodo IT and Security Manager - Administrator Guide

Great to h	ave you back!
	modo ONE. You can now email and password.
Username	
Password	
Remember Me	Forgot password?
SIGN IN	
New here?	<u>Create an account</u>
Available on the Apple Store	Android App on GOOGLE PLAY

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

COMODO Creating Trust Online*

Setup Account Details	🕩 <u>Logout</u>
Business Type * (Compare Business Types)	
Managed Service Provider	
O Enterprise	
Subdomain/Company* ② Your custom support URL for your ACME.servicedesk	
ACME.Servicedesk	Submit

Business Type - This determines which version of Comodo One you will receive. The two
versions are 'C1 MSP' and 'C1 Enterprise'. The modules offered with each version are as follows:

Comodo One MSP	Comodo One Enterprise	
Modules included in the Comodo One Base package		
Service Desk	Service Desk	
IT and Security Manager (ITSM)	IT and Security Manager (ITSM)	
Dome Shield	Dome Shield	
Modules that can be added to the base package		
Stand-alone Patch Management	Acronis Backup	
Acronis Backup	Comodo Quote Manager	
Comodo Quote Manager	cWatch	
cWatch	Comodo Dome Standard	
Comodo Dome Standard	Comodo CRM	
Comodo CRM	Comodo Dome Firewall Cloud	
Comodo Dome Antispam MSP	Comodo Dome Firewall Virtual Appliance	
Comodo Dome Firewall Virtual Appliance	Comodo Dome Data Protection	
	Comodo Dome Antispam	

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

• Subdomain - The sub-domain will form part of the unique URL you use to access the standalone

ITSM.

For example, if you enter the sub-domain 'dithers' then you will access ITSM at https://dithers.cmdm.comodo.com

Click 'Submit'

The next screen shows a summary of your active services:

Comodo ONE MSP Free Services Out of Box	ເ <u>Logout</u>
IT and Security Manager	READY 🔥
 Full Mobile Device Management Full Mobile Application Management Full Mobile Security Management Bring Your Own Device Support Endpoint Security Management for Windows Dev Containment Technology (For the first month.) Community support 	vices including World Best
Oome Shield	READY 🔥
 DNS Based Security Domain Filtering Malware, Phishing and Botnet Protection 	
Service Desk	READY 🔥
 Service Automation Ticketing System Multi-Site Help Desk Management Fully Integrated / One View Dashboard for all 3 F 	ree Tools
Comodo One MSP Forum Subsc You are now a member of our MSP Forum where you can provide your insight, enga well as gain support from a network of pa technology developers. Your <u>MSP Forum</u> username is your sub created. The password is the same as y	n partnership community ge in discussion boards as artners and highly skilled domain prefix that you've
	ок

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- Click 'OK' to finish setup. You will be taken to the Comodo One Dashboard
- Click 'Licensed Applications' > 'ITSM' to open the ITSM 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 can login at https://one.comodo.com/app/login
- Admins/users created in ITSM can login at https://company name>.cmdm.comodo.com/

Step 2 - Configure ITSM Communications

In order for your ITSM server to communicate with enrolled devices, you need to install an Apple Push Notification (APN) certificate and/or a Google Cloud Messaging (GSM) Token on your portal. The following sections explain more about:

- Adding APN Certificate
- Adding GCM Token

Adding Apple Push Notification Certificate

Apple requires an Apple Push Notification (APN) certificate installed on your ITSM portal to facilitate communication with managed iOS devices and Mac OS devices. To obtain and implement an APN certificate and corresponding private key, please follow the steps given below:

- Step 1- Generate your PLIST
 - Click 'Settings' on the left and select 'Portal Set-Up'
 - Click 'APNs Certificate' from the top.

IT & Security Manager	$= \underline{Portal Set-Up} / \underline{APNs Certificate} / Generation \qquad License C$
DASHBOARD	
DEVICES	Active Directory APNs Certificate Android Client Configuratio
A USERS	
	APNs certificate is not installed.
APPLICATIONS	Click "Create APNs Certificate" to proceed.
SECURITY SUB-SYSTEMS	
	,
SETTINGS	
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 *	
Select country name	~
Email address *	
Email address	
State or province name *	
State or province name	
Locality name (eg, city) *	
Locality name (eg, city)	
Organization name *	
Organization name	
Organizational unit *	
Organizational unit	
Organizational Unit Name (eg, section)	
Common name *	
Common name	
(e.g. server FQDN or YOUR name)	
Create Rese	t

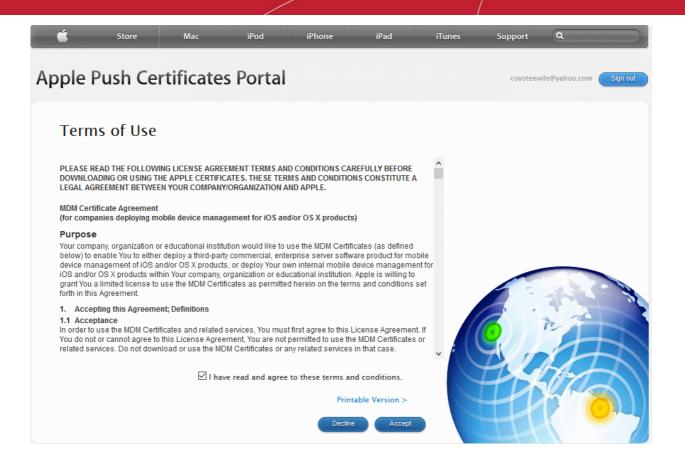
 Complete all fields marked with an asterisk and click 'Create'. This will send a request to Comodo to sign the CSR and generate an Apple PLIST. You will need to submit this to Apple in order to obtain your APN certificate. Usually your request will be fulfilled within seconds and you will be taken to a page which allows you to download the PLIST:

Active Directory **APNs** Certificate Android Client Configuration Windows Client Configuration Extensions Management **Upload APNs Certificate** P To get the certificate for communication between server and Apple devices you need to: 1. Download: The Apple PLIST Signed by Comodo 2. Login to the Apple Push Certificate Portal with your regular Apple ID (free account is enough). 3. Upload the PLIST from step 1 to the Apple portal. Apple will use this to generate your certificate. 4. Download your certificate from Apple. It will be in PFM format 5. Click 'Browse', select your certificate, and click 'Save' to upload it to ITSM Select .PEM file

- 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/.
 - If you do not have an Apple account then please create one at https://appleid.apple.com.
 - Once logged in, click 'Create a Certificate'.



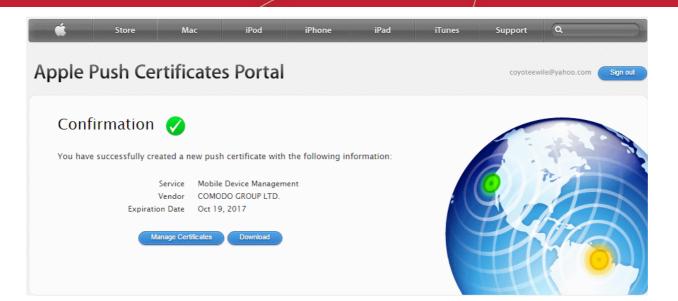
You will need to agree to Apple's EULA to proceed.



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

	Ú.	Store	Mac	iPod	iPhone	iPad	iTunes	Support	Q	
Ap	ople Pu	ish Cer	tificates	Portal				coyoteew	ile@yahoo.com	Sign out
	Create	a <mark>N</mark> ew P	Push Cert	ificate						
		Certificate Sigr eate a new pus		ned by your th	iird-party server					
	Notes									
		ed Certificate S	Signing Request CSR.csr	Cancel	Upload					

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



- Click the 'Download' button and save the certificate to a secure location. It will be a .pem file with a name similar to 'MDM_COMODO GROUP LTD._Certificate.pem'
- Step 3 Upload your certificate to ITSM
 - Next, return to the ITSM interface and open the 'APNs Certificate' interface by clicking Settings > Portal Set-Up > APNs Certificate.
 - Click the 'Browse' button, locate your certificate file and select it.

Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management	ŀ
Upload AF	PNs Certificate			🕞 Save	
<u> </u>	ertificate for commu levices you need to:	nication between server			
2. Logir regul 3. Uploa	n to the <u>Apple Push C</u> ar Apple ID (free acco	ep 1 to the Apple portal.			
.PEM 5. Click	format.	from Apple. It will be in certificate, and click 'Save'			
Select .PEM	M file Browse	\supset			
•	Click 'Save' to up	pload your certificate.			

The APNs Certificate details interface will open:

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Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management	Þ
APNs Certific	ate				
Certificate De	etails	Renew Delete	Additional Info		
Country Name			Activation Date Oct 19, 2016, 6:39:37 AM		
Locality Name Madras			Expiry Date Oct 19, 2017, 6:39:37 AM		
Organization Nan Coyote	ne				
Organization Unit	Name				
Common Name coyoteewile@yah	oo.com				
Email coyoteewile@yah	oo.com				

Your ITSM Portal will be now be able to communicate with iOS devices. You can enroll iOS devices and Mac OS devices for management.

The certificate is valid for 365 days. 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 devices to enable the server to communicate with them.

• To renew your APN Certificate, click 'Renew' from the iOS APNs Certificate details interface.

Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Exte:
APNs Certific	ate			
Certificate D	etails	Renew	Additional Info	
Country Name India			Activation Date Oct 19, 2016, 6:39:37 AM	
Locality Name Madras			Expiry Date Oct 19, 2017, 6:39:37 AM	
Organization Nam Coyote	ne			
Organization Unit	t Name			
Common Name				

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

Adding Google Cloud Messaging (GCM) Token

Comodo IT and Security Manager requires a Google Cloud Messaging (GCM) token in order to communicate with Android devices. ITSM ships with a default API token. However, you can also generate a unique Android GCM token for your ITSM 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.

🖕 Firebase	Go to docs 🥪
Welcome to Firebase Tools from Google for developing great apps, engaging with your users, and earning more through mobile ads. Learn more	•
CREATE NEW PROJECT	
Create a project	×
Project name	
Coyote ITSM	
Country/region (?)	
United States 👻	
By default, your Firebase Analytics data will en features and Google products. You can contro data is shared in your settings at anytime. Lea	how your Firebase Analytics
By proceeding and clicking the button below, Firebase services in your app and agree to the	
CANCEL	CREATE PROJECT

- Click 'Create Project'
- Type a name for the new project in the 'Project Name' field
- Select your country from the 'Country/region' drop-down
- Click 'Create Project'.

Your project will be created and the project dashboard will be displayed.

4	Firebase			Coyote ITSM 👻 Go to do	ocs 🥃
A	Coyote ITSM	Overview			?
0	Analytics				
DEVE	ELOP	Welcon	ne to Firebase! Get start	ed here	
**	Authentication	Welcon		ed here.	
	Database				
	Storage	i05		>	
\bigcirc	Hosting				
ľ	Test Lab	Add Firebase to your iOS app	Add Firebase to your Android app	Add Firebase to your web app	
ŧ	Crash Reporting)	,	,	
	W				

- Step 2 Obtain GCM Token and Project number •
 - Click the gear icon beside the project name at the left and choose Project Settings from the options.

- 😕	Firebase			
A	Coyote ITSM	٢	Project settings	
0	Analytics		Permissions	

The 'Settings' screen for the project will appear.

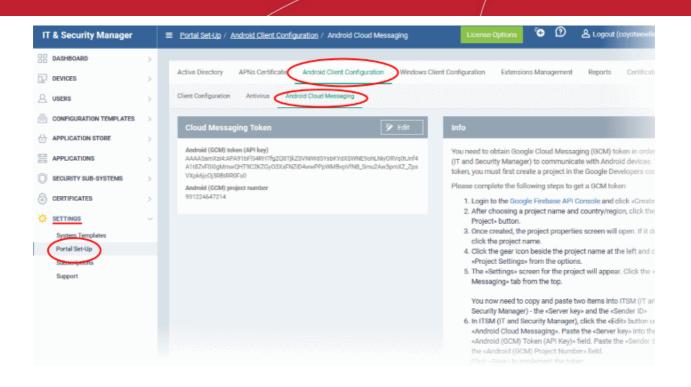
Click the 'Cloud Messaging' tab from the top. •

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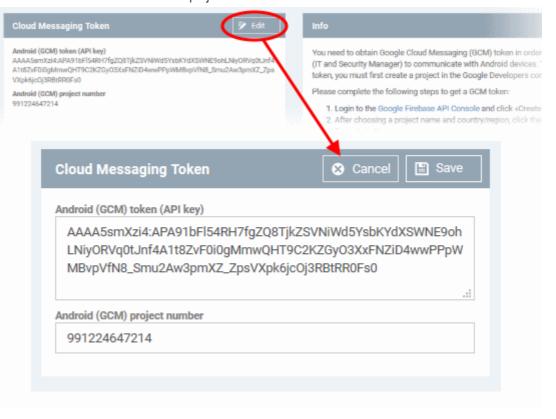
Settings 2 CLOUD MESSAGING GENERAL ANALYTICS ACCOUNT LINKING SERVICE ACCOUNTS Project credentials ADD SERVER KEY Key Token AAAA5smXzi4:APA91bFl54RH7fgZQ8TjkZSVNiWd5YsbKYdXSWNE9oh LNiyORVq0tJnf4A1t8ZvF0i0gMmwQHT9C2KZGyO3XxFNZiD4wwPPpW Server key MBvpVfN8_Smu2Aw3pmXZ_ZpsVXpk6jcOj3RBtRR0Fs0 AlzaSyAVKUfE95XhfEjDiMZLH4yg1Kq7WXzWtLg Legacy server key 🕥 Sender ID ⑦ 991224647214 iOS app configuration You don't have an iOS app.

- · Note down the Server key and Sender ID in a safe place
- Step 3 Enter GCM Token and Project number
 - Login to ITSM.
 - Click 'Settings' > 'Portal Set-Up' > 'Android Client Configuration' and choose 'Android Cloud Messaging' tab

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



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

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

Your ITSM Portal will be now be able to communicate with Android devices using the unique token generated for

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your ITSM portal.

Cloud Messaging Token	Save
Android (GCM) token (API key)	
AAAA5smXzi4:APA91bFl54RH7fgZQ8Tj LNiyORVq0tJnf4A1t8ZvF0i0gMmwQHT MBvpVfN8_Smu2Aw3pmXZ_ZpsVXpk6	9C2KZGy03XxFNZiD4wwPPpW
Android (GCM) project number	i.
991224647214	

Step 3 - Add Users

Users and staff can be added via the C1 console or directly through the ITSM interface.

- Comodo One Staff
 - C1 Enterprise Staff created in C1 will be automatically added as users in ITSM.
 - C1 MSP Staff created in C1 will be automatically added as users in ITSM and will be available for all companies.
- ITSM Users
 - C1 enterprise and ITSM 'stand-alone' customers can add users for a single company via ITSM.
 - C1 MSP customers can create multiple companies and add users/staff to them accordingly. You can
 group users/devices under different companies (for C1 MSP customers) as explained in Step 5 Create Groups of Devices.

Staff added via Comodo One will be available in ITSM and other C1 applications like Service Desk. Users added via ITSM will only be available in ITSM.

The following section explains how to add users via the ITSM interface:

To add a user

- Click 'Users' on the left then 'User List', then click the 'Create User' button
 or
- Click the 'Add' button
 at the menu bar and choose 'Create User'.

IT & Security Manager	≡ User List	License Options 🖸 😰
DASHBOARD >		👗 Create User
DEVICES >	Enroll Device Create User Manage Profiles Send Passwore	Enroll Device
USERS	Recovery Email	
User List		
User Groups	Dyanora dyanor	
Role Management	Samsung avente	
CONFIGURATION TEMPLATES >	🗋 🕘 Tab user 🛛 İmpaiz	

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The 'Create new user' form will open.

Create new User	Close
Username *	
avantistude	
Email *	
avantistude@gmail.com	
Phone number	
0123456	
Company *	
Dithers Company	•
Assign role	
Administrators	-
	Submit

- Type a login username (mandatory), email address (mandatory) and phone number for the user
- Choose user's company (mandatory)
 - Comodo One MSP Users The drop-down will list companies added to C1. Choose which company the user should be enrolled under.
 - Comodo One Enterprise and 'stand-alone' ITSM users Leave the selection as 'Default Company'.
- Choose user role. A 'role' determines user permissions within the ITSM console itself. ITSM ships with four default roles:
 - Account Admin Can login to the ITSM administrative interface and access all management interfaces. This will not be listed here since it will be automatically assigned only to the person who opens a C1 account. This role is not editable.
 - Administrators Can login to the ITSM administrative interface and access all management interfaces. This role can be edited according to your requirements.
 - Technician Can login to the ITSM administrative interface and access all management interfaces. This role can be edited according to your requirements.
 - Users Can login to the ITSM interface and view only the dashboard part of the application. This
 role can be edited according to your requirements.

You can create roles with different permission levels via the 'Role Management' screen (click 'User' > Role Management'). You can edit the permissions of existing roles by clicking on the role in the list and add or remove permissions as required. Any new roles you create will become available for selection in the 'Roles'

drop-down when creating a new user. See **Configuring the Role-Based Access Control for Users** and **Managing Roles assigned to a User** for more details.

• Click 'Submit' to add the user to ITSM.

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

• Repeat the process to add more users.

If you create an administrator then an account activation mail will be sent to their registered email address.

Tip: Importing User Groups from LDAP for more details.

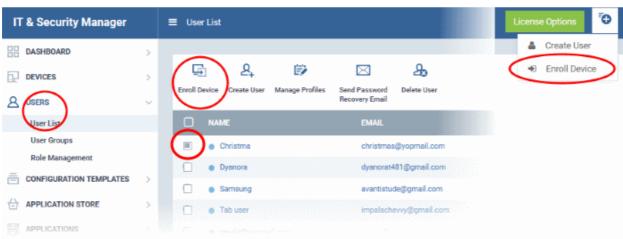
Step 4 - Enroll Users' devices

The next step is to enroll user devices for management.

- Each license allows you to enroll up to five mobile devices or one Windows endpoint per user. So 1 user license will be consumed by 5 mobile devices and 1 license will be consumed by a single Windows endpoint.
- If more than 5 devices or 1 endpoint are added for the same user then an additional user license will be consumed. Administrators can purchase additional licenses from the Comodo website.

To enroll devices

- Click 'Users' then 'User List'
- Select the user(s) whose devices you wish to enroll then click the 'Enroll Device' button above the table Or



Click the 'Add' button 🕒 at the menu bar and choose 'Enroll Device'.

The 'Enroll Devices' dialog will open for the chosen users.

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Enroll Devices	Close
Please choose the device owner(s) * mmoxford@yahoo.com	
Show Enrollment Instructions	Email Enrollment Instructions

The 'Please choose the device owner(s)' field is pre-populated with any users you selected in the previous step.

- To add more users, start typing first few letters of the username and choose from the results
- If you want enrollment instructions to be displayed in the ITSM interface, click 'Show Enrollment Instructions'. This is useful for administrators attempting to enroll their own devices.
- If you want the enrollment instructions to be sent as an email to users, click 'Email Enrollment Instructions'.
- A confirmation dialog will be displayed.

Enroll Devices	Close
Instruction e-mail has been sent to selected user(s). The user should navigate to the li on a device that is going to be enrolled.	nk
Show Enrollment Instructions Ok	¢

A device enrollment email will be sent to each user. The email contains instructions that will allow them to enroll their device. An example mail is shown below.

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COMODO

Welcome to IT and Security Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, Mac or Windows device into the IT and Security 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:

ITSM

 Please make sure you follow the correct procedure for your type of device - Mac, Windows, iOS or Android.

- Please make sure you complete these steps from the phone or 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.

Enrollment device:

Please click the following link to enroll your device - <u>https://demoq3-</u> msp.dmdemo.comodo.com:443/enroll/device/by/token/ae7d8e58f5af4a2b277135d132bdb31 0

Sincerely, IT and Security Manager team

Clicking the link will take the user to the enrollment page containing the agent/profile download and configuration links.

COMODO Creating Trust Online*

Welcome to IT and Security Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet or Windows device into the IT and Security 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:

- Please make sure you follow the correct procedure for your type of device - Mac, Windows, iOS or Android.
- Please make sure you complete these steps from the phone or 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 LINUX DEVICES

Download and install Comodo Client application by tapping the following link:

https://demoq3-msp.dmdemo.comodo.com:443/enroll/linux/run/to ken/370522bb23b6/b954dc2b64ce199183a Use the same link for manual enrollment if required.

1) Change installer mode to executable:

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

2) Run installer with root privileges:

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

FOR APPLE DEVICES

 Enroll opening the following link with any browser on your device:

https://demoq3-msp.dmdemo.comodo.com:443/enroll/apple/index /token/370522bb23b6fb954dc2b64ce199183a

2.a) [ONLY for macOS Devices] When you have installed *itsm.mobileconfig* file, use this link to download and install Comodo Client application: https://static.dmdemo.comodo.com/download/itsmagent-installer.p ko

2.b) [ONLY for iOS Devices]

When your profile has been enrolled, you will be requested to install Comodo Client application. Upon completion of the installation, tap the green icon labeled "Run after installation" and follow on-screen instructions to complete enrollment process.

FOR ANDROID DEVICES

Download and install Comodo Client application 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://demoq3-msp.dmdemo.comodo.com:443/enroll/android/ind ex/token/370522bb23b6fb954dc2b64ce199183a

FOR WINDOWS DEVICES

Enroll using this link: https://demoq3-msp.dmdemo.comodo.com:443/enroll/windows/m si/token/370522bb23b6fb954dc2b64ce199183a

WANUAL ENROLLMENT

Host: demoq3-msp.dmdemo.comodo.com Port: 443 Token: 370522bb23b6fb954dc2b64ce199183a

Sincerely, IT and Security Manager team,

The end-user should open the mail in the device to be enrolled and tap/click the link to view the device enrollment page in the same device.

Enroll Android Devices

The device enrollment page contains two links under 'FOR ANDROID DEVICES'. The first to download the Android app and the second to enroll the device:

emoniment.
FOR ANDROID DEVICES
Download and install the Comodo ONE Client app by tapping the following link:
https://play.google.com/store/apps/details?id=com.comodo.mdm
After installation, enroll by this link: https://dithers_construction_company-coyote-msp.cmdm.comodo.c om:443/enroll/android/index/token/554fd18d57eef662e8b908a9a1 86f811
MANUAL ENROLLMENT

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

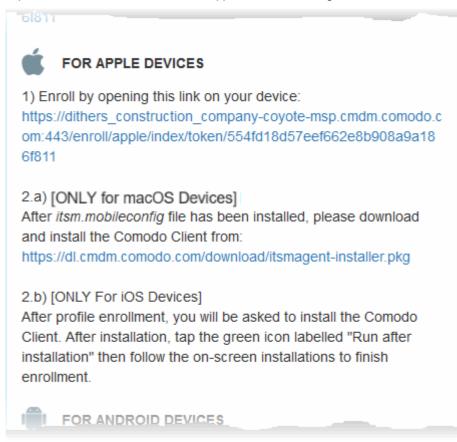
Enroll iPhones, iPods and iPads

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

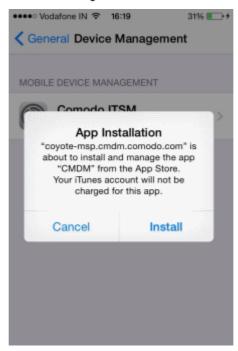
Note: The user must keep their iOS device switched on at all times during enrollment. Enrollment may fail if the device auto-locks/ enters standby mode during the certificate installation or enrollment procedures.

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• After the profile has been installed, the client app installation will begin.

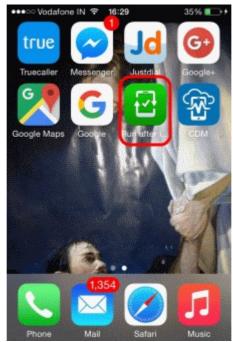


The app is required so that ITSM can manage the remote device:



- 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:



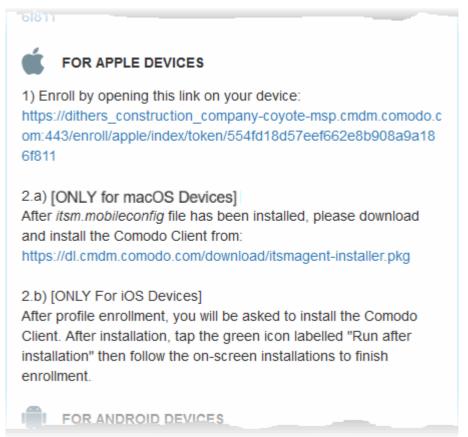


The device will be enrolled and connected to ITSM.

Enroll Mac OS Devices

Step 1 - Install the ITSM Configuration Profile

The device enrollment page contains an enrollment link under 'FOR APPLE DEVICES'. The user clicks this link to download the ITSM profile and install it.



On completion of installation, the profile will be added to the Device Profiles list in the Mac OS device.

..... $\bullet \bullet \bullet \bullet < >$ Profiles Q Search **Device Profiles** Comodo ITSM Comodo ITSM COMODO GROUP LTD. Verified 2 settings Description Configuration IT and Security Manager Signed *.cmdm.comodo.com Installed 08-Jul-2016, 2:11 PM Settings SCEP Enrollment Request OS X Mobile Device Management DETAILS Mobile Device Management Description COMODO GROUP LTD. ITSM Server https://coyote-+ -?

The next step is to install the ITSM agent for connection to the ITSM server and complete the enrollment.

Step 2 - Install ITSM Agent

• Next the user click the link under 'Only For Mac OS Devices' to download the ITSM agent for Mac.

61811
FOR APPLE DEVICES
1) Enroll by opening this link on your device: https://dithers_construction_company-coyote-msp.cmdm.comodo.c om:443/enroll/apple/index/token/554fd18d57eef662e8b908a9a18 6f811
2.a) [ONLY for macOS Devices] After <i>itsm.mobileconfig</i> file has been installed, please download and install the Comodo Client from: https://dl.cmdm.comodo.com/download/itsmagent-installer.pkg
2.b) [ONLY For iOS Devices] After profile enrollment, you will be asked to install the Comodo Client. After installation, tap the green icon labelled "Run after installation" then follow the on-screen installations to finish enrollment.

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The agent setup package will be downloaded and the installation wizard will start.

•••	😺 Install Comodo Client - Communication	
	Welcome to the Comodo Client - Communication Installer	
Introduction	You will be guided through the steps necessary to install this software, version 5.3.0.122.	
License		
Destination Select		
Installation Type		
Installation		
Summary		
	Go Back Contine	ue

• The user follows the wizard and completes the installation.

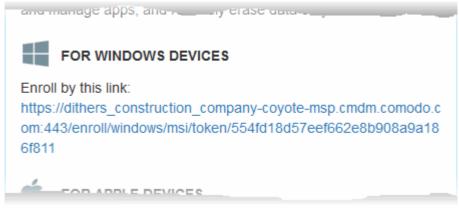
Once installation is complete, the agent will start communicating with the ITSM server.

•••	😓 Install Comodo Client - Communication	
	The installation was completed successfully.	
 Introduction License Destination Select 		
 Installation Type Installation Summary 	The installation was successful. The software was installed.	
	Go Back Close	

Enroll Windows PCs

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

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

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

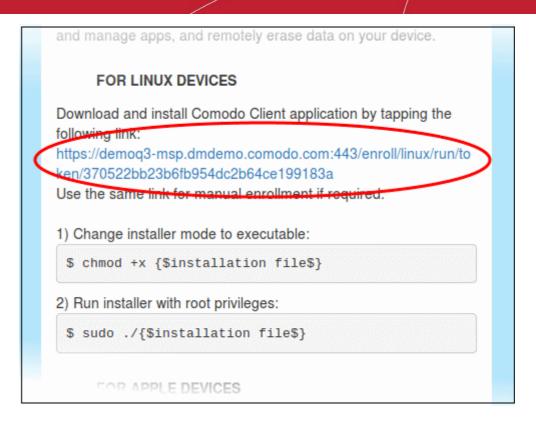
	•	(٦	D	5%	4 9	\bowtie	
Enroll Device		Manage Profiles	Takeover	Install MSI/Packages	Install OSX Packages	Siren Off	Siren On	Send Message	More
	OS	NAME	ACTIVE	COMPONENTS	PATCH STATUS	СОМР	ANY	OWNER	LAST ACTIVITY
		DESKTOP-8	AG	AV FW SB	A 1	Dither	s Constru	Dagwood	2016/09/02 09:03:1
		DESKTOP-T	AG	AV FW SB	A 1	Dither	s Constru	Angel Snow	2016/09/02 08:42:3
		LENOVO Le	ALIAN (1997)			Dither	s Constru-	hood	

The 'Device List' interface contains a list of all enrolled devices with columns that indicate the device IMEI, owner, platform and more. The interface allows you to quickly perform remote tasks on selected devices, including device wipe/lock/unlock/shutdown, siren on/off, install apps, password set/reset and more.

Enroll Linux Devices

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

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

The ITSM agent setup file will be downloaded.

You can install the ITSM agent in your Linux device by first changing installer mode to executable and running the installer with root privileges in the command terminal:

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

c1@c1-VirtualBox: ~/Downloads c1@c1-VirtualBox:~\$ ls km-0409.ini Desktop Downloads Pictures Templates Documents examples.desktop Music Public Videos c1@c1-VirtualBox:~\$ cd Downloads/ c1@c1-VirtualBox:~/Downloads\$ ls itsm_cTjIw6gG_installer.run c1@c1-VirtualBox:~/Downloads\$ chmod +x itsm_cTjIw6gG_installer.run c1@c1-VirtualBox:~/Downloads\$ sudo ./itsm_cTjIw6gG_installer.run [sudo] password for c1: Verifying archive integrity... All good. Uncompressing Linux ITSM Agent 100% systemd system cTjIw6gG Created symlink from /etc/systemd/system/multi-user.target.wants/itsm.service to /etc/systemd/system/itsm.service. Your device is now enrolled! Service started c1@c1-VirtualBox:~/Downloads\$

That's it. The Linux device will be enrolled and displayed in the devices list. Currently you can view the device status and online status. Other features such as security client, patch management, procedures and so on will be supported in future ITSM versions.

See **Devices** for more details.

Step 5 - Create Groups of Devices (optional)

- You can create groups of Android, iOS and Windows 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 customers can create separate device groups for each Company/Organization in their account.
 - C1 Enterprise and ITSM stand-alone customers can only create groups under the 'Default Company'.

See Managing Companies if you need more help with this.

To create a device group

- Click 'Devices' on the left then 'Device List'
- Click the 'Group Management' tab
 - C1 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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© Search group name	Group Management	🔎 Search group name
C All Devices	&	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 💭 Resul
		— 🔁 Default Group

The 'Add Group' interface will open:

Add Group	Close
Name *	
Running Staff	
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 Managing 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 or Mac OS devices.
- Devices must have been enrolled to ITSM 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).
- 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 will be automatically applied. This ensures all devices have a working profile installed. If you remove a custom profile then the default profile will be automatically installed to take its place.

Multiple profiles can be created to cater to the different security and access requirements of devices in your network.

Profiles are applied at the time a device connects to the network. Profile settings will remain in effect until such time as the ITSM app is uninstalled from the device or the profile itself is modified/removed/disabled by the administrator.

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

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

To create an Android Profile

- Click the 'Configuration Templates' tab on the left and choose 'Profiles'.
- Click 'Create' drop-down above the table and then choose 'Create Android Profile'.

IT & Security Manager	≡ Profiles
DASHBOARD >	
DEVICES >	Profiles Default Profiles
<u>A</u> users >	
$\overline{\Xi}$ configuration templates \sim	Create Import Export Profile Clone Profile Delete Profile
Profiles	Create Android Profile
Alerts	Create iOS Profile
Procedures	Create macOS Profile
APPLICATION STORE >	Create Windows Profile
Create Android Profile	×
-🌣 Name *	
Name	
Description	
Description	
	Create

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

The profile will be created and the 'General Settings' for the profile will be displayed.

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d Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default			
Beneral							
erai							
leral							
	l Settings					7	Edit
Genera Name *		-		-		7	Edit
Genera Name * Android D	Il Settings Devices in Purchase rne of the profile (sh).			7	Edit
Genera Name * Android D	Devices in Purchase me of the profile (sh).			7	Edit

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 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)								
Kiosk									
Native App Restrictions	bs used by purchai	a dant staff							
	ents or purpose of th	ななななな素がない。							
Passcode			linner 2.						
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 ITSM 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 Allows you to add requests for client and device authentication certificates to be issued by Comodo Certificate Manager (CCM). Note - The CCM Certificates section will appear only if you have integrated your ITSM server with your CCM account. For more details, refer to the section Integrating with Comodo Certificate Manager.
- 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.

- 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 the 'Configuration Templates' tab on the left and choose 'Profiles'.
- Click the 'Create' drop-down above the table and then choose 'Create iOS Profile' from the profiles.

iOS Profile for Purchase Dept.										
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default						
General Genera	l Settings	_	_	_		_	_	_	_	T Edit
Name * IOS Profile	e for Purchase Dep me of the profile (sh									
	n es and iPads used nation of the conten									

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

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

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iOS Prof for Purchase Dept									
Add Profile Section	file Clone Profile Delet								
Air Play									
Air Print									
APN									
Calendar									
Cellular Networks									
Certificate									
CCM Certificates	nown on the device).								
Contacts									
ActiveSync Settings									
Global Proxy HTTP	by purchase dept state the process of the process								
LDAP									
Email									
Passcode									
Proxy									
Restrictions									
Single Sign-On									
Subscribed Calendars									
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 Allows you to add requests for client and device authentication certificates to be issued by Comodo Certificate Manager (CCM). Note - The CCM Certificates section will appear only if you have integrated your ITSM server with your CCM account. For more details, refer to the section Integrating with Comodo Certificate Manager.
- **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.

To create Mac OS Profile

- Click the 'Configuration Templates' tab on the left and choose 'Profiles'.
- Click 'Create' drop-down above the table and then click 'Create Mac OS Profile'

П	& S	ecurity Manager		∎	Profiles				
88	DASH	IBOARD	>						
ļ	DEVI	CES	>		Profiles	Default	Profiles		
8	USER	S	>		Ë1	南			
ē	CON	FIGURATION TEMPLATES	\sim		Create	Import	Export Profile	Clone Pi	
	Pro	files			Create Ar	ndroid Pro	file		
	Aler	ts			Create iO	S Profile			
	Pro	cedures		<	Create m	acOS Prof	file		
습	APPL	ICATION STORE	>		Create W	indows Pr	ofile		
		ICATIONS	>			······			
Ø	SEC	Create macOS Pro	ofile						×
	SET	Name *							
		Name							
		Description							
		Description							54 24
									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.

y wac (OS Profile fo	i Stores De	pr					
Image: Add Profile Section Image: Export Profile Image: Clone Profile Delete Profile Make Default								
eneral General Settings								
General Settings Edit Name * Mac OS Profile for Stores Dept Display name of the profile (shown on the device).								
Is Default								

- 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
- Click 'Save'.

box.

The next step is to add 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



• Antivirus - Enable on-access scanning of files, configure scan and alert options, set alert time out period,

COMODO Creating Trust Online 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 Allows you to add requests for client and device authentication certificates to be issued by Comodo Certificate Manager (CCM). Note - The CCM Certificates section will appear only if you have integrated your ITSM server with your CCM account. For more details, refer to the section Integrating with Comodo Certificate Manager.
- **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 the 'Configuration Templates' tab on the left and choose 'Profiles List'.
- Click 'Create' drop-down above the table and then click 'Create Windows Profile'

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IT & Security Manager Profiles DASHBOARD 몖 > Profiles **Default Profiles** DEVICES 5 8 Ē1 USERS 凷 > Create d Import Export Profile Clone Profile **Delete Profile** ē CONFIGURATION TEMPLATES Profiles Create Android Profile Alerts Create iOS Profile Procedures Create macOS Profile APPLICATION STORE 台 **Create Windows Profile** > APPLICATIONS Create Windows Profile SE × ÷Ö-SE 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.

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dd Profile Section	Export Profile	Clone Profile	Eo Delete Profile	Make Default				
eral								
General Settings								
Name * Finance D	lepartment Windov	vs Computers						
Is Default Disabled								
Description Profile for Windows devices in finance dept.								

• 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 components for the profile.

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

The settings screen for the selected component will be displayed and, after saving, the new section will become available as a link in this interface. You can configure Antivirus, Firewall, Containment, File Rating, Valkyrie, HIPS, VirusScope and Update 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 ITSM profile.

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

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Add Profile Export Profile	Clone Profile Delete Profile Make Defe
Antivirus	
Updates	
File Rating	
Firewall	
HIPS	
Containment	
VirusScope	
Valkyrie	
Global Proxy	
Clients Proxy	
Agent Discovering Settings	
UI Settings	
Logging Settings	
Client Access Control	
External Devices Control	
Monitoring	
Procedures	
Remote Control	
	—

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.
- CCS Update Rule 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.
- Proxy Allows you to specify a proxy server to be used by the device for network connections.
- Agent Discovery Settings Allows you to specify whether or not Comodo Client should send logs to ITSM above antivirus and containment events.
- **UI Settings** Configure the appearance of Comodo Client Communication (CCC) and Comodo Client Security (CCS). You can re-brand CCC 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 Allows you to enable logging events from CCS, the maximum size of the log file and configure behavior once log file reaches the maximum file size.
- Monitoring Settings Allows you to 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** Allows you to add requests for client and device authentication certificates to be issued by Comodo Certificate Manager (CCM). Note The CCM Certificates section will appear only if you have integrated your ITSM server with your CCM account. See Integrating with Comodo Certificate Manager, for more details.
- 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.

Step 7 - Apply profiles to devices or device groups

- Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select a Company and choose a group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Select the device to be managed and click 'Manage Profiles' from the options at the top

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O Search group name	Croup Management	Device Management	
G All Devices	G		Q
🐳 🖶 ABC TV Services	Enroll Device Remote Control Re	un Procedure Manage Profiles Install or Update Packages	Refresh De
🕘 🖶 Chennal IT Services		\sim	
🔸 🖨 Coyote	OS NAME	ACTIVE COMPONENTS PATCH STATUS	COMPAN
🕂 Ӫ Deer Company	DESKTO	AG AV FN CO 🥥	Default C
🕂 👜 Default Company	DESKTO_	AG AY FW CO 😕 5	Dithers C
+ 🖶 Dithers Construction C			Dithers (
+ 🖶 Horizon	LENOVO	AC AV	Dithers C
+ 🖶 Kanchi Customer	🔲 👘 💿 samsung	AG AV	Dithers C
+ 🖨 kanchiidly	🔲 📒 💿 DESKTO		Dithers C
Add Profiles			5.19a ⁺
Remove Profiles			Y
	FILE NAME	OWNER	
🔳 📲 Defa	ult Profile for Windows Devices	coyoteewile@yahoo.com	
E File F	Rating Scan	coyoteewile@yahoo.com	
E For N	Nonitoring System	coyoteewile@yahoo.com	
Results per page: 20	~	Displaying 1-3 of 3 res	ults.

The list of profiles currently active on the device will be displayed.

• To add a profile to the device, click 'Add Profiles' from the top left.

A list of all profiles applicable to the chosen device, excluding those that are already applied to the device will be displayed.

Mar	nage Prof	iles of DESKTOP-TTPO9PR	
Add Pr			
面	Remove Profil	es	Ţ
	OS TYPE	PROFILE NAME	OWNER
		PC with 1TB hard drive	coyoteewile@yahoo.com
	1	Purchase Dept Computers	coyoteewile@yahoo.com
Rest	ts per page:	20 ~	Displaying 1-2 of 2 results.
-	/		
Add	l Profiles	to DESKTOP-TTPO9PR	
💾 Sa	ave		Ţ
	OS TYPE	PROFILE NAME	OWNER
		For Bobs PC	coyoteewile@yahoo.com
		For Coyote Cert	coyoteewile@yahoo.com
		Windows Profile for local desktops	coyoteewile@yahoo.com
		Stores Test Components disabled	coyoteewile@yahoo.com
		Sales Team PCs	coyoteewile@yahoo.com
		Finance Dept Cumputers	coyoteewile@yahoo.com

- Select the profile(s) to be applied to the device
- Click 'Save' at the top left to add the selected profile(s) 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

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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 ITSM using any internet browser.

- C1 customers:
 - Login at https://one.comodo.com/app/login
 - Click 'Applications' > 'IT and Security Manager'.
- ITSM standalone customers:
 - Login at: https://<*your company name*>.cmdm.comodo.com/user/site/login where <*your* company name> is your ITSM company name.
 - You will have received a confirmation email with this URL.
- Username and password are case sensitive. Please make sure that you use the correct case and caps lock is OFF.
- Click the 'I forgot my password' if you can't remember your password. A mail will be sent to your registered email with a link which will allow you to reset your password.

ONE MSP	applications 🗸 🏠 management 🗸 🗎 Repor	RTS
	IT and Security Manager	NE
	Patch Management	
Customer: All	RMM	
Cognitive Status	Device Management	
Security Status	Procedures	
	Endpoint Protection	0
Inactive Antivirus	Service Desk	tive Sar
	Dome Shield	
8	Quote Manager	2
Outdated Virus Database	All Applications	Clean

Tip: The shortcuts below 'IT and Security Manager' in the drop-down allow you to open the respective interface in ITSM.

COMODO

The ITSM welcome screen will be displayed.

IT & Security Manager	⊨	Welcome	License Options	• •	0	온 Logout (coyoteewile@yahoo.com)	
DASHBOARD		Get Started with		/ Mana	ger ((ITSM)	
DEVICES	> S	Start to manage devices with a few simple steps.					
Q USERS	>	Add Users			Enroll Devices		
	>	Add Obers					
	>	Open <u>User List</u>				<u>User List</u>	
APPLICATIONS	>	 Click «Create User Or add users via <u>A</u> 				ct users «Enroll Device»	
SECURITY SUB-SYSTEMS	>	Create User Group	s if required		• User	(s) will receive enrollment emails	
	>						
-∰ SETTINGS	>						
		Configure De	click «Create»		 Open Select Click 	Device List ct target device x «Manage Profiles», then «Add Profile» ose profile and click «Save»	

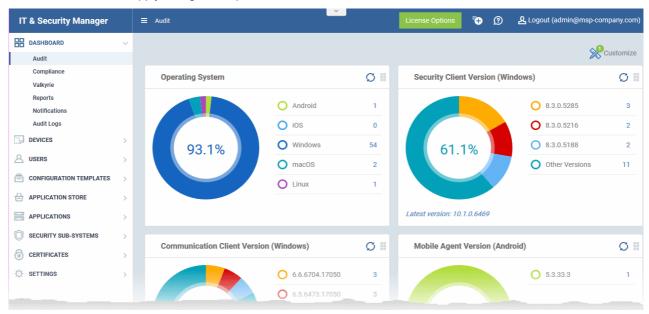
The screen contains shortcuts to enroll users and start managing devices in a few steps:

- Add Users Allows you to add new users by clicking the Contains icon and choosing 'Create User' from the 'User List' interface. See 'Creating 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 'Importing User Groups from LDAP' for more details.
- Enroll Devices Allows you to 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 Enrolling User Devices for Management for more details.
- Configure Device Profile Allows you to create and manage configuration profiles for Android, iOS and Windows devices by clicking the configuration Profiles for more details.
- Associate Profile With Devices Allows you to deploy and manage configuration profiles on devices by clicking the cl

Note - ITSM communicates with Comodo servers and agents on devices in order to update data, deploy profiles, submit files for analysis 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**.

2. The Admin Console

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



Once logged-in, administrators can navigate to different areas of the console by clicking the tabs on the left hand side.

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 - Create and manage configuration profiles to be applied to enrolled iOS and Android Smartphones and Tablets, Windows and Mac OS endpoints. See **Configuration Templates** for more details.

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

Applications - View and manage applications installed on enrolled Android and iOS devices. View files installed on Windows devices, contained programs, view and manage software vendors list and manage patch installation. See **Applications** for more details.

Security Sub-Systems - Run AV scans and virus signature database updates on the enrolled devices, manage identified malware, view threats, manage quarantined items, view and manged contained applications and more. See **Security Sub-Systems** for more details.

Certificates - View and manage client and device certificates issued to end-users and enrolled devices by Comodo Certificate Manager (CCM). The Certificates tab will be available only if you have integrated your CCM account to ITSM. See **Manage Certificates Installed on Devices** for more details.

Settings - Create admin and user roles with different privileges, configure the behavior of various ITSM components and agents, renew/upgrade licenses and more. See **Configuring Comodo IT and Security Manager** for more details.

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

*⊕	Clicking this button will display the 'Create User' and 'Enroll Device' drop-down. See 'Creating New User Accounts' and 'Enrolling Users' Devices for Management' for more details.							
0	Contains links to the online user guide, to the Comodo One MSP and Enterprise forums and allows you to email our support department.							
	Clicking the menu button will expand/collapse the menu tabs at the left tabs. When the menu tabs are in collapsed state, placing the mouse cursor over a menu will display the sub menus under it.							
	IT & Security Manager ≡ Auc							
	DASHBOARD ~							
	Audit							
	Compliance							
	Valkyrie							
	Reports							
	Notifications 0							
	Audit Logs							
	DEVICES >							
IT & Security Manager	Clicking the logo will open the 'Welcome' screen. See 'Logging into your Administrative Console' for more details.							
온 Logout (coyoteewile@yahoo.com)	Displays the username of the person currently logged in. Click this to log out of ITSM interface.							
License Options	Allows you to upgrade to the Premium or Platinum version of ITSM.							

3. The Dashboard

The dashboard displays real-time statistics about the operating system, connection status and security posture of all devices enrolled to ITSM. It contains pie charts displaying device types, platforms, ownership, antivirus scan status and compliance status. The dashboard also enables you to view Valkyrie results, a list of notifications and to generate reports.

• To open the dashboard, click the 'Dashboard' link in the left menu.

The dashboard is divided into five 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.

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- Compliance Statistics which detail how compliant your devices are with ITSM 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 ITSM. You can also create new reports from here. See **Reports** section for more information.
- Notifications A list of notifications sent to the administrator by ITSM. 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.

Audit

•

Click 'Dashboard' on the left then 'Audit'

IT & Security Manager		≡ Audit	License Opti	ions 🗿 요 Logout (coyoteewile@yahoo.com)
DASHBOARD	~			^9
Audit				Customize
Compliance		Security Client Version (Windows)	0	Communication Client Version (Windows) 🔿 🗮
Valkyrie		,	U 11	
Reports		0 8.2.0.4993		6.9.7380.17080 3
Notifications		0.2.0.4773	· ·	0.5.7360.17660 3
DEVICES	>	50%	1	100%
Q USERS	>			
CONFIGURATION TEMPLATES	>			
APPLICATION STORE	>	Latest version: 10.0.0.6281		Latest version: 6.9.7380.17080
APPLICATIONS	>			
O SECURITY SUB-SYSTEMS	>	Security Client Version (macOS)	0 1	Mobile Agent Version (Android) 🛛 💭 🗏
CERTIFICATES	>	0 24.0.177	1	0 53333 4

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

Selecting Data Set for Audit

Back

	DATA SET	DESCRIPTION	ENABLE / DISABLE
	Operating System	Shows device counts based on operating systems	ON
8	Security Client Version (Windows)	Show device counts based on the Security client version (Windows)	ON
	Communication Client Version (Windows)	Show device counts based on the Communication client version (Windows)	ON
8	Security Client Version (macOS)	Show device counts based on the Security client version (macOS)	ON
	Mobile Agent Version (Android)	Show device counts based on the Mobile agent version (Android)	ON
8	Device Types	Shows device counts based on form factor of the devices like smartfone, PC, etc.	ON
	Ownership Types	Shows device counts based on the owner information of the device	ON

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

Clicking on an item in the legend will open 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.



 Security Client Version (Windows)
 Image: Client Version (Windows)

 Image: Client Version (Windows)
 Image: Client Version (Windows)
 </tr

Communication Client Version (Windows)

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

The number of devices with each version is also shown. Click the number to view all devices which have that version installed. To update to the latest version, click the number, select the target devices then click 'Install or Update Packages'.

The latest available version of the client is shown underneath the chart.

See Remotely Installing and Updating Packages on Windows Devices for more details.



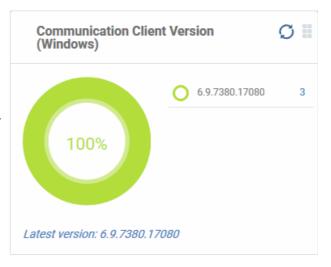
Security Client Version (Windows)

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 with each version is also shown. Click the number to view all devices which have that version installed. To update to the latest version, click the number, select the target devices then click 'Install or Update Packages'.

The latest available version of the client is shown underneath the chart.

See **Remotely Installing and Updating 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 antivirus for MAC software on an endpoint.

The number of devices with each version is also shown. Click the number to view all devices which have that version installed. To update to the latest version, click the number, select the target devices then click 'Install or Update Packages'.

The latest available version of the client is shown underneath the chart.

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

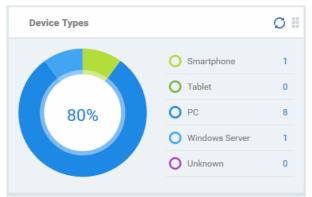
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Mobile Agent Version (Android)

The versions of the mobile agent installed on Android device in your network.

The number of devices with each version is also shown. Click the number to view all devices which have that version installed. To update to the latest version, click the number, select the target devices then click 'Install or Update Packages'.

The latest available version of the client is shown underneath the chart.



Mobile Agent Version (Android) 5.3.33.3 3 100% Latest version: 5.3.33.3

Device Types

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

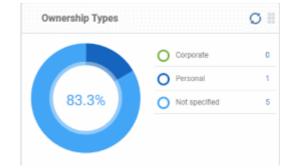
Clicking on an item in the legend will open the respective 'Device List' page. For example, clicking on 'Tablet' in the legend will open the 'Device List' page displaying the list of tablet devices. See 'Devices' for more details.

Ownership Types

Shows devices by ownership type. This can be 'Corporate', 'Personal' or 'Not Specified'. Place your mouse cursor over a sector or the legend to see further details.

Clicking on an item in the legend will open the respective 'Device List' page. For example, clicking on 'Personal' in the legend will open the 'Device List' page displaying the list of devices that are categorized as personal. See 'Devices' for more details.

Note: The device ownership type can be changed by administrators from the device details screen > Change ownership and then selecting the ownership type from the options.



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'.

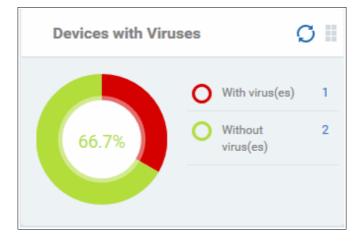
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IT & Security Manager		License Options	⑦ と Logout (cover)	oteewile@yahoo.com)
B DASHBOARD ~				💢 Customize
Audit Compliance	Active and Inactive 24 Hours	e Devices Last 🛛 🚆	Devices with Viruses	0 =
Valkyrie Reports Notifications DEVICES > Qusers >	83.3%	Active devices 5 Inactive 1 devices		With virus(es) 0 Without 2 virus(es)
CONFIGURATION TEMPLATES APPLICATION STORE APPLICATIONS	Devices with Black Applications	disted 📿 🛙	Devices Responses fo	r Virus Scan 💭 🔡
○ SECURITY SUB-SYSTEMS > Image: Security sub-systems >	66.7%	With 1 blacklisted applications Without 2 blacklisted applications	60% C	response received No response 3 received
	Rooted and Jailbro	oken Devices 💭 🔢	Devices with Device M Apps	lanagement 🧭 🞚
	100%	Normal 6		With device management app 6 Without device management app 0
	Device Online	0 #	Scan Status	0 =
	50%	O Online 3 O Offline 3		Not scanned yet 3 Canceled 0 Complete 1 Scanning 1 Viruses found 0
	Antivirus DB Upda	te 🖸 🖩	Security Product Conf	iguration 🛛 🗍
	60%	Unknown 3 Updated 2 Updating 0 Command 0 sent 0	83.3%	Safe 5 Not protected 1
		O Failed 0		

- 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

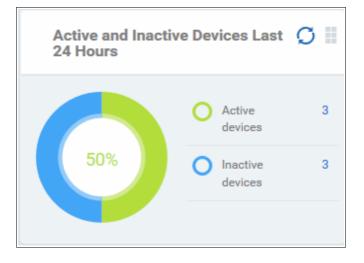
Shows how many enrolled devices are affected by viruses and how many are clean. Placing the mouse cursor over a sector or the legend displays further details. See **Antivirus Scans** for details about scanning for viruses on enrolled devices.



Clicking on any item in the legend will open 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 ITSM for more than 24 hours are marked as 'inactive'. Placing the mouse cursor over a sector or the legend displays the further details.

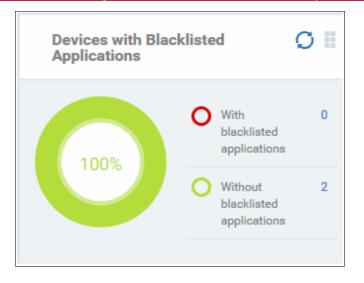


Clicking on any item in the legend will open the respective 'Device List' page. For example, clicking on 'Active Devices' will open the 'Device List' page displaying the list of active devices. Similarly clicking on the 'Inactive Device' legend will open the 'Device List' page displaying the list of 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.

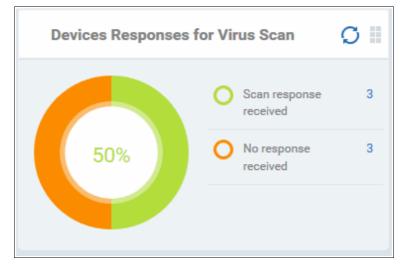
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Clicking on any item in the legend will open the respective 'Device List' page. For example, clicking on 'With Blacklisted Applications' legend will open the 'Device List' page displaying the list of devices that have blacklisted applications on them. 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.

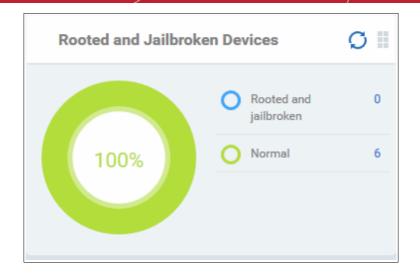


Clicking on any item in the legend will open the respective 'Device List' page. For example, clicking on 'With response on virus scan' legend will open the 'Antivirus Device List' page displaying the list of devices that are responding to scan command.

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.



Clicking on any item in the legend will open 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 'Devices' for more details.

Devices With Device Management Apps

Shows how many devices have the ITSM app. Android and Windows devices can only be enrolled with the ITSM app. iOS devices communicate with ITSM via the ITSM 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.

 Devices with Device Management Apps
 Image: Comparison of the comparison of

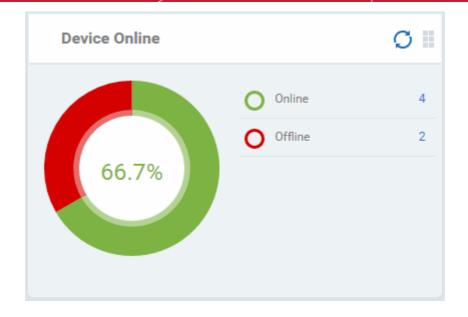
Placing the mouse cursor over a sector or the legend displays the further details.

Clicking on any item in the legend will open the respective 'Device List' page. For example, clicking on 'With ITSM App' will open the 'Device List' page displaying the list of devices that have the ITSM app. See '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 ITSM for other reasons, or if Comodo Client Security is not running. Placing the mouse cursor over a sector or the legend displays the further details.

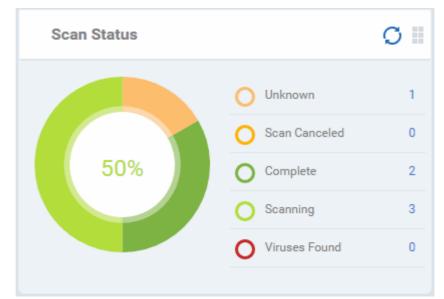
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Clicking on any item in the legend will open the respective 'Device List' page. For example, clicking on 'Online' will open the 'Device List' page displaying the list of devices that are online. See 'Devices' for more details.

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.

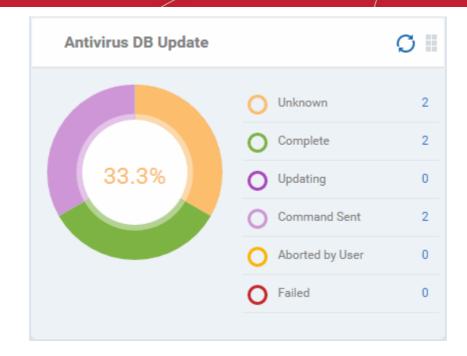


Clicking on any of the legend will open the 'Antivirus Device List' page with devices in that category. For example, clicking on 'Virus Found' in the legend will open the 'Antivirus Device List' page displaying the list of devices in which the malware were detected. See 'Antivirus Scans' for more details.

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.

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Click any legend item to view all devices in that category. 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.



Clicking on any item in the legend will open 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 Comodo Client Security which automatically uploads unknown files to Valkyrie. 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 ITSM is limited to the online testing service. The Premium 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.

IT & Security Manager		≡	Valkyrie License Options	• 12	온 Logout	(coyoteewile@yaho	o.com)
DASHBOARD Audit	~					💥 Custo	omize
Compliance Valkyrie			Unparalleled Protection by Comodo (Last 🔿 🗐 Unpar Week) Time)	raileied Pr	otection b	y Comodo (All	Ø I
Reports Notifications			Rated as malicious 0		R	ated as malicious	10
DEVICES	>		Undetected (0-day) 0 by Antivirus		C	Undetected (0-day) by Antivirus	0
	>		Industry O Undetected (0-day) 0			Undetected (0-day)	0
	>		by your previous vendor			by your previous vendor	Ŭ
APPLICATIONS	>						
SECURITY SUB-SYSTEMS	>		File Statistics (Windows Devices) 🛛 🗍 Valky	yrie File Ve	rdicts (Las	st Week)	0 🛙
 CERTIFICATES SETTINGS 	>		O Unrecognized 162		c	Number of whitelisted	2
-			71.4%	66.7%	c	Malware	0
			O Quarantine 3 O Globally trusted 3		•	Number of remaining unknown	1
			Globally blocked 6			Unknown files uploaded	3
			Valkyrie File Verdicts (All Time) 💋 🦉				
			O Total whitelisted 116				
			91.3% O Total malware 9 O Number of 2 remaining unknown				
			Total unknown files 128 uploaded				

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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.



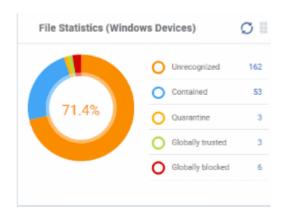


Unparalleled Protection By Comodo (All Time)

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.

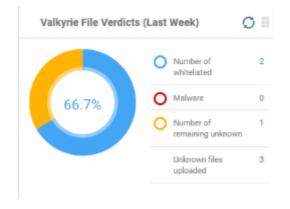


File Statistics (Windows Devices)

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 (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.

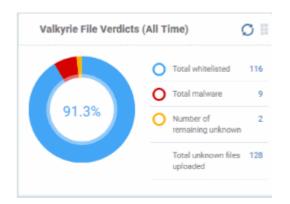
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Valkyrie File Verdicts (All Time)

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.



Reports

ITSM 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.

IT & Security Manager		≡ Repo	orts	<u> </u>		🔁 👔 🛃 Logout (admin@ditherscons.com)
H DASHBOARD	~						
Audit		Ē	6 1	<u>i</u>			Q
Compliance		Generate	r e Report Delete Dow	vnload			•
Valkyrie							
Reports	0		NAME	ТҮРЕ	STATUS	CREATED BY	CREATED AT
Notifications			0	Oreners Orenerstady/	Developeded		0010/00/00 11-00-01
Audit Logs			Containment 2018-03	Comma-Separated V	Downloaded	admin@ditherscons.c	2018/03/22 11:09:31
DEVICES	>		Hardware Inventory R	Microsoft Excel Open	Not downloaded	admin@ditherscons.c	2018/03/22 11:00:35
A USERS	>		Android Antivirus Rep	Microsoft Excel Open	Not downloaded	admin@ditherscons.c	2018/03/22 11:00:25
	>		Device Control 2018	Comma-Separated V	Not downloaded	admin@ditherscons.c	2018/03/22 10:59:14
	>		Containment 2018-03	Comma-Separated V	Not downloaded	admin@ditherscons.c	2018/03/21 11:10:53
APPLICATIONS	>		Containment 2018-03	Comma-Separated V	Not downloaded	admin@ditherscons.c	2018/03/21 10:19:30
SECURITY SUB-SYSTEMS			Device Control 2018	Comma-Separated V	Not downloaded	admin@ditherscons.c	2018/03/21 10:00:29

	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 name or email address of the admin/staff who generated the report.			
Created At	The date and time the report was generate			

- COMODO Creating Trust Online*
- 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:
- '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.
 - 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.
 - Threat History Click 'Security Sub-Systems' > 'Antivirus' > 'Threat History' tab > 'Export'. Click here for more details.
- 'Devices' main menu
 - Device List Click 'Devices' > 'Device List' > 'Export'. Click here for more details.
- 'Applications' main menu
 - Patch Management Click 'Applications' > 'Patch Management' > 'Operating System' tab > 'Export'. Click here for more details.

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

Generate a report from the 'Reports' interface

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

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IT & Security Manager		■ Reports
B DASHBOARD	~	\sim
Audit		
Compliance		Generate Report Delete Download
Valkyrie		
Reports		Android Antivirus Report
Notifications		Windows Antivirus Report
DEVICES	>	Windows Malware List Report
	-	Windows Top Malware Report
	>	Windows Quarantine Report
	>	Hardware Inventory Report
APPLICATION STORE	>	Windows Malware Lis Microsoft Excel 0
APPIICATIONS		Windows Antivirus Re Microsoft Excel 0

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

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

IT & Security Manager		Reports		License Options 🔴	②	coyoteewile@yahoo.com)
Audit Compliance Valkyrie	~	•	mioad			т
Reports			FORMAT		AUTHOR	GENERATED
Notifications		Windows Top Malwar	Microsoft Excel Open	Not downloaded	coyoteewile@yahoo.c	2016/11/17 05:39:23 PM
DEVICES	>	Windows Antivirus Re	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.c	2016/10/21 12:24:21 PM
Q USERS	>	Android Antivirus Rep.,	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.c	2016/10/21 12:08:10 PM
CONFIGURATION TEMPLATES	>	Windows Quarantine	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.c.,	2016/08/31 03:45:17 PM
APPLICATION STORE	5	Windows Malware Lis	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.c	2016/08/31 03:45:14 PM
APPLICATIONS	,	Windows Antivirus Re	Microsoft Excel Open	Not downloaded	coyoteewile@yahoo.c.,	2016/08/31 03:45:10 PM
SECURITY SUB-SYSTEMS	\$	Android Antivirus Rep	Microsoft Excel Open	Not downloaded	coyoteewile@yahoo.c	2016/08/31 03:44:48 PM
CERTIFICATES	>	Results per page: 20 V				Displaying 1-7 of 7 results.
¢⊱ SETTINGS	>					

- To download the report, select it and click 'Download' at the top. The report will be exported to .xls or .csv format.
- Click a report name to view report details.

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		FORMAT	STATUS	AUTHOR	GENERATED
Windows To	p Malware	Windows Top Malware	Report bloaded	coyoteewile@yahoo.co	2016/11/17 05:39:23 PM
Windows Ar	tivirus Rep	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.co	2016/10/21 12:24:21 PM
Android Ant	virus Report	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.co	2016/10/21 12:08:10 PM
Windows Qu	iarantne R	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.co	2016/08/31 03:45:17 PM
Windows M	alware List	Microsoft Excel Open	Downloaded	coyoteewile@yahoo.co	2016/08/31 03:45:14 PM
Windows Ar	itivirus Rep I	Microsoft Excel Open	Not downloaded	coyoteewile@yahoo.co	2016/08/31 03:45:10 PM
1.00	ws Top Malw port Details	are Report			_

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 notification icon will take you to the respective C1 interface.

is incremented. Clicking the

Tip: ITSM 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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IT & Security Manager		= Not	fications	Lionse Options 🔊 🛈 🚊 Loge	out (coyoteewlie@yahoo.com
C DASHEGAED	×				
Audit		Not	ification	18	
Compliance					0
Vialigetie Reports			dens.		
Notifications		Note	ation(s)		T
DEVICES	5	3	TYPE	M258402	RECEIVED
R. USERS			0	Nonitaring Tecommended Performance Monitoring' has been executed on device DESKTOP HEPETN3	2017/04/24 01:30:22 PM
			0	DESITIOFHICING package +COMODO Client - Beauty x 830 5255- year successfully installed	2017/04/24 10:40:14 AM
CONFIGURATION TEMPLATES	1	α.	0	DESKTOP-HIPD1ND: package +Comodo Remote Montoring and Management Agent- was successfully installed	2017/04/24 10:52:02 AM
APPLICATION STORE	>		0	Nonitoring "Recommended Performance Montoring" has been executed on device CCSI/TOP-TTPORPR	2017/04/04 05:29:35 PM
APPLICATIONS		0	0	Monitoring "Recommended Performance Monitoring" has been exercised on device DERXTOP-HPRING	2017/03/30-03:13:46 PM
SECURITY SUB-SYSTEMS	->		0	Malware on the Windows device!	2017/04/17 04:02:46 PM
			0	The list of quarentine items on the device was updated	2017/04/25 12:37:57 PM
S SETTINGS			0	Finished policy expensing from device DESKTOP HIPPETN2	2017/03/28-04:16:06 PM
(/ ac11984			0	DESICTOP-INPOINT: package -COMODO Cliver - Security = 0.2.0.526h-was auczesability installed	2017/03/28-02:39:05 PM
			0	DESITER-IPOING RAM Agent accounting enabled	2017/04/25/02:47:05 PM
			0	DESKTEP-HIPO1KD: package +Connodo Remote Montoring and Management Agent-was aucoastilly Istralled	2017/03/28 11:21:01 AM
			0	CENTER-REPORT package -Interching framework over Stampsone condition of the State of Chinese Advances Market State of Chinese Advances A	2017/03/08 10:42:06 AM
					part (rai) (2.5 at to 1.6 Am

	List of All 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			
Warning			
Error			
Blocker			
Support			
Message			
Message			
Received			
Start		End	
	 Success Warning Error Blocker Support Message Message Received 	Success Warning Error Blocker Support Message Message Received	Success Warning Frror Blocker Support Message Message Received

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

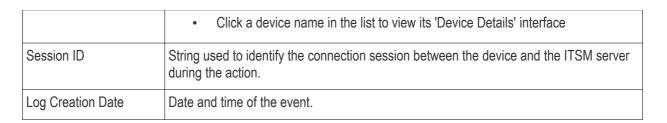
Audit Logs

- ITSM keeps a log of actions implemented on managed devices by administrators and staff members. These logs can be useful when troubleshooting issues.
- Logged actions include device enrollment, applying a security profile, package installations, remote takeover sessions, restarting a device, removing a device, remote disconnections and changes to containment settings.
- The 'Audit Logs' interface shows all log entries 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' on the left-menu to open the log interface:

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☰ Audit Logs			~		License Options	₹⊕ (?	ා <u>ප</u> Logou	t (demo_q3@yopmail.com)
								O Y
STAFF	EVENT NAME	AFFECTED OBJECT	OLD VALUE	NEW VALUE	EXTRA INFO	SESSION ID		LOG CREATION DATE
demo_q3@	Device chan ge owner	DESKTOP-B0U55J0	demo_q3@yopmail.com	mmoxford@yahoo.com		m6t6cbkuc72	rpsf0f3bii1ea7t	2017/12/06 09:23:14 AM
demo_q3@	Device profi le assigned	DESKTOP-B0U55J0			sandbox test profile	m6t6cbkuc72	rpsf0f3bii1ea7t	2017/12/06 09:22:00 AM
demo_q3@	Device rem ove	DESKTOP-B0U55J0				m6t6cbkuc72	rpsf0f3bii1ea7t	2017/12/06 08:34:02 AM
demo_q3@	Device insta Il additional comodo pa ckage	DESKTOP-BOU55J0			Version of Comodo C lient - Security: 10.1. 0.6469 Reboot Message: You r device will reboot in 5 minutes because it' s required by your ad ministrator Reboot type: Force th e reboot Timeout: 300 second (s)	ovi377jh7945	tu72kc6pil1gu4	2017/12/06 07:44:39 AM
demo_q3@	Device delet e msi install	DESKTOP-B0U55J0			Client - Security v. 10. 1.0.6469	ovi377jh7945	Ju72kc6pil1gu4	2017/12/06 07:44:22 AM

	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 or procedure 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 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.

) (
Log creation date	e	K	
Start		End	
Staff			
Staff			
Component nam	e		
ITSM			
CRC			
Source			
Device			
Common			
RBAC			
Procedure			
Profile			
Device group	0		
Antivirus			
Event Name			
All			
Affected object			
Affected object	ct		
Old value			
Old value			
New value			
New value			
Extra info			
Extra info			
Session ID			

- · You can filter items by various criteria or search for specific events.
- Click 'Apply' to run your filter.

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			C 1
RA INFO	SESSIO	Log creation date	
		Start End	
ot Message: You ice will reboot in		Staff	
1 filter Apply	,	john	
		Event Name	
		All	~
		_Source	

4. Users and User Groups

One of the first steps in setting up Comodo IT and Security Manager is to add users. Once users have been added, you can enroll iOS, Android, Windows or Mac OS devices associated with each user. After enrolling a device, you will be able remotely manage and apply security policies to it. You may also create user groups in order to apply policies to multiple devices. You can also assign users to an ITSM administrator role.

Users can access the ITSM interface according to the privileges assigned to them. Privilege levels are assigned by applying a 'role' to a user.

Users can be added to ITSM in two ways:

- From the the C1 interface
- From the ITSM interface

A staff member or user added via C1 interface can access C1 and other licensed modules, including ITSM. A user added via ITSM can only access ITSM. Please refer to the page at https://help.comodo.com/topic-289-1-716-8482-Managing-Administrators-and-Roles.html for details on how to add users via C1. The following sections describe how to add users via the ITSM interface.

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

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IT & Security Manager		≡ User List	
DASHBOARD	>		
DEVICES	>	목 😰	⊠ £ ,
A USERS	\sim	Enroll Device Create User Manage Profiles	Send Password Delete Use Recovery Email
User List			EMAIL
User Groups		Dyanora	dyanorat481@gmail
Role Management		Samsung	avantistude@gmail
	>	Tab user	impalachevvy@gma
	>	gerald@yopmail.com	gerald@yopmail.com
APPLICATIONS	>	📋 🛛 e Horizon	josephsaviour0@gr
SECURITY SUB-SYSTEMS	>		
	>	maxlenin2016@outlook.com	maxlenin2016@ou
SETTINGS		avantistude@gmail.com	avantistude@gma

The following sections explain more about each area:

- Managing Users
 - Creating New User Accounts
 - Enrolling Users' Devices for Management
 - Viewing the Details of a User
 - Assigning Configuration Profile(s) to a Users' Devices
 - Removing a User
- Managing User Groups
 - Creating a New User Group
 - Editing a User Group
 - Assigning Configuration Profile to a User Group
 - Removing a User Group
- Configuring Role Based Access Control for Users
 - Creating a New Role
 - Managing Permissions and Assigned Users of a Role
 - Removing a Role
 - Managing Roles Assigned to a User

4.1. Manage Users

Administrators can enroll user accounts to ITSM 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 ITSM.

C1 customers. Staff added via the C1 interface will also be added as users in ITSM with their assigned roles. For details about adding users via C1 and assigning roles, refer to https://help.comodo.com/topic-289-1-716-8482-Managing-Administrators-and-Roles.html

The 'Users List' interface displays a list of user accounts that are enrolled to ITSM and allows the administrator to add/manage users, enroll new devices belonging to users, manage configuration profiles applied to devices and so on.

To open the 'User List' interface, click the 'Users' tab on the left and select 'User List'

IT & Security Manager		=	User L	ist	License O	ptions 🗗	⑦	oyoteewile@yahoo.co
DASHBOARD	>							
DEVICES	>			<u>8</u> +	ø	\mathbb{K}	2.	
USERS	~	Enr	roll Devi	ce Create User	Manage Profiles	Send Password Recovery Email	Delete User	
User List		C		AME	EMAIL	PHONE NUMBE	R NUMBER OF DEVIC	ES LAST LOGIN
User Groups		C		Dyanora	dyanorat481		1	Not logged in
Role Management		ſ		Samsung	avantistude	123456789	0	Not logged in
CONFIGURATION TEMPLATES	>	0		Tab user	impalachevy	123456789	0	Not logged in
	>			gerald@y	gerald@yop		0	2017/03/09 0
APPLICATIONS				Horizon	josephsaviou	0123456789	0	Not logged in

User List Table - Column Descriptions				
Column Heading	Description			
Name	The login username of the user. Clicking the username will open the user details screen where you can edit user details. See 'Viewing the Details of a User' for more details.			
Email	The registered email address of the user. Account and device enrollment mails will be sent to this email address. Clicking the email address allows you to send an email to the user through your default email client.			
Phone Number	The registered phone number of the user.			
Number of Devices	The total number of devices enrolled for the user.			
Last Login	The precise date and time of the user's last login.			

Sorting, Search and Filter Options

- Clicking on the column header sorts the items based on alphabetical or ascending/descending order of entries in the respective column.
- Clicking the funnel button T at the right end opens the filter options.

СОМОДО

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

To filter the items or search for a specific user based on username, email address and/or phone number, enter the search criteria in part or full and click 'Apply'

	Ţ
LAST LOGIN	
N-Marged in-	Name
0 filters Apply	john
	Email
	Phone Number

• To filter the users that have logged-in within a specific time period or whose token expire within a specific time period, enter the start and end dates of the period in the 'From' and 'To' fields using the calendars that appear on clicking inside the respective field and click 'Apply'.

You can use any combination of filters at-a-time to search for specific users.

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- By default ITSM 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.

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Refer to the following sections for more details about:

- Creating New User Accounts
- Enrolling Users' Devices for Management
- Enrolling Android Devices
- Enrolling iOS Devices
- Enrolling Windows Endpoints
- Enrolling Mac OS Endpoints
- Viewing the Details of a User
- Updating the Details of a User and Resetting Password
- Assigning Configuration Profile(s) to a Users' Devices
- Removing a User

4.1.1. Create New User Accounts

The 'User List' interface allows administrators to create new administrator and end-user accounts. After a user is created they will receive an enrollment mail which requests them to activate their account and set their account password.

C1 customers. Staff added via the C1 interface will also be added as users in ITSM with their assigned roles. For details about adding users via C1 and assigning roles, refer to https://help.comodo.com/topic-289-1-716-8482-Managing-Administrators-and-Roles.html

ITSM also allows administrators to bulk enroll users from and enroll Windows endpoints via Active Directory (AD) group policy. Please refer to the sections 'Enroll Windows Devices by Installing the ITSM Agent Package' and 'Importing User Groups from LDAP' for more details. This section explains how to enroll users from the 'User List' interface.

Important Note: User device(s) can only be enrolled after the user has been added to the system.

Each user license covers up to five mobile devices or one Windows/Mac OS endpoint for a single user (1 license will be consumed by 5 mobile devices. 1 license could also be consumed by a single Windows/Mac OS endpoint). If more than 5 devices or 1 endpoint are added for the same user, then an additional user license will be consumed. Administrators can purchase additional licenses from the Comodo website if required.

Refer to the section Viewing and Managing Licenses for more details.

To add a new user

- Click 'Users' > 'User List' from the left then click the 'Create User' button
 - or
- Click the 'Add' button 🖸 at the menu bar and choose 'Create User'.

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IT & Security Manager	≡ User List	License Options
DASHBOARD >		👗 Create User
DEVICES >		Enroll Device
USERS	Enroll Device Create User Manage Profiles Send Password Recovery Email	
User List		
User Groups	Dyanora dyanor	
Role Management	Samsung avanti	
CONFIGURATION TEMPLATES >	🗋 🕘 Tab user impaile	

The 'Create New User' form will open:

Create New User	Close
User Name*	
oxford	
Email*	
mmoxford@yahoo.com	
Phone Number	
+919876543210	
Company*	
Default Company	~
Assign Role	
Users	\checkmark
	Submit

'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 registered email address of the user. 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	Enter the phone number of the user.		
Company	Drop-down	 Choose the company to which the user belongs. Comodo One MSP customers can add users from Companies/Organizations enrolled in their Comodo One account. Comodo One Enterprise and ITSM 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 Admin_for_purchase_dept Administrators Technician Test_Role Users ITSM ships with four default roles: Account Admin - Can login to the ITSM administrative interface and access all management interfaces. This will not be listed here since it will be automatically assigned only to the person who opens a C1 account. This role is not editable.		
		 Administrators - Can login to the ITSM administrative interface and access all management interfaces. This role can be edited according to your requirements. Technician - Can login to the ITSM administrative interface and access all management interfaces. This role can be edited according to your requirements. Users - Can login to the ITSM interface and view only the dashboard part of the application. This role can be edited according to your requirements. You can create custom roles with access to selected areas of the administrative console and can assign them to users as required. All roles created in ITSM and C1 will appear in the 'Assign Role' drop-down when adding a new user. Refer to the section Configuring 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 from the 'Role Management' interface ('Users' > 'Role Management'). See **Managing Permissions and Assigned Users of a Role** for more details.

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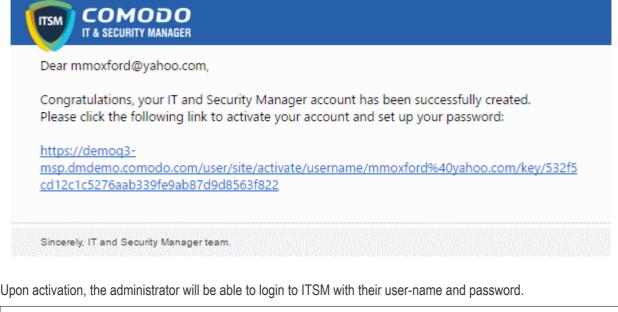
A confirmation will be displayed,

Create New User	Close
You have created mmoxford@yahoo.com user.	
E-mail: mmoxford@yahoo.com	
Phone number: +919876543210	
Company: Default Company	
Role: Users	
Within a few minutes the user will get an e-mail with instructions to proceed if his results supports it.	ole
	Ok

• 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 ITSM.

ITSM 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:



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 **Configuring Role Based Access Control for Users** for more details.

In order to centrally manage mobile/laptop/desktop devices, each device needs to be enrolled to Comodo IT and Security Manager (ITSM). To do this, you first create or select the user(s) whose devices are to be enrolled. They will then receive a device enrollment mail which they should answer from the device itself.

ITSM generates enrollment token for each user and sends them a mail containing enrollment instructions and the token. Multiple devices can be enrolled with the same token by the user simply responding to the mail from each of their devices. The validity of the token is 72 hours and a new token should be generated for adding more devices after this period expires.

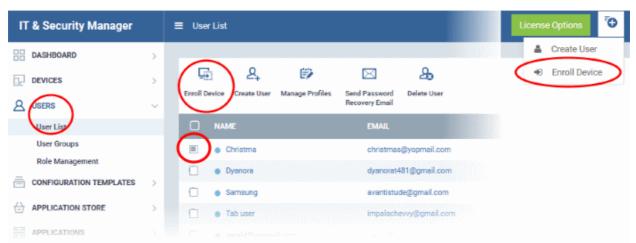
Administrators can bulk enroll users and Windows endpoints by downloading the client software from ITSM and creating a software installation group policy for their Active Directory (AD) server. Please refer to the sections 'Enroll Windows Devices by Installing the ITSM Agent Package' and 'Importing User Groups from LDAP' for more details. This section explains how to enroll users' devices from the 'User List' interface.

Important Note: Each user license covers up to five mobile devices or one Windows/Mac OS/Linux endpoint for a single user (1 license will be consumed by 5 mobile devices. 1 license could also be consumed by a single Windows/Mac OS endpoint). If more than 5 devices or 1 endpoint are added for the same user, then an additional user license will be consumed. Administrators can purchase additional licenses from the Comodo website if required.

Refer to the section Viewing and Managing Licenses for more details.

To enroll devices

- Click 'Users' > 'User List' from the left
- Select users for whom you want to enroll devices and click the 'Enroll Device' button above the table Or



The 'Enroll Devices' dialog will then open for the chosen users:

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Enroll Devices	Close
Please choose the device owner(s) mmoxford@yahoo.com	
Show Enrollment Instructions	Email Enrollment Instructions

Tip: Alternatively, you can open the 'Enroll Devices' dialog by:

- Opening the 'User Info' screen of a user by clicking on the username and selecting 'Enroll Device' at the top
- Opening the 'Device List' interface by clicking 'Devices' > 'Device List' from the left and selecting 'Enroll Device'

The 'Choose Users' field is pre-populated with the users you selected in the 'User List' interface.

• To add more users, type the first the few letters of a user-name then choose users from the search results.

Once the user is enrolled, the enrollment instructions with links to download the ITSM agent for Android, iOS/Mac OS and Windows devices and to activate the agent(s) will be provided to the user.

 If you want the enrollment instructions to be displayed in the ITSM interface, click 'Show Enrollment Instructions'. This is useful for administrators attempting to enroll their own devices. The page also contains instructions for enrolling devices of users imported to ITSM through Active Directory (AD) integration.

Enroll Device

NOTE:

- Please make sure you follow the correct procedure for your type of device - Mac, Windows, iOS or Android.
- Please make sure you complete these steps from the phone or 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 by this link: https://demoq3msp.dmdemo.comodo.com:443/enroll/windows /msi/token /41fae74624e57efc24d17312932fb3bf

For Apple devices

1) Enroll by opening this link on your device: https://demoq3-msp.dmdemo.comodo.com:443 /enroll/apple/index/token /41fae74624e57efc24d17312932fb3bf

If you want the enrollment instructions to be sent as an email to the users, click 'Email Enrollment Instructions'.

A confirmation dialog will be displayed.

Enroll Devices	Close
Instruction e-mail has been sent to selected user(s). The user should on a device that is going to be enrolled.	d navigate to the link
Show Enrollment Instru	ictions Ok

A device enrollment email will be sent to each user. The email will contain a link to a page containing instructions and links to download the ITSM agent/profile for the device. An example mail is shown below.

COMODO Creating Trust Online

COMODO Creating Trust Online*

COMODO

Welcome to IT and Security Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, Mac or Windows device into the IT and Security 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:

ITSM

 Please make sure you follow the correct procedure for your type of device - Mac, Windows, iOS or Android.

- Please make sure you complete these steps from the phone or 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.

Enrollment device:

Please click the following link to enroll your device - <u>https://demoq3-</u> <u>msp.dmdemo.comodo.com:443/enroll/device/by/token/ae7d8e58f5af4a2b277135d132bdb31</u> 0

Sincerely, IT and Security Manager team

Clicking the link will take the user to the enrollment page containing the agent/profile download and configuration links.

COMODO Creating Trust Online*

Welcome to IT and Security Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet or Windows device into the IT and Security 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:

- Please make sure you follow the correct procedure for your type of device - Mac, Windows, iOS or Android.
- Please make sure you complete these steps from the phone or 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 LINUX DEVICES

Download and install Comodo Client application by tapping the following link:

https://demoq3-msp.dmdemo.comodo.com:443/enroll/linux/run/to ken/370522bb23b6fb954dc2b64ce199183a Use the same link for manual enrollment if required.

1) Change installer mode to executable:

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

2) Run installer with root privileges:

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

FOR APPLE DEVICES

 Enroll opening the following link with any browser on your device:

https://demoq3-msp.dmdemo.comodo.com:443/enroll/apple/index /token/370522bb23b6fb954dc2b64ce199183a

2.a) [ONLY for Mac OS X Devices] When you have installed *itsm.mobileconfig* file, use this link to download and install Comodo Client application: https://static.dmdemo.comodo.com/download/itsmagent-installer.p ko

2.b) [ONLY for iOS Devices]

When your profile has been enrolled, you will be requested to install Comodo Client application. Upon completion of the installation, tap the green icon labeled "Run after installation" and follow on-screen instructions to complete enrollment process.

FOR ANDROID DEVICES

Download and install Comodo Client application 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://demoq3-msp.dmdemo.comodo.com:443/enroll/android/ind ex/token/370522bb23b6fb954dc2b64ce199183a

FOR WINDOWS DEVICES

Enroll using this link: https://demoq3-msp.dmdemo.comodo.com:443/enroll/windows/m si/token/370522bb23b6fb954dc2b64ce199183a

X MANUAL ENROLLMENT

Use the following settings:

Host: demoq3-msp.dmdemo.comodo.com Port: 443 Token: 370522bb23b6/b954dc2b64ce199183a

Sincerely, IT and Security Manager team.

Note - ITSM communicates with Comodo servers and agents on devices in order to update data, deploy profiles, submit files for analysis 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.

The following sections explain more on:

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

4.1.2.1. Enroll Android Devices

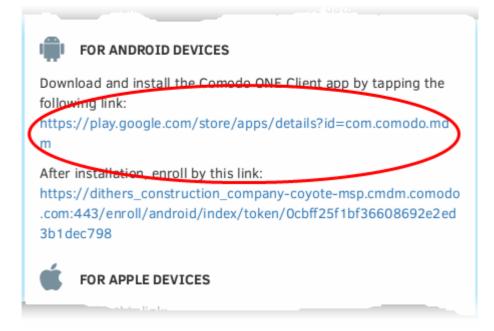
After adding a user's devices, the user will receive an email containing enrollment instructions and links to download the android ITSM agent. Users should open the mail on the device you want to enroll and follow the setup instructions.

Android device enrollment involves two steps:

- Step 1 Download and Install the agent
- Step 2 Configure the agent

Step 1 - Download and Install the agent

- Open the mail on the device itself then tap the Android enrollment link to open the device setup page
- On the setup page, click the install link for Android devices:



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

Step 2 - Configure the agent

The agent can be configured to connect to the ITSM management server in two ways:

- Automatic Configuration
- Manual Configuration

Automatic Configuration

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

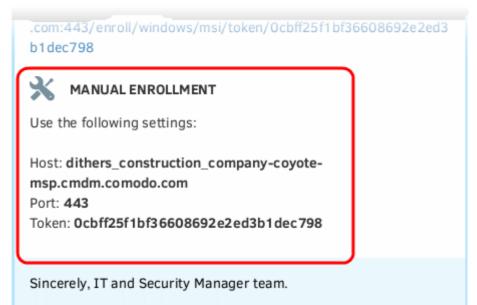
COMODO

FOR ANDROID DEVICES
Download and install the Comodo ONE Client app by tapping the
following link: https://play.google.com/store/apps/details?id=com.comodo.md
m
After installation, enroll by this link:
https://dithers_construction_company-coyote-msp.cmdm.comodo
.com:443/enroll/android/index/token/0cbff25f1bf36608692e2ed
Sb1dec798
FOR APPLE DEVICES

The agent will be automatically configured and the End User License Agreement screen will appear.

Manual Configuration

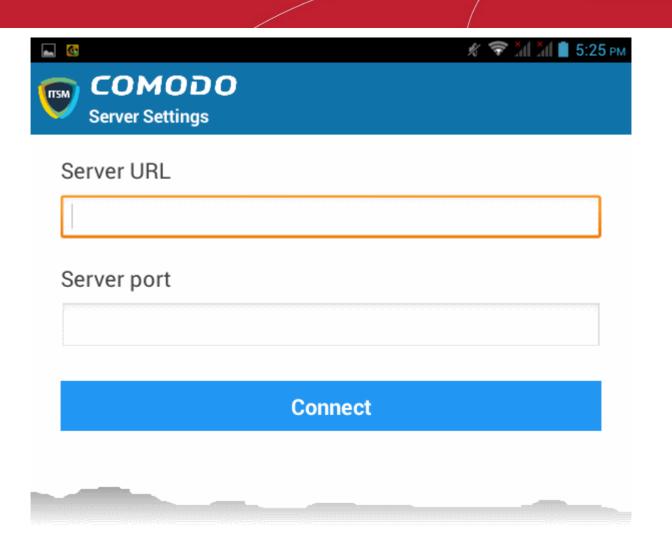
Users can manually configure the agent to connect to ITSM by entering the server settings and the token ID. You can find these items on the setup page:



To manually configure the agent

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

Server Settings



Server Settings - Table of Parameters				
Form Element Type		Description		
Server URL	Text Field	Enter the url of the ITSM 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

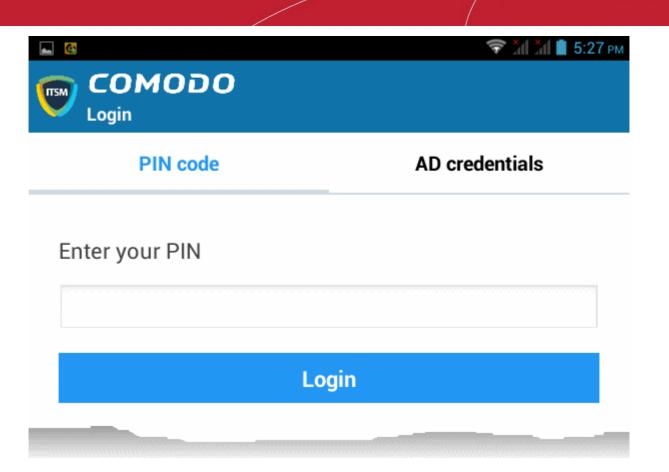
Login to the Console

You can login to the ITSM 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 ITSM Android app
- 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 ITSM
- The users to be imported from AD to ITSM.

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

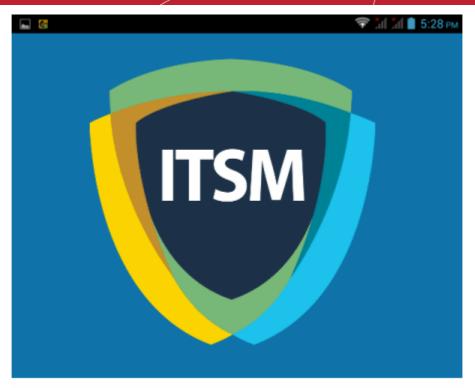
	💎 📶 📶 🛢 5:26 рм
COMODO Login	
PIN code	AD credentials
Login Password	
Lo	gin

- 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 5.3

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 ACCEPT".

Product Functionality

Comodo IT and Security Manager (ITSM) allows administrators to manage, monitor and secure mobile devices which connect to enterprise wireless networks. Once a device has been enrolled, administrators can remotely apply configuration profiles which determine that device's network access rights, security settings and general preferences. ITSM also allows administrators to monitor the location of the device; run antivirus scans on the device; install/uninstall device apps; remotely lock or wipe the device; view/start/stop running services; view reports on device hardware/software information; reset user passwords; make the device sound an alarm and more. Integration with Simple Certificate Enrollment Protocol also allows ITSM end-users to enroll for and install Comodo client certificates for the purposes of two factor authentication and identification. Administrators also have mail access control and can whitelist devices that have access to company mail server. Monitoring of users and devices on the network may also be performed by administrators, including access to the purpose of the devices with the purpose of the devices on the network may also be performed by administrators, including access to company mail server.

I ACCEPT	DENY
ý ú	

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:

COMODO Creating Trust Online*

Activate device administrator?



Comodo Client

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

Erase all data

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

 Change the screen-unlock password Change the screen-unlock password.

Set password rules

Control the length and the characters allowed in screen-unlock passwords.

Monitor screen-unlock attempts

Monitor the number of incorrect passwords typed when unlocking the screen, and lock the tablet or erase all the tablet's data if too many incorrect passwords are typed.

Lock the screen

Control how and when the screen locks.

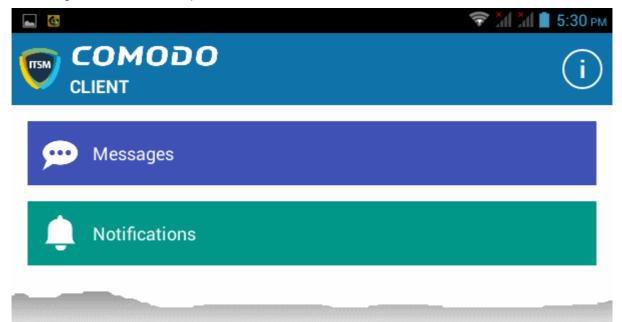
Set lock-screen password expiration

Cancel

Activate

• Tap 'Activate'.

The ITSM agent home screen will open:



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

- If the user is already associated with a configuration profile in ITSM 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 Managing Default Profiles for more details.

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

4.1.2.2. Enroll iOS Devices

After the administrator has added devices for a user, the user will receive an enrollment email with a link to a page containing enrollment instructions and links to download the ITSM profile and the server certificate. Users should open the mail on the device you want to enroll and follow the setup instructions.

Note: The user must keep their iOS device switched on at all times during enrollment. Enrollment may fail if the device auto-locks/ enters standby mode during the certificate installation or enrollment procedures.

To enroll an iOS device

- Open the mail on the device itself then tap the Apple enrollment link to open the device setup page
- On the setup page, click the install link for Apple devices:

FOR APPLE DEVICES
 Eprefi by this link: https://dithers_construction_company-coyote-msp.cmdm.como do.com:443/enroll/apple/index/token/0cbff25f1bf36608692e2 ed3b1dec798
[ONLY For OS X Devices]
After itsm.mobileconfig file installed please download and install a ITSM Agent:
https://dl.cmdm.comodo.com/download/itsmagent-installer.pk
9

The 'Install Profile' wizard will start.

COMODO Creating Trust Online*

••••• vodator	e IN ᅙ 16:12	26% 💽 🗲
Cancel	Install Profile	e Install
	Comodo ITSM COMODO GROU	P LTD.
Signed by	*.cmdm.comodo.cor	m
_	Configuration IT and	0
Description	Configuration in and	Security Manager

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

•••• Vodafon	ie IN ᅙ	16:12		26%	• 4
Installing Profile					
	Como COMOI		SM IOUP LT	D.	
Signed by	*.cmdm. Verified		o.com		
Description	Configu	ration IT	and Secu	urity Man	ager
Contains	Device E	Enrollme	nt Challe	nge	
More Details >					
	T	nstal			
Install					
Cancel					

• Tap 'Install'.

The ITSM Profile installation progress will be displayed.

●●●● Vodafone IN 🗢 16:13 26% ●●○○○ Vodafone IN 🗢 16:13 28% 🔅 Installing Profile Enrolling Certificate Comodo ITSM Comodo ITSM COMODO GROUP LTD. COMODO GROUP LTD. Signed by *.cmdm.comodo.com Signed by *.cmdm.comodo.com Verified 🗸 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.

Cancel Warning I	Install	Cancel	N ବ 16:13 Warning	28% 🗩
MOBILE DEVICE MANAGEMENT			CE MANAGEMENT	in order
Installing this profile will allow the administrator at "https://covote- m Remote Management CC Do you trust this profile's source to enroll your iPhone into remote management?		Installing this administrato msp.cmdm.c	s profile will allo r at "https://coy comodo.com:44 s-core/" to remo	ote- 3/
Tr da Cancel Trust restrictions, inst, instant, and manag apps, and remotely erase data on iPhone.		data, add/re restrictions,	trator may colle move accounts list, install, and r motely erase da	and manage

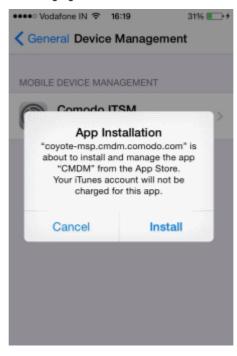
Click Install in the 'Warning' screen

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

	Profile Installed	Done
	Comodo ITSM COMODO GROUP LT	D.
Signed by	*.cmdm.comodo.com Verified 🗸	
		irity Manager

• Tap 'Done' to finish the ITSM profile installation wizard.

After installing the profile, the ITSM client app installation will begin. The app is essential for features such as app management, GPS location and ITSM 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% 🂽 🕫
Ceneral Device	Managem	ent
Sign In to Enter the App	iTunes Sto le ID passwor	
hassword		>
Cancel	0	ĸ
	_	_
QWERT	YU	ΙΟΡ
ASDF	GНJ	ΚL
◆ Z X C	VBN	м 🛛
123 🌐 s	pace	return

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



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

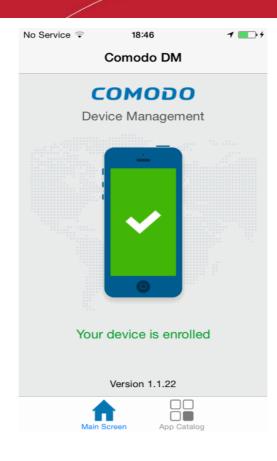
No Service 🗟 18:45 1 💼 + END USER LICENSE AGREEMENT AND TERMS OF SERVICE COMODO DEVICE MANAGEMENT VERSION 4.5 THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE. IMPORTANT - PLEASE READ THESE TERMS CAREFULLY BEFORE USING THE COMODO DEVICE MANAGEMENT SOFTWARE (THE "PRODUCT"). THE PRODUCT MEANS ALL OF 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 ACCEDT

Accept Decline

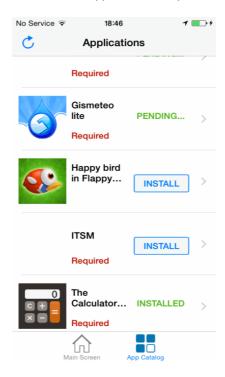
- Read the End User License Agreement fully and tap 'Accept'
- Tap 'OK'.

The device will be successfully enrolled.





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 ITSM. A security profile will be applied to the device as follows:

- If the user is already associated with a configuration profile in ITSM then those profiles will be applied to the device. See Assig Configuration Profile(s) to User Device and Assig 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 Managing Default Profiles for more details.



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

4.1.2.3. Enroll Windows Endpoints

- After an administrator has added devices for a user, the user will receive an enrollment email with a link to the setup page.
- The setup page contains device enrollment instructions and a link to install the ITSM communication agent for Windows endpoints.
- Users should open the email on the Windows endpoint you want to enroll. After installation, the ITSM agent will automatically connect to the ITSM server.

To auto enroll a Windows device

Open the email on the device you want to enroll.



Welcome to IT and Security Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the IT and Security 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

- Click the enrollment link in the email.
- The 'Device Enrollment' page will open.

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Welcome to IT and Security Manager!

You are receiving this mail because your administrator wishes to enroll your smartphone, tablet, macOS, Linux or Windows device into the IT and Security 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://dithers-coyote-msp.cmdm.comodo.com:443/enroll/windows/

1) Change installer mode to executable

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

2) Run installer with root privileges:

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



Use the following settings:

Host: dithers-coyote-msp.cmdm.comodo.com Port: 443 Token: 39136b05364a3ab26617c9595d13a531

Sincerely, IT and Security Manager team.

• On the Device Enrollment page, click the install link for Windows devices:

COMODO



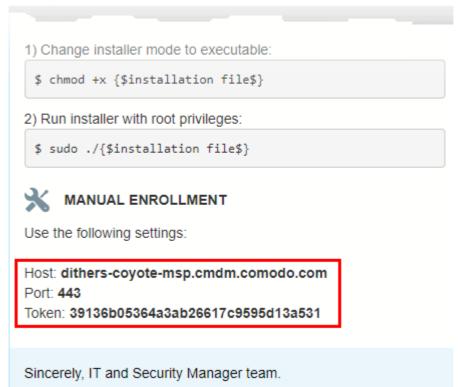
The ITSM agent setup file will download.

• Double-click on the file to install the agent.

The device will be automatically enrolled to ITSM once installation is complete. The following icon will appear at the bottom-right of the endpoint screen.

If the ITSM communication agent 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 ITSM system tray icon and select 'Activation'

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COMODO Client - Communication Enroll	
Enrollment Required Comodo Client - Communication needs to be enrolled in order to manage this device	
You need to enroll Comodo Client - Communication by providing host, port and token from Device Enrollment email and pressing "Enroll" button.	
Please set up host, port and token from Device Enrollment email.	
Host	
Port: 443	
Token:	
Enroll	
	Activation
Cancel	About
4 🖸 😂 📑 💼 🐋 🛷	x ^A へ に

- Enter the 'host', 'port' and the 'Token' contained in the device enrollment page and click 'Enroll'.
- CCC (the endpoint software) will communicate with the ITSM server and enroll the device.

сомодо	Client - Communication	×
	Your device is now enrolled!	
	ОК	
		Cancel

After device enrollment, the next step is to install Comodo Client Security (CCS) onto the endpoint. See **Remotely Installing Packages onto 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 ITSM 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.
 See Managing Default Profiles for more details.

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

ITSM allows you to rebrand the CCC 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 CCC/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 CCC and CCS Application UI Settings under Creating Windows Profiles for more details.

4.1.2.4. Enroll Mac OS Endpoints

After a device has been added for a user, they will receive an email containing enrollment instructions and links to download the ITSM profile and agent for Mac OS devices. The user should open the email on the target Mac OS device and follow the instructions.

Enrolling a Mac OS device involves two steps:

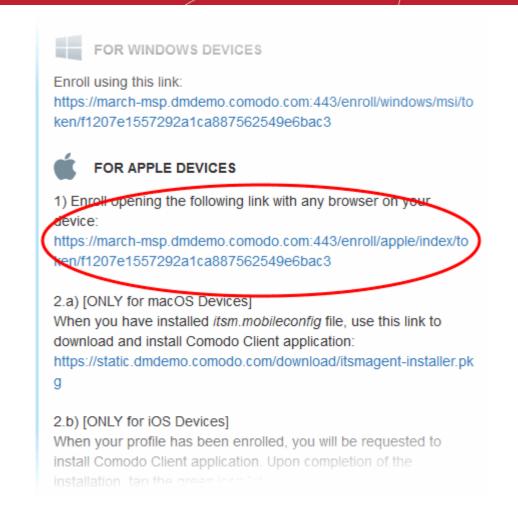
- Step 1 Installing the ITSM Configuration Profile
- Step 2 Installing the ITSM Agent

Step 1 - Installing the ITSM Configuration Profile

To install the configuration profile

- Open the enrollment mail on the target device then tap the enrollment link. This will open the device enrollment page.
- Next, click the link under "For Apple Devices":





The configuration file 'itsm.mobileconfig' will be downloaded and the 'Install Profile' wizard will be started.

5 07	Install "Comodo ITSM"	Profiles "? figure your Mac for the following: I	Q Search Device enrollment.
	Show Profile		Cancel Install
No profile	s installed		



• Tap 'Install'.

You need to enter your password to install the profile.

ſ		nts to make changes. Type your o allow this.
	Username:	Dagwood
	Password:	•••••
		Cancel OK

• Enter your device username and password and click OK to continue the installation

Confirmation dialogs will appear for profile installation.

m	Install "Comodo ITSM"?	
2	This device profile will configure your Mac Enrollment Request.	for the following: Mobile Device Management and SCE
	Show Profile	Cancel Continue

- To view the profile details, click 'Show Profile'
- Click 'Continue'

	Are you sure you want to install profile "Comodo ITSM"?			
<i>()</i>	The admin of "https://coyote-msp.cmdm. remotely administer this Mac.	.comodo.com:443/command/osx-core/" will be able to		
	Show Details	Cancel		

Click 'Install'

The profile will be installed.

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evice Profiles	
	Comodo ITSM
Comodo ITSM 2 settings	COMODO GROUP LTD. Verified
	Description Configuration IT and Security Manager
	Signed *.cmdm.comodo.com
	Installed 08-Jul-2016, 2:11 PM
	Settings SCEP Enrollment Request
	Mobile Device Management
	DETAILS
	Mobile Device Management
	Description COMODO GROUP LTD. ITSM
	Server https://coyote-

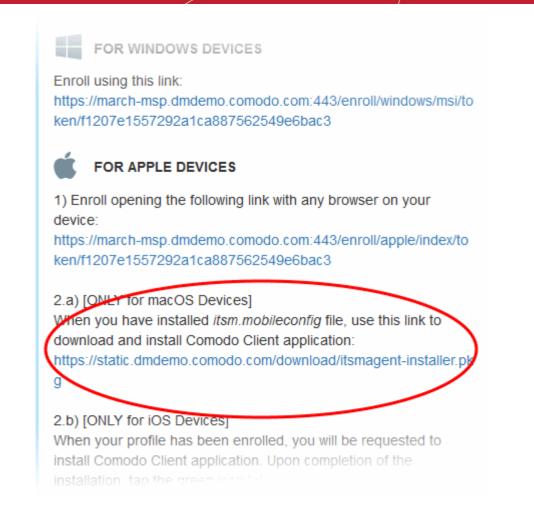
Step 2 - Installing the ITSM Agent

After installing the profile, the ITSM agent needs to be installed so the device can communicate with the ITSM server.

To download and install the ITSM agent

• Open the device enrollment page and click the link to download the agent as shown below:





The agent setup package will be downloaded and the installation wizard will start.

•••	😺 Install Comodo Client - Communication	2
	Welcome to the Comodo Client - Communication Installer	
Introduction	You will be guided through the steps necessary to install this software, version 5.3.0.122.	
License		
Destination Select		
Installation Type		
Installation		
Summary		
	Go Back Contin	ue

Click 'Continue'

The End User License Agreement will be displayed.

COMODO

• • •	💝 Install Comodo Client - Communication	6
	Software License Agreement	
IntroductionLicense	END USER LICENSE AGREEMENT AND TERMS OF SERVICE COMODO IT AND SECURITY MANAGER	
Destination Select	THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE.	
 Installation Type Installation Summary 	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 ACCEPT".	
	Product Functionality Comodo IT and Security Manager (ITSM) allows administrators to manage, monitor and secure mobile devices which connect to enterprise wireless networks. Once a device has been enrolled, Print Save Go Back Continue	

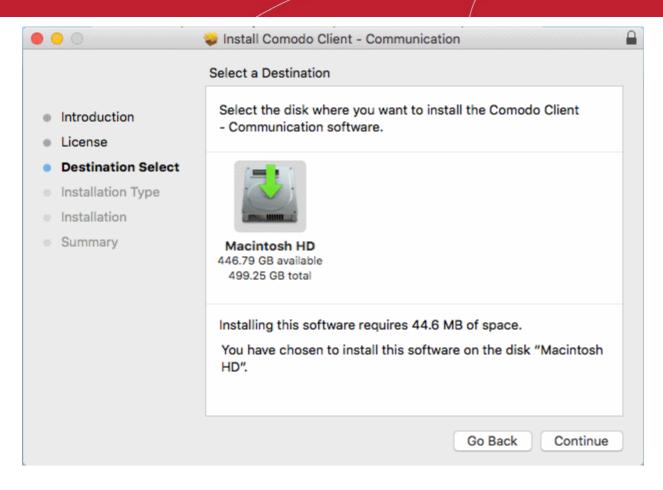
• Read the EULA and click 'Continue'.

A confirmation dialog will appear.

the software license agreen	oftware you must agree to the terms of nent.
Click Agree to continue or clic quit the Installer.	ck Disagree to cancel the installation and

The next step allows you to choose the location at which the agent is to be installed.





• To install the agent in the default location, click 'Continue'. To install the agent in a different location, click the disk icon, navigate to the new location and click 'Continue'.

The next step allows you to choose the installation type and start the installation.

•••	😺 Install Comodo Client - Communication	
	Standard Install on "Macintosh HD"	
 Introduction License Destination Select Installation Type Installation Summary 	This will take 44.6 MB of space on your computer. Click Install to perform a standard installation of this software on the disk "Macintosh HD". Change Install Location	
	Go Back Install	5



Click 'Install'

•

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

	s trying to install new software. Type word to allow this.				
Username:	Dagwood				
Password:	•••••				
	Cancel Install Software				

Enter your username and password and click 'Install Software'

0 0 0	😺 Install Comodo Client - Communication	
	Installing Comodo Client - Communication	
 Introduction License Destination Select 		
 Installation Type Installation 	Validating packages	
Summary		
	Go Back Continue	

The installation will begin. Once installation is complete, the agent will start communicating with the ITSM server.

•••	😺 Install Comodo Client - Communication	
	The installation was completed successfully.	
 Introduction License Destination Select Installation Type Installation Summary 	The installation was successful. The software was installed.	
	Go Back Close	

Once the device is enrolled, the next step is to install Comodo Antivirus for Mac (CAVM) onto the endpoint in order for the default or assigned Mac profiles to take effect. Refer to the section **Remotely Installing Packages on Mac OS Devices** for more details.

- If the user/user group to which the user belongs is pre-associated with configuration profiles, then those
 Mac OS profiles will be applied to the device. See Assigning Configuration Profile(s) to a Users'
 Devices and Assigning Configuration Profiles to a User Group for more details.
- If no profiles are defined for the user/user group, the default profile(s) for Mac OS will be applied to the device. See Managing Default Profiles for more details.

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

4.1.2.5. Enroll Linux OS Endpoints

- End-users will receive an enrollment email after an admin has added their device to ITSM.
- The email contains instructions and a link to download the Linux ITSM agent.
- Users should open the email/complete the installation process on the Linux endpoint that is being enrolled.
- After installing the agent, the endpoint will automatically to connect to the ITSM server.

Supported Linux OS

- Ubuntu 16.04.2
- Debian 8.8
- Red Hat Enterprise 7

To auto enroll a Linux device

• Open the mail in the device and click the enrollment link in it. You will be taken to the enrollment page through the default browser of the endpoint computer.

FC	R LINUX DEVICES
Download	and install Comodo Client application by tapping the
ollowing	iink:
nttps://de	moq3-msp.dmdemo.comodo.com:443/enroll/linux/run/to
en/3705	22bb23b6fb954dc2b64ce199183a
	ame link for manual enrollment if required.
Use the s	
Use the s 1) Chang	am e link for manual enrollment if required. e installer mode to executable:
Use the s 1) Chang	am e link for manual enrollment if required.
Use the s 1) Chang \$ chmo	am e link for manual enrollment if required. e installer mode to executable:
Use the s 1) Chang \$ chmo 2) Run in	ame link for manual enrollment if required. e installer mode to executable: d +x {\$installation file\$}

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

You can install the ITSM agent in your Linux device by first changing installer mode to executable and running the installer with root privileges in the command terminal:

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

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

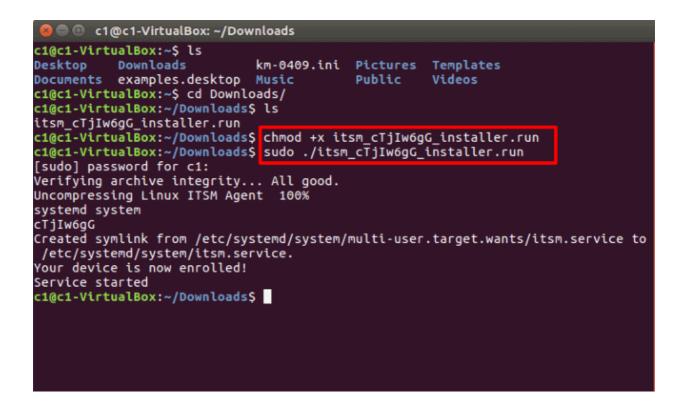
2. Run installer with root privileges - enter the following command:

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

For example:

chmod +x itsm_cTjlw6gG_installer.run

sudo./itsm_cTjlw6gG_installer.run



That's it. The Linux device will be enrolled and displayed in the devices list. Currently you can view the device status and online status. Other features such as security client, patch management, procedures and so on will be supported in future ITSM versions.

4.1.3. View User Details

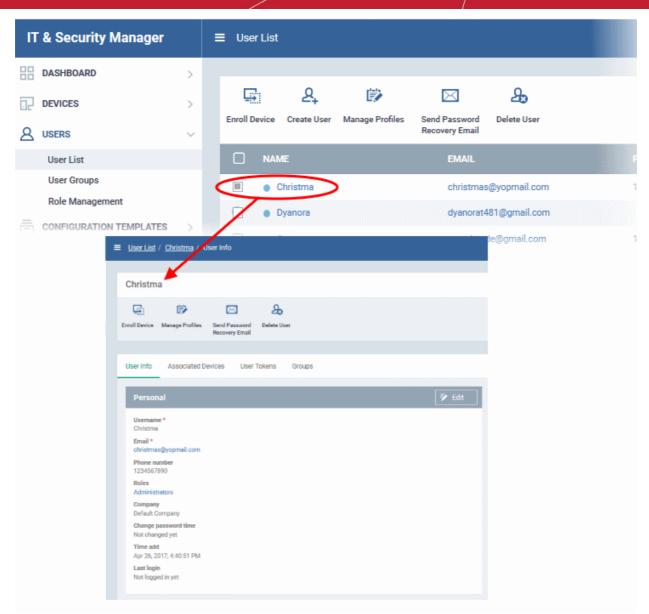
Administrators can view user account details at anytime from the 'Users' interface.

To view user details

- Open the 'Users' interface by clicking 'Users' > 'User List'
- Click the name of a user

The 'User Details' screen will open:

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You can update these details by clicking the 'Edit' button at top right. Refer to **Updating Details of a User** for more details. Please note you cannot edit the details of users that are added via the C1 management portal.

The User Details screen also allows administrators to:

- Enroll new devices for users
- Apply configuration profiles to devices
- · Send password recovery emails for users to access the ITSM console
- · View and manage devices enrolled for users
- View device enrollment tokens generated for users
- View and manage Groups to which the user is a member

Enroll new devices for users

· Click 'Enroll Device' at the top of the details interface

The 'Enroll Devices' dialog will open with the user pre-populated. Refer to **Enrolling User Devices for Management** for more on enrolling user devices.

Apply Configuration Profiles to user devices

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• Click 'Manage Profiles' at the top of the User Details interface

The 'Manage Profiles' interface will open with a list of profiles added to user's devices. You can add new profiles to the user which will be applied to their enrolled devices. See **Assigning Configuration Profile(s) to a Users' Devices** for more details.

To send Password Recovery emails to users

• Click 'Send Password Recovery Email' at the top of the 'User Details' interface. Please note that this option will not be enabled for users that were added via the C1 management portal.

An email will be sent to the user with a link to set a new password:

Dear Dagwood,
We recently received a password reset request for your IT and Security Manager account.
Date of request: Tue, 05 Jul 2016 12:27:14 +0000
If you requested this change, please confirm and complete the reset process by clicking the following link (available only once): https://coyote-msp.cmdm.comodo.com/user/site/change-password/username/Dagwood/key/6e39fcef9ddeafdd1dce0c07a88c03faff60bd66
If you did not request this change, please contact us immediately by sending an email to mdmsupport@comodo.com

Sincerely, IT and Security 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.

To view the devices associated with a user

Click the 'Associated Devices' link

The devices that are enrolled for the user will be displayed:

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Ξ <u>User List</u> / ∕ Associa	j <u>ohnsmith</u> Ited Devices	License Op	otions	Ç	2	온 Logout (ரா mmoxford@yahoo.com
johnsmit	h						
Enroll Device	Manage Profiles	Send Password D Recovery Email	An and a second				
User Info	Associated Devic	es User Tokens	Groups				
os	NAME	ACTIVE COMPONE	NTS PATCI	I STATUS	CO	MPANY	LAST ACTIVITY
100 1000 100 1000	DESKTOP-8	AG AV FW S	B A8		Dith	ers Constr	2016/10/06 06:34:0
-	samsung_S	AG AV			Dith	ers Constr	2016/10/06 06:13:1
Results per pa	age: 20 🗸						Displaying 1-2 of 2 results.

Associated Devices - Column Descriptions						
Column Header	Description					
OS	Displays the Operating System of the device.					
Name	The name assigned to the device by the user. If no name is assigned, the model number of the device will be used as the name of the device. Clicking the name of the device will open the 'Summary' screen of the device details interface. Refer to the section 'Viewing Summary Information' for more details.					
Active Components	Indicates which endpoint security components are installed on the device. For example, Antivirus, Firewall, Containment etc.					
Patch Status	Indicates how many OS patches are awaiting installation on the endpoint. Clicking the number will open the 'Patch Management' tab of the 'Device Properties' interface, enabling you to initiate installation of the missing patches. Refer to the section Viewing and Installing Windows Patches for more details.					
Company	Indicates the company to which the device was registered.					
Last Activity	Indicates the date and time at which the device last communicated with the ITSM agent.					

To view user tokens

• Click the 'User Tokens' link

The page will list all tokens generated for the user to enroll their devices:

User Tokens - Column Descriptions					
Column Heading Description					
Token	Displays the unique serial number of each enrollment token.				
Expiration Date Date that the token expires. Users can enroll devices using the same token until expired					
Days left	Indicates how many days remain until the token expires.				

To view and manage user groups to which the user belongs

johnsmith						
Enroll Device	Manage Profiles	Send Password Recovery Email	25 Delete User			
User Info	User Info Associated Devices User Tokens Groups					
TOKEN EXPIRATION DATE - DAYS LEFT						
f985b87f81e337f9cc425e46f0a855 2017/01/03 90 days left						
f98832780415faa7a5bec4e436385 2017/01/03 90 days left						
Results per page: 20 🗸 Displaying 1-2 of 2 results.						
 Click the 'Groups' link to view all groups to which the user belongs: 						

User Info Associated Devic	es User Tokens	Groups			
Add To Group 💼 Remove From Group					
GROUP NAME	NUMBER OF USERS		CREATED BY	CREATED	
Samsung Device Users	1		mmoxford@yahoo.com	2016/10/06 06:43:38 AM	
Purchase Dept	1		mmoxford@yahoo.com	2016/10/06 06:44:02 AM	
Results per page: 20 🗸				Displaying 1-2 of 2 results.	

Groups - Column Descriptions				
Column Header Description				
Group Name	The name assigned to the user group by the administrator. Clicking the Group Name will take you to the Group Details interface. Refer to the section Editing a User Group for more details.			

Number of Users	Indicates the total number of users in the group. Refer to the section Editing a User Group for more details.
Created By	Indicates the administrator that created the group. Clicking the name opens the User Details interface of the administrator. Refer to the section Viewing the Details of a User for more details.
Created	Indicates the date and time at which the group was created.

4.1.3.1. Update the Details of a User

Administrators can update the username, email address and phone number of a user at any time through the user details interface. The interface also allows you to view devices that are associated with the user as well as send a password recovery email.

Note: The 'Edit' option is not available for users that were added via the C1 management portal. Those users must be edited in the C1 interface. All changes will be reflected in the ITSM interface.

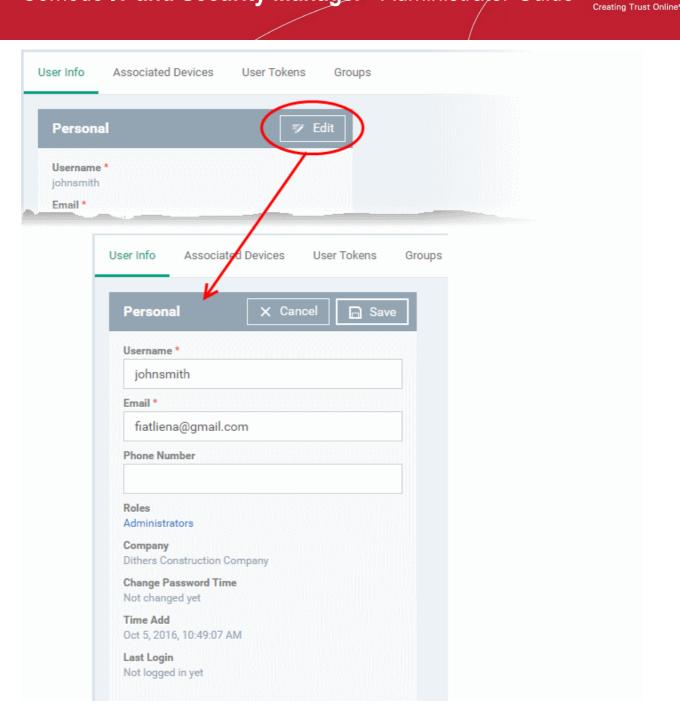
To update the details of a user

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

The user details screen will open.

Click the 'User Info' link and then the 'Edit' button
 Edit
 at the top right

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Update User Form - Table of Parameters					
Form Element Type Description					
Username	Text Field	Allows you to change the login username of the user.			
Email	Text Field	Allows you to change the email address of the user.			
Phone Number (Optional) Text Field Allows you to change the phone number of the user.					

Click 'Save' at the top for your changes to take effect

The role assigned to the user is displayed under 'Roles'. Clicking the role name allows you to change the role if required. Refer to the section 'Managing Roles Assigned to a User' for more details.

сомодо

4.1.4. Assign Configuration Profile(s) to a Users' Devices

ITSM allows administrators to assign profile(s) to users which will be deployed on all devices associated with those users. Administrators can select profiles for multiple OS types for the same user and each profile will be applied to the appropriate device. This is useful if an organization prefers to roll out profiles to devices on a user basis.

To manage configuration profiles assigned to a user

- · Click the 'Users' tab from the left and click 'User List'
- Select the user for whom you want to assign profile(s)

IT & Security Manager	≡ User List	License Options 🗿 🛽 Logout (coyot
Contraction Contr	Enroll Device Greate User Recovery Email	
User List	NAME EMAIL PHONE NUMBER	NUMBER OF DEVICES
User Groups Role Management	Otristma christmas@yopmail.com 1234567890 Oyanora dyanorat481@gmail.com	0 Not logge 1 Not logge
CONFIGURATION TEMPLATES	Samaung evantistude@gmeil.com 123456789	0 Not logge
	Manage Profiles of John	
	Remove Profiles OS TYPE PROFILE NAME OWNER	Ŧ
	Machintosh Profile coyoteewile@yahoo.com Imported] For Sony Phones coyoteewile@yahoo.com	
	Results per page: 20 V	Displaying 1-2 of 2 results.

• Click 'Manage Profiles'.

The 'Manage Profiles For User' interface will open with a list of all configuration profiles associated with the user.

Tip: The 'Manage Profiles' interface for a user can also be opened from the 'User Details' interface (open the 'User List' interface, click a username then select 'Manage Profiles').

To add new profiles to the user

Click 'Add Profiles'

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Ado	Add Profiles to johnsmith					
S S	ave			T		
	OS TYPE	PROFILE NAME	OWNER			
	1955 STA 1951 JUL	Optimum Windows Profile for ITSM 5.5	admin			
		[cmdm-8534] Optimum Windows Profile for ITSM 5.4	demo_q3@yopmail.com			
		[Wyatt] Optimum Windows Profile for ITSM 5.5	demo_q3@yopmail.com			
		Tilkerl Ontinum Windows Profile for ITOM F. 4	1			

The 'Add Profiles to User' interface will appear with a list of all the profiles available with ITSM excluding those already applied to the user.

- Click the funnel icon at the right to search for particular profile(s)
- Select the the profile(s) to be added and click 'Save'.

The selected profiles will be associated with the user and applied to all the devices enrolled for the user. Also, if any new device is enrolled for the user, the profiles will be applied by default.

Ma	Manage Profiles of johnsmith					
Add P						
前	Remove Profi	les	Υ			
	OS TYPE	PROFILE NAME	OWNER			
		Optimum Windows Profile for ITSM 5.5	admin			
		[cmdm-8534] Optimum Windows Profile for ITSM 5.4	demo_q3@yopmail.com			
		Purchase Dept Windows Machines	mmoxford@yahoo.com			
		For Samsung Users	mmoxford@yahoo.com			

To remove a profile

• Select the profile(s) from the 'Manage Profiles for User' interface and click 'Remove Profiles'.

Remove Profi	les	T
OS TYPE	PROFILE NAME	OWNER
	Optimum Windows Profile for ITSM 5.5	admin
-	[cmdm-8534] Optimum Windows Profile for ITSM 5.4	demo_q3@yopmail.com
	Purchase Dept Windows Machines	mmoxford@yahoo.com
1	For Samsung Users	mmoxford@yahoo.com

The selected profile(s) will be removed.

4.1.5. Remove a User

Administrators can remove users from the 'Users' interface if their device(s) no longer need to be managed by ITSM. Users that are assigned privileges to manage ITSM can also be removed if no longer required.

Note 1: Users added via the C1 management portal cannot be removed via the ITSM interface. They can be removed only from C1 and once removed they will be automatically deleted from the user list in ITSM. Note 2: Users cannot be removed until their device(s) is/are managed by ITSM. Before removing a user, ensure all devices associated with him/her are removed from ITSM or reassigned to another user. Refer to the sections Removing a Device and Changing Device's Owner for more details.

To remove a user

- Open 'User List' interface by clicking 'Users' > 'User List'
- · Select the user to be removed and click 'Delete User'
- Alternatively, click on the name of the user to be removed.

The user details screen will open.

Ð \mathfrak{D} A Logout (co 🔳 User List Ę; 8 ¢ ക \ge Enroll Device Create User Manage Profiles Send Pass Delete User very E n 1234567890 0 christ as@yopmail.c Not i dvanorat481@gmail.c Dv 0028 123456789 0 sung 0 123456789 Tab use Ö ald@yopn 0123456789 0 0 a co in anbugiridharan@ya Delete User Do you really want to delete user «John»? Confirm

Click 'Delete User' at the top

johnsmit	h		
Enroll Device	Manage Profiles	Send Password Recovery Email	Delete User
User Info	Associated Devi	ces User Tok	ens Group
Persona	il		🔊 Edit
Username johnsmith	*		

The user will be removed from ITSM.

4.2. Manage User Groups

- Comodo ITSM allows 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. Imported users will be placed into ITSM with the same group structure. ITSM will periodically synchronize with AD to ensure any changes to

COMODO Creating Trust Online AD users are mirrored in the ITSM 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.

IT & Security Manager		≡ User Groups		License Options 🔂 🗯	Logout (coyoteewile@yahoo.com)
B DASHBOARD	5				
DEVICES	>				
(A USERS	~	create croup			Ť
User List		NAME	NUMBER OF USERS	CREATED BY	CREATED
User Groups		itam-team.net/G1	3	coyoteewile@yahoo.com	2016/08/30 06:08:00 PM
Role Management		itam-team.net/Denied RODC Pasaword	0	coyoteewile@yahoo.com	2016/08/30 04:55:12 PM
CONFIGURATION TEMPLATES	>	itsm-team.net/DnsAdmins	1	coyoteewile@yahoo.com	2016/08/30 04:55:12 PM
APPLICATION STORE	>	itsm-team.net/Cert Publishers	0	coyoteewile@yahoo.com	2016/08/30 04:45:19 PM
APPLICATIONS	>	itsm-team.net/Allowed RODC Password	0	coyoteewile@yahoo.com	2016/08/30 04:42:58 PM
SECURITY SUB-SYSTEMS		Itsm-team.net/Active Directory Robot A.	1	coyoterwile@yahoo.com	2016/08/30 04:33:23 PM

User Groups - Column Descriptions				
Column Heading Description				
Name	The name assigned to the user group by the administrator.			
	Click the name of a group to view members. The group details interface allows you to add and manage group members. See Editing a User Group for more details.			
Number of Users	Shows how many users are in the group.			
Created By	Name of the administrator that created the group.			
	Click the administrator name to view full admin details. See Viewing the details of a User for more information.			
Created	Date and time at which the group was created.			

Sorting, Search and Filter Options

- Clicking on the column header sorts the items based on alphabetical or ascending/descending order of entries in the respective column.
- Clicking the funnel button \mathbf{Y} at the right end opens the filter options.

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

- To filter the items or search for a specific user based on group name and/or owner name, enter the search criteria in part or full in the respective field and click 'Apply'.
- To filter the user groups that have been created within a specific time period, enter the start and end dates
 of the period in the 'From' and 'To' fields under 'Created' using the calendars that appear on clicking inside
 the respective field and click 'Apply'.

You can use any combination of filters at-a-time to search for a specific user group.

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- By default ITSM 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.

Refer to the following sections for more details about:

- Creating a New User Group
- Editing a User Group
- Assigning Configuration Profile(s) to a User Groups
- Removing a User Group

4.2.1. Create a New User Group

The 'Create Group' button allows you to add and populate a new user group. 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

- Open the 'User Groups' interface by clicking the 'Users' tab from the left and choosing 'User Groups' from the options.
- Click 'Create Group' above the table.

The 'Create User Group' dialog will open.

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IT & Security Manager	1		License Options	🔁 😰 온 Logout (co
DASHBOARD	>	\frown		
DEVICES	→ (<u>R</u>		
A USERS	~ \	Create Group		
User List		IAME	NUMBER OF USERS	CREATED BY
User Groups		itsm-team.net/G1	3	coyoteewile@yahoo.com
Role Management		itsm-team.net/Denied R	0	coyoteewile@yahoo.com
CONFIGURATION TEMPLATES	>	itsm-team.net/DnsAdmi	1	coyoteewile@yahoo.com
	>	itsm-team.net/Cert Pub	0	ongoloomia Sucher a
	Creat	e User Group		×
	Name *			
	Name	e		
	Choose	user(s)		
	To add	t users, start typing their us	sernames	
				Save

'Create User Group' dialog - Table of Parameters					
Form Element	Туре	Description			
Name	Text Field	Allows you to enter a name shortly describing the group of users.			
Choose User(s)	Text Field	Allows you to add the users to the group. To add a user, start typing the first few letters of the username and select the user from the predictions drop-down. Repeat the process for adding more number of users.			
		 Note: You can add users at a later stage too. See the following section Editing a User Group for more details. 			

• Fill the details and click 'Save'.

The new group will be created and the group details screen will be displayed with the list of users in the group.

• Repeat the process to add more groups.

The users can be added to or removed from the groups at anytime. Refer to the section **Editing a User Group** for more details.

$\textcircled{\blue}{2}$ • A Logout (coyoteewile@yahoo.com) User Groups / Marketing Staff License Options = Marketing Staff ጿ じ ۲į Add Users to Manage Profiles Delete User Rename User Group Group Group Y Remove from Group transtar [Dithers Construction Company] cheff [Dithers Construction Company] ssgalia@yahoo.com [Deer Company] avantistude@gmail.com [Dithers Construction Company] Results per page: Displaying 1-4 of 4 results. 20 v

Appropriate configuration profiles can now be applied to the new user groups. Refer to **Assigning Configuration Policy to a User Group** for more details.

Note: A single user can be a member of more than one group. The configuration profiles applied to the all the groups to which a user is a member of, will be applied to the devices belonging to the user. In case the settings in a profile clashes with another profile, ITSM follows the 'Most Restricted' 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 as per the 'Most Restricted' policy.

4.2.2. Edit a User Group

The group detail interface allows administrators to view the group members, add or remove members, rename groups and delete groups.

To view and edit user groups

- Open the 'User Groups' interface by clicking the 'Users' tab from the left and choosing 'User Groups' from the options.
- Click on the group name to be edited.

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COMODO

		User Groups		License Options 🔁 😰	요 Logout (coyoteewile@yahoo.com)
DASHBOARD	>				
DEVICES	>	<u>&</u>			
Q USERS	U .	Create Group			Ţ
User List		NAME	NUMBER OF USERS	CREATED BY	CREATED
User Groups		itsm-team.net/G1	3	coyoteewile@yahoo.com	2016/08/30 06:08:00 PM
Role Management		itsm-team.net/Denied RODC	0	coyoteewile@yahoo.com	2016/08/30 04:55:12 PM
CONFIGURATION TEMPLATES	>	itsm-team.net/DnsAdmins	1	coyoteewile@yahoo.com	2016/08/30 04:55:12 PM
APPLICATION STORE	>	itsm-team.net/Cert Publishers	0	coyoteewile@yahoo.com	2016/08/30 04:45:19 PM
APPLICATIONS	,	itsm-team.net/Allowed RODC	0	coyoteewile@yahoo.com	2016/08/30 04:42:58 PM
SECURITY SUB-SYSTEMS		itsm-team.net/Active Directo	1	coyoteewile@yahoo.com	2016/08/30 04:33:23 PM
~		Marketing Staff	4	coyoteewile@yahoo.com	2016/07/06 04:19:46 PM
CERTIFICATES	>	Lenovo Tab Users	0	coyoteewile@yahoo.com	2016/07/05 06:12:11 PM
SETTINGS	>	Purchase Dept	1	coyoteewle@yahoo.com	2016/07/05 06:11:33 PM
Marketing Staf	f				
<u>R</u>	ø		7		
Add Users to Mana Group	age Profile	es Delete User Re Group	name User Group		
					Ţ
Group					٣
Group	up				٣
Group	up s Constru	Group uction Company]			٣
Group Remove from Grou USERNAME USERNAME	up s Construct	Group uction Company] ion Company]			٣
Group	up s Constructi com [De	Group uction Company] ion Company]	Group		•

The user group details interface will open with the list of users in the group and allows you to:.

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

To add new user(s) to the group

• Click 'Add Users To Group'.

A list of all users enrolled to ITSM, excluding those in the group will be displayed.

• D ▲ Logout (coyoteewile@yahoo.com) User Groups / Marketing Staff Marketing Staff ø -ዲ Add Users to nage Profiles Delete User Rename User Group Group Group nove from Group T anstar [Dithers Construction Company] "⊕ ① A Logout (coyoteewile@yahoo.com) Add Users to Marketing Staff E Save T 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 Company]

• Select the users to be added to the group and click 'Save'.

If a new user is imported into a group, the configuration profiles in effect on the group will be applied to the user's device(s).

To remove a user from the group

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ē 🔉 ▲ Logout (coyoteewile@yahoo.com) User Groups / Marketing Staff Marketing Staff ø 7 2 Add Users to anage Profiles Delete User Rename User Group Group Group nove from Group T anstar [Dithers Construction Company] A Logout (coyoteewile@yahoo.com) Add Users to Marketing Staff 💾 Save T 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 Company]

- · Choose the user from the users in the 'Group Details' interface
- Click 'Remove from Group'

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Marketing Staff							
Add Users To Group	Manage Profiles	200 Delete User Group	Rename User Group				
Remove From Group							
🔳 🛛 Galia (Dit	Galia [Dithers Construction Company]						
sumeet [sumeet [Dithers Construction Company]						
dyanora	dyanora [Dithers Construction Company]						
Results per page: 20 V Displaying 1-3 of 3 results.							

If a user is removed from a group, the profiles in effect on the user's device because of association with the group, will also be removed.

To rename a group

• Click 'Rename User Group' at the top

The 'Rename Group' dialog will open:

Marketing	Staff					
Add Users To Group	Manage Profiles	Delete User Group	Rename User Group			
Remove Fre	om Group					T
USER NA	ME					
🔳 🛛 Galia [Dit	hers Construction (Company]				
		~ · · ~		1999		
Renar	ne Group				Close	
Name	*					
Mark	keting Staff					
				Save	Cancel	

Enter the new name for the group in the 'Name' text box and click 'Save'.

The group will be updated with the new name.

The group details interface also allows the administrator to apply configuration profiles to devices associated with all the users in a group at-once. Refer to the next section **Assigning Configuration Profiles to a User Group** for more details.

4.2.3. Assign Configuration Profiles to a User Group

Administrators can view the configuration profiles currently applied to a user group and also 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. Administrators can select profiles for different operating systems and these will be applied to the respective devices.

For more details on profiles, refer to the chapter Configuration Profiles.

To view and manage the profiles applied to a group

- Open the 'User Groups' interface by clicking the 'Users' tab from the left and choose 'User Groups'.
- Click on the name of the group whose profile you wish to manage.

The group details interface will be displayed, listing all users in the group.

Click 'Manage Profiles' at the top.

≡	User Groups / Marketing Staff	License Options	"⊕	0	온 Logout (coyoteewile@yahoo.com)
	Marketing Staff				
	Add Users to Group Group Group Group Group				
	Remove from Goup				٣
I	USERNAME				
	transtar [Dimers Construction Company]				
	Cheff [Ditters Construction Company]				
	Ssgalia@yahoo.com [Deer Company]				
	avantistude@gmail.com [Dithers Construction Company]				
	Results per page: 20 🗸				Displaying 1-4 of 4 results.
Γ	Manage Profiles of Marketing Staff				
A	dd Profiles				
	Remove Profiles	-			T
	OS TYPE PROFILE NAME			OWNE	R
	Optimum IOS Profile for ITSM 6.5			admin	
	Optimum OSX Profile for ITSM 6.5			admin	
	Results per page: 20 🗸				Displaying 1-2 of 2 results.

The 'Manage Profiles For User Group' interface will open displaying the profiles associated with the group.

To add a new profile

Click 'Add Profiles'

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Man	age Prof	iles of Marketing Staff	
Add Pro			
R	enove Profil	es	٣
	OSTYPE	PROFILE NAME	OWNER
		Heard Heard	
Add	Profiles	to Marketing Staff	
💾 Sav	ve		٣
	OS TYPE	PROFILE NAME	OWNER
	1999 1999 1999 1999	Optimum Windows Profile for ITSM 5.5	admin
		[cmdm-8534] Optimum Windows Profile for ITSM 5.4	demo_q3@yopmail.com
	1000 1000 1000 1000	[Wyatt] Optimum Windows Profile for ITSM 5.5	demo_q3@yopmail.com
		testwin	demo_q3@yopmail.com

A list of all configuration profiles, available in ITSM, 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

· Select the profile from the 'Manage Profiles' interface and click 'Remove Profiles'

Manage Pro	files of Marketing Staff	
Add Profiles		
Remove Prof	files	7
OS TYPE	PROFILE NAME	OWNER
	For Samsung Users	mmoxford@yahoo.com
	Standard Windows Profile for ITSM 5.5	admin
Results per page:	20 🗸	Displaying 1-2 of 2 results.

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

4.2.4. Remove a User Group

Administrators can remove unwanted user group(s) in ITSM. Doing so will remove the group but will not delete the users from ITSM. However, any profile(s) associated with the group will be removed from the devices of group members.

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. Refer to the **explanation of removing users from a group** in the section **Editing a User Group** for more details.

To remove a user group

- Open the 'User Groups' interface by clicking the 'Users' tab from the left and choosing 'User Groups' from the options.
- Click on 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.

Marketing	Staff	\frown			
Add Users To Group	Manage Profiles	Delete User Group	Rename User Group		
Remove Fro	om Group	\int			Ţ
USER NA					
Dele	ete User Gro	up		Close	
Do у	ou really want t	to delete this User G	roup?		
				Confirm Cancel	

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

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.
- All staff created in the C1 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 and device groups for a role by defining the access scope. Staff members can manage devices belonging only to the companies/device groups allowed as per their role.

There are two tabs in the role management interface:

- Roles allows you to view and edit each role's permissions. You can also create custom roles here.
- Users allows you to 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 ITSM modules and to manage users/devices belonging to different companies. You can restrict a role to manage specific companies and specific device groups.
- ITSM 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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DASHBOARD	<u>\</u>			
DEVICES	·	Roles Users		
E DEVICES	>	-		~ "
USERS	~	■_+ Add role		S
User List User Groups		NAME	DESCRIPTION	NUMBER OF USERS
Role Management		Admin_for_purchase_dept	With privileges applicable for purchase dept	0
CONFIGURATION TEMPLATES	>	Administrators	This is the super administrator role that has maximum privilege and needs to contain at least one user.	23
APPLICATION STORE	>	Users [default]	Users of the system	22
	>	No_report	Reports page blocked	1
SECURITY SUB-SYSTEMS	>	Compliance_Dashboard_blocked	Access to compliance dashboard blocked	0
CERTIFICATES	>	Technician	Technician of the system	33
ESETTINGS	>	Account Admin	Account Admin of the system	10

- Custom roles and built-in roles will be available for selection while adding a new user.
- Administrators 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	The name of the role. Click on the name to open the 'Role Management > Permissions screen. This allows you to view and manage the permissions assigned to the role. See 'Managing Permissions and Assigned Users of a Role' for more details.				
Description	Short description of the role.				
Number of Users	Number of users to whom the role is assigned. Click the number to open the 'Assign Users' screen, which allows you to assign or remove the role from users. See 'Viewing users assigned to a role' 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 admins 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
- Remove a Role

Users

The 'Users' interface allows administrators to view the list of users added to ITSM and the roles assigned to them. The administrator can also edit the roles assigned to each user from this interface.

• To switch to the 'Users' interface, click on the 'Users' tab.

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<u>Role</u>	<u>Management</u> > Users	× .	License Options	₹₽	1	온 Logout (coyoteewi	le@yaho	o.com
Roles	Users							
E,	Restore to C1 Default						Ø	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	anbugiridharan@yahoo.co.in				[Administrators]		
	John	fiatliena@gmail.com				[Users]		
	gerald@yopmail.com	gerald@yopmail.com				[Technician]		

Users - Column Descriptions					
Column Heading	Description				
Name	The login username of the user. Clicking a username will open the 'Users' screen, allowing you to assign new roles to a user or to remove existing roles. Refer to the section Managing Roles assigned to a User for more details.				
Email	The registered email address of the user.				
Roles	The roles assigned to the user. Clicking on a role opens the permissions of the role. Refer to the section 'Managing Permissions and Assigned Users of a Role' 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.

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.

dd role		
	DESCRIPTION	
for_purchase_dept	With privileges applicable for purchase dept	
Create New Role		
Name *		
Name		
Description t		
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.

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Roles Users Add role DESCRIPTION NAME **A** Account Admin Account Admin of the system Administrator for managing devices only Admin_Device_Management Admin_for_purchase_dept With privileges applicable for purchase dept Admin_Device_Management Make Default ۳ Ť Delete role Edit **Role Permissions** Assign Users Access Scope Apply to all Save DESCRIPTION ACTION PERMISSION Access to "Access Scope" tab access_scope.manage (companies and groups) at "Role Management" page. dashboard audit Access to "Audit" page. dashboard.audit_logs Access to "Audit Logs" page. dashboard.compliance Access to "Compliance" page.

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

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

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- 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 will open a list of all users enrolled in ITSM so far.

Admin_Device	_Management	t		
Delete role Edit				
Role Permissions	Assign Users	Access Scope		
				O T
NAME 🔺		COMPANY	EMAIL	ACTION
NAME ▲ gerald@yopmail.com		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

- 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 will open a list of all companies added to ITSM 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

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Roles Users Add role NAME **A** DESCRIPTION Account Admin Account Admin of the system Administrator for managing devices only Admin_Device_Management Admin_for_purchase_dept With privileges applicable for purchase dept Admin_Device_Management Make Default ۳Ż Ť Delete role Edit **Role Permissions** Assign Users Access Scope Apply to all ON Save PERMISSION DESCRIPTION ACTION Access to "Access Scope" tab access_scope.manage (companies and groups) at "Role Management" page. dashboard audit Access to "Audit" page. dashboard.audit_logs Access to "Audit Logs" page. dashboard.compliance Access to "Compliance" page.

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

Admi Make De	n_Device_Management	
Delete role	e Edit	
Role Pe	ermissions Assign Users Access Scope	
E Sa	ve	
PERN	Edit This Role	×
comp	Name *	÷24.
	Admin_Device_Management	
	Description *	
	Administrator for managing devices only	
		2 N N N N N N N N N N N N N N N N N N N
		Ok

• 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_Devic Make Default	e_Management		
Delete role Edit			
Role Permissions	Assign Users	Access Scope	
Save		Apply to all	ON
PERMISSION		DESCRIPTION	ACTION
access_scope.man	age	Access to "Access Scope" tab (companies and groups) at "Role Management" page.	OFF
dashboard.audit		Access to "Audit" page.	OFF
dashboard.audit_lo	gs	Access to "Audit Logs" page.	OFF
dashboard.complia	ince	Access to "Compliance" page.	OFF

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

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Admin_Device_I	Managemen	t		
Image: The second s				
Role Permissions	Assign Users	Access Scope		
				O T
NAME		COMPANY	EMAIL	ACTION
gerald@yopmail.com		kanchiidly	gerald@yopmail.com	Assign to Role
Glen		Deer Company	nelg@yopmail.com	Assign to Role
Greenway		Dithers Construction Company	yawneerg@yopmail.com	Assign to Role
Herald Triumph		Dithers Construction Company	hertriumph@gmail.com	Assign to Role
Horizon		Default Company	josephsaviour0@gmail.com	Assign to Role
		Deer Company	.impalachewy@gmail.com	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

сомодо

Admin_Device_Management Make Default 7 Delete role Edit Role Permissions Assign Users Access Scope E Save Apply to all ON Y COMPANY GROUF ACTION Default Company ON Default Comp. Default Group Default Comp.. Default Group - Default Company ON Coyote ON Coyote Sales 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	
Save PERMISSION		Apply to al DESCRIPTION	
company.manage.acce	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	>					
T Delete role	F dit					
Role Permi	issions	Assign Users	Access Sco	ре		
Save					Apply to all	ON
PERMISSIO	DN			DESCRIPTION		ACTION
company manade access-scope				Manage company	access (device 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'.

сомодо



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

Admin_f Make Defau	-	chase_dept					
Delete role	F dit						
Role Permis	ssions	Assign Users	Access Scope				
E Save							
PERMISSIO	N			DESCRIPTION			
company.ma	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' interface lets administrators add and remove roles from a user. Please note you cannot assign or remove the 'Account Admin' role. This role is automatically assigned to the person that created the C1 account.

Note. All staff created in the C1 interface will be available for selection in 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 also reset the roles of users added via C1 to default C1 roles. You can restrict access to different companies by defining the access scope in the role assigned to a staff member.

To open the Users interface

- Click 'Users' on the left and select 'Role Management'.
- Click the 'Users' tab.

This will display a list of users and the roles assigned to them:

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Role	<u>Management</u> > Users	License Options	2		ic@yano	0.0011
Roles	Users					
ا چ <u>ا</u>	Restore to C1 Default				Ø	Y
	NAME	EMAIL		ROLES		
	Coyotewile	coyoteewile@yahoo.com		[Users]		
	maxlenin2016@outlook.com	maxlenin2016@outlook.com		[Technician]		
	ssgalia@yahoo.com	ssgalia@yahoo.com		[Technician]		
	anhugiridharan@yahoo.co.in	anhuniridharan@vaboo.co.in	 	[Administrators]		

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 default

The following only applies to users added via the C1 interface. It does not apply to users added via the ITSM interface.

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- Choose 'Users' from the left and select 'Role Management'.
- · Click the 'Users' tab.

Role	s Users		Default role: <u>Users</u>						
¢	Restore to C1 Default								
	MAIE	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]						
	ssgalia@yahoo.com	ssgalia@yahoo.com	[Technician] [Users]						
	maxlenin2016@outlook.com	maxlenin2016@outlook.com	[Technician]						
177	esgale	ssgalia@yahoo.com	[Technician] [Administrators]						

 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		Close
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 default role

5. Devices and Device Groups

The 'Devices' area allows admins to:

- View, manage and take actions upon enrolled devices and device groups.
- Download agent packages required for offline enrollment of endpoints and for enrollment of devices through Active Directory.
- Download the Comodo Remote Control tool which allows staff to remotely access Windows and Mac OS endpoints.

IT & Security Manager		Device List					Lice	nse Options	` Ə 1	D 2	Logout (co	oyotee	wile@yaho	00.COM
DASHBOARD	>		2											
DEVICES	~	O Search group name	ំខែ	Grou	p Management	Devic	e Management							
Device List		G All Devices	Ę	1	ey.		Ð	4	-21		3	ŧ2		0
Bulk Installation Package		+ 🖶 ABC TV Services	Enrol (levice	Manage Profiles	Takeover	Install or Update	Siren	Send Message			Reboot	More	
S USERS	\rightarrow	+ 🖶 Chennai IT Services					Packages			Infor	mation			1
CONFIGURATION TEMPLATES		🕘 🖶 Coyote		05	NAME	ACTIV	E COMPONENTS	PATCH STA	TUS CO	MPANY	OWNER		LAST ACT	NITY
APPLICATION STORE		🕘 🖨 Deer Company		5	DESKTO	AC	ccs	0	Dith	ers Con	cheff		2017/04/2	27 05:
	1	🕘 🖶 Default Company			. LENOVO.	M	M		Ditt	ers Con_	eventistud	e	2017/04/2	27 05:
APPLICATIONS	>	🕘 🖶 Dithers Construction C.		11105) -										(Suistais)
SECURITY SUB-SYSTEMS	->	🔹 🖷 Horizon			samsung	A	AV.		Dia	ers Con	avantistud	8	2017/04/2	7 05:
CERTIFICATES	-	🕐 🖨 Kanchi Customer		5	DESKTO	M	AV FW CO	0	Ditt	era Con	Dyanora		2017/04/2	7 05
🔆 SETTINGS	5	💿 🖨 kanchiidly	۵	0	C1-Mac's_	A	AV		Dith	ers Con	transtar		2017/04/2	27 03:
					Sony Eric	M			Dee	r Compa	Impela		2016/08/0	17 02
			Results	per pag	: 20 ¥							Displ	aying 1-6 of	6 result

The device list area is split into two sections - Device Management and Group Management. A list of all companies, and groups under those companies, is shown to the left of the main information pane.

• **Device Management** - Displays all enrolled devices in the selected group. All available groups are listed under their company name on the left of the main information pane.

The device management area allows you to enroll new devices for management, add or remove device profiles, install Comodo Client Security, take remote control of Windows devices, remotely lock devices and more. See 'Managing Devices' for more details.

- Group Management Allows admins to 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 'Managing Device Groups' for more details.
- Bulk Installation Package Download the agent required to manually enroll devices and/or bulk-enroll devices from Active Directory. You can also download the Comodo 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 learn more:

- Managing Device Groups
 - Creating Device Groups
 - Editing Device Groups
 - Assigning Configuration Profile to Groups



Removing a Device Group

Managing Devices

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- Managing Windows Devices
- Managing Mac OS Devices
- Managing Android/iOS Devices
- Viewing the User Information
- Removing a Device
- Remote Management of Windows and Mac OS Devices
- Remotely Installing Packages onto Windows Devices
- Remotely Installing Packages on Mac OS Devices
- Installing Apps on Android/iOS Devices
- Generating Alarm on Devices
- Locking/Unlocking Selected Devices
- Wiping Selected Devices
- Assigning Configuration Profile to Selected Devices
- Setting / Resetting Screen Lock Password for Selected Devices
- Updating Device Information
- Sending Text Message to Devices
- Rebooting a Selected Device
- Changing a Device's Owner
- Changing BYOD status of a Device
- Enrollment of Windows Devices by Installation of ITSM Agent Package
- Bulk Enrollment of Devices
 - Enroll Windows and Mac OS Devices by Installing the ITSM Agent Package
 - Enroll Android and iOS Devices of AD Users
 - Download Remote Control Tool

5.1. Manage Device Groups

ITSM allows you to create logical groups of Android, iOS, Mac and Windows devices in order to conveniently manage large numbers of devices.

The ability to create device groups depends on your account type. See the table below for details:

Comodo One MSP Customers:	Comodo One Enterprise / ITSM Stand-alone Customers:
C1 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.	C1 Enterprise and ITSM stand-alone customers can only create groups under the 'Default Company'.

Device List		License Options	€ இ டே Logout (coyoteewile@yahoo.co
Ø Search group name	د 📴 Group Management	Device Management		
G All Devices	& ©	Б		0
	Create Group Manage Profiles Ren	name Group Delete Device Group		۲
+ 🖨 Coyote	NAME	NUMBER OF DEVICES	CREATED BY	CREATED
+ 🖶 Deer Company	7 inch tabs	0	coyoteewile@yahoo.com	2017/03/21 12:15:56 P.
+ 🖨 Default Company	MaC Machines	0	coyoteewile@yahoo.com	2017/03/17 03:50:46 P.
+ 👼 Dithers Construction C	dasfasdffasf	0	coyoteewile@yahoo.com	2017/03/10 09:00:35 P.
+ 👼 Horizon	Running Staff	0	coyoteewile@yahoo.com	2017/03/09 04:43:36 P.
🔹 👼 Kanchi Customer	Default Group - kanchildly	0	admin	2017/02/25 03:18:24 P.
+ 🖶 kanchiidly	Default Group - Coyote	0	admin	2017/02/25 03:18:24 P.
+ 📾 Sky walk	Default Group - Horizon	0	admin	2017/02/25 03:18:24 P.
	Default Group - Default	0	admin	2017/02/25 03:18:24 P.
	Default Group - Sky walk	0	admin	2017/02/25 03:18:24 P.
	Default Group - Dithers	5	admin	2017/02/25 03:18:24 P.

The 'Device List' interface displays all device groups under each company as a tree structure. The 'Group Management' tab allows administrators to create new groups, import devices into groups, assign configuration profiles to groups and more.

- To open the 'Group Management' interface:
- Click 'Devices' on the left and choose 'Device Groups'
- Click the 'Group Management' tab
- · To view all devices enrolled to ITSM, select 'All Devices' on the menu to the left
- Click on a company name, then a group name, to view all devices in a particular group

Device Groups - Column Descriptions								
Column Heading	Description							
Name	The name assigned to the device group by the administrator. Clicking the name of a group will open the 'Group Management' interface which lists the devices in the group. You can add or remove devices to/from the group and manage configuration profiles applied to the group. Refer to the section Editing Device Groups for more details.							
Number of Devices	Shows the number of devices in the group. Clicking the number will open the 'Group Management' interface.							
Created By	Shows which administrator created the group. Clicking the name of the administrator will open the 'View User' pane, displaying the details of the Administrator. Refer to the section Viewing User Details for more details.							
Created	Indicates the date and time at which the group was created.							

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Sorting, Search and Filter Options

- · Clicking any column header sorts the items in alphabetical or numerical order
- Clicking the funnel button T on the right opens the filter options.
- Use the search box to find a specific group

Profiles

Dedicated configuration profiles containing specific user privileges 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, ITSM 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**.

Refer to the following sections for more details about:

- Creating Device Groups
- Editing a Device Group
- Assigning Configuration Profiles to a Device Group
- Removing a Device Group

5.1.1. Create Device Groups

Placing devices into a group allows administrators to push configuration profiles to multiple devices simultaneously. OS-specific profiles will be automatically applied to the relevant devices.

To create a device group

- Click the 'Devices' tab from the left and choose 'Device List'
- C1 MSP customers should choose the company/department under which to create the group from the left
- Click 'Create Group' from the top left
- Alternatively move the mouse over the company name and click the '+' sign that appears at the right

Ø Search group name	Group Management	
1 All Devices	<u>&</u> , 😥	C All Devices
+	Create Group Manage Profiles	→ ▲ ABC TV Services Creation → ▲ Chennai IT Services → ▲ Coyote
 Default Group - Coyote Default Group Sales 	Default Group - Deer Co Innotek PCs Default Group	 Default Group - Coyote Default Group Sales
Deer Company	Results per page: 20 ~	□ Image: Book of the second

The 'Add Group' interface will open.

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Add Group	Close
Name *	
Running Staff	
Company *	
Deer Company	
Devices	
Type device name to search among devices	
	Add
	Add

'Add Group' dialog - Table of Parameters							
Form Element Description							
Name	Enter a descriptive name for the group.						
Company	The company for which the group is to be created. This field will be pre-populated with the company chosen. You cannot edit this field.						
Devices	Allows you to add devices to the group. To add a device, start typing the first few letters of the device name and select the device from the options. Repeat the process for adding more number of devices. Please note that you will be able to add only the devices enrolled for the chosen 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 **Editing a Device Group** for more details.

Ø Search group name	د <mark>له</mark> Group	Management	Device Management			🖳 🛱 Add I	Devices to Group
C All Devices	*						O
+ 🖶 ABC TV Services ^	Manage Profiles	Rename Group					
+ 🖶 Chennai IT Services			01980 - 019	ыр			,
+ 🖶 Coyote	os 🛛	NAME	ACTIVE COMPONENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY
– 🖶 Deer Company		DESKTO	AG AV FW CO	<mark>A</mark> 1	Deer Compa	ssgalia@ya	2017/03/09 04:
— 🖆 Default Group - Deer — 🗳 Default Group		• VMWIN1		0	Deer Compa	Impala	2017/03/09 04:
D Innotek PCs	□ ∰	🌒 samsun	AGAV		Deer Compa	Impala	2017/03/09 04:
 Running Staff Default Company Dithers Constructio Dithers Constructio Horizon Kanchi Customer kanchiidly Sky walk 	Results per page:	20 🗸				Disp	olaying 1-3 of 3 result

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 **Assigning Configuration Profiles to a Device Group** for more details.

5.1.2. Edit a Device Group

The Group Management interface allows admins to view devices in the selected group, add or remove devices, rename the group and manage policies applied to each device in the group.

- 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
- Remove a group

To view or edit a device group

- · Click the 'Devices' link on the left and choose 'Device List'
- C1 MSP customers should choose the company/department whose group is to be edited
- Click the name of the group to be edited on the left
- Click the 'Group Management' tab on the right

The group management interface for the selected group will open.

© Search group name	Grou	o Management	Device Management			📮 Ad	ld Devices to Group
C All Devices	i 🖗	Ç	G. (Ģ			Q
+ ♣ ABC TV Services ^	Manage Profiles	Rename Group		ove from roup			T
+ 🖶 Coyote	os 🔝	NAME	ACTIVE COMPONENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY
- 🖶 Deer Company		DESKTO	AG AV FW CO	A 1	Deer Compa	ssgalia@ya	2017/03/10 12:
— 😳 Default Group - Deer — 🗳 Default Group		• VMWIN1	AG AV FW CO	Ø	Deer Compa	Impala	2017/03/10 12:
- D Innotek PCs		🌒 samsun	AGAV		Deer Compa	Impala	2017/03/10 12:
Running Staff Default Company	Results per page	20 🗸				ſ)isplaying 1-3 of 3 result:
+ 🖶 Dithers Constructio							

The list of devices included in the group will be displayed, with their details.

	Device Group Details - Column Descriptions
Column Heading	Description
OS	Indicates the operating system of the device.
Name	The name assigned to the device by the user. If no name is assigned, the model number of the device will be used as the name of the device. Grey text color indicates the device has been offline for the past 24 hours. Clicking the device name will open the granular device details interface. See Managing Windows Devices, Managing Mac OS Devices and Managing Android / iOS Devices for more details.
Active Components	 Indicates which components are installed on the device (Agent only, Antivirus, Firewall, Containment) Android devices - The agent will automatically install the AV (antivirus) component. iOS devices - Only the agent (ITSM client) will be installed Windows endpoints - Available components are - Agent, AV, FW (firewall) and Containment. Mac OS endpoints - Available components are - Agent and AV
Patch status	Indicates the number patches available for all added Windows endpoints. Patch status icons are as follows: • •<
Company	Indicates the name of the company to which the device is enrolled.
Owner	Indicates the device user. Clicking the user name will open the 'View User' interface. See Viewing the User Information for more details.
Last Activity	Indicates the date and time at which the device last communicated with the ITSM agent.

Trust Online

Sorting, Search and Filter Options

- Clicking on any of the 'OS', 'Name', 'Patch Status', 'Company', 'Owner' and 'Last Activity' column header sorts the items based on alphabetical or ascending/descending order of entries in that column.
- Clicking the funnel button I at the right end opens the filter options that allows to search for a particular device.
- 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'.
- By default ITSM 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 add new devices to a group

- · Click the 'Devices' link on the left and choose 'Device List'
- · C1 MSP customers should choose the company/department whose group is to be edited
- · Click the name of the group to be edited on the left
- Click the 'Group Management' tab on the right
- 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:

د 📴 Group	Management [Device Manageme	ent				Add Devices to Group
Manage Profiles	Rename Group						C T
os 🔤	NAME	ACTIVE COM	PONENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY
	DESKTOP-TT	A AG AV F		A 1	Deer Company	ssgalia@yahoo.c	2017/03/10 02:02:43
Results per page:			/				Displavino 1 of 1 results
Croup I	Management [Device Manageme	ent			+	Back to Group View
	./						O
Add Selected Devices	Ł						Ţ
os 🔤	NAME	ACTIVE COM	PONENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY
	VMWIN10CO			\odot	Deer Company	Impala	2017/03/10 02:17:46
	samsung_SM	. AG AV			Deer Company	Impala	2017/03/10 02:13:22
	Sony Ericsson	. AG AV			Deer Company	Impala	2016/08/07 02:25:53
Results per 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

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top right.

A confirmation dialog will appear.

Add Selected Devices	Close
Do you really want to add selected device(s) to the device group?	
Confirm Ca	incel

• 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 **Viewing and Managing Device Group Membership**.

To remove devices from a group

- · Choose the devices to be removed from the device group details interface
- Click 'Remove from Group'

、 皆	Group	Management	Device Management				- 🛱	Add Devices to Group		
	Profiles	Rename Group	Delete Device Re Group	emove from Group				O T		
	OS	NAME	ACTIVE COMPO	NENTS	PATCH STATUS	COMPANY	OWNER	LAST ACTIVITY		
		DESKTOP-TT	AG AV FW	CC	<mark>A</mark> 1	Deer Company	ssgalia@yahoo.c	2017/03/10 02:30:55		
	4	• VMWIN10CO	A AG AV FW		0	Deer Company	Impala	2017/03/10 02:32:58		
	, Maria	samsung_SM	AGAV			Deer Company	Impala	2017/03/10 02:13:22		
\forall		Sony Ericsso		V		Deer Company	Impala	2016/08/07 02:25:53		
a quite a stream		Remove	e from Grou	qu		Clos	e			
		Do you really want to remove selected device(s) from device group?								
			Confirm Cancel							

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. See Viewing

and Managing Device Group Membership, for more details.

To rename a group

- Click on the 'Rename' button at the top.
- Alternatively, move your mouse over the group name in the left pane and click the pencil icon.

、 皆	Group	Management	Device	Managen	nent	Search group name
Ĺ	2	(🕏)				C All Devices
Manage	e Profiles	Rename Group			Remo Ge	* 🖶 ABC TV Services
		\smile				🔹 🖶 Chennai IT Services
	08	NAME	A	CTIVE CON		* 🖶 Coyote
		DESKTOP-TT	Г 🔺	AG		– 🖶 Deer Company
	11	VMWIN10CC) A			— 🕒 Default Group - Deer Company
		• VINITIATOGE		AG (A)		— 🕒 Default Group
	1 I I	samsung_SN	И	AG AV		— 😳 Innotek PCs
						— 🖾 Running Staff 💦 🔗
						💿 🖶 Default Company
						🛨 🖶 Dithers Construction Company

The 'Rename Group' dialog will open.

Rename Group	Close
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.

5.1.3. Assign Configuration Profiles to a Device Group

Administrators can view configuration profiles currently assigned to the device group, add new profiles or remove existing profiles.

• See Configuration Profiles, for more details on setting up profiles.

To view and manage the profiles applied to a group

• Click the 'Devices' tab on the left and choose 'Device List'

- COMODO Creating Trust Online*
- C1 MSP customers should choose the company/department whose group is to be edited
- Click the name of the group to be edited from the tree on the left
- Click the 'Group Management' tab on the right

The 'Group Management' interface for the selected group will open.

• Click 'Manage Profiles' from the options at the top.

Ø Search group name	< ট Grou	p Management	Device Management	
1 All Devices	E Contraction of the second se			
🕂 🖶 ABC TV Services 🔷	Manage Profiles	Rename Group		
🕂 🖶 Chennai IT Services	\sim			000
+ 🖶 Coyote	os 🔲	NAME	ACTIVE COMPONENTS	PATCH ST
– 🖶 Deer Company		DESKTO	AG AV FW CO	A 1
— 🖳 Default Group - Deer		• VMWIN1	A AG AV FW CO	Ø
— 🖆 Default Group		• VIVIVIII		
— 😳 Innotek PCs		🌒 samsun	AGAV	
— 🖳 Running Staff		Sony Eri	AG AV	
🛨 🖶 Default Company				
Manage Profiles of Running S	Jun			
Remove Profiles OS TYPE PROFILE NAME	-	0\	WNER	Ŧ
Machintosh Profile		co	yoteewile@yahoo.com	
For InnoTek PCs		co	yoteewile@yahoo.com	
For Lenovo Tabs	For Lenovo Tabs coyoteewile@yahoo.com			
imported] For Sony Pt	or Sony Phones coyoteewile@yahoo.com			
Standard Windows Profile for ITSM 6.2 admin				

The list of profiles in effect on the device group will be displayed.

To add a new profile

• Click 'Add Profiles' from the top.

Mai	Manage Profiles of Running Staff					
Add Pr	~					
Ē	Remove Profil	les	٣			
	OS TYPE	PROFILE NAME	OWNER			
	8	Machintosh Profile	coyoteewile@yahoo.com			
Add	Profiles	to Running Staff				
💾 sa	ave		Ţ			
	OS TYPE	PROFILE NAME	OWNER			
		For Bobs PC	coyoteewile@yahoo.com			
		PC with 1TB hard drive	coyoteewile@yahoo.com			
	\bigotimes	For Mac machines in Purchase Dept	coyoteewile@yahoo.com			
	\otimes	For Desk staff	coyoteewile@yahoo.com			
	1	Android devices in Purchase Dept	coyoteewile@yahoo.com			
	Ć	iOS Profile for Purchase Dept	coyoteewile@yahoo.com			

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

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

Tip: You can filter the list or search for a specific profile by using the filter options that appear on clicking the funnel icon at the top right.

The profile will be associated with the group and applied to all the member devices in the group appropriate to the OS type of each device.

To remove a profile from a group

• Select the profile(s) to be removed, from the 'Manage Profiles' interface and click 'Remove Profiles'

Manage Profiles of Running Staff 5 Add Profiles Y Π **Remove Profiles OS TYPE PROFILE NAME** OWNER 63 Machintosh Profile coyoteewile@yahoo.com For InnoTek PCs coyoteewile@yahoo.com -For Lenovo Tabs coyoteewile@yahoo.com [imported] For Sony Phones covoteewile@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

Admins can quickly remove unwanted device group(s) from ITSM. Note - you cannot delete a device group unless it is empty, so remove all member devices first.

To remove a device group

- Click the 'Devices' tab on the left and choose 'Device List'
- C1 MSP customers should choose the company/department whose group is to be edited
- · Click the name of the group to be deleted from the tree structure at the left
- Click the 'Group Management' tab on the right

The 'Group Management' interface for the selected group will open.

- Ensure that there are no devices included in the group. See **removing devices from a group** in **Editing a Device Group** for more details.
- Click 'Delete Device Group' at the top.
- Alternatively, move your mouse over the group name and click the trash can icon.

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<u>،</u>ه Group Management **Device Management** Search group name All Devices 澎 Ŀġ Manage Profiles Rename Group Delete Device ABC TV Servi... Group Chennai IT S... AC Coyote NAME 12 PONENTS CC - 🖶 Deer Company No results found. Default Group -... Default Group Innotek PCs C Running S... ∓ 👜 Default_Com. **Delete Device Group** Do you really want to delete this device group? Confirm

• Click 'Confirm' to apply your changes

The device group will be removed from ITSM.

5.2. Manage Devices

Note: If you haven't done so already, you should first enroll users then enroll their devices.

The 'Device Management' screen contains a full inventory of all mobile devices, Windows and Mac OS endpoints for a selected company/group. The screen also shows the device's connection and patch status, which security components are enabled, last activity and more. From this area you can:

- Enroll new devices for management
- Add or remove profiles on any selected device
- · Install Comodo Client Security and other packages on Windows endpoints
- Install Comodo Antivirus on and other packages on Mac OS endpoints
- Update Comodo Client Security and Comodo Client Communications on windows endpoints
- · Take remote control of Windows and Mac OS devices
- Remotely install apps on mobile devices
- · Run antivirus scans remotely and manage items identified as malware
- Sound an alarm on mobile devices

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- · Send custom text messages to mobile devices
- · Remotely wipe mobile devices
- · Set and reset mobile device lock-screen passcodes
- Remotely lock mobile devices
- Remove devices from ITSM management
- · View detailed information about any device by simply clicking the device name
- · View and edit device owner information by clicking the owner name
- Install the latest OS patches on Windows and Mac OS devices

To open the 'Device Management' interface

- Click the 'Devices' tab on the left and choose '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 ITSM.

IT & Security Manager		■ Device List			<u> </u>			License Options	<u>و</u> +	<u> A</u> Logout (coyotee	wile@yahoo.com)
DASHBOARD	>	Q Search group name	، ใс	Grou	ıp Management	Devi	ce Management				
DEVICES	~	50 Ocaren group name		0.00	-p management						
Device List		원 Show all				₽□	Ē,	Þ	C	🔹 🙎	
Bulk Installation Package		+ 🖨 ABC TV Services	Enroll D	evice	Remote Control	Run Proced	lure Manage Profiles		Refresh Device	Reboot Owner	More
	>	🔸 🖨 Chennai IT Services	_					Packages	Information		
CONFIGURATION TEMPLATES	>	+ 🖨 Coyote	Q	Searc	ch for devices						
	>	+ 🖶 Deer Company + 🖶 Default Company		OS	NAME		ACTIVE COMPONENT	S PATCH STATU	JS COMPANY	OWNER	LAST ACTIVITY
APPLICATIONS	>	+ 🖨 Dithers Construction Co									
SECURITY SUB-SYSTEMS	>	🕞 🖶 Horizon		Ŵ	samsun		AG		Deer Compa	a Greg Wonde	2018/03/07 11:
CERTIFICATES	>	 → ➡ Kanchi Customer → ➡ kanchiidly 			• DESKTO	4	AG AV FW CO	0	Dithers Con	Dyanora	2018/03/07 11:
SETTINGS	>	+ 🖶 Sky walk		١ ڳ	Avanti T		AGAV		Deer Compa	a avantistude	2018/03/07 11:
					New OS				Dithers Con	Dyanora	2017/10/20 02:
					• CW002	A	AG AV FW CO	(8) 3	Deer Compa	a coyoteewile	2018/03/07 11:
										lanada	

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):					
	White - CCS is not installed on the endpoint					
	Gray - Outdated clients. Comodo Client Communication (CCS) and/or Comodo Client Security (CCS) on the endpoint require updates.					
	Note. This status will only be shown on endpoints that have CCC 6.16 or higher and CCS 10.0 or higher installed.					
	Red - The endpoint is at risk. A security component (AV, FW or Containment) may have been disabled by the user.					
	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.					
	Green - The endpoint is secure. All installed components are up and running.					
	😽 Blue - CCS is running in 'Silent Mode'.					
	Note : CCS allows users to switch it o 'Silent Mode' if they do not want to be disturbed while carrying out important tasks or when playing games. Alerts and notifications are suppressed and operations that could interfere with their work are postponed.					
	- Communication with CCS on the endpoint has been lost.					
Active Components	Indicates which modules are installed on the device. Possible components are 'Agent', 'Antivirus' (AV), 'Firewall' (FW) and 'Containment'.					
	 Android devices - The agent will automatically install the AV (antivirus) component. 					
	 iOS devices - Only the agent (ITSM client) will be installed 					
	 Windows endpoints - Available components are - Agent, AV, FW (firewall) and Containment. These components are installed automatically when a profile featuring the components is installed. 					
	Mac OS endpoints - Available components are - Agent and AV					
	Component status is indicated by color:					
	Green – Installed and active					
	Gray – Installed but disabled by profile setting					
	 Blue (only applies to the 'Containment' module) – The containment module is baselining the device. During the baseline period, unknown files are auto- submitted to Valkyrie for analysis, but are not placed in containment. See Baseline 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:					

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	 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 / ITSM 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 ITSM agent.

• Click a column header to sort the table in ascending/descending order of items 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.

Enroll Device	Remote Control	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Information	Reboot	Owner	Send Message	Passcode	More
O Searc	h for devices									
os	States and the second		ACTIVE COM						LAST	ACTIVITY

- · 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 ITSM.
 - 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:

		0 🕜
ANY ompany	OS Android IOS Vindows Mindows InacOS Linux Online status Online Online Offline Name	
	Name Client security status Client security is not installed Not supported client(s) Secure Silent mode Need attention At risk	

- To filter items based on operating system, select the OS types of the devices to be displayed in the list
- To filter or search for a specific device based on device name, company and/or owner, enter the search criteria in part or full in the respective text boxes and click 'Apply'.

- Enter the start and end dates in the 'From' and 'To' fields to filter devices based on their last activities within the time period.
- You can also filter devices based on their current patch status:
 - Up to date endpoints
 - Critical patches available
 - Missing patches

You can use more than one filter at a time to create more granular searches.

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- By default ITSM 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.

Refer to the following sections for more details on:

- Managing Windows Devices
 - Viewing and Editing Windows Device Name
 - Viewing Summary Information
 - Viewing Hardware Information
 - Viewing Network Information
 - Viewing and Managing Profiles Associated with Windows Device
 - Viewing List of Files on the Device
 - Viewing CCS Configuration Exported from the Device
 - Viewing MSI Files Installed on the Device through ITSM
 - Viewing and Installing Windows Patches
 - Viewing Antivirus Scan History
 - Viewing and Managing Device Group Memberships
 - Viewing Device Logs
- Managing Mac OS Devices
 - Viewing and Editing Mac OS Device Name
 - Viewing Summary Information
 - Managing Installed Applications
 - Viewing and Managing Profiles Associated with the Device
 - Viewing Mac OS Packages Installed on the Device through ITSM
 - Viewing and Managing Device Group Memberships
- Managing Android / iOS Devices
 - Viewing and Editing Device Name
 - Viewing Summary Information
 - Managing Installed Applications
 - Viewing and Managing Profiles Associated with the Device
 - Viewing Sneak Peak Pictures to Locate Lost Device
 - Viewing the Location of the Device
 - Viewing and Managing Device Group Memberships

5.2.1. Manage Windows Devices

The Windows device details page allows you to view device hardware and software details, installed components

and network connection details. You can also manage the configuration profiles in effect on the endpoint, deploy Windows patches, and manage the device's group membership.

View details and manage a Windows device

- Click 'Devices' > 'Device List' on the left
- · Click the 'Device Management' tab above the main configuration pane

The interface shows devices belonging to the company or group selected on the left.

- Select a company and choose a group under it to view devices in that group Or
- Select 'All Devices' to view every device enrolled to ITSM

=	E Devic	e List									
	, os	earch group	name		، ه	Group	p Managen	nent Dev	vice Manage	ment	
	몃	Show all				7		F	1	Ë)	
	+	ABC TV Se	rvices		Enroll I	Device I	Remote Con	trol Run Proc	edure Mana	ge Profiles	
	+	Chennai IT	Services								
	+	Coyote			Q	Search	n for devid	es			
	+	Deer Comp	bany								
	+	🖶 Default Company				OS	NAME		AC	FIVE COMP	ONE
	+	8									
	+	Horizon				- m	san	nsung_SM	A	G AV	
	+	Kanchi Cus	stomer				-				
	+ 🖶 kanchiidly					-	• <u>DE</u>	<u>KTOP-D1</u>		G AV FW	
	+ B Sky walk						Ava	nti Tablet	A	AV	
		-									
DE	SKTOP	D10L0H4									
Ow	ner: Dyanora										
	Ē,		۳D	Ð	-	C	Ó	Ē.	⊑ ₀		
Mana	ige Profiles	Remote Control	Run Procedure	Install or Update Packages		h Device mation	Reboot	Export Security Configuration	Delete Device	More	
Dev	vice Name	Summary	Networks	Associated Pr	rofiles	Softwa	re Inventory	File List	Exported Co	nfigurations	۲
12	Device S	ummary				OS S	ummary				٩,
		vice name	DESKTOP-D10L			OS		Window			
	Name DESKTOP-D10L0H4			OH4		OS na		Micros 10.0.1	Microsoft Windows 10 Pro (x64)		
	Logged user Joe AD\LDAP N/A						ersion ce pack	N/A	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Domain\W	orkgroup	WORKGROUP				version	15063			
	Formfacto		PC			Rebo	ot time	2018/0)3/07 01:10:55 P	M	
1	Model		VirtualBox			Rebo	ot reason		cess C:\Program	n DO Internet	

Click on the name of any Windows device to open the 'Windows device details' pane:

The details screen of the selected device contains a maximum of thirteen tabs. The 'Summary' tab is open by default.

• Device Name - The device label. You can change this as per your preference. See Viewing and Editing

Device Name for more details.

- Summary General details about the device, including device and OS information and performance metrics like CPU, RAM, network and disk usage. See Viewing Summary Information for more details.
- Hardware Hardware configuration of the selected device. See Viewing Hardware Information for more details. Note the 'Hardware' tab will be available only if Comodo RMM agent is installed on the device. See Remotely Installing and Updating Packages on Windows Devices for more details.
- Networks The device's network details. This includes its MAC address, its IP address, currently
 connected networks and more. See Viewing Network Information for more details.
- Associated Profiles Details of the profiles deployed on the device. See Viewing and Managing Profiles Associated with the Device for more details.
- Software Inventory Applications installed on the device. See Viewing Applications Installed on the Device for more details.
- File List Inventory of files on the device along with their file rating ('Unrecognized', 'Trusted' or 'Malicious'). See Viewing List of Files in the Device for more details. Note - the 'File List' tab will be available only if Comodo Client Security is installed on the device. See Remotely Installing and Updating Packages on Windows Devices for more details.
- Exported Configurations Saved Comodo Client Security configuration files. See Viewing CCS
 Configurations Exported from the Device for more details. Note the 'Exported Configurations' tab will
 be available only for devices with Comodo Client Security installed. See Remotely Installing and
 Updating Packages on Windows Devices for more details.
- MSI Installation State .MSI executables that have been installed on the device via ITSM. See Viewing MSI Files Installed on the Device through ITSM for more details.
- Patch Management Lists available patches for the devices and whether they are installed or not. See Viewing and Installing Windows Patches for more details.
- Antivirus Scan History A history of threats identified on all devices and the actions taken by ITSM in response. See Viewing Antivirus Scan History for more details. Note - the 'Antivirus Scan History' tab will be available only if Comodo Client Security is installed on the device. See Remotely Installing and Updating 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 **Viewing and Managing Device Group Memberships** for more details.
- Logs View event logs from activities recorded on the device. See Viewing 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 breaches that occurred fin the past 24 hours on the endpoint.
 - Script Logs Script procedures that were run on the Windows device manually and/or automatically via scheduling in a profile.
 - Patch Logs -Patch procedures that were run on the Windows device manually and/or automatically via scheduling in a profile.

Administrators can remotely perform various tasks on the device using the options at the top of the interface.

Owner: cheff	TTPO9PR								
Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	Run Procedure

Manage Profiles - Allows you to add or remove security configuration profiles to/from the device. These
profiles will be in addition to any group profiles applied to the device. See Assigning Configuration

Profiles to Selected Devices for more details.

- **Remote Control** Access the endpoint over a remote desktop connection. There are two ways to do this:
 - Comodo Remote Control Viewer: Click 'Remote Control' > 'With Comodo Remote Control' to download and install the app. After installation, selecting 'With Comodo Remote Control' will open the desktop of the endpoint, allowing you to take remote control. Refer to 'Remote Management of Windows Devices' for more details.
 - Remote Monitoring and Management (RMM) Console: The RMM Console allows you to remotely monitor, manage and take control of the endpoint. Refer to the online help guide for RMM at https://help.comodo.com/topic-289-1-719-8539-Introduction-to-Remote-Monitoring-and-Management-Module.html for more details.
- Install MSI Packages Remotely install Comodo endpoint security software and third party Windows packages. See Remotely Installing Packages onto Windows Devices for more details.
- Refresh Information Contacts the device and updates displayed information. See Updating Device Information for more details.
- Reboot Remotely restart the device. See Rebooting a Selected Device for more details.
- Export 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 Importing Windows Profiles for more details.
- Delete Device Removes the device from ITSM. See Removing a Device for more details.
- Change Owner Change the user with whom the device is associated. See Changing a Device's Owner for more details.
- Change Ownership Type Changes the 'Bring Your Own Device' (BYOD) status of the device. See 'Changing the ownership status of a Device' for more details.
- Run Procedure Apply procedures on a Windows device. See 'Applying Procedures for Windows Devices for more details.

5.2.1.1. 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 ITSM 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 'All Devices' to view every device enrolled to ITSM
- Click on any Windows device then select the 'Device Name' tab

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DESKTOP- Owner: cheff	TTPO9PR							
🞲 Manage Profiles	Remote Control	Install MSI/Packages	G Refresh Information	Reboot	Export Security Configuration	Delete Device	More	
Device Name	Summary	Hardware	Networks	Associated Pro	ofiles Softwa	re Inventory	File List	Þ
Custom devi DESKTOP-T							Edit	
	ename of device o	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 ITSM agent.
- To change the name of the device, click the 'Edit' button at the right.
 - · 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 ITSM agent on the device.
- Click 'Save' for your changes to take effect.

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DESKTOP Owner: cheff	-TTPO9PR							
😥 Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	More	
Device Name	Summary	Hardware	Networks	Associated Pro	ofiles Softwa	re Inventory	File List	Þ
	-					(🔊 Edit	>
Custom dev DESKTOP-T Allow auto r Enabled		custom name				Cancel 🗈 Sa	ive	
	stom device name DESKTOP-TTPO9P Allow auto renam	R ne of device custom	Restore					

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'.

5.2.1.2. View Summary Information

The 'Summary' tab contains general device information such as operating system details, hardware details, last activity, Comodo software configuration, device user and more.

To view the device information summary

- 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 'All Devices' to view every device enrolled to ITSM
- Click on any Windows device then open the 'Summary' tab (if it is not already open).

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Device Name Summary	Hardware	Networks	Associated Profiles	Software	Inventory	File List	Exported Configurations	MSI Installation State	Patc
Device Summary					OS Sum	mary			
Custom device name	DESK	TOP-TTP09PR			os		Windows		
Name	DESK	TOP-TTP09PR			OS name		Microsoft Win	dows 10 Pro (x64)	
Logged user	Vega				OS versio	n	10.0.14393		
AD\LDAP	N/A				Service p	ack	N/A		
Domain\Workgroup	test.lo	laoc			Build vers	ion	14393		
Formfactor	PC				Reboot ti	ne	15:06 22/03/1	7	
Model	Virtus	Box			Reboot re	ason		:\Windows\System32	
Comodo Client - Communication version	6.3.50	86.17020					initiated the re	er.exe (DESKTOP-TTPO9PR) ha estart of computer DESKTOP- behalf of user DESKTOP-	9
Processor	Intel(i	R) Core(TM) i3-6	100 CPU @ 3.70GHz					a for the following reason: Oth eason Code: 0x0 Shutdown Typ	
Serial number	0						restart Comm		<i>R</i> C.
System model	Virtua	Box			Name Microsoft V	Vindows 10 Pr			
System manufacturer	innote	ek GmbH			Version	10078 1017	v		
Ownership type	Not a	pecified			VBOX - 1 Service Par	sk			
Last connection	16:34	27/03/17			0 Service Pa	k Minor			
Registered	15:12	9/03/17			0 System Tin				
Computer Name									

- Device Summary General device details, including device name, type, OS, model, manufacturer, currently logged-in user, active directory domain, system info, BYOD status and more.
- OS Summary Detailed information about the endpoint OS, service pack status, number of installed applications, last restart time, reason for last reboot, numbers of currently running processes and services and more.
- Comodo ONE Client Security 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** Displays current resource usage, including CPU usage, RAM usage, Network usage and Disk usage.

5.2.1.3. View Hardware Information

This screen contains basic details about the hardware component of the Windows endpoint.

Note: Hardware details will only be available for devices that have the Comodo RMM agent installed. Refer to **Managing ITSM Extensions** and **Remotely Installing and Updating Packages on Windows Devices** for more details.

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 'All Devices' to view every device enrolled to ITSM
- · Click on any Windows device then select the 'Hardware' tab

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DESKTOP- Owner: cheff	TTPO9PR						
Manage Profiles	Install MSI/Packages	G Refresh Information	Reboot	Delete Device	Change Owner	Change Ownership Type	F Run Procedure
Device Name	Summary	Hardware	Networks	Associated F	Profiles S	oftware Inventory	MSI Installation State
Hardware	Information						
Motherboard Oracle Corpo	Manufacturer ration						
Motherboard VirtualBox	Product						
Number Of R 0	am Slots						
Rams Processors							
0 Mod Inte Mar	del I(R) Core(TM) i3-6 ⁻ nufacturer winelntel	100 CPU @ 3.70Gł	łz				

5.2.1.4. 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 'All Devices' to view every device enrolled to ITSM
- · Click on any Windows device then select the 'Networks' tab

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DESKTOP-T	TTPO9PR						
image Profiles	Install MSI/Packages	G Refresh Information	Reboot	Delete Device	Change Own	ner Change Ownership Type	F Run Procedure
Device Name	Summary	Hardware	Networks	Associated I	Profiles	Software Inventory	MSI Installation State
Device Ne	twork №1						
Name		Intel(R) PRO/1000 I Adapter	MT Desktop				
Local addre	ess	10.108.51.203					
Subnet	:	255.255.255.0					
Gateway		10.108.51.1					
DNS 1		10.108.53.8					
DNS 2	I	N/A					
	SS	08:00:27:01:51:5B					
MAC Addre		10.108.53.4					
MAC Addre		10.100.00.4					

5.2.1.5. View and Manage Profiles Associated with a Device

The 'Associated Profiles' tab displays a list of all currently active configuration profiles on an endpoint. A profile may have been applied 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
- Because the device belongs to a device group
- Because the user belongs to a user group

For more details on profiles and groups of profiles, see Configuration Profiles.

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
 - Select 'All Devices' to view every device enrolled to ITSM
- · Click on any Windows device then select the 'Associated Profiles' tab

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DESKTOP- Owner: cheff	TTP09PR						
👘 Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Delete Device	Change Owner	More
Device Name	Summary	Hardware	Networks	Associated Pr	rofiles Sof	tware Inventory	MSI Installation State
NAME Optimum Profile	e for ITSM 5.5		OURCE ASSOCIA	TED		ITION ABOUT ASS	SOCIATION
Purchase Dept			Device			ully processed	
Results per pag	je: 20 🗸						Displaying 1-2 of 2 results.

	Associated Profiles - Column Descriptions
Column Heading	Description
Name	The name assigned to the profile by the administrator. Clicking the name of a profile will open the 'Edit Profile' interface. See Editing Configuration Profiles for more details.
Source Associated	Indicates 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 Assigning Configuration Profiles to Selected Devices for more details
	 Profiles applied to a user are deployed to all devices belonging to them. See Assigning Configuration Profile(s) to a Users' Devices for more details
	 Profiles applied to a user group are deployed to all devices owned by group members. See Assigning 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 Assigning Configuration Profile to a Device Groups for more details
	Clicking on the source opens the respective details interface.
Information about Association	Indicates the status of profile application to the device.

· Clicking the 'Name' column header sorts the items in the alphabetical order of the names of the items

Adding or Removing Profiles

Profiles can be added or removed from the device clicking 'Manage Profiles' option at the top. See **Assigning Configuration Profile to Selected Devices** for more details.

5.2.1.6. View Applications Installed on a Device

The 'Software Inventory' tab displays a list of applications and programs installed on an endpoint.

To view the applications installed on 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

The interface displays devices belonging to the company or group selected on the left.

- Select a company and choose a group under it to view devices in the group Or
- Select 'All Devices' to view every device enrolled to ITSM
- Click the name of any Windows device then select the 'Software Inventory' tab:

DESK Owner:	(TOP-TTPO9P cheff	R					
(Manage P	*	trol Install MSI/Packages	C Refresh Information	Reboot	Delete Device	Change Owner	More
Device	Name Summa		Networks	Associated Pro	files Sof	tware inventory	MSI Installation State
	SOFTWARE			VENDOR		VERSION	INSTALLATION DATE
	Microsoft OneDrive	1		Microsoft Corpo	oration	17.3.6799.032	27 2017/04/21
	Microsoft Visual C+ 9.0.21022	+ 2008 Redistributable	- x86	Microsoft Corpo	oration	9.0.21022	2016/06/27
	OpenOffice			Apache Softwar	re Foundation	4.13.9783	2016/10/31
	Windows 10 Upgrad	de Assistant		Microsoft Corpo	oration	1.4.9200.1736	64 2017/02/09
	COMODO Client - Communication			Comodo		1.0.186.17040	2017/04/21
	Microsoft Visual Co 9.0.30729.6161	+ 2008 Redistributable	- x86	Microsoft Corpo	oration	9.0.30729.616	1 2016/10/31

Installed Apps - Column Descriptions				
Column Heading	Description			
Software	The name of the application. Click the application name to see a list of all devices on which the application is installed.			
Vendor	The publisher of the application.			
Version	The version number of the application.			
Installation Date	The date at which the application was installed.			

· Click 'Update Software Inventory' to retrieve the latest list of applications from the endpoint

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

Patc	h Management	Groups	Logs	
			C	T
E	Software		K	~
	Software			
	Version			
	Version			
	Vendor			
	Vendor			
	Installation Date	i.		
	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.

5.2.1.7. View the Files on a Device

The 'File List' tab displays executable files found on a Windows device along with their trust rating.

To view files on a Windows device:

- Click the 'Devices' tab on the left and choose 'Device List'
- Click the 'Device Management' tab
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click on any Windows device then select the 'File List' tab:

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DESKTOP-HIP8 Owner: Dyanora	1N3					
Manage Profiles Remote	Control Install MSI/Packages		port Security onfiguration	Delete Device	Change Owner	More
Device Name Su	mmary Hardware	Networks Associated Profile	s Softw	are Inventory	File List	Eported Confi
File Details	Change Rating 🗸 📴	Record 🗸 🔛 Import / Export 🗸				O Y
File NAME	FILE PATH	SHA1		ZE COMOL	O RATING	ADMIN RATING
pcflank.exe	C:\Suspicious\PCFlank\P	C 📑 3437369E6B75021F57DE5	- 1 k	76 3 Malicio	us	Not set
Solitaire.dll	C:\Program Files\Window	vs 📑 904526485F77500E65CF3	- 🗂 🕺	2.3 Unreco	gnized	Not set
SkyWrap.dll	C:\Program Files\Window	vs 📑 1E7872A4E0F1EC2E1B2BI	4" M	I.2 Unreco	gnized	Not set
Presentation	C:\Windows\assembly\Na	at 📑 C280F301D9C28DD58A5F	- 🗂 5' kl	17.5 3 Trusted	I	Not set
Microsoft.A	C:\Windows\assembly\N	at 🕂 4CF99A2E9EC59A9BAE30	1	MB Unreco	nized	Not set

File List - Table of Column Descriptions				
Column Heading	Description			
File Name	Displays the file name of the application/executable file.			
File Path	The installation location of the application at the endpoint.			
	 Clicking the icon copies the path to the clipboard. 			
SHA1	Displays the SHA1 hash value of the executable file.			
	 Clicking the icon copies the hash value to the clipboard. 			
Size	The size of the executable file.			
Comodo Rating	Indicates the rating of the file as per the Comodo File Look-up service, reported by the CCS installations at the endpoints			
Admin Rating	Indicates the 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 ITSM . Administrators can review these files and can manually rate them as 'Trusted' or 'Malicious' as required.

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 ITSM.

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
- 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.

Managing 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.

evice Name	Summary	Hardware	Networks	Associated Profiles	Software Inventory	
ile Info De	evice List					
Change R	ating 🗸 📑	Record 🗸				
Name: pcflank.exe						
Path:						
Type: Unknown						
SHA1: 3437369E6B7	5021F57DE5527	7C33EF7B1026E5	2D6			
MD5:						
Version: 1.0						
	Change R Name: pcflank.exe Path: Type: Unknown SHA1: 3437369E6B7 MD5: Version:	ile Info Device List Change Rating - E Change Rating - E Name: pcflank.exe Path: Type: Unknown SHA1: 3437369E6B75021F57DE5527 MD5: Version:	ile Info Device List Change Rating Record Record Name: pcflank.exe Path: Type: Unknown SHA1: 3437369E6B75021F57DE5527C33EF7B1026E5 MD5: Version:	ile Info Device List ile Info Device List ile Info Device List ile Info Device List ile Info Device List Record - Name: pcflank.exe Path: Type: Unknown SHA1: 3437369E6B75021F57DE5527C33EF7B1026E52D6 MD5: Version:	ile Info Device List	ile Info Device List

• The 'Change Rating' button allows you to manually set the file's rating as 'Trusted', 'Malicious' or 'Unrecognized':

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Device Name	Summary	Hardware	Network
File Info De	vice List		
Change Ra	ating 🗸 📑	Record 🗸	
Rate File as	Trusted		
Rate File as	Malicious		
Rate File as	Unrecognized	1	

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	ary Hardware	Networks	Associated Profiles	Software Inventory
File Info Device List				
Change Rating -	Record 🗸			
Name: pcflank.exe	Hide Record			
Path:	Unhide Record			
rout.	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 Sum	imary Har	dware Networks	Associated Profiles	Software Inventory	File List	Exported Configurations
File In	fo Device Li	st				+	Back to Device File List
Ť.	Delete						
	NAME	OWNER	COMPANY	PATH	AGE	RATING ON COMPUTER	VIRUSSCOPE
	DESKTOP- HIP81N3	Dyanora	Dithers Construction Company	C:\Suspicious\PCFlar \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'



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:

	Name S	ummary Haro	lware Networks	Associated Profiles Soft	ware Inventory	File List Expo	rted Configurations
File Inf	fo Device	e List				🔶 🔶 Back	to Device File List
D D	elete						
	NAME	OWNER	COMPANY	РАТН	AGE	RATING ON COMPUTER	VIRUSSCOPE
	DESKTOP- HIP81N3	Dyanora	Dithers Construction Company	C:\Suspicious\PCFlank \PCFlank\pcflank.exe	Apr 25, 2017	Malicious	<u>View</u> procilises
Pro	cess Li	st of Unkn	own file 🗲				
	ocess Li	St of Unkn CREATED AT		ILE PATH		DETAILS	
PID			F	TILE PATH	ank\pcflank.ex		ity
PID	3	CREATED AT	F			e View Activ	-

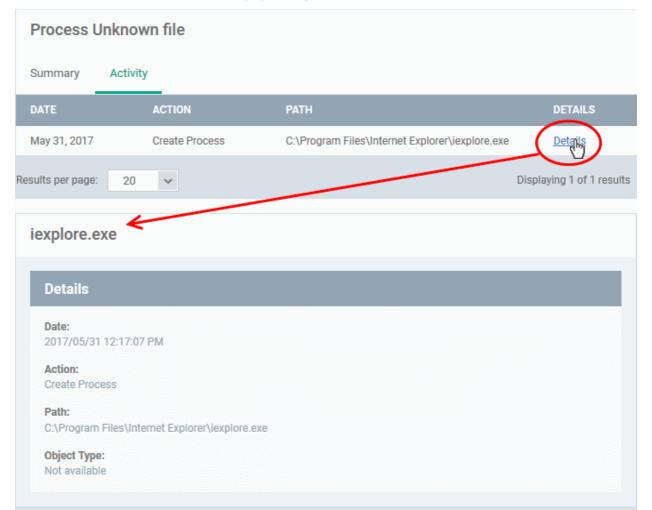
- Click 'View Activity' to see detailed information about each process. The 'Process Activity' interface has two tabs:
 - Summary Displays the name of the device and the installation path of the executable
 - Activity Displays a chronological list of activities by the selected process, including details of files modified by the process.

Process U	Process Unknown file						
Summary	Activity						
DATE	ACTION	PATH	DETAILS				
May 31, 2017	Create Process	C:\Program Files\Internet Explorer\iexplore.exe	Details				
Results per page:	20 🗸		Displaying 1 of 1 results				

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The 'Activity' - Table of Column Descriptions				
Column Heading	Description			
Date	Indicates the date and time of process execution			
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:



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.

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- 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 **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.

ce Name	Summary	Hardware	Networks	Associated Profil	es S	oftware In	ventory
File Details	Change	Rating -	Record 🗸	Import / Export	•		
FILE NAME	Rate File a	is Trusted		SHA1		SIZE	
SkyWrap.dl				1E7872A4E0F1EC2E1B2	BE 📩 🗒	41.2 MB	Unrecognia
Solitaire.dll	C:\Progr	am Files\Windo	ws 📋	904526485F77500E65Cl	3 📑	42.3 MB	Unrecognias
pcflank.exe	C:\Suspi	cious\PCFlank\f	PC 🛄	3437369E6B75021F57D	E5 📩 🤅	176 kB	Malicious
	File Details	File Details Change FILE NAME Rate File a SkyWrap.dl Rate File a Solitaire.dll C:\Progr	File Details Change Rating - E FILE NAME Rate File as Trusted SkyWrap.d Rate File as Malicious Rate File as Unrecognize Solitaire.dll C:\Program Files\Window	File Details Change Rating File NAME Rate File as Trusted Rate File as Malicious Rate File as Unrecognized Solitaire.dll C:\Program Files\Windows	File Details Change Rating File Details Change Rating File NAME Rate File as Trusted SkyWrap.dl Rate File as Malicious Rate File as Unrecognized Solitaire.dll C:\Program Files\Windows	File Details Change Rating File Details Change Rating File NAME Rate File as Trusted SkyWrap.d Rate File as Malicious Rate File as Malicious Rate File as Unrecognized Solitaire.dll C:\Program Files\Windows 904526485F77500E65CF3	File Details Change Rating FILE NAME Rate File as Trusted SkyWrap.dl Rate File as Malicious Rate File as Unrecognized Solitaire.dli C:\Program Files\Windows 904526485F77500E65CF3 MB

Choose the rating you want to from the drop-down:

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 🛛 S	Summary Hardware	Networks	Associated Profiles	Softwa		
EZ F	ile Details	💦 Change Rating 🗸 🤇	Record -	Import / Export 🗸			
	FILE NAME	FILE PATH	Hide Record			SIZE	
	SkyWrap.dll	C:\Program Files	Unhide Record	4E0F1EC2E1B2BE	ġ.	41.2 MB	
	Solitaire.dll	C:\Program Files	Delete Record	I85F77500E65CF3A.	· 🗂	42.3 MB	
	pcflank.exe	C:\Suspicious\PCF	lank\PCF	I37369E6B75021F57DE55.	- d ^{il}	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
- Select 'Show with hidden file(s)' and click 'Apply'

Associated Profiles	Software Inventory	File List	Exported Configurat 🕨
[실] Import / Export -			o 🔽
SHA1 3437369E6B75021F57DE5 C280F301D9C28DD58A5F 40F99A2E9EC59A9BAE30 1 filter Ap	17 Show 11 51 11 Show 11 Show 11 Show	ne	ed file(s) able file(s)

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 Na	ame Sumn	nary Hardwar	e Networks	Asso	ciated Profiles	Softwa	are Inventory	
🗒 File (Details	Change Rating 🗕 🤇	Record -	🛓 In	nport / Export 👻			
E F		FILE PATH	Hide Record				SIZE	
s s	kyWrap.dll	C:\Program Files	Unhide Record	dha	4E0F1EC2E1B2BE	ġ.	41.2 MB	
II S	olitaire.dll	C:\Program Files	Delete Record	Ū	185F77500E65CF3A.	- 63	42.3 MB	
D p	cflank.exe	C:\Suspicious\PC	Flank\PCF 📋	3437369	E6B75021F57DE55.	- 63	176 kB	

The files will be displayed in the permanently.

Export the List of Files

The 'File List' screen allows administrators to save a local copy of a list of files selected from the interface, with their details by exporting the list and saving it as a Comma Separated Values (CSV) file.

To export a list of files

• Select the files to be included in the list and click 'Import / Export' at the top

Devic	e Name Sur	mmary Hardware	Networks	Associated Profiles	Softw	are Inventory	File
E, F	File Details	Change Rating 🗸	Record 🗸 🤇	Import / Export 🗸			
	FILE NAME	FILE PATH		Export to CSV		SIZE	
	SkyWrap.dll	C:\Program Files\Wir	ndowsA	1E7872A4E0F1EC2E1B2BE	- dil	41.2 MB	
	Solitaire.dll	C:\Program Files\Wir	dowsA	904526485F77500E65CF3A	- 61	42.3 MB	Unre co;
	pcflank.exe	C:\Suspicious\PCFla	nk\PCF	3437369E6B75021F57DE55	- 63	176 kB	Malicio
	Presentation	C:\Windows\assemb	ly\Nati 📋	C280F301D9C28DD58A5FA.	- <u>6</u> 1	517.5 kB	Trust ed
			Mati	-105001050505010505050		110	

Choose 'Export to CSV' from the drop-down

The CSV file containing the list of selected files with their details will be downloaded.

Remove files from the list

Items that no longer need to be displayed, can be removed from the 'File List' screen. These files will only be removed from the list and not from the endpoints.

To remove unwanted items from the 'File List' screen

- 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 I	nventory Eile
File Details	Change Rating 🗸	Record -	🔛 Import / Export 🗸		
File NAME	▼ FILE PATH	Hide Record		SIZE	
pcflank.exe	C:\Suspicious\PCF	Unhide Record	B75021F57DE5	176	Malicious
9.		Delete Record		⊔" kB	
Solitaira dil	C-) Drogram Eilee)		4526405577500565052	1 ^{eq} 42.3	

5.2.1.8. View Exported Configurations and Import Profiles

ITSM allows you to create a new Windows profile using the existing CCS configuration on an endpoint. This is useful if you want the current configuration on an endpoint to be rolled out to a number of 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
 - 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.

DESKTOP- Owner: Dyanora										
Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	Run Procedure	
Device Name	Summary	Hardware	Networks	Associated Pro		re Inventory	File List	Exported Configu		ISI 🕨

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 ITSM 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click on the Windows device, then select the 'Exported Configurations' tab

DESKTOP- Owner: Dyanora									
😥 Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	Run Procedure
Device Name	Summary	Hardware	Networks	Associated Profi	les Softwa	re Inventory	File List	Exported Configu	rations MSI
	ME				CREATED	•			
ccs_cor	nflg_2017_04_28_1	11_01_48.xml			2017/04/2	8 04:31:48 PM			
ccs_cor	nfig_2017_04_28_	11_01_04.xml			2017/04/2	8 04:31:04 PM			
Results per pag	je: 20 🗸							Displayir	ng 1-2 of 2 results

The 'Exported Security Configuration' List - Table of Column Descriptions						
Column Heading Description						
File Name	Displays the file name of the exported file.					

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Created	The date and time at which the CCS configuration was exported

 Clicking on any column header sorts the items based on alphabetical or ascending/descending order of entries in that column.

To import and save the security configuration

• Click on the file name that you want to import as a profile

DESKTOP Owner: Dyanor									
Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	Procedure
Device Name	Summary	Hardware	Networks	Associated Prof	iles Softwa	re Inventory	File List	Exported Configu	ations MSI •
FILE NA	ME				CREATED	•			
	nfig_2017_04_28_	11_01_48.xml			2017/04/2	8 04:31:48 PM			
ccs_config_2017_04_28_11_01_04.xml 2017/04/28 04:31:04 PM									
Results per pag	je: 20 🗸							Displayin	g 1-2 of 2 results.

The file will be imported as a .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 delete a file from the list, select it and click 'Delete'
- · Click 'Confirm' to remove the file from the list

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DESKTOP Owner: Dyanora									
Manage Profiles	Remote Control	install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	F Run Procedure
Device Name	Summary	Hardware	Networks	Associated Prof	iles Softwa	re Inventory	File List	Exported Configu	rations MSI >
FILE NA	ME				CREATED	-			
CCS_CO	nfig_2017_04_28_	11_01_48.xml			2017/04/2	8 04:31:48 PM			
CCS_CO	nfig_2017_04_28_	11_01_04.xml			2017/04/2	8 04:31:04 PM			
Results per pag	je: 20							Displayir	ng 1-2 of 2 results.
		elete Export		rt policies?		Confirm	Cancel		

5.2.1.9. View MSI Files Installed on the Device through ITSM

You can remotely install ITSM packages on to managed endpoints. These may be Comodo applications or thirdparty MSI packages. See **Remotely Installing Packages onto Windows Devices**, for more information on remote deployment of MSI packages.

To view MSI file installation list on 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of any Windows device then select the 'MSI Installation State' tab

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Owner: Dyanora	HIP81N3								
B		Ð	Q	Ľ	Ē	E0	22	-8	≣□
lanage Profiles	Remote Control	Install MSI/Packages	Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	Run Procedure
Summary	Hardware	Networks	Associated Profiles	Software	e Inventory	File List E	xported Configu	urations MSI	Installation Stat
Column 140	I Installation Stat	e							
Delete MS									
Delete MS			STATE				CREATED ¥		
	o Remote Monitor	ing and Manageme		essfully insta	illed		CREATED + 2017/04/24 10	:31:04 AM	
NAME Comod	o Remote Monitor 10 Client - Security		ent Age MSI succ	essfully insta essfully insta					

MSI Installation State - Table of Column Descriptions								
Column Heading	Description							
Name	Displays the URL/file name of the MSI file.							
State	Indicates the installation status of the MSI file.							
Created	Indicates the date and time the MSI file installation command was sent.							

- Clicking on any column header sorts the items based on alphabetical or ascending/descending order of entries in that column.
- To delete an entry from the list, select it and click 'Delete MSI Installation State'.

DECKTOD LUDO1NO

DESKTOP- Owner: Dyanora											
Ē.	-	(D	C	Ċ	Éħ.	Ξo	쓭	.	≣□		
Manage Profiles	Remote Control	Install MSI/Packages	Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	Run Procedure		
Summary	Hardware	Networks /	Associated Profiles	Softw	are Inventory	File List E	xported Config	urations MS	Installation State		
Delete MS	I Installation Stat	e									
			STATE				CREATED -				
Comode	o Remote Monitor	ing and Manageme	nt Age MSI succ	essfully ins	stalled		2017/04/24 10	0:31:04 AM			
Сомор	O Client - Security	v. 8.3.0.5285	MSI succ	essfully ins	stalled		2017/04/24 1	0:31:03 AM			
Results per pag	e: 20 🗸							Display	ing 1-2 of 2 results		
		Delete MSI	states					×			
	Do you really want to delete MSI state?										
						Confirm	n Cance				

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· 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.

5.2.1.10. View and Install Windows and 3rd Party Application Patches

- Windows OS and 3rd party applications have to be kept up-to-date to protect them from vulnerabilities and malicious attacks.
- The 'Patch Management' feature allows administrators to view available patches and deploy patches remotely. Administrators can install multiple patches on a device simultaneously.
 - This section tells you how to patch *individual* devices via the 'Device Details' screen.
 - If you want to install patches on multiple devices instead then go to 'Applications' > 'Patch Management'. See 'Patch Management' for help with this.

Important Note: OS Patches that are hidden by administrators will not be displayed in the device's 'Patch Management' screen. See 'Installing OS Patches on Windows Endpoints' for more details.

To view and install patches and updates on Windows endpoints

- 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 and choose a group under it to view devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
 - Click the name of any Windows device then select the 'Patch Management' tab

Owner: Rich C	yclist									
Ē		≣□	Þ	Q		Ê <mark>↑</mark>	⊑ ₀	2		
anage Profiles	Remote Control	Run Procedure	Install or Update Packages	Refresh Device Information	e Reboot	Export Security Configuration	Delete Device	Owner		
Softwa	re Inventory	File List E	xported Configurat	tions MSI	Installation Sta	te Patch Man	agement A	ntivirus Scan	History Grou	ips L
perating Sy	stem Third F	Party Application	ns							
		Party Application	ns							
Operating Sy		Party Application	ns							
	tch(es)	Party Application	ns	КВ	BULLETIN	CLASSIFICATION	SEVERITY	REBOOT	RELEASE DATE	STATU
Install Pa	tch(es)		al Code Dictionary	кв 2734786	BULLETIN	CLASSIFICATION Definition Update	SEVERITY Unspecified	REBOOT		STATU

The interface contains two tabs:

- Operating System Shows all previously installed patches and patches that are awaiting installation on the device. Each patch contains additional details such as classification, severity, release date, installation status and links to knowledgebase articles. You can remotely install selected patches on the endpoint from this interface. See View and Install Windows Patches for more details.
- 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. You can remotely update selected applications on the device from
 this interface. See View and Install 3rrdParty Application Patches for more 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 and choose a group under it to view devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of any Windows device then 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 hiding patches in Install OS Patches on Windows Endpoints.

Devic	e Name Summary Networks Associated	Profiles	Software Invent	tory MSI Installat	ion State	Patch Manage	ement Grou	ips Log
Opera	ting System Third Party Applications							
8 2 I	nstall Patch(es)							Ţ
	TITLE	КВ	BULLETIN	CLASSIFICATION	SEVERITY	REBOOT	RELEASE DATE	STATUS 🔺
	Microsoft Silverlight (KB4023307)	4023307		Feature Pack		No	2017/06/13	Available
	Definition Update for Windows Defender Antivirus - KB2267602 (Definition 1.263.1142.0)	2267602		Definition Update		No	2018/03/26	Available
	Update for Japanese Microsoft IME Postal Code Dictionary (KB2734786)	2734786		Definition Update	Unspecified	No	2015/07/10	Installed
	Update for Japanese Microsoft IME Standard Extended Dictionary (KB2734786)	2734786		Definition Update	Unspecified	No	2015/09/07	Installed
	Update for Windows 10 (KB4023057)	4023057		Critical Update		No	2018/03/08	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. 						
КВ	The knowledgebase article number that describes the patch.Click the number to view the Microsoft Knowledgebase article web page.						

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Bulletin	The Microsoft Bulletin number that contains details about the patch release.
	Click the number to view the respective 'Microsoft Security Bulletin' page.
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 problem but not a 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.
	 Upgrades - Updates the Windows OS version on the endpoint to the latest build.
Severity	The criticality of the patch. The severity levels are:
	Critical
	Important
	• Low
	Moderate
	Unspecified
Reboot	Whether or not the endpoint requires a restart to complete the patch installation.
Release Date	The date on which the patch was released by Microsoft
Status	Indicates whether the patch has been installed on the device or not.

- 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.
 - 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'.

To install missing patch(es) on the device

- Identify and review patch(es) with a status of 'Available'
 - To simplify this, use the filter funnel to display only patches that are 'Available'
- Select the patches you wish to install
- Click 'Install Patch(es)'

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< So	ftware Inventory	File List	Exported Configura	ations	MSI Installation S	tate Patch Manag	jem ent
Oper	ating System	Third Party Ap	plications				
8	Install Patch(es)						
	TITLE			КВ	BULLETIN	CLASSIFICATION	SEV
	Definition Update KB2267602 (Defi			2267	602	Definition Update	
	Microsoft Silverli	ght (KB4023807)		4023	307	Feature Pack	
	Update for Japan Dictionary (KB27)		Postal Code Patch(es) succe	2734 essfully ad		Definition Update	
			queue.				

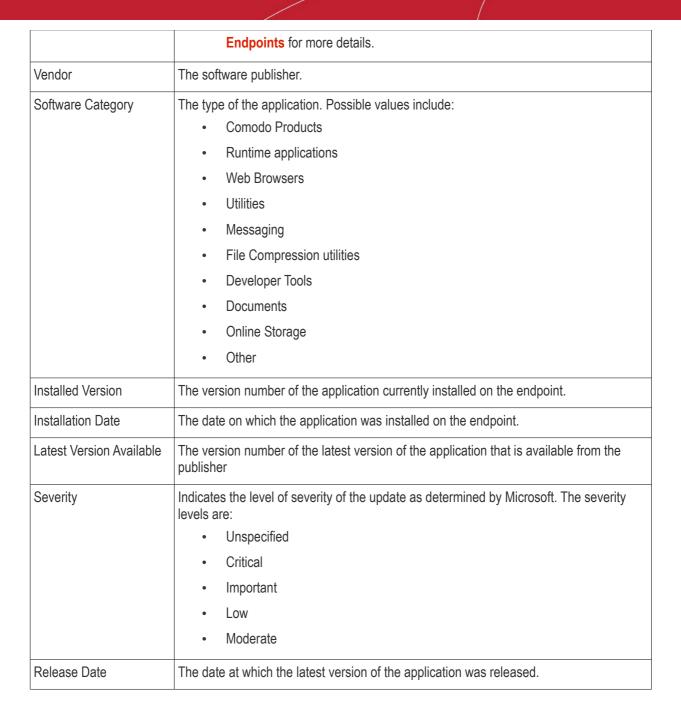
A success message will be displayed. The command will be sent and a schedule will be created for installation of the selected patch(es) on the endpoint.

View and Install 3rd Party Application Patches

- 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 and choose a group under it to view devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of any Windows device then select the 'Patch Management' tab
- Click the 'Third Party Applications' tab:

< So	ftware Inventory	File List E	xported Configurations	MSI Installation State	Patch Management	Antivirus Scan History Gro	ups Logs	
Oper	rating System T	hird Party Applic	ations					
82	Install Patch(es) -							O Y
	SOFTWARE NAME	VENDOR	SOFTWARE CATEGORY	INSTALLED VERSION	INSTALLATION DATE	LATEST VERSION AVAILABLE	SEVERITY	RELEASE DATE
	Microsoft OneDrive	Microsoft	Other	17.3.6743.1212	2018/02/06	17.3.7073.1013	Unspecified	2018/02/06

Third Party Applications - Column Descriptions						
Column Heading	Description					
Software Name	 The name of the 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 					



- 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 patches by various criteria, including by software/vendor name, by whether a patch is available, or by patch severity.
 - 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'.

To update 3rd party applications

Select the application(s) to be updated and click 'Install Patches'

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< So	ftware Inventory	File List E	xported Configurations	MSI Installation State	Patch Management
Oper	rating System T	hird Party Applic	ations		
8	Install Patch(es)				
Up	date to the Latest V	ersion دانس OR	SOFTWARE CATEGORY	INSTALLED VERSION	INSTALLATION DAT
Up	date to a Specific V	/ersion			
0	Microsoft OneDrive	Microsoft Corporation	Other	17.3.6743.1212	2018/0 2/06

- To update the application to the latest available version, choose 'Update to Latest Version' from the options.
- To update the application to a particular version, choose 'Update to a Specific Version' from the options. The 'Update to a Specific Version' dialog will appear. Select the version you wish to install from the drop-down and click 'Send'.
- A command will be sent to the endpoint to schedule installation of the patch.
- Once the command is received, Comodo Client Communication (CCC) on the endpoint will check whether the update is available on any other devices in the local network.
 - If the update is available, CCC establishes a peer-to-peer network with the device on which the update is available 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, CCC downloads the update from the ITSM patch portal.

See 'ITSM Supported 3rd Party Applications' to view a full list of applications that can be updated.

5.2.1.11. View Antivirus Scan History

The 'Antivirus Scan History' tab of 'Device Details' displays items identified as malware on an endpoint. You can also see the malware's installation path and the action taken against the file.

You only can view virus 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
 - Click the name of any Windows device then select the 'Antivirus Scan History' tab

Note: The 'Antivirus Scan History' tab will be available only for endpoints with Comodo Client Security installed.

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Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	F Run Procedure
I ed Profiles	Software Inve	entory File Lis	t Exported Conf	igurations	MSI Installat	ion State I	Patch Managem	ent Antiviru	s Scan History I
MALWARE NAM	AE PA	атн и	ACTION TAKEN	ACTION	STATUS	SCAN IDENTI	FICATION NUMBE	ER D	ATE
ApplicUnwnt@#	f35ue5 c:\	suspicious/p	Moved to quarantine	Success		00000000000000	00-0000-0000-000	000000000 2	017/04/25 12
ApplicUnwnt@#	#35ue5 c:\	suspicious\p	Moved to quarantine	Success		00000000-000	00-0000-0000-000	000000000 2	017/04/25 12
ApplicUnwnt@4	/35ue5 c:\	suspicious\p	Moved to quarantine	Success		00000000-000	00-0000-0000-000	000000000 2	017/04/25 12
Administrator D	efined c:\	suspicious\p	Moved to quarantine	Success		00000000-000	00-0000-0000-000	000000000 2	017/04/25 12
Administrator D	efined c:\	suspicious\c	Moved to quarantine	Success		000000000000000000000000000000000000000	00-0000-0000-000	000000000 2	017/04/25 12
Application.Win	32.Lea c:\	suspicious\c	Moved to quarantine	Success		00000000-000	00-0000-0000-000	000000000 2	017/04/25 12
Application.Win	32.Lea c:\	suspicious\tr	Moved to quarantine	Success		000000000000000000000000000000000000000	00-0000-0000-000	000000000 2	017/04/27 10
Application.Win	32.Lea c:\	suspicious\tr	Moved to quarantine	Success		000000000000000000000000000000000000000	00-0000-0000-000	000000000 2	017/04/27 10
ApplicUnwnt@#	#1mc1h c:\	suspicious\c	Moved to quarantine	Success		DCAED918-88	09-457E-B19E-19	8FDB909 2	017/04/27 02
						DCAED918-88	09-457E-B19E-19	8FDB909 2	017/04/27 02

	Antivirus Scan History- Table of Column Descriptions
Column Heading	Description
Malware Name	Displays the name of the item identified as malicious.
Path	Displays the installation path/storage location malicious item.
Action Taken	Indicates the action that has been taken on the item.
Action Status	Indicates the status of the action taken on the item.
Scan Identification Number	Indicates the a unique identifier assigned to the AV scan during which the item was identified.
Date	Indicates the date and time at which AV scan was performed.

Sorting, Search and Filter Options

- Clicking on any column header sorts the items based on alphabetical or ascending/descending order of entries in the respective column.
- By default ITSM 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.

5.2.1.12. View and Manage Device Group Membership

The 'Groups' tab of the 'Device Details' interface shows the device groups to which the Windows endpoint belongs. Administrators 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 the Company and choose the group under it to view the list of devices in that group Or
- Select 'All Devices' to view every device enrolled to ITSM
- · Click the name of any Windows device then select the 'the 'Groups' tab

DESKTOP-7 Owner: ssgalia@		1							
Manage Profiles	Takeover	Install MSI/Packages	G Refresh Information	Reboot	Export Security Configuration	Lo elete Device	Change Owner	More	
File List		l Configurations	MSI Installation	State	Patch Management	Antivirus	Scan History	Groups	Logs
Add to Grou	_	Remove from Group	NUM	IBER OF DE	VICES	CREATED BY	CF	REATED	
Default G	iroup	Deer Company	3			Impala	20	16/07/01 12:4	1:54
Innotek P	°Cs	Deer Company	1			coyoteewile@	yahoo.c 20	16/07/12 12:1	7:17
Running	Staff	Deer Company	4			coyoteewile@	yahoo.c 20	17/03/09 04:4	3:36
Results per page	20	~					Displa	aying 1-3 of 3 i	results.

- The interface lists all groups of which the device is a member.
- All group profiles will also be applied to the endpoint.

See **Assigning 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	Displays the name of the group. Clicking the group name allows you to view and edit group details. See Editing a Device Group for more details.
Company	Displays the name of the company for which the group was created.
Number of Devices	Indicates the total number of devices in the group. Clicking the number allows you to view and edit group details. See Editing a Device Group for more details.
Created By	Displays the name of the administrator that created the group. Clicking the name will open the user details interface. See Viewing the Details of a User for more details.
Created	Indicates 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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-	Add to Group	Remov	e from Group		
		E	COMPANY	NUMBER OF DEVICES	CREATED BY
	Default Group)	Deer Company	3	Impala
	Innotek PCs		Deer Company	1	coyoteewile@yah
	Running Staff	:	Deer Company	4	coyoteewile@yah
esul	its per page:	20 🗸			
tesul	Add Devic	ce to Grou	P		Close
Resul	Add Devic	ce to Grou	p ping their nam	les	Close

The 'Add Device to Group' dialog will appear.

- Start typing the name of the group which you want the endpoint to join in the 'Choose Group(s)' field. 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.

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 Co	onfigurations	MSI Installation State P	Patch Management	Antivirus Scan
Ģ	Add to Group	nove from Group			
	GROUP NAME	COMPANY	NUMBER OF DEVI	CES	CREATED BY
	Default Group	Deer Company	3		Impala
	Innotek PCs	Deer Company	1		coyoteewile@yahoo
	Running Staff	Deer Company	4		coyoteewile@yahoo
Resu	ults per page: 20 🗸				
		/			
	Remove from Gr	oup			Close
	Do you really want to	o remove this dev	vice from device group?		
			I	Confirm Ca	ncel

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.

5.2.1.13. View Device Logs

ITSM collects logs from managed Windows devices for various events. Logs are created, for example, when there is a breach of monitoring conditions, when an alert is generated on the device and when a script or patch procedure is executed.

To view logs from 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 devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click on any Windows device then select the 'Logs' tab

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DESKTOP- Owner: Dyanora												
Ē,	<u> </u>	₽□	Ū,	Ø		E∎ n	⊑ <mark>o</mark>	<u>æ</u>				
Manage Profiles	Remote Control	Run Procedure	Install or Update Packages	Refresh Device Information	Reboot	Export Security Configuration	Delete Device	Owner				
∢ ary Netw	vorks Assoc	ciated Profiles	Software Inve	ntory File List	Export	ted Configurations	MSI Insta	llation State	Patch Management	Antivirus Scan History	Groups	Logs
Alert Logs	Monitoring Log	gs Script L	ogs Patch Lo	ogs Third Part	y Patch Log	s						
ALERT NAME		TRIGGER N	AME				TRIGGE	RTYPE	HITS COU	NT (24H PERIOD)		
Default Alert		Folder Size					Monitor	ing	1			
Default Alert		CPU					Monitor	ing	23			
Default Alert		[cloned]To I	list currently running) process			Procedu	ure	1			

The interface has five sub-tabs:

- Alert Logs
- Monitoring Logs
- Script Logs
- OS Patch Logs
- Third Party Patch 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
 - Select a company or a group to view devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- · Click the name of the Windows device you want to view
- Click the 'Logs' tab then 'Alert Logs'

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DESKTOP- Owner: Dyanora	D10L0H4							
B		₽□	þ	Q		E <mark>↑</mark>		
Manage Profiles	Remote Control	Run Procedure	Install or Update Packages	Refresh Device Information	Reboot	Export Security Configuration	More	
Exported	Configurations	MSI Install	ation State P	atch Management	Antivir	rus Scan History	Groups	Logs
Alert Logs	Monitoring Lo	gs Script L	.ogs Patch Lo	ogs Third Part	y Patch Log	S		
ALERT NAME	TRIGGER	NAME		TRIGGE	R TYPE	HITS COUNT	(24H PERIOD)	
Default Alert	Folder Si	ze		Monitor	ing	2		
Default Alert	CPU			Monitor	ing	16		
Default Alert			inning process	Procedu		1		

	Alert Logs - Table of Column Descriptions					
Column Heading	Description					
Alert Name	The name of the alert that generated the log. Different alerts can be configured for specific events.					
	Click the alert name to view and manage the configuration parameters of the alert					
	See 'Manage Alerts' for more details.					
Trigger Name	The name of the monitoring component, procedure or condition that failed.					
	• Click the trigger name to view the configuration parameters of the monitoring settings or the procedure that raised the alert.					
	See Monitoring Settings and Manage Procedures for more details.					
Trigger Type	The category of trigger, either 'Monitoring' or 'Procedure'.					
Hits Count (24 H Period)	The number of instances of this alert in the past 24 hours.					

View Monitoring Logs

- The 'Monitoring Logs' tab shows events detected as breaches on a device.
- The conditions of a breach are specified in the 'Monitoring' section of the profiles in effect on the device.
- Logs are displayed for the past 24 hours.
- For more details, see Monitoring Settings under Profiles for Windows Devices.

To view monitoring logs

- Click 'Devices' > 'Device List'
- Click the 'Device Management' tab



- Select a company or a group to view devices in that group Or
- Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the Windows device you want to view
- Click the 'Logs' tab then 'Monitoring Logs'

DESKTOP- Owner: Dyanora								
Danage Profiles	Remote Control	E Run Procedure	Install or Update Packages	C Refresh Device Information	Reboot	Export Security Configuration	More	
Exported Co Alert Logs	onfigurations Monitoring Lo	MSI Installatio		ch Management ogs Third Part	Antivirus ty Patch Log	Scan History Js	Groups	Logs
MONITOR NAM	IE STATUS	HIT COUNT	(24H PERIOD)	LAST HIT TIME		LAST UPDATE TIN	ИE	DETAILS
CPU	On	1915		2018/03/21 12:19	:05 PM	2018/03/21 12:19	:05 PM	Details
Folder Size	On	2		2018/03/21 11:42	:20 AM	2018/03/21 11:42	:20 AM	Details

	Monitoring Logs - Table of Column Descriptions
Column Heading	Description
Monitor Name	 The name of the monitoring condition in the Windows profile that was violated. Click the name to view and manage the parameters of the monitoring condition. See 'Monitoring Settings' for more details.
Status	The status of the device at the time of last monitoring
Hit Count	The number of times the monitoring condition was breached during the last 24 hours.
Last Hit Time	The date and time the monitoring rule was last broken.
Last Update Time	Indicates the date and time when the information was last updated.
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:

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lert Logs Mor	nitoring Logs	Scrit	pt Logs	Patch	Logs	Third Party	Patch Lo	oas					
	····· ··· · · · · · · · · · · · · · ·							- 3-					
IONITOR NAME	STATUS	HIT COU	NT (24H PER	IOD)	LAST H	T TIME		LAS	T UPDA	TE TIME		DE	ETAIL
PU	On	1954			2018/0	/21 12:26:5	PM	201	8/03/21	12:26:50	PM	De	etails
						La d							
Log Detail 🗲												←	Bac
Log Detail ←												←-	Bac
Log Detail	kets											←-	Bac
	kets												Bac
		TATUS	ADDITIONA	AL INFO	DRMATION								Bac
Statuses Tick		TATUS	ADDITIONA	L INFO	DRMATION							←	Bacl
Statuses Tick	ST		RAM Moni		DRMATION Threshold	is GREAT	R THAN	10 %-	Usage	is 56	% AND		Moni
Statuses Tick	ST					is GREATI	R THAN	10 %-	Usage	is 56	% AND		
Statuses Tick TIME 2018/03/21 12:26:5	50 PM 01	N	RAM Moni [.] <	tor :								СРՍ	Moni
Statuses Tick	50 PM 01	N	RAM Moni [.] <	tor :	Threshold							СРՍ	Moni
Statuses Tick TIME 2018/03/21 12:26:5	9 PM 01	N	RAM Moni < RAM Moni <	tor : tor :	Threshold	is GREAT	r than	10 %-	Usage	is 56	% AND	CPU CPU	Moni > Moni >

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.

Moni	toring 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.

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Log Detail		🔶 Back
Statuses Tickets		
LINK	STATUS	CREATED ON
https://coyote.servicedesk.comodo.com/scp/tickets.php?id=780	Open	2018/03/19 02:21:37 PM
https://coyote.servicedesk.comodo.com/scp/tickets.php?id=780	Open	2018/03/19 01:58:56 PM
https://coyote.servicedesk.comodo.com/scp/tickets.php?id=780	Open	2018/03/19 01:51:12 PM
https://coyote.servicedesk.comodo.com/scp/tickets.php?id=780	Open	2018/03/19 01:44:15 PM

Mor	itoring 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
 - Select a company or a group to view devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the Windows device you want to view
- Click the 'Logs' tab then 'Script Logs'

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DESKTOP-D Owner: Dyanora	010L0H4								
Danage Profiles	Remote Control	F	Install or Update Packages	Refresh I Informa	Device Rebo		ırity Delete	Device Owner	
Exported Con Alert Logs	figurations Monitoring Log	MSI Installation		tch Manage _ogs T	ment Anti hird Party Patcl	virus Scan History h Logs	/ Group	s Logs	
PROCEDURE NAME	STARTED #	AT STARTED	вү	LAUNCH TYPE	EXECUTED BY	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAILS
[cloned]To list currently running process	2018/03/2 04:04:58 P	covotoowi	ile@yahoo.com	RunOver	Logged in User	2018/03/20 04:04:59 PM	Failed	2018/03/20 04:04:59 PM	Details
Finance dept script	2018/03/2 04:04:25 P	covoteewi	le@yahoo.com	RunOver	Logged in User	2018/03/20 04:04:25 PM	Finished	2018/03/20 04:04:25 PM	Details

Column Heading	Description
Column neading	Description
Procedure Name	The name 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	Indicates who or what launched the procedure.
	• The profile name will be shown here if the procedure was run as scheduled in a configuration profile active on the device.
	The admins email address will be shown if the procedure was manually initiated.
Launch Type	Indicates whether the procedure was scheduled or run manually.
Executed By	The user account type used by ITSM 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

• Click the 'Details' link to view details about a procedure's execution:

(wentory F	ile List	Exported 0	configurations	MSI Install	ation State	Patch Manag	jement An	tivirus Scan Hi	story Groups	Logs
Alert Logs	Monitori	ng Logs	Script Logs	Patch Logs	Third Pa	arty Patch Logs				
PROCEDURE NA	ME	STARTED AT	STARTED B	Y	LAUNCH TYPE	EXECUTED BY	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAILS
Monitor permise No.of processes		2018/03/21 01:34:26 PM	coyoteewile	@yahoo.com	RunOver	LocalSystem User	2018/03/21 01:34:53 PM	Failed	2018/03/21 01:34:53 PM	
[cloned]To list currently running process	9	2018/03/21 01:33:05 PM	coyoteewile	@yahoo.com	RunOver	Logged in Veer	2018/03/21 01:33:09 PM	Failed	2018/03/21 01:33:09 PM	Details

Log Detail					🔶 Back
Statuses Tickets					
TIME	STATUS	ADDITIONAL INFORMATION			
		USER NAME: DESKTOP-D10L0H4\$ IP-ADDRESS: 10.108.51.208 65 Processes Are currently The count limit Exceeded Top RAM memory consuming pro	0		
		Image Name	PID Session Name	Session#	Mem Usage Status
		TiWorker.exe	7540 Services	0	319,048 K Unknown
		cavwp.exe	956 Services	0	134,680 K Unknown
		Memory Compression	1096 Services	0	67,712 K Unknown
		svchost.exe	5500 Services	0	52,412 K Unknown
2018/03/21 01:34:53 PM	Failed	explorer.exe	3972 Console	1	50,076 K Unknown
		Top cpu consuming processes			
		Image Name	PID Session Name	Session#	Mem Usage Status
		System Idle Process	0 Services	0	8 K Unknown
		sychost exe	5500 Services	0	52 412 K Unknown

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:					



Tickets - Displays tickets raised for any failed procedures.

Log Detai	il			🗲 Back
Statuses	Tickets			
LINK	STATUS	CREATED ON		
https://coyot	te.servicedesk.comodo.com/scp/tickets.php?id=780	Open	2018/03/19 12:22:25 PM	
https://coyot	te.servicedesk.comodo.com/scp/tickets.php?id=780	Open	2018/03/19 12:16:57 PM	
	« Prev		Next »	

Script	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
 - Select a company or a group to view devices in that group

Or

- Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the Windows device you want to view
- Click the 'Logs' tab then 'Patch Logs'

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DESKTOP	-D1OLOH4									
Ē	D	≣□	Þ	S			⊑ <mark>⊗</mark>	ক্র		
Manage Profiles	Remote Control	Run Procedure	Install or Update Packages	Refresh Device Information	e Reboot	Export Security Configuration	Delete Device	Owner		
iventory	File List Ex	ported Configura	ations MSI In	stallation State	Patch M	anagement A	ntivirus Scan Hi	story (Groups	Logs
Alert Logs	Monitoring Lo	gs Script L	.ogs Patch Lo	ogs Third I	Party Patch Lo	gs				
Alert Logs PROCEDURE N		gs Script L STARTED AT	ogs Patch Lo	<u> </u>	Party Patch Lo LAUNCH TYPE	gs FINISHED AT	STATUS	LAST STA	ATUS	DETAIL
Ū	AME			l	LAUNCH	5	STATUS Finished success		20	DETAIL Details
PROCEDURE N	AME	STARTED AT 2018/03/20	STARTED BY	yahoo.com f	LAUNCH	FINISHED AT 2018/03/20	Finished	UPDATE 2018/03/	20 PM 20	

Patch Procedure Logs - Table of Column Descriptions						
Column Heading	Description					
Procedure Name	 The name 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	 Indicates who or what launched the procedure. The profile name will be shown here if the procedure was run as scheduled in a configuration profile active on the device. The admins email address will be shown if the procedure was manually initiated. 					
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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ventory File List	Exported C	onfigurations	MSI Installation	State Fato	Management	Antivirus Scan H	listory Groups	Logs
Alert Logs Monitorir	ng Logs	Script Logs	Patch Logs 1	Third Party Patch	Logs			
PROCEDURE NAME	STARTED	DAT S	STARTED BY	LAUNCH	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAIL
New patch	2018/03/ 04:10:26		coyoteewile@yahoo.con	n Run Over	2018/03/20 04:10:26 PM	Finished success	2018/03/20 04:10:26 PM	Details
	2018/03	/20		Dura D	2010/20/20	Finished	2018/03/20	
Statucas Tio	kote							
Statuses Tic	kets	STATUS	AI	DDITIONAL IN	IFORMATION			
		STATUS Finished			IFORMATION	ceeded.		
TIME	26 PM		success Pr	rocedure op	peration suc		succesfully.	
TIME 2018/03/20 04:10:2	26 PM 26 PM	Finished	success Pr	rocedure op esolving P	peration suc	completed	succesfully.	

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					🔶 Back
Statuses	Tickets				
LINK		STATUS	CREATED ON		
https://coyot	e.servicedesk.comodo	.com/scp/tickets.php?id=780	Open	2018/03/19 12:22:25 PM	
https://coyot	e.servicedesk.comodo	.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					
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 Logs' tab shows procedures for updating third party applications.
- This includes procedures that were manually run on Windows devices and 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
 - Select a company or a group to view devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the Windows device you want to view
- Click the 'Logs' tab then "Third Patch Logs'

l Profiles Soft	ware Inventory File Li	ist Exported Configura	tions MSI In	stallation State Pa	atch Management Antivirus	Scan History Groups	Logs
Alert Logs Mo	nitoring Logs Script	Logs Patch Logs	Third Party Patcl	h Logs			
PROCEDURE NAME	STARTED AT	STARTED BY	LAUNCH TYPE	FINISHED AT	STATUS	LAST STATUS UPDATE	DETAILS
Chrome Update	2018/03/20 04:12:45 PM	coyoteewile@yahoo.com	Run Over	2018/03/20 04:12:45 PM	Procedure operation success	2018/03/20 04:12:45 PM	Details
Chrome Update	2018/03/20 04:12:41 PM	coyoteewile@yahoo.com	Run Over	2018/03/20 04:12:41 PM	Procedure operation success	2018/03/20 04:12:41 PM	Details
Firefox update	2018/03/20 04:09:22 PM	coyoteewile@yahoo.com	Run Over	2018/03/20 04:12:36 PM	Procedure operation success	2018/03/20 04:12:36 PM	Details
On-demand patching	2018/03/15 10:01:56 PM	coyoteewile@yahoo.com	On Demand	2018/03/15 10:02:45 PM	Overall operations success	2018/03/15 10:02:45 PM	Details

Third Party Patch Logs - Table of Column Descriptions					
Column Heading	Description				
Procedure Name	 The name 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. 				

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	See 'Manage Procedures' for more details.
Started At	The date and time when the procedure commenced.
Started By	Indicates who or what launched the procedure.
	• The profile name will be shown here if the procedure was run as scheduled in a configuration profile active on the device.
	The admins email address will be shown if the procedure was manually initiated.
Launch Type	Indicates whether the procedure was scheduled or run manually.
Finished At	The date and time when the procedure was completed.
Status	Indicates 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	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 explanation of View Details of Third Party Patch Procedure Logs given below.

View Third Party Patch Procedure Log details

• Click the 'Details' link to view details about a procedure's execution:

I Profiles Exported Configurations MSI Installation State Antivirus Scan Histor Software Inventory File List Patch Management Alert Logs Monitoring Logs Script Logs Patch Logs Third Party Patch Logs PROCEDURE LAUNCH LAST STATUS STATUS DETAILS STARTED AT STARTED BY FINISHED AT TYPE NAME UPDATE 2018/03/20 2018/03/20 Procedure 2018/03/20 Detai Chrome Update coyoteewile@yahoo.com Run Over 04:12:45 PM 04:12:45 PM 04:12:45 PM operation success 2018/03/20 2018/03/20 2018/03/20 Procedure I Profiles Software Inventory File List Exported Configurat MSI Installation State Patch Management Antivirus Scan Histor Alert Logs Monitoring Logs Patch Logs Third Party Patch Logs ot Logs Log Detail Statuses Tickets TIME STATUS ADDITIONAL INFORMATION Procedure 2018/03/20 04:12:45 PM Software Procedure Operation is completed. Requested softwares are up to date. operation success Procedure 2018/03/20 04:12:45 PM Google Chrome exist and already updated to requested version 65.0.3325.162. operation started Procedure resolve 2018/03/20 04:12:45 PM Resolving Software Procedure is completed. success Procedure resolve 2018/03/20 04:12:45 PM Resolving Software Procedure is started. started Results per page: 20 Displaying 1-4 of 4 results

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.

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Inventory	File List	Exporte	ed Configurations	MSI Installa	tion State	Patch Management	Antivirus Scan History	Groups	Logs
Alert Logs	Monitorin	g Logs	Script Logs	Patch Logs	Third Part	y Patch Logs			
Log Detail								-	- Back
Statuses	Tickets								
LINK			STATUS			CREATED ON			
No results for	und.								

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.					

5.2.2. Manage Mac OS Devices

The Mac OS device details page shows OS and software details, installed applications, security information from Comodo Antivirus, network connections and more. Administrators can also manage configuration profiles for the endpoint, remotely install Mac OS packages and manage group membership.

To view and manage a Mac OS 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

The interface displays devices belonging to the company or group selected on the left.

- Select the Company and choose the group under it to view the list of devices in that group Or
- Select 'All Devices' to view every device enrolled to ITSM
- Click the name of any Mac OS device to open its 'Device Details' pane:

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	anager		ist					
DASHBOARD	>							
DEVICES	~	D Sea	rch group name	× لو	Group Mar	nagement De	vice Management	
Device List		A O	II Devices	Ģ	1	- 70	1 🗒	
Bulk Installation Pa	ackage		ARR	Enroll De	-	te Control Run Proc		ofiles
S USERS	>		efault Company					
CONFIGURATION T	EMPLATES >	+ 🖨 k	amal		OS N	IAME	ACTIVE COM	PON
	DE	- 🖶 🖨 p	radeep					
	RE >	+ 🖨 v	ictory			DESKTOP-TFHN0	AG CCS	
APPLICATIONS	>				0	New macOS device	ce DG AV	
SECURITY SUB-SYS	STEMS >				\sim	DESKTOP-E1JMP		
SETTINGS			-			r DESKTOP-ETSMP		
lanage Profiles Rem	ote Control Ir	nstall macOS Packages	Refresh Device Information	Full Wipe	Lock	Delete Device	Owner	
	Summary	Installed Apps	Associated	Profiles	Packages	Installation Stat	e Groups	
Device Name								
Device Name				OS Sum	mary			
Device Summ	nary	acOS device			mary	macOS		
_	nary	acOS device	1	OS Sum OS OS versio		macOS		
Device Summ Custom device	nary New m	acOS device acOS device	1	OS	n	macOS N/A		
Device Summ Custom device name	nary New m	acOS device		OS OS versio	on sion			
Device Summ Custom device name Name Device type Model	nary New m	acOS device		OS OS versio Build vers	on sion	N/A		
Device Summ Custom device name Name Device type Model Wi-Fi MAC	New m New m Unknov N/A N/A	acOS device		OS OS versio Build vers	on sion	N/A		
Device Summ Custom device name Name Device type Model Wi-Fi MAC Last connection	New m New m Unknov N/A N/A 2018/0	acOS device wn)1/25 06:34:38 P		OS OS versio Build vers	on sion	N/A		
Device Summ Custom device name Name Device type Model Wi-Fi MAC Last connection Registered	New m New m Unknov N/A N/A n 2018/0 2018/0	acOS device wn		OS OS versio Build vers	on sion	N/A		
Device Summ Custom device name Name Device type Model Wi-Fi MAC Last connection	New m New m Unknov N/A N/A n 2018/0 N/A	acOS device wn)1/25 06:34:38 P		OS OS versio Build vers	on sion	N/A		

This displays details of the selected device under six tabs. The 'Summary' tab will be displayed by default.

- Device Name The device label. You can change this as per your preferences. See Viewing and Editing Mac OS Device Name for more details.
- **Summary** General details of the device, including device information, OS details, Network details and security configuration. See **Viewing Summary Information** for more details.

- Installed Apps A list of applications currently installed on the device, along with their versions. See Viewing Installed Applications for more details.
- Associated Profiles Details of profiles deployed on the device. See Viewing and Managing Profiles Associated with the Device for more details.
- Package Installation State Mac OS packages that have been installed on the device via ITSM. See Viewing Mac OS Packages Installed on the Device through ITSM for more details.
- **Groups** Device groups to which the endpoint belongs. You can manage group membership from here. See **Viewing and Managing 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 Assigning 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 Antivirus for Mac and other Mac OS packages. See Remotely Installing Packages onto Mac OS Devices for more details.
- Refresh Information Contacts the device and updates displayed information. See Updating Device Information for more details.
- Wipe / Corporate Delete data stored on the device if it is lost or stolen. See Wiping Data from Devices
 for more details
- Lock/Unlock Mac OS Remotely lock or unlock the device if it is lost, misplaced or stolen. See Locking/Unlocking Devices for more details
- Delete Device Removes the device from ITSM. See Removing a Device for more details.
- Change Owner Change the user with whom the device is associated. See Changing a Device's Owner for more details.
- Change Ownership Type Changes the 'Bring Your Own Device' (BYOD) status of the device. See 'Changing the ownership status of a Device' for more details.

5.2.2.1. 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 according to their preferences. If you change a device name, the name will apply in ITSM 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 'All Devices' to view every device enrolled to ITSM
- Click on any Mac OS device then select the 'Device Name' tab

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New mac(Owner: kamal@							
Ē,		6	Ø	0	Ţ.	⊑ <mark>o</mark>	<u>&</u>
Manage Profiles	Remote Control	Install macOS Packages	Refresh Device Information	Full Wipe	Lock	Delete Device	Owner
Device Name	Summary	Installed Apps	Associated	Profiles	Packages I	installation Stat	e Groups
_							
Custom dev New macOS							
Allow auto r	ename of device c	ustom 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 ITSM agent.
- To change the name of the device, click the 'Edit' button at the right.

Installed Apps Packages Installation State Groups Device Name Summary Associated Profiles Custom device name New macOS device Allow auto rename of device custom name Enabled Device Name Summary Installed Apps Associated Profiles Packages Installation State Groups Save \otimes Custom device name New macOS device Restore Allow auto rename of device custom 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 ITSM agent 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'.

5.2.2.2. View Summary Information

The 'Summary' tab displays general information about the device, its operating system, network and installed Comodo software.

To view the device information summary

- 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 'All Devices' to view every device enrolled to ITSM
- Click on any Mac OS device then select the 'Summary' tab (if it is not already open).

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New macc Owner: kamal@								
당 Manage Profiles	C. Remote Control	Install macOS Packages	C Refresh I Informa	Device	O Full Wipe	Lock	Delete Device	Öwner
Device Name	Summary	Installed Apps	Ass	ociated	Profiles	Packages	Installation State	e Groups
Device Su	ımmary				OS Sumn	nary		
Custom de name Name Device typ	New	w macOS device w macOS device mown			OS OS versior Build versi Serial num	ion	macOS N/A N/A	
Model Wi-Fi MAC Last conne			м					
Registered IMEI	201 N/4	8/01/25 06:34:38 Pi	М					
Comodo C Communic version		A						
Ownership	type Not	specified						
Network	Summary							
Bluetooth Wi-Fi MAC								
Ethernet M	IAC N//	Ą						

- **Device Summary** Provides details such as device name, type, model, last polling time of the Comodo Client, BYOD status and more.
- OS Summary Provides details about the Operating System (OS) of the device, OS version and Build version
- Network Summary Displays the MAC addresses of the device for connection through Bluetooth, WiFi and Ethernet to the network.
- **Comodo Antivirus Security Info** Displays details about the Comodo Antivirus for Mac (CAVM) installed on the device, its version number, virus database version and its update status.



5.2.2.3. View Installed Applications

The 'Device Details' interface allows you to view all applications on a managed Mac OS device.

To view the list of applications

- 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 on the left to view a list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click on any Mac OS device then select the 'Installed Apps' tab

Installed Apps - Column Descriptions					
Column Heading	Description				
Application	The name of the application. Clicking the name of the application will open the 'Devices Management' interface, listing only the devices in which the same application is installed.				
Package	Indicates the source of the application, i.e downloaded Mac OS package, from which the application was installed.				
Version	Indicates the version number of the application.				

Sorting and Filtering Options

- Clicking on any column header sorts the items based on alphabetical order of entries in that column.
- Clicking the funnel icon **Y** at the right end opens the filter options.

tate	s Groups	
	Ľ	
_	Application	
	Package	
	Version	

 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.

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New mac(Owner: kamal@								
🕃 Manage Profiles	C. Remote Control	Install macOS Packages	C Refresh Device Information	C Full Wipe	Lock	Delete Device	Öwner	
Device Name	Summary	Installed Apps	Associated	Profiles	Packages	Installation Stat	e Grou	ups
O Update App APPLICATION	olication List	PAC	(AGE			VERSIO	Ç N	Y
	ayer Install Manag		adobe.flashplayer.ir	nstallmanage	r	VENDIO		
Adobe Reader		com.	adobe.Reader			10.1.1		
Advanced Mon	itoring Agent	Adva	ncedMonitoringAge	ent		1.0		
Agent		com.l	COMODO.Agent			2.2.2.4	14	
Alfred 2		com.i	runningwithcrayons	Alfred-2		2.5.1		
app_mode_load	der	com.	google.Chrome.app	.@APP_MOD	E_SHOROD	E_SH. 39.0.2	171.71	

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- By default ITSM 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'

5.2.2.4. View and Manage Profiles Associated with a Device

The 'Associated Profiles' tab lists all currently active configuration profiles on an endpoint. A profile may have been applied 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 of the device
- Because the device belongs to a device group
- Because the user of the device belongs to a user group

For more details on profiles and groups of profiles, see Configuration Profiles.

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
 - Select 'All Devices' to view every device enrolled to ITSM
- Click on any Mac OS device then select the 'Associated Profiles' tab

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Ianage Profiles	Remote Control	Install macOS Packages	Refresh Device Information	Full Wipe	Lock	Delete Device	Owner	
Device Name	Summary	Installed Apps	Associated	Profiles	Packages	Installation Stat	e Grou	os
NAME			SOURCE ASSOCIA	TED	INFORMA	TION ABOUT ASS	SOCIATION	

	Associated Profiles - Column Descriptions
Column Heading	Description
Name	The name assigned to the profile by the administrator. Clicking the name of a profile will open the 'Edit Profile' interface. See Editing Configuration Profiles for more details.
Source Associated	Indicates 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 Assigning Configuration Profiles to Selected Devices for more details
	 Profiles applied to a user are deployed to all devices belonging to them. See Assigning Configuration Profile(s) to a Users' Devices for more details
	 Profiles applied to a user group are deployed to all devices owned by group members. See Assigning 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 Assigning Configuration Profile to a Device Groups for more details
	Clicking on the source opens the respective details interface.
Information about Association	Indicates the status of profile application to the device.

· Clicking the 'Name' column header sorts the items in the alphabetical order of the names of the items

Adding or Removing Profiles

Profiles can be added or removed from the device clicking 'Manage Profiles' option at the top. Refer to the section **Assigning Configuration Profile to Selected Devices** for more details.

5.2.2.5. View Mac OS Packages Installed on a Device through ITSM

• ITSM allows you to remotely install packages on to managed MAC OS endpoints.

- These can be Comodo applications like Comodo Antivirus for Mac (CAVM), or third-party Mac OS packages.
- For more information, see Remotely Installing Packages on Mac OS Devices.

Note: Currently only CAVM can be remotely installed on Mac OS devices from ITSM. Support for other ITSM 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 ITSM

- 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 'All Devices' to view every device enrolled to ITSM
- Click on any Mac OS device then select the 'Packages Installation States' tab

New mac(Owner: kamal@									
Danage Profiles	CONTROL Remote Control	ES Install macOS Packages	C Refresh Device Information	O Full Wipe	Lock	Delete Device	Owner		
Device Name	Summary	Installed Apps	Associated	Profiles	Packages	installation Sta	te Gro	ups	
📋 Delete mac	OS Package Installa	ation State							
NAME				STATE			CRE/	ATED	
Сомо	DO Client - Securit	y v. 2.4.0.235		Command in	the queue		2018	/01/30 04:32:32 PM	
Results per page:	20 🛩							Displaying 1 of 1	results

	MSI Installation State - Table of Column Descriptions
Column Heading	Description
Name	Displays the URL/file name of the Mac OS package.
State	Indicates the installation status of the package.
Created	Indicates the date and time at which the installation command was sent.

- Clicking on any column header sorts the items based on alphabetical or ascending/descending order of entries in that column.
- To delete an entry from the list, select it and click 'Delete macOS Package Installation State'.

New mac(Owner: kamal@								
Manage Profiles	Control	Install macOS Packages	C Refresh Device	O Full Wipe	Lock	Delete Device	Quer Owner	
		Packages	Internetion					
Device Name	Summary	Installed Apps	Associated	Profiles	Packages	Installation Stat	te Gro	ups
Delete mac	:OS Package Installa	ation State						
NAME				STATE			CREA	ATED
Сомо	DO Client - Securit	y v. 2.4.0.235		Command in	the queue		2018	/01/30 04:32:32 PM
Results per page:	20 🛩							Displaying 1 of 1 results
	Delete ma	acOS package	states				×	
	Do you really	y want to delete m	acOS package st	tate(s)?				
					Conf	firm Cane	cel	

Only the chosen entry will be removed from the list but the package will not be uninstalled from the endpoint.

• Click 'Confirm' to remove the file from the list

5.2.2.6. View and Manage Device Group Memberships

To view and manage the 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of a Mac OS device then select the 'the 'Groups' tab

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New macOS device Owner: kamal@yopmail.com Ē, b C Ο L. 5 ይ Manage Profiles Remote Control Install macOS Refresh Device Full Wipe Lock **Delete Device** Owner Packages Information Device Name Installed Apps Associated Profiles Packages Installation State Summary Groups Add to Group Remove from Group(s) GROUP NAME COMPANY # OF DEVICES CREATED BY CREATED 2018/01/31 11:13:14 AM mac machines pradeep 1 Results per page: Displaying 1 of 1 results 20 ~

- The interface lists all groups of which the device is a member.
- All 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 Name	The label of the group. Click the group name to view group details and edit the group. See Edit a Device Group for more details.
Company	The company for which the group was created.
Number of Devices	The total number of devices in the group. Click the number to view group details and edit the group. See Editing a Device Group for more details.
Created By	The administrator that created the group. Click the name to open the user details interface. See Viewing the Details of a User for more details.
Created	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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New macOS device Owner: kamal@yopmail.com Image Profiles Remote Control Installed Apps Associated Profiles Perice Name Summary Remove from Group(s) Installed Apps Results per page 20 Image Profiles									
Manage Profiles Remote Control Install macOS Refresh Device Full Wipe Lock Delete Device Owner Device Name Summary Installed Apps Associated Profiles Packages Installation State Groups Image Profiles Summary Installed Apps Associated Profiles Packages Installation State Groups Image Profiles Summary Installed Apps Associated Profiles Packages Installation State Groups Image Profiles Name COMPANY # OF DEVICES CREATED BY CREATED Image Profiles mac trachines 1 2018/01/31 11:13:1 Displaying 1 of 1 results Results per page: 20 Displaying 1 of 1 results Image Profiles Comps End End End Image Profiles Summary Information Image Image Image Profiles Packages CREATED End Image Image Profiles Packages Image Image Image Image Profiles Image Profiles Image Image Image Image Profiles <									
Image: Add to Group Image: Remove from Group(s)		C. Remote Control	Install macOS	Refresh Device	O Full Wipe	. T.	Delete Device	*	
Image: Strate of the strate of th	Device Name	Summary	Installed Apps	Associated	Profiles	Packages	Installation St	ate Gro	oups
mac machines 1 2018/01/31 11:13:1 Results per page: 20 20 Displaying 1 of 1 results Add Device to Group Choose group(s) To add groups, start typing their names				4 OF DE2400	-	0051750		0054750	
Results per page: 20 Displaying 1 of 1 results Add Device to Group Choose group(s) To add groups, start typing their names	GROU	PNAME	COMPANY	# OF DEVICE	.5	CREATED	SY .	CREATED	
Add Device to Group X Choose group(s) To add groups, start typing their names	🔳 mac n	achines	grainsp	1				2018/01/31	11:13:1
Choose group(s) To add groups, start typing their names	Results per page:	20 🗸						Displaying 1	l of 1 results
		Choose group(s)		names				×	
	l							-	

The 'Add Device to Group' dialog will appear.

- 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'.

New macOS device Owner: kamal@yopmail.com Ē C Manage Profiles Remote Control Install macOS Refresh Device Full Wipe Lock **Delete Device** Packages Information Device Name Installed Apps Associated Profiles Packages Installation State Groups Summary Add to Group Remove from Group(s) GROUP NAME COMPANY **# OF DEVICES** CREATED BY CREATED mac machines 2018/01/31 11:13:1... Results per page: Displaying 1 of 1 results 20 Remove from Groups × Do you really want to remove this device from device group(s)? Confirm

A confirmation dialog will appear.

• Click 'Confirm' to remove the device from the group.

The device will be removed from the group, The configuration profiles in effect on the device because of the device associated with the group, will also be removed from the device.

5.2.3. Manage Android/iOS Devices

- Admins can view hardware and software details of enrolled mobile devices, and manage profiles and applications on the device.
- Admins can also send messages to the device, sound an alarm on the device, remotely lock the device, view device location and view 'Sneak Peek' photographs.

To view details of and manage an individual 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
- The interface shows devices belonging to the company or group selected on the left.
 - Select a company and/or group to view devices that belong to that entity.

Or

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- Select 'All Devices' to view every device added to ITSM
- Click the name of any Android or iOS device to open the 'Device Details' pane:

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IT & Security Manager		■ Device List		License Options
DASHBOARD	>			
	~	,O Search group name	< 📴 Group Management	Device Management
Device List		5 All Devices	G D	
Bulk Installation Package		🕘 🖨 ABC TV Services	Enroll Device Manage Profiles	Takeover Install or Update Siren Send Me
S USERS	>	🕘 🖶 Chennai IT Services		Packages
CONFIGURATION TEMPLATES	>	💿 👼 Coyote	OS NAME	ACTIVE COMPONENTS PATCH STATUS
		🕘 🖨 Deer Company	🗋 🟭 🛛 DESKTO	AG CCS 🥥
0		+ 🖨 Default Company	ENOVO	
APPLICATIONS	>	🕘 🖨 Dithers Construction		
SECURITY SUB-SYSTEMS	>	+ 🖶 Horizon	(III) (IIII) (III) (III) (IIII) (III) (III	AG AV
	>	🕂 🖶 Kanchi Customer	DESKTO_	AG AV FW CO 📀
	, ,	+ 🖨 kanchildly	🗋 🛞 💿 C1-Mac's_	AG
		🕂 🖨 Sky walk	📄 🍵 🐵 Sony Eric	AG AV
			Results per page: 20 👻	
LENOVO_Lenovo A3000 Owner: avantistude@gmail.com	-н			
🗊 🚿 🕁	,	o C C	=; =j	A G
Manage Profiles Siren Off Siren	On Ser	nd Message Refresh Wipe / Corpora Information	ite Reset Screen Set Screet Passcode Passcode	
Device Name Summary Device	Installed	Apps Associated Profiles Sneak	Peek Last Known Location	Groups
Custom device name	LENO	VQ_Lenovo A3000-H	OS	Android
Name	LENO	VO_Lenovo A3000-H	OS version	4.2.2
Device type	Tablet		Build version	A3000_A422_009_020_131112_WW_CALL_F USE
Last connection		28/04/17	Total RAM	974.75 MB
Registered		24/04/17 /cf83259216a	Available RAM	200.98 MB
	02401	-132342108	Used RAM	773.77 MB

The device details screen has seven tabs:

- Device Name Device label. Click the 'Edit' button if you wish to change the device name. See Viewing
 and Editing Device Name for more details.
- Summary General information about the device. Includes basic device information, operating system
 details, network details and security configuration. See Viewing Summary Information for more details.
- Installed apps Details of applications installed on the device. You can remotely block/release apps or uninstall applications. See Managing Apps Installed on a Device for more details.
- Associated Profiles Lists profiles which have been deployed to the device. Enables you to add new
 profiles or remove existing profiles. See Managing Profiles associated with the Device for more details.
- Sneak Peek Pictures captured by the 'Sneak Peek' feature of ITSM. 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 Viewing Sneak Peek Pictures to Locate Lost Devices for more details.
- Last Known Location The map location of the device when it last connected to ITSM. See Viewing 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 Viewing and Managing Device Group Memberships for more details

Device tasks are shown along the top of the interface:

LENOVO_L Owner: Impala	enovo A3.	3000-H									
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Manage Profiles	Siren Off	Siren On	Send Message	Refresh Information	Wipe / Corporate	Reset Screen Passcode	Set Screen Passcode	Lock	Delete Device	Change Owner	Change Ownership Type

- Manage Profiles Add or remove device profiles. See Assigning Configuration Profiles to Selected Devices for more details.
- Siren Off/Siren On Sound an alarm on the device to locate it. See Generating Alarm on Devices for more details.
- Send Message Send a text message to the user. See Sending Text Message to Devices for more details
- Refresh Information Obtain updated details from the device. See Updating Device Information for more details.
- Wipe/Corporate Delete all data stored in the device if it is lost or stolen. See Wiping Data from Devices for more details
- Reset Screen Passcode Reset the device's screen lock passcode. See Setting / Reseting Screen Lock
 Password for Devices for more details
- Set Screen Passcode Create a new screen lock passcode for the device. See Setting / Resetting
 Screen Lock Password for Devices for more details
- Lock/Unlock Remotely lock or unlock the device. See Locking/Unlocking Devices for more details
- **Delete Device** Remove the device from ITSM. See **Removing a Device** for more details.
- Change Owner Change the user with whom the device is associated in ITSM. See Changing a Device's Owner for more details.
- Change Ownership Type Changes the 'Bring Your Own Device' (BYOD) status of the device. See 'Changing Ownership status of a Device' for more details.

5.2.3.1. 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 ITSM 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 the device's 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 'All Devices' to view every device enrolled to ITSM

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· Click on any Android or iOS device then select the 'Device Name' tab

LENOVO_ Owner: Impala		3000-H					
Manage Profiles	Siren Off	Siren On	Send Message	C Refresh Information	Wipe / Corporate	Reset Screen Passcode	More
Device Name	Summar	y Instal	led Apps As	sociated Profiles	Sneak Peek	Last Known Loo	cation Groups
							📝 Edit
Custom dev LENOVO_Le	rice name movo A3000-H						
Allow auto Enabled	rename of devi	ce custom na	me				
							and a feature in the second

- 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 ITSM agent.
- 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 Location	Groups
					7	Edit
Custom device LENOVO_Leno Allow auto ren Enabled		ustom name				
Device Name	Summary	Installed Apps	Associated Profiles	Sneak Peek	Last Known Location	Groups
					S Cancel	Save
Custom device Joe's tab	e name		Restore			
Allow au	to rename of c	levice custom nan	ne			
No				-		

- 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 ITSM agent 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. View Summary Information

The 'Summary' tab displays general information about the device, its operating system, network and security status.

To view the device information summary

- · 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 'All Devices' to view every device enrolled to ITSM
- Click on any Android or iOS device then open the 'Summary' tab (if it is not already open).

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LENOVO_L	enovo A3	3000-H						
Owner: Impala								
(T)	D		C		0		
				-		<u> </u>		More
Manage Profiles	Siren Off	Siren On	Send Message	Refres Informat		Wipe / Corporate	Reset Screen Passcode	
Device Name	Summar	ry Instal	led Apps Ass	sociated Pr	offies	Sneak Peek	Last Known Loo	ation Groups
Device					OS			
Custom dev			enovo A3000-H		os		Android	
name	lice	LENOVO_L	enovo A3000-H			version	4.2.2	
Name		LENOVO_Le	enovo A3000-H			version Id version		09_020_131112_
Device type		Tablet			bull	a version	WW_CALL_FUS	
Last connec	ction	16:58 17/03	3/17		Tota	al RAM	974.75 MB	
Registered		16:53 10/03	3/17		Ava	ilable RAM	461.49 MB	
UUID		659d7cf832	259216a		Use	d RAM	513.26 MB	
Model		Lenovo A30	000-H			ilable internal	12.02 GB	
IMEI		862589025	614495			rage	10.05.00	
Serial numb	er	Y5RODABQ	DA8H55LZ			al internal rage	13.25 GB	
Battery leve	el de la companya de	68 %				ilable SD card	3.32 GB	
Ownership t	type	Not specifie	ed		spa	ce		
					Tota	al SD card	3.67 GB	
					spa	ce		
Network					Sec	curity		
Phone num	ber	N/A			Viru	is DB version	10	
Current net	work	N/A			Sig	ns DB version	N/A	
Current net	work	N/A				nknown source	Yes	
name					ena	bled		
Subscriber	name	N/A				rent application	5.3.33.3	
Bluetooth N	IAC	N/A				sion		
Wi-Fi MAC		50:3c:c4:16	:91:29			OX standard (version	N/A	
Wi-Fi SSID		"Airnet01"				tus update	Updated	
Roaming		No				ice info		
Cellular		Unknown			Dev	ice info	16:58 17/03/17	

- **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** - 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.

5.2.3.3. Manage Installed Applications

The 'Installed Apps' tab displays a list of all applications installed on a device. The interface shows package names and version numbers; allows administrators to selectively block or unblock apps and offers the ability to uninstall suspicious or junk apps. Administrators can also identify which other devices have the same application installed so they can apply corrective actions to all affected devices.

To manage installed apps

- · 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 'All Devices' to view every device enrolled to ITSM
 - Click on any Android or iOS device then open the 'Installed Apps' tab

Owner: Im	/O_Lenovo /	1000011					
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Manage Profiles		f Siren On	Send Message	Refresh Information	Wipe / Corporate	Reset Screen Passcode	More
Device N	ame Sumn	ary Insta	led Apps Ass	sociated Profiles	Sneak Peek	Last Known Loo	cation Group:
O Block	O Unblock	前 Unins	tall 🧲 Updat	te Application List			1
	O Unblock		tall 💭 Updat PACKAGE	te Application List VERS	SION	VERDICT	۲
□ N/	-					VERDICT	٦
□ N/	AME		PACKAGE	VER5 52.0.	1		٦
	AME		PACKAGE org.mozilla.firefox	VERS 52.0. n 5.3.1	1	Allowed	٦
	AME refox ngsoft Office		PACKAGE org.mozilla.firefox on.wps.moffice_i18r	VERS 52.0. n 5.3.1	6	Allowed	٢
 N/ Fir Kin No ran 	AME refox ngsoft Office otepad		PACKAGE org.mozilla.firefox :n.wps.moffice_i18r :com.ztnstudio.notep	VERS 52.0. n 5.3.1 pad 2.0.3 1.10.	1 6 0.26	Allowed Allowed Allowed	۲ d (global)

Installed Apps - Column Descriptions						
Column Heading Description						
Name	The name of the application. Clicking the application name will show all devices which have this app installed. This makes it easier for administrators to apply an action to all devices which feature a certain app.					
Package	Indicates 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_				
Version	Indicates the version of the application.				
Verdict	Indicates whether the application is allowed, blocked or blacklisted.				

Sorting and Filtering Options

- Clicking any column header sorts column entries in alphabetical order.
- Clicking the funnel icon T at the right opens 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					Ţ
	VERDICT				
Gum				Name	
0	filters	Apply		subway	
L				Package	
	Allowed	2010/01/01/01	Theses		

 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'.
- By default ITSM 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.

Blocking Unwanted Apps

Administrators can remotely block apps that are identified as malicious, suspicious or junk. The app will not be uninstalled from the device but will not be 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.

Devic	e Name Summary	Installed Apps	Associated Profiles	Sneak Peek	Last Known Location
В	ock 🕑 Unblock	🛅 Uninstall 🔀 U	Jpdate Application List		
	NAME	PACKAGE	VERS	ION	VERDICT
	Firefox	org.mozilla.fire	fox 52.0.1	1	Allowed
	Kingsoft Office	cn.wps.moffice	∟i18n 5.3.1		Allowed
	Notepad	com.ztnstudio.	notepad 2.0.3	6	Allowed
	rara.com	com.rara	1.10.	0.26	Allowed
	Zinio	com.zinio.mobi	ile.android.re 1.21.0	5301	Blacklisted (glo

Uninstalling and updating the application list

• To uninstall malicious or junk app(s) from the device, select the app(s) and click 'Uninstall'. A notification will be sent to the device requesting uninstallation and the app will be immediately blocked. Upon receiving the notification, the end user needs to select 'Uninstall'.

Device Name Installed Apps Associated Profiles Sneak Peek Last Known Locat Summary Block \bigcirc Unblock Uninstall Update Application List \square NAME PACKAGE VERSION Firefox org.mozilla.firefox 52.0.1 Allowed **Kingsoft Office** 5.3.1 Allowed cn.wps.moffice_i18n 2.0.36 Notepad com.ztnstudio.notepad Allowed rara.com 1.10.0.26 Allowed com.rara Zinio com.zinio.mobile.android.re. 1.21.6301 Application uninstall Close Are you sure you want to uninstall app? Confirm

A confirmation dialog will be displayed.

- Click 'Confirm' to uninstall the selected app(s).
- The list of apps on a device is updated in ITSM every 24 hrs. To refresh the list immediately, click 'Update Application List'.

5.2.3.4. 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 device groups and inherited profiles from the group
- The user belongs to one or 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 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 'All Devices' to view every device enrolled to ITSM

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· Click on any Android or iOS device then open the 'Associated Profiles' tab

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Manage Profiles	Siren Off	Siren On	Send Message	Refresh Information	Wipe / Corporate	Reset Screen Passcode	More	
evice Name	Summar	y Instal	ed Apps As	sociated Profiles	Sneak Peek	Last Known Loo	cation Groups	
IAME			SOURCE A	SOURCE ASSOCIATED		INFORMATION ABOUT ASSOCIATION		
For Lenovo Tabs			Device	Device		Successfully processed		
or Lenovo Tab	S			Device Group: Running Staff		Successfully processed		
	-		Device Gro	oup: Running Staff	Successfully	processed		
For Lenovo Tab imported] For S Android devices	Sony Phones	lept		oup: Running Staff p: Purchase Dept	Successfully			

	Associated Profiles - Column Descriptions
Column Heading	Description
Name	The name assigned to the profile by the administrator. Clicking the name of a profile will open the 'Edit Profile' interface. Refer to the section Editing Configuration Profiles for more details.
Source Associated	Indicates 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 Assigning Configuration Profiles to Selected Devices for more details
	 Profiles applied to a user are deployed to all devices belonging to them. See Assigning Configuration Profile(s) to a Users' Devices for more details
	 Profiles applied to a user group are deployed to all devices owned by group members. See Assigning 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 Assigning Configuration Profile to a Device Groups for more details
	Clicking on the source opens the respective details interface.
Information about Association	Indicates the status of profile application to the device.

Adding or Removing Profiles

Profiles in effect on the device can be removed or new profiles can be added to the device by clicking Manage Profiles option at the top. Refer to the section **Assigning Configuration Profiles to Selected Devices** for more details.



5.2.3.5. View Sneak Peek Pictures to Locate Lost Devices

The 'Sneak Peek' tab displays photographs grabbed by devices via the 'Sneak Peek' feature.

The 'Sneak Peek' feature can help administrators to recover mislaid Android phones and tablets. If somebody enters the wrong password on a lost or stolen device, the device will automatically take a photo of the device holder and save it to the server with their picture and location.

The Sneak Peek feature can be enabled in the device profile and admins can also specify how many incorrect attempts should be allowed. To view this in the interface, open 'Add/Edit Android Profile' > 'Passcode' (or refer to the portion explaining configuration of Passcode settings under Profiles for Android Devices in this guide).

Administrators can view Sneak Peak images by going to 'Device' > 'Device List' > click device name > 'Sneak Peak'.

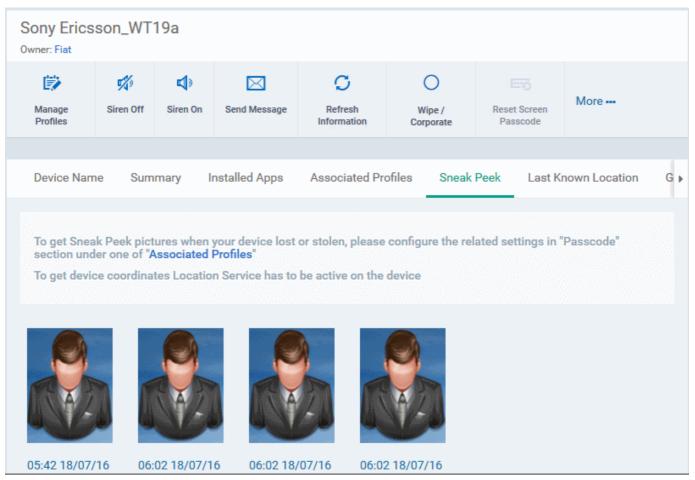
If the front camera is not available on the device, a photograph is taken using the rear facing camera.

Note: The 'Sneak Peak' tab is available only for Android devices.

To view Sneak Peak pictures

- 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 'All Devices' to view every device enrolled to ITSM
- · Click on any Android device then select the 'Sneak Peek' tab

The page will display all Sneak Peek photographs collected by devices after a series of incorrect passcode entries:

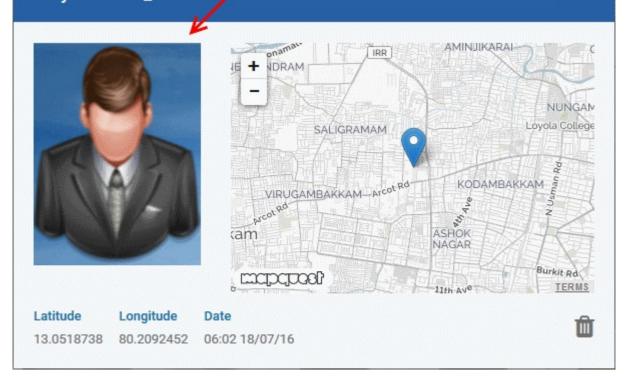


Note: The images shown above are for illustration purposes only. The interface will actually show photographs picked-up by the device camera.

 Clicking on a picture will display an enlarged view of the photograph and the location of the device at the time the photo was taken.



Sony Ericsson_WT19a



To remove the sneak peek picture, click the trash can icon at bottom right.

5.2.3.6. View the Location of the Device

The 'Last Known Location' tab displays the map location of the device at the time it last contacted the ITSM portal. Administrators can refresh and view the current/latest location of the device by clicking the 'Update' link. This is useful if the phone is lost or stolen or if the administrator wishes to track the device for other reasons.

To view the location

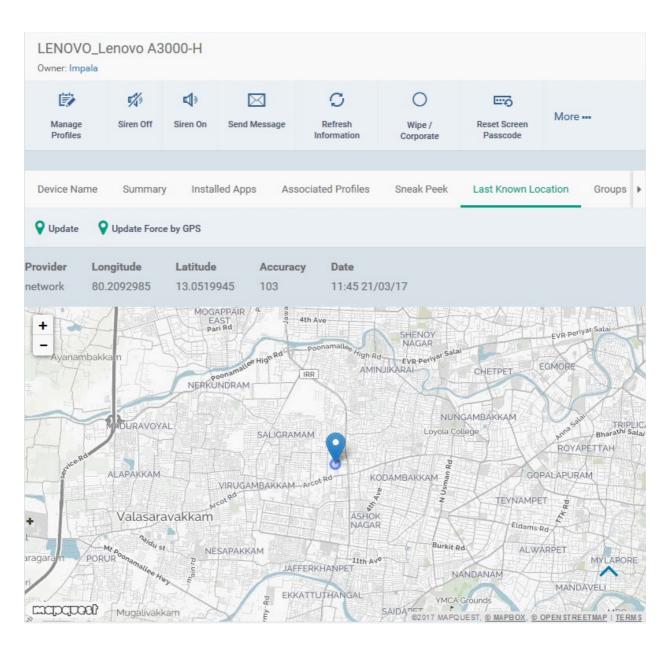
- Click the 'Devices' link on the left and choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane

Close

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- Select a company or a group to view the list of devices in that group Or
- Select 'All Devices' to view every device enrolled to ITSM
- Click on any Android or iOS device then select the 'Last Known Location' tab

The location of the device will be shown on a map.



- To view the current location of the device, click 'Update'.
- To update the device location device instantly using device GPS, click 'Update Force GPS'.

5.2.3.7. View and Manage Device Group Memberships

The 'Groups' tab in 'Device Details' shows all groups of which the device is a member. Admins can remove the device from a group or add it to a new group.

To view and manage device group membership

- 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 'All Devices' to view every device enrolled to ITSM
- Click the name of any Android or iOS device then select the 'Groups' tab

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Manage Profiles	Siren Off	Siren On	Send Message	Refresh Information	Wipe / Corporate	Reset Screen Passcode	More
evice Name	-						
Jevice Name	Summar	y Instal	led Apps As	sociated Profiles	Sneak Peek	Last Known Loc	ation Groups
	_	y Instal Remove from		sociated Profiles	Sneak Peek	Last Known Loc	ation Groups
🕂 Add to G	_	-	Group	NUMBER OF DEVICES		Last Known Loc	CREATED
Add to G	roup 🛅 I	Remove from	Group IY N	NUMBER OF DEVICES	CR		

- 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 **Assigning Configuration Profiles to a Device Group**.

Device Groups - Table of Column Descriptions					
Column Heading	Description				
Group Name	Displays the name of the group. Clicking the group name will open the Group Details interface where you can view and edit group settings. See Editing a Device Group for more details.				
Company	Displays the name of the company for which the group was created.				
Number of Devices	Indicates the total number of devices in the group. Clicking the number will open the Group Details interface. See Editing a Device Group for more details.				
Created By	Displays the name of the administrator that created the group. Clicking the name will open the user details interface. See Viewing the Details of a User for more details.				
Created	Indicates the date and time at which the group was created.				

To add the device to a new group

Click 'Add to Group'

Device Name Summary Installed Apps Associated Profiles Sneak Peek Last Known Locatio Add to Group Remove from Group NUMBER OF DEVICES \square ROUP NAME COMPANY coyoteewile@yahoo unning Staff Deer Company 3 ch tabs **Deer Company** coyoteewile@yahoo. 7 1 Results per 20 Add Device to Group Close Choose group(s) To add groups, start typing their names Add

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 Si	ummary Installed Apps	Associated Profiles	Sneak Peek Last Known Locatio:
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:	20		Disple.
Remove fro	om Group		Close
Do you really	want to remove this device	from device group?	
		Co	onfirm 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.

5.2.4. View User Information

Administrators can view and update user details such as email address and phone number from the 'Device Management' interface.

To view the user information of 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
 - Select 'All Devices' to view every device enrolled to ITSM

The users of each device are listed in the 'Owner' column.

- 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 👞	7		
G All Devices		0		C
🔹 🖶 ABC TV Services	Enroll Device Manage Profiles Send Password Packete User Recovery Email	Refresh Device Information	More	Y
		COMPANY	OWNER	
+ B Deer Company	User Info Associated Devices User Tokens Groups	Befault Com	John	
💿 🖶 Default Company	Personal 📝 Edit	Dithers Con	Loyola	
+ 🖶 Dithers Constructi	Username * Loyola	Dithers Con	avantistude	
🔹 🖨 Kanchi Customer	Email * sumeetdomestic@gmail.com Phone number	Dithers Con	avantistude	
+ 🖨 kanchiidly	1234567890 Roles	Dithers Con	Dyanora	
	Admin_for_purchase_dept, Technician Company Dithers Construction Company	Dithers Con	transtar	
	Change passwerd time Feb 9, 2017, 1:30:56 PM	Deer Compa	Impala	
	Time add Jul 4, 2016, 2:48:29 PM			
	Last login Exb.0.2017.2:14:03 PM			

5.2.5. Remove a Device

Devices that no longer require management can be removed by selecting 'Delete Device' from the 'More...' menu.

Warning: Once a device is deleted from ITSM, all configuration profiles and apps installed by ITSM will also be removed from the device.

Windows Devices - You can also choose to uninstall the Comodo One Client Communication agent and/or the Comodo One Client Security software from the devices when removing the device.

Android, iOS and Mac OS 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 **Enrolling User Devices for Management**.

To remove a device from ITSM

- 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 'All Devices' to view every device enrolled to ITSM
- 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 right and choose 'Delete Device' from the options.

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C All Devices		ି 📽 🦳	
ABC TV Services	Enroll Device Remote Control Run Procedure Manage Profiles Install or Update Packages	Refresh Device Reboot More	LAST ACTIVITY
Coyote Deer Company	OS NAME ACTIVE COMPONENTS PATCH STATUS	Default Wipe / Corporate	2017/05/24 04:.
 B Default Company B Dithers Construction C 	DESKTO AG AV TW CO 5	Dithers	2017/05/30 02:.
🗉 🖶 Horizon		Dithers Send Message	2017/05/30 02:.
 Anchi Customer kanchildly 	AG AV	Dithers	2017/05/30 02:
🖻 🖶 Sky walk Delete 🛛	levice	×	2017/05/19 02:
Do you rea	illy want to delete selected device(s)?		2016/08/07 02:.
Uninst	all Comodo Client - Security from the selected Windows dev uire reboot of the device(s).		aying 1-7 of 7 res
Uninst	all Comodo Client - Communication from the selected Wind	lows device(s).	

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. If 'Delete Device' is not available here, click 'More' at the top right and choose 'Delete Device' from the options.

Joe's Mac ^{Owner:} Impala					
Manage Profiles	Install OSX Packages	C Refresh Information	Wipe / Corporate	Lock OSX Delete Devi	ice Change Owner
Device Name	Summary	Installed Apps	Associated Pro	files Packages Instal	lation States Grou
Device Su	mmary			OS Summary	
Custom device name		Joe's Mac		OS OS version	OS X
Name Device type		New OS X device Unknown		Build Version	N/A N/A

Click 'Delete Device' from the options at the top

The 'Delete Device' dialog will appear.

For Windows devices, you can choose to uninstall the agent and/or the CCS software.

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Delete Device	Close
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 Comodo Client - Communication from the selected Windows device(s))-
Confirm Car	ncel

• Click 'Confirm' to remove the device from ITSM.

To remove the ITSM app from an Android device

- Navigate to 'Settings' > 'Apps' on the Android device
- Select 'Comodo ITSM'
- Tap the 'Uninstall' button.

The ITSM app will be removed from the device.

To remove the ITSM profile from an iOS device

- Navigate to 'Settings' > 'General' on the iOS device
- Select 'Profile' > 'Comodo Profiles' (certificate and ITSM)
- Tap the 'Remove' button.

The ITSM profile will be removed from the device.

To remove the ITSM profile from Mac OS devices

- Navigate to 'Settings' > 'General' on the Mac OS endpoint.
- Select 'Profile' > 'Comodo Profiles' (certificate and ITSM)
- Click the 'Remove' button.

The ITSM profile will be removed from the device.

 Click 'Settings' > 'Portal Setup' > 'Extensions Management' to enable Comodo Remote Control for your account.

The 'Remote Control' feature allows you to 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:

- Comodo 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)

Comodo Remote Control

- You first need to install Comodo Remote Control (CRC) on your admin computer:
 - Click 'Devices' > 'Bulk Installation Package'
 - Select the 'Comodo Remote Control' 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 ITSM console: 'Devices' > 'Device List' > 'Device Management' > select a device > click 'Remote Control').
- · You can select the location of the C1 server nearest to your location for the CRC 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 policy 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', Ctrl+C on the remote machine (Windows devices only).
- 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 Comodo Remote Control Viewer
- Use the Desktop Application for Remote Control

Download and install 'Comodo Remote Control' application

Click 'Devices' > 'Bulk Installation Package' > Select the 'Comodo Remote Control' tab > Choose the
operating system of your admin machine > Click 'Download'.

Tip: You can also download the 'Comodo Remote Control' application from the Comodo One portal.

- Click 'Tools' on the menu bar
- Locate the 'Comodo Remote Control' tile.
- Click 'Download'
- Choose the operating system of your admin machine and click 'Download'.

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See Download Remote Control Tool if you need any more help with this.

Use the Desktop Application for Remote Control

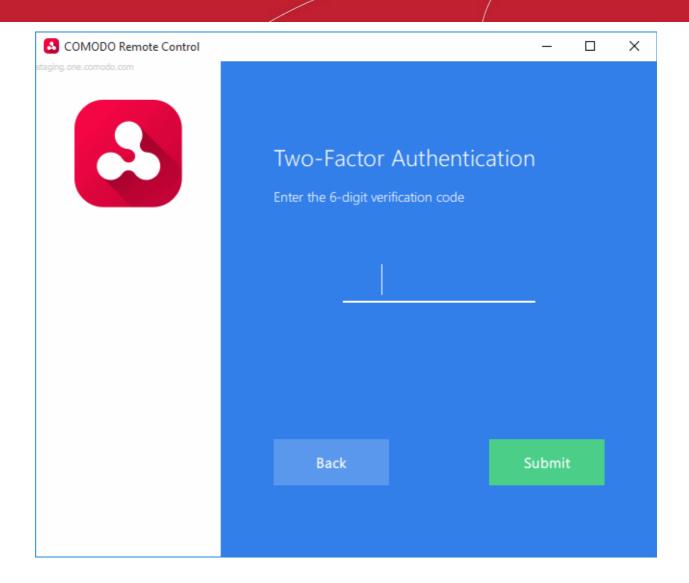
- Once installed, the Comodo Remote Control viewer can be launched from your desktop
- You can also take control direct from the ITSM interface:
 - Click 'Devices' > 'Device List' > 'Device Management' > select a Windows / Mac OS device > Click the 'Remote Control' button.

To access the remote control viewer

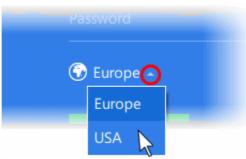
• Double click the desktop shortcut 🔁 or the system tray icon 🔼 to open the login screen:

S COMODO Remote Control	- 0	×
	COMODO One ITSM Portal E-mail Password	
	💮 Europe 🗸	
	Sign In Stay signed in	
	Forgot Password?	

- C1 users Click the 'Comodo One' tab then login with your C1 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.



- Enter the code and click 'Submit'
- ITSM users Click the 'ITSM Portal' tab then enter your ITSM URL + your login credentials. Your ITSM URL will use the format https://<your company name>.cmdm.comodo.com, where <your company name> is your ITSM company name.
- The region selector allows you to choose the C1 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 CRC application to store your login credentials. The application will not ask for your credentials to login in future.
- Click 'Sign In'

The viewer application will open with a list of enrolled Windows / Mac OS endpoints:

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🔼 COMODO Remote Control × kamal Online All Devices Search by name DESKTOP-HI950BN John Smith C1-Mac's Mac mini kamal@yopmail.com COMODO-PC kamal@yopmail.com DESKTOP-81RSIOQ kamal@yopmail.com DESKTOP-A4TOKF7 garrykristen@yopmail.com 17 devices

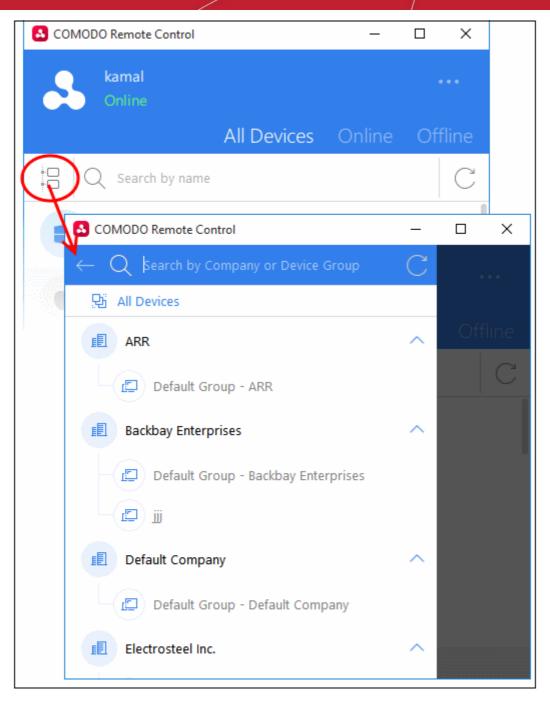
All devices are shown by default. You can filter by 'Online'/'Offline' status, or by 'Company'\'Group' (click the icon next the search box). You can also search individual devices by name. The next section contains more details:

Search and Filter options

• Click the tree-structure icon on the left to search devices by Company\Group.

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- 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 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:

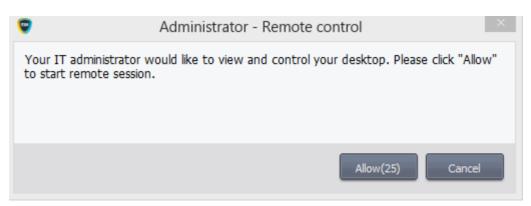
- To search for an endpoint, start typing its name in the search field and select from the suggestions
- To view an updated list of endpoints including those recently added, click the refresh icon \mathbb{C}^{2}
- Use the 'Online' and 'Offline' tabs to filter the list based on endpoint connection status

To remotely manage an endpoint

Move your mouse over an endpoint and click the icon on the right:

S COMODO Remote Control	_	
kamal Online		
All Devices	Online	Offline
🗡 🗊 kamal 🛯 💭 Default Group - kamal		
Search by name		C
DESKTOP-HI950BN John Smith		
C1-Mac's Mac mini kamal@yopmail.com		
COMODO-PC kamal@yopmail.com		
11 devices		

A request message will be shown to end-users if configured appropriately:

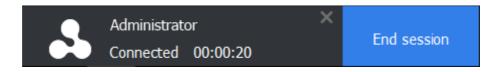


You have the following configuration options:

- · 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.

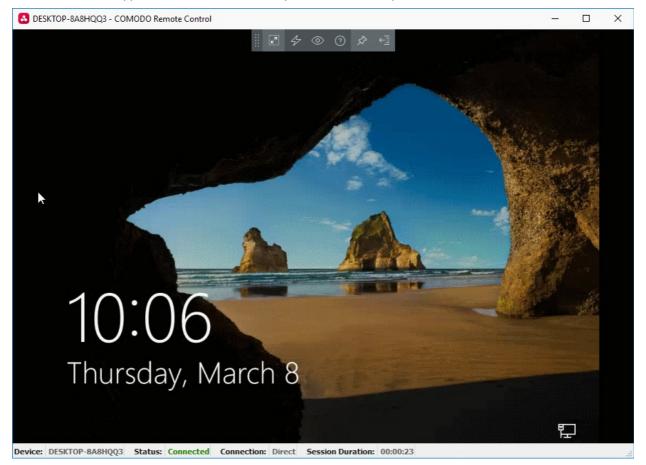
Once the connection is established, a notification will appear on the endpoint stating that an administrator has taken

control:

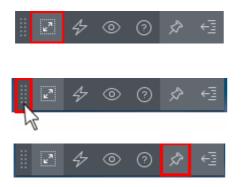


- The end-user can allow the session to continue or terminate it by clicking 'End session'.
- The message will be shown if the endpoint's profile is set to show the notification (in the 'Remote Control' section). See **Remote Control Settings** for more details.

The remote control application will show the desktop of the remote computer:



- Administrators 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:



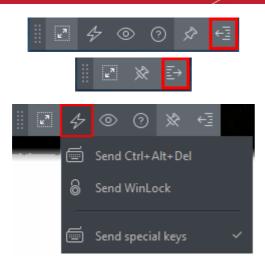
Full Screen - The remote desktop will cover your entire display, without the operating system's window-framing interface.

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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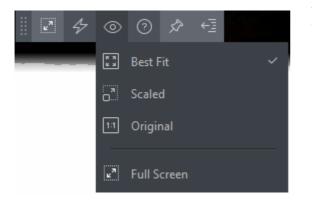
Minimize/Maximize - Show/hide tool bar options.

Actions - (Applies to Windows devices only) Send control commands to the endpoint.

 Send Ctrl + Alt + Del - 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.

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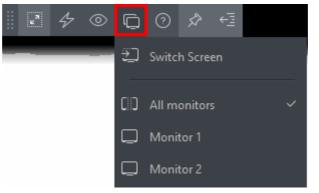
- Send WinLock Locks the managed endpoint. A password will be required to unlock the endpoint.
- Send special Keys If enabled, allows you to send key combination commands such as Ctrl+C, Windows + R and so on.



View - Change the display size of the remote desktop. The available options are:

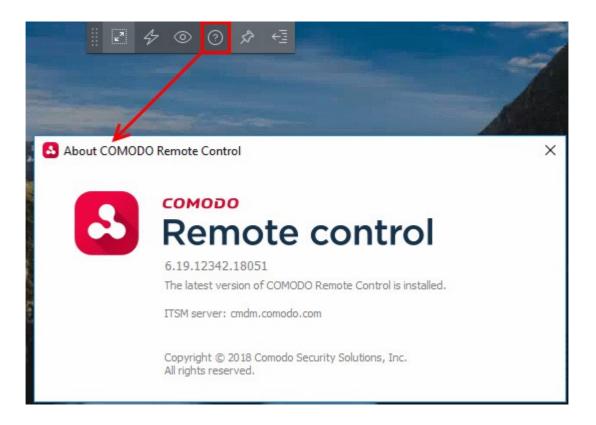
- **Best Fit** Automatically adjusts the screen resolution for the best visual experience.
- **Scaled** Displays the target desktop with the resolution of the admin computer
- **Original** Displays the target desktop at its own resolution
- Full screen Displays the remote desktop in full screen view

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 Comodo Remote Control' dialog which shows version number and copyright information.



Using 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. In order to do that, administrators should:

- Install the RMM plugin agent on target Windows devices. For details about how to install RMM agent, see 'Remotely Installing Packages onto Windows Devices'
- Install the RMM Administrative Console

To download the RMM admin console

- 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 company/group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- · Choose a 'Windows' device, click 'Remote Control' on the top then select 'With RMM Plugin'

<u>،</u>ه Group Management Device Management -閭 • G; ${}^{\circ}$ ጄ Enroll Devic Remote Contro un Procedure Manage Profiles Install or Update Refresh Device Reboot Owner Packages Information With Comodo Remote Control 05 MPONENTS PATCH STATUS COMPANY OWN With RMM Plugin (Old) TOP-D10L A 1 Default Company avant DE BOU5. DESKTO Θ **Default Company** mmo Comodo Remote Device Management Takeover × Step 1 If you didn't download and install the Technician Console before, Please download it from below Download Download RMM Console x86 RMM Console x64

The 'Remote Device Management Takeover Wizard' will appear.

• Download the appropriate version of the RMM Console and install it on your target machines.

Once installed, select a Windows device from the 'Device List' interface and click 'Takeover' > 'With RMM Plugin' to remotely monitor, manage and take control of the device. 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 from the system where it is installed and remote manage all the Windows devices that are enrolled for your C1 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.

5.2.7. Apply Procedures to Windows Devices

- Procedures are standalone instruction scripts and patches that can be executed on devices from the procedures interface.
- Procedures can also be executed via a profile and from the 'Device Management' interface.
 - See **Directly Apply Procedures to Devices** and **Procedure Settings** for details about the first two methods.

This section explains how to run procedures from the 'Device Management' interface.

- Applying procedures on a single device
- Applying procedures on multiple devices at once

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To run a procedure on a single device

- Click the 'Devices' link on the left then choose 'Device List'
- · Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- · Click the name of a device on which procedures should be applied

The 'Device Details' interface will open.

Click 'Run Procedure' from the options at the top or click 'More...' and choose 'Run Procedure' from the options

DESKTOP- Owner: Dyanora										
Manage Profiles	Remote Control	Install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change Ownership Type	₹ Run Pre	Docedure
Device Name	Summary	Hardware	Networks	Associated Pr	ofiles Seitwa	ire Inventory	File List	Exported Configu	urations	N
Device	Run Proc	cedure 🧲							×	
	Choose proc	edure								
	Туре арри	roved proce	dure name	to search	among proc	edures				
	~	in as system in as logged								
								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.
- Choose the endpoint user account which should be used to run the procedure. The available options are:
 - Run as system user
 - Run as logged in user(s) (default)
- Click 'Run'

The command will sent to the device and the selected procedure will be run on the device. An alert will be generated if the procedure fails (presuming alerts have been configured). The process will be logged and can be viewed in the 'Procedure Logs' screen.

To run procedures on multiple devices at once

- Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane

- Select the Company and choose the group under it to view the list of devices in that group Or
- Select 'All Devices' to view every device enrolled to ITSM
- Select the devices on which you want to run a procedure

•

Click 'Run Procedure' from the options at the top or click 'More...' and choose 'Run Procedure' from the options

O Search group name	۲	Group Management	Device Management	
D All Devices			1	D
+ B ABC TV Services	Enroll Devi	ce Remote Control	Run Procedure Manage Profile	s Install or Packa
🖶 Chennai IT Services 🕞 🖨 Coyote		OS NAME	ACTIVE COMPONENTS	PATCH ST
🕞 🖨 Deer Company		DESKTO	AG AV FW CO	\odot
Run Procedure Choose procedure				×
Type approved procedure na	ime to searc	ch among procedure	es	
Run as system userRun as logged in user((s)			
			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.
- Choose the endpoint user account which should be used to run the procedure. The available options are:
 - Run as system user
 - Run as logged in user(s) (default)
- Click Run.

The command will sent to the device and the selected procedure will be run on the device. If the procedure deployment fails, an alert will be generated if configured. The process will be logged and you can view the details in the **Procedure Logs** screen for script procedures and **patch procedure logs** will be available in the respective patch procedure itself.

5.2.8. Remotely Install and Update Packages on Windows Devices

The 'Device Management' interface lets you install Comodo applications and third-party MSI packages on to managed Windows endpoints. Admins can also update ITSM packages which are already installed on endpoints.

Note for RMM Users: The option to install the RMM agent onto Windows endpoints is available if you logged into



ITSM via the Comodo One interface.

To install MSI / ITSM packages

- 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 from the left pane to view the list of devices in that company/group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Select the Windows device(s) on which you want install or update the packages
- Click 'Install or Update Packages'

All Devices	Enroll C		Remote Control	FD E	files Install or Upd	Refresh Device		More
+ 🖨 Chennal IT Services		os	NAME	ACTIVE COMPONENTS	Packages Install Ad	Information ditional Cornodo Pac	kages	LAST ACTIVITY
+ Deer Company		15	DESKTO	AG AV FW CO		stom MSI/Packages		2017/05/24 04
		-	• DESKTO	AG AV FW CO		dditional Comodo Pa	ckages	2017/05/30 03
+ 🖨 Horizon		-	LENOVO	AGAV		Dithers Con	avantistude	2017/05/30 03
Ŧ 🖨 Kanchi Customer			samsung	AG AV		Dithers Con	avantistude	2017/05/30 03
- Sky walk		15	DESKTO	AG AV Fre CD	<mark>@</mark> 4	Dithers Con	Dyanora	2017/05/30 03
			C1-Mac's	AG AV		Dithers Con	transtar	2017/05/19 02
			Sony Eric	AG AV		Deer Compa	Impala	2016/08/07 02

 Alternatively, click the name of the device to open the 'Device Details' interface and click 'Install MSI/Packages' from the options at the top.

The drop-down displays options for:

- Installing ITSM Packages
- Updating ITSM Packages
- Installing Third Party MSI Packages

To install ITSM packages

Select 'Install Additional Comodo packages' from the 'Install or Update Packages' drop-down.

Note: Please note the packages should be enabled in the 'Extensions Management' interface to appear in this screen. Refer to the section 'Managing ITSM Extensions' for more details.

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Install Additional Comodo Packages	Close
Install Comodo Client - Security 3	
Install RMM Plugin Agent 🕄	
Reboot options	
Source the reboot in	
5 minutes	~
 Suppress the reboot () 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	
Ins	tall

The list of available additional packages will be displayed. The available packages are:

- Install Comodo Client Security 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. ITSM allows you to configure which CCS security components are
 installed by applying configuration profiles. Note: This option is only available for endpoints that do
 not have CCS installed.
- Install RMM Plug-in Agent Select this option only if you want to use the older, standalone RMM module. RMM functionality has now been incorporated into the main ITSM application, so most users should not need to install this agent on endpoints.

CCS requires the endpoint to be restarted in order for the installation to take effect. You can choose how the endpoint(s) are to be restarted from the 'Reboot Options'.

 To restart the end-point a certain period of time after installation, choose 'Force the reboot in...', select a delay period and click 'Install'.

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.

• If you do not want the endpoint to restart automatically, then choose 'Suppress the reboot' and click 'Install'.

The endpoint will not restart on completion of the installation. However, the COCS installation will become fully functional only upon the next restart of the endpoint.

• 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 and click 'Install'.

On completion of installation, the message will be displayed at the device as shown below:

СО	обома	ONE Client - Communi	cation Reboot
You	ur device need rebo	oot because it's required by your a	dministrator
		Remind me in	10 minutes 🔻
		R	eboot now Postpone

Users can choose to restart the endpoint immediately by clicking 'Reboot now', or postpone the restart by using the 'Remind me in' drop-down. The installation will be active only after the endpoint is restarted.

After CCS installation is complete, the security components that are active depends on the applied profile. See Assigning Configuration Profile to Selected Devices, Assigning Configuration Profile(s) to a Users' Devices, Assigning Configuration Profile to a User Group and Assigning Configuration Profile to a Device Group for more details.

To update ITSM Packages

• Select 'Update Additional Comodo packages' from the 'Install or Update Packages' drop-down.

COMODO Creating Trust Online*

Update Additional Comodo Packages	Close
Update Comodo Client - Communication 3	
Update Comodo Client - Security 🚱	
Reboot options	
Source the reboot in	
5 minutes	~
O Suppress the reboot ()	
 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	
Upd	ate

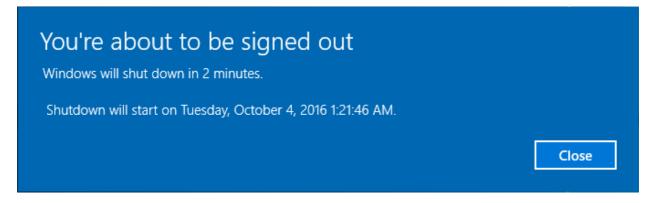
A list of additional packages that can be updated will be displayed. The available options are:

- Update Comodo Client Communication Select this option if you want to update the Comodo Client - Communication agent software on the endpoint. This option is only available for endpoints with an out-dated version of CCC agent.
- Update Comodo Client Security Select this option to update the AV database and install software updates for CCS on the endpoint. This option is only available for endpoints with an outdated version of CCS.

CCS requires the endpoint to be restarted in order for the update to take effect. You can choose how the endpoint(s) are to be restarted from the 'Reboot Options'.

• To restart the end-point a certain period of time after installation, choose 'Force the reboot in...', select a delay period and click 'Install'.

The following message will be displayed on the device:



The device will be restarted automatically when the time period elapses.

• If you do not want the endpoint to restart automatically, then choose 'Suppress the reboot' and click 'Update'.

The endpoint will not restart after the update. However, the update will not take effect until the endpoint is next restarted.

• To let end-users restart the machine at their convenience, choose 'Warn about the reboot and let users postpone it'. Enter a message to be shown to the user and click 'Update':

0	COMODO ONE Client - Communication Reboot
	Your device need reboot because it's required by your administrator
-	Remind me in 10 minutes
	Reboot now Postpone

Users can choose to restart the endpoint immediately by clicking 'Reboot now', or postpone the restart by using the 'Remind me in' drop-down. The installation will be active only after the endpoint is restarted.

To install third-party MSI packages

Choose 'Install Custom MSI/Packages' from the 'Install or Update Packages' drop-down

The 'Install Custom MSI/Packages' dialog will appear.

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Install Custom MSI/Packages	Close
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	
1 minute	~
O Suppress the reboot ()	
 Warn about the reboot and let users postpone it 	
Reboot message *	
Your device will reboot in 1 minutes because it's required by your administrator	
Ins	tall

- Enter the URL of the MSI installer in full in the 'MSI URL' field, and make sure it is from a https site. For example, https://www.hass.de/files/nodes/story/45/npp.6.8.4.installer.msi
- Enter the MSI installation command line parameters in the 'Command-line Options' field. This is optional. Click the 'Read more' link to know more about command-line options.
- Select the 'Reboot Options' depending on whether the installation requires restart of the endpoint to take effect.
 - To restart the end-point after a certain period of time on completion of installation, choose 'Force the reboot in' and select the delay period and click 'Install'.

The following message will be displayed on the device:

COMODO

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.

• If you do not want the endpoint to restart automatically, then choose 'Suppress the reboot' and click 'Install'.

The endpoint will not restart on completion of the installation.

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 and click
'Install'.

The following message will be displayed on the device:

сомс	ססו	ONE Clie	nt - Communio	cation Reboot
Your device	e need reb	oot because it's	s required by your ac	dministrator
			Remind me in	10 minutes 🔻
			Re	eboot now Postpone

Users can choose to restart the endpoint immediately by clicking 'Reboot now', or postpone the restart by using the 'Remind me in' drop-down. The installation will be active only after the endpoint is restarted.

5.2.9. Remotely Install Packages on Mac OS Devices

Administrators can remotely install Comodo Antivirus for Mac (CAVM) onto Mac OS devices from the 'Device Management' interface.

To install Mac OS packages

- 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 and group to view all devices in the group

Or

- Select 'All Devices' to view every device enrolled to ITSM
- Select the Mac OS device(s) on which you want install packages
- Click 'Install or Update Packages' from the options at the top and choose 'Install macOS Packages'

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C All Devices	Q	+		÷	E)	(D	0	:	••••	(
ABC TV Services Ghennal IT Services	Enroll	Device	Remote Control	Run Procedure	Manage Profiles	Install or Update Packages	Refresh Device Information	Reboot	More	
Coyote			NAME	ACTIVE CO	MPONENTS	Install Additio	onal Cornodo Pac	kages:		LAST ACTIVIT
🔹 🖨 Deer Company			DESKTO	AG	/ [FW] CO	Install Custor	n MSI/Packages			2017/05/24 04
		5	• DESKTO	AG AI		Install macOS	S Packages	ckages	>	2017/05/30 03
• 🖨 Horizon	ll macOS Pack	ages				×	Dithers Con	avantistude	b	2017/05/30 03
🕘 🖨 Kanchi Customer		- 9					Dithers Con	avantistude		2017/05/30 03
kanchildly sky walk	tall COMODO Antiv	irus					Differs Con	Dyanora		

• Alternatively, click the name of the device to open the 'Device Details' interface. Click 'Install Mac OS Packages' from the options at the top.

The 'Install Mac OS Packages' screen displays the ITSM packages that can be installed on the Mac OS endpoint(s).

- Select the packages to be installed (currently only Comodo Anti-virus for Mac (CAVM) is available).
- Click the 'Install' button

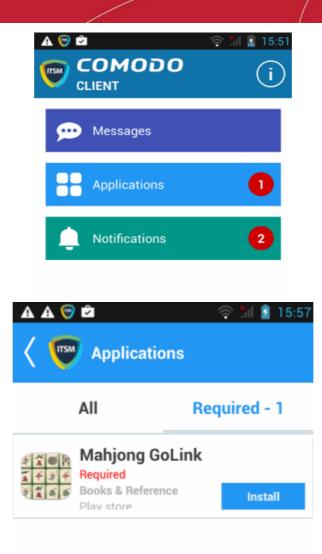
The installation command will be sent to the device. The security components that are active once CAVM is installed depends on the security profile applied.

See Assigning Configuration Profile to Selected Devices, Assigning Configuration Profile(s) to Users' Devices, Assigning Configuration Profile to a User Group and Assigning Configuration Profile to a Device Group for help with profiles.

5.2.10. Install Apps on Android/iOS Devices

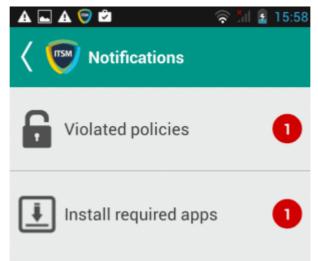
ITSM allows administrators to push applications to all enrolled mobile devices. Applications that the administrator intends to roll-out to user devices can be added to the ITSM **Application Store**. The sync between the ITSM server and the devices takes place every 24 hours. Alternatively, you can sync immediately if you click 'Inform Devices Now' in the iOS or Android store interfaces. For more on uploading application packages to the app store, see **Application Store**.

The 'Applications' stripe in the ITSM app on the device shows the number of mandatory apps that are waiting to be installed from the app store:



- All Displays all apps available for installation, including mandatory and optional apps.
- Required Displays apps that must be installed on the device to comply with the ITSM profile applied to the device.
- Tap 'Install' to download and install the apps.

ITSM also sends notification alerts to the devices if a mandatory app or a recommended app is uploaded to the **Application Store**.



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• Tap 'Install required apps' to install the mandatory apps.

5.2.11. Generate an Alarm on Devices

If a device is mislaid, lost or stolen, administrators can make the device sound an alarm to help locate it. The alarm will sound at full volume, even if it is set to silent mode. Administrators 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.

The following sections contain more information on:

- Generating alarm on a single device
- Generating alarm on several devices

To generate alarm on a single device

- · Click the 'Devices' link on the left then choose 'Device List'
- · Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the device on which you want to sound an alarm
- Click the 'Siren On' option in the 'Device Details' interface

ony Ericsson_WT19a			
Manage Profiles Siren Off Siren On Send Message	C Refresh Information	Wipe / Corporate	Reset Screen Passcode
Device Name Summary Installed Apps	Associated Pr	ofiles Sneak	c Peek Last Kr
Device	os		
Custom Device NameSony Ericsson_WT19aNameSony Ericsson_WT19aDevice TypeSmartphoneLast Connection06:16 21/07/16	Build	ersion l Version RAM able RAM	Android 4.0.4 UL5_3w 340.06 MB
Switch On Siren On Device			Close
 ✓ Vibrate Make Screen Flash 			Send

You can choose from the following options:

- 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 Off' from the same interface.

To generate alarm on several devices

- Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Select the devices on which you want to sound an alarm
- Click 'Siren' at the top and choose Siren On'

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© Search group name	Group Management		Device Management	
C All Devices	G	i		
+ 🖶 ABC TV Services	Enroll Device M	anage Profiles	Takeover Install or Updat Packages	Siren Send Message R
🕘 🖶 Chennai IT Services			-	
+ 🖶 Coyote	0 S	NAME	ACTIVE COMPONENTS	
🛞 🖶 Deer Company	• 🎬	LENOVO	AG	Siren Off
🔸 🖶 Default Company		Joe's Mac	AG AV	
🕂 🖶 Dithers Construction Co		UDE'S Mac	AU AV	
+ 🖶 Horizon		DESKTOP	AG AV FW CO	8 3
Switch on Siren on Device			Clo	se
Make scree flash				
			Send	

You can choose from the following options:

- 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 s top sounding an alarm, from the 'Device Management' interface.
- Click 'Siren' at the top and choose 'Siren Off'

5.2.12. Lock/Unlock Selected Devices

Administrators can remotely send a lock command to a device to prevent mislaid devices from being accessed by unauthorized persons, or to generally block access to the device. Locked devices can only be opened by entering a password 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 the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM

- Click the name of the device to be locked, to open the device details interface.
- Click the 'Lock' option from the top. If 'Lock' is not displayed, click 'More...' and choose 'Lock' from the
 options

LENOVO_Le	enovo A3	000-H								
Manage Profiles	Siren Off	ت) Siren On	Send Message	C Refresh Information		Wipe /	Reset Screen Passcode	Set Screen Passcode	Lock More	
Device Name Summary Installed Apps Associated Profiles						Sneak Peek Last Known Location Groups				
Device						OS				
Custom device name LENOVO_Lenovo A3000-H			os		Android					
Name		LENO	LENOVO_Lenovo A3000-H			OS version		4.2.2		
Device type			Tablet			Build version		A3000_A422_009_020_131112_WW_CAL L_FUSE		
Last connection		10:40	15:46 21/03/17			Total RA	M	974.75 MB		

The lock command will be sent. The device will be locked and the user can unlock the device by entering the screen lock password.

To remotely lock several devices at-once

- · Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Select the devices to be locked
- Click 'Passcode' from the options at the top or click 'More...' and select 'Passcode' from the drop-down.
- Choose 'Lock' from the options

، ใ ย	Grou	p Management	Device	e Management							
Enroll De		I Manage Profiles	Takeover	Install or Update Packages	Siren	Send Message	C Refresh Device Information		Wipe / Corporate		ore T
	0 \$	NAME	A	CTIVE COMPONEN	TS	PATCH ST	ATUS	COMPANY	OWNER	Set Screen F	Passcode (
	÷	LENOVO_	Len	AGAV				Deer Compa	· · · ·	Reset Screen	n Passcode :34:08
		Joe's Mac	D	AG AV				Deer Compa			2017/03/22 11:35:29
		DESKTOP	2-TT 🛕	AG AV FW CO		(B) 3		Deer Compa	iny ssgalia(@yahoo.c	2017/03/22 11:46:44
		Sony Erics	sso	AG AV				Deer Compa	iny Impala	;	2016/08/07 02:25:53
		and the second	1			Terrestering and a second					Vindavina Jul Cl

The lock command will be sent. The devices will be locked and the user(s) can unlock the device(s) by entering the screen lock password.

Confidential corporate documents and sensitive information can be stolen from a lost or stolen device. In order to prevent such information from leaking, administrators can remotely erase the contents of a lost device from the 'Device Management' interface.

Tip: Administrators can also configure the device to automatically wipe itself if somebody enters the wrong password a certain number of times. The automatic wipe feature can be enabled in the device profile along with the threshold of how many incorrect attempts should be allowed. To view this section, open 'Add/Edit Android Profile / iOS Profile > 'Passcode' (or refer to Passcode settings sections under **Profiles for Android Devices** and **Profiles for iOS Devices** in this guide).

The following sections explain more about:

- Wiping a single device
- Wiping several devices at-once

To erase the contents stored in a selected device

- Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the device to be wiped to open the 'Device Details' interface
- Click 'Wipe / Corporate' from the options at the top or click 'More...' and choose 'Wipe / Corporate' from the
 options

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ENOVO_Lenovo A	\3000-H							
Manage Profiles	ा जिल्ला (The second s	Send Message	C Refresh Information	Wipe / Corporate	Reset Screen Passcode	Set Screen Passcode	Lock	More
evice Name Summ	ary Install	ed Apps As	sociated Profiles	Sneak Peek	Last Known Lo	cation Groups	5	
Device				os				
Custom device name	LENO	/0_Lenovo A3000-	н	OS		Android		
Name	LENO	/0_Lenovo A3000	-H	OS versio	n	4.2.2		
Device type	Tablet			Build vers	sion	A3000_A422_0 L_FUSE	09_020_1311	12_WW_C/
Last connection	15:40	21/03/17		Total RAM	<u>/</u>	974.75 MB		
	Wipe (Corp	orate)				Close		
	Select wipe from	n the list below						
	Corporate \	Nipe (removes y	your device from s	ystem and profile	e information)	(~)		
4	Corporate Wip	e (removes your	device from system a	and profile informat	ion)			
	Full Wipe (fact	ory reset)						
						Wipe		

The 'Wipe (Corporate)' dialog will open.

- Select the content to be erased.
 - To remove only ITSM agent and configuration profiles, select 'Corporate Wipe' from the drop-down
 - To erase all the data from the device and the SD card, select 'Full Wipe' from the drop-down. The device will be returned to default factory settings after the wipe operation.
- Click the 'Wipe' button.

The wipe command will be sent and the data stored in the device will be deleted as per the wipe option chosen.

To erase the contents from several devices

- 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Select the devices to be wiped
- Click 'Wipe / Corporate' from the options at the top or click 'More...' and choose 'Wipe / Corporate' from the
 options.

i la Device Management Group Management Search gr C All Devices G. ø d \bowtie C C + ABC TV Services / Core Chennai IT Services + 🖶 Coyote Deer Company 1 LENOVO. AG AV 2017/03/21 04:4 Default Group - Deer Comp. Joe's Ma AG AV 2017/03/21 04-5 C 7 inch tabs C Default Group **(2)** 3 2017/03/21 04:5 C Innotek PC: Wipe (Corporate) Close 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

The 'Wipe (Corporate)' dialog will open.

- Select the content to be erased.
 - To remove only ITSM agent and configuration profiles, select 'Corporate Wipe' from the drop-down
 - To erase all the data from the device and the SD card, select 'Full Wipe' from the drop-down. The device will be returned to default factory settings after the wipe operation.
- Click the 'Wipe' button.

The wipe command will be sent and the data stored in the devices will be deleted as per the wipe option chosen.

5.2.14. 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, ITSM 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 **Configuration Profiles**, for more details on profiles.

To manage profiles applied to a device

- Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM

Select the device to be managed and click 'Manage Profiles' from the options at the top

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O Search group name	Group Management Device Management
C All Devices	
+ 🖶 ABC TV Services	Enroll Device Manage Profiles Takeover Install or Update Sime Packages
🔹 🖶 Chennai IT Services	Раскауса
+ 🖶 Coyote	OS NAI IE ACTIVE COMPONENTS
- 🖶 Deer Company	🔲 👘 💿 LENOVO 🛛 🗛 🗛
— 🕒 Default Group - Deer Comp	
— 😳 7 inch tabs	🗌 🚺 💿 Joe's Mac 🛛 🗛 🗛
— 🕒 Default Group	ESKTOP 🛕 🗛 🗛 🗛 🗛
— 🔁 Innotek PCs	AG AV
	AG AV
Manage Profiles of DESKTOP-TTF Add Profiles Image: The model of the profiles Remove Profiles	PO9PR
OS TYPE PROFILE NAME	OWNER
PC with 1TB hard drive	coyoteewile@yahoo.com
Purchase Dept Computers	coyoteewile@yahoo.com
Results per page: 20	Displaying 1-2 of 2 results.

• 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

Manage Profiles - Column Descriptions				
Column Heading	Description			
OS Type	Indicates the operating system of the device.			
Profile Name	The name assigned to the profile by the administrator. Clicking the name of a profile will open the 'Edit Profile' interface. Refer to the section Editing Configuration Profiles for more details.			
Owner	Indicates the Administrator that created the profile. Clicking the administrator name will			

The list of profiles currently active on the device will be displayed.

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open the user information interface of the administrator. Refer to the section **Viewing the Details of a User** 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. Refer to the section **Viewing and Managing Profiles Associated with a Device** for more details.

• To add a profile to the device, click 'Add Profiles' from the top left.

Mai	nage Prof	iles of DESKTOP-TTPO9PR	
Add Pr			
_			
Ē	Remove Profi	les	Ţ
	OS TYPE	PROFILE NAME	OWNER
		PC with 1TB hard drive	coyoteewile@yahoo.com
		Purchase Dept Computers	coyoteewile@yahoo.com
Resu	ts per page:	20	Displaying 1-2 of 2 results.
	,		
Add	l Profiles	to DESKTOP-TTPO9PR	
💾 s			
	ave		Ţ
	os type	PROFILE NAME	OWNER
		PROFILE NAME For Bobs PC	OWNER coyoteewile@yahoo.com
	OS TYPE		
	OS TYPE	For Bobs PC	coyoteewile@yahoo.com
	OS TYPE	For Bobs PC For Coyote Cert	coyoteewile@yahoo.com coyoteewile@yahoo.com
	OS TYPE	For Bobs PC For Coyote Cert Windows Profile for local desktops	coyoteewile@yahoo.com coyoteewile@yahoo.com coyoteewile@yahoo.com
	OS TYPE	For Bobs PC For Coyote Cert Windows Profile for local desktops Stores Test Components disabled	coyoteewile@yahoo.com coyoteewile@yahoo.com coyoteewile@yahoo.com coyoteewile@yahoo.com

A list of all profiles applicable to the chosen device, excluding those that are already applied to the device will be displayed.

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

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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.

Mai	nage Prof	iles of DESKTOP-TTPO9PR	
Add Pr			
	Remove Profi		•
	Kemove Pron		· · · · · · · · · · · · · · · · · · ·
	OS TYPE	PROFILE NAME	OWNE
	OS TYPE	PROFILE NAME PC with 1TB hard drive	OWNE coyoteewile@yahoo.com
	-	PC with 1TB hard drive	coyoteewile@yahoo.com

The selected profile(s) will be removed from the device immediately.

5.2.15. Set / Reset Screen Lock Password for Selected Devices

Administrators can remotely set a new screen lock passcode (or reset the existing code) for enrolled Android devices from the 'Device Management' interface.

Note: Setting new passcode from ITSM is not supported for iOS 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 the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- · Click the name of the device for which a new passcode is to be created or existing passcode is to be reset

The 'Device Details' interface will open.

• To set a new password, choose 'Set Screen Passcode' from the options at the top or click 'More...' and choose 'Set Screen Passcode' from the drop-down

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er: Impala	ovo A30	⊈)		o	0	E 0	E
	Siren Off	Siren On	Send Message	Refresh	Wipe / Corporate	Reset Screen S	et Screen Jasscode
ce Name	Summary	Install	ed Apps Ass	ociated Profiles	Sneak Peek	Last Known Location	Groups
			_				
evice					os		
ustom device	a name	LENOVO_	Lenovo A3000-H		os	Android	
ame		LENOVO_	Lenovo A3000-H		S version	4.2.2	
evice type		Tablet			Build version	A3000_A422 CALL_FUSE	2_009_020_131112_WW
est connectio	מי	11:34 22/	03/17	-/-			
Set N	ew Sc	reen-L	ock passw	vord			Close
Passwo	ord						
							۲

The 'Set New Screen-Lock password' dialog will appear.

Enter the new password in the 'password' text field.

Tip: You can use the eye icon	at the right end of the text field to display of hide the typed password.
-------------------------------	---

Click 'Set'.

The command will be sent to the device. This new password should be entered on the device to unlock it.

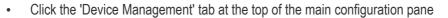
Note: If a passcode profile has been configured for the selected device, make sure to enter the new password that complies with the profile.

• To clear the existing password on the device choose 'Reset Screen Passcode' from the options at the top, or click 'More...' and choose 'Reset Screen Passcode' from the options.

The command will be 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 the 'Devices' link on the left then choose 'Device List'



- Select the Company and choose the group under it to view the list of devices in that group Or
- Select 'All Devices' to view every device enrolled to ITSM
- Select the devices to set/reset password.
- To set a new password, choose 'Passcode' from the options at the top or click 'More...' and select 'Passcode' from the drop-down
- Choose 'Set Screen Passcode' from the options

All Devices	5	ii 😥			4	\bowtie	0		0	=		
ABC TV Services	Enroll Device	Manage Profiles			Siren Ser	nd Message	Refresh Device Information		Wipe / Corporate	Passcode	More	
Chennal IT Services	0 os	NAME	A	CTIVE COMPONEN	TS	PATCH ST	ATUS	COMPANY	own	Set Screen	Passcode	>
Deer Company		LENOVOLI	Len	AG AV				Deer Compag	Impel	Reset Scre	en Passcod	•
Default Group - Deer Company 7 inch tabs		 Joe's Mac 		AG AV				ever Compan	y Impel	Lock	2017/03/22	
C Default Group	0 8											11-38
Set New So				ord <i>K</i>		0 1		Deer Compan	y 1993	Cl	2017/03/22	
						3		Deer Compan	y 56935		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Set New So						© 3		Deer Compan	v segaš		ose	
Set New So						® 1		Deer Compan	γ toge5	Cl	ose	
Set New So						© 1		Deer Company	γ toge3	Cl	ose	

The 'Set New Screen-Lock password' dialog will appear.

Enter the new password in the 'password' text field.



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 of the devices and choose 'Passcode' from the options at the top or click 'More...' and select 'Passcode' from the options.
 - 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

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device, the user will be required to enter a new password that complies with the profile.

5.2.16. Update Device Information

The agent on an enrolled device sends full information about the device to the ITSM console. 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. If required, device information can be fetched in real time by clicking 'Refresh Device Information' in the 'Device Management' interface.

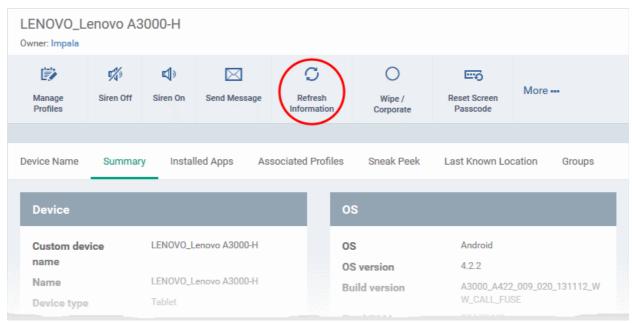
The following sections explain more about:

- · Getting updated information from a single device
- · Getting updated information from several devices at once

To get updated information from a single device

- Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- 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.



Click 'Refresh Information' from the options at the top

To get updated information from several devices

- · Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or

- Select 'All Devices' to view every device enrolled to ITSM
- Select the devices to refresh information from.

•

 Click 'Refresh Device Information' from the options at the top or click 'More...' and choose 'Refresh Device Information' from the options.

© Search group name	< C Gro	up Management	Device Management		\sim	
C All Devices		(0	
+ 🖶 ABC TV Services	Enroll Device	Manage Profiles		Siren Send Messa	ge Refresh Devid	
🔹 🖶 Chennai IT Services			Packages			/
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– 🖶 Deer Company	 	LENOVO	AGAV		Deer Compa	Impa la
 Default Group - Deer Co 7 inch tabs 		Joe's Mac	AGAV		Deer Compa	Impala
— 🔁 Default Group		DESKTO	AG AV FW CO	8 3	Deer Compa	ssgalia @

5.2.17. Send Text Message to Devices

ITSM allows administrators to send text messages to enrolled Android and iOS devices. This will come in handy if you need to send important device or company notifications to all users.

Note: For iOS devices, the ITSM client should be installed for this feature to be supported.

The following sections explain more about:

- Sending message to a single device
- Sending message to several devices at-once

To send a text message to a single device

- · Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the device to which a message should be sent

The 'Device Details' interface will open.

•

• Click 'Send Message' from the options at the top.

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LENOVO_Lenovo A3000-H Owner: Impala 澎 **%** ø C \cap \sim More ----Refresh Siren Off Siren On Send Message Manage Wipe / Profiles Information Corporate Associated Profiles Sneak Peek Installed Apps Device Name Summary Last Known Location Device 0S **Custom device** LENOVO_Lenovo A3000-H **0**S Android name 4.2.2 OS version Name Send Message Close Message Your device password is changed. Please contact administrator for the new password Send

The 'Send Message' dialog will open.

- Enter the text message in the 'Message' field.
- Click on 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 the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Select the 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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Ø Search group name	د 🔁 Gro	oup Management	Device Management	\sim	
C All Devices	G	(\$ ≥	S
→ 昌 ABC TV Services	Enroll Device	Manage Profiles		Siren Send Messa	ge Refresh Device Information
+ ♣ Chennai IT Services + ♣ Coyote	os 🗌	NAME	ACTIVE COMPONENTS	PATCH STATUS	COMPANY
+ 🖶 Deer Company	•	LENOVO	AG AV		Deer Compa
+		Joe's Mac	AG AV		Deer Compa
+ 🖶 Horizon		DESKTO	A AG AV FW CO	(B) 3	Deer Compa
🛨 🖶 Kanchi Customer		Sony Eri			
Send Message Message Your device pa		nged. Please con	tact administrator for the n	Close ew password .:i	
				Send	

The 'Send Message' dialog will open.

- Enter the text message in the 'Message' field.
- Click on the 'Send' button.

The message will be sent to the selected devices for the users' attention.

5.2.18. Restart Selected Windows Devices

ITSM allows administrators to remotely restart Windows machines as required. Administrators can specify how long to delay the restart and add a warning message that will be displayed to users after the restart command has been sent. Administrators can also choose to allow end-users to postpone the restart.

Note: The reboot option is only available for Windows devices.

The following sections explain more about:

- Restarting a single device
- Restarting several devices at-once

To restart a single device

- · Click the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the Windows device to be restarted

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The device details interface will open.

• Click the 'Reboot' option at the top.

DESKTOP-HIP81N Owner: Dyanora	3	
Manage Profiles Remote Cor	trol Install Refresh Information Reboot Export Security Delete Devic	e Change Owner
Device Name Summ		File List Exported Configurations
Device Summary Custom device name Name	1 minute	X /indows licrosoft Windows 10 Pro (x64)
Logged user AD\LDAP Domain\Workgroup Formfactor	Warn about the reboot and let users postpone it Reboot message * Your device will reboot in 1 minute because it's required by your administrator	0.0.14393 //A 4393 6:42 29/05/17
Model Comodo Client - Communication version	Send a message and reboo	he process C:\Windows\System32 RuntimeBroker.exe (DESKTOP-HIP81N3)

The 'Reboot' dialog will open.

To restart the end-point after a certain period of time

- Choose 'Force the reboot in' and select the delay period.
- Click 'Send a 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

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 a message and reboot'

The message will be displayed at the device as shown below:

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C	COMODO ONE Client - Communication Reboot
	Your device need 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 the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Select the Windows devices to be restarted
- Click 'Reboot' from the options at the top or click 'More' and choose 'Reboot' from the options

The 'Reboot' dialog will open.

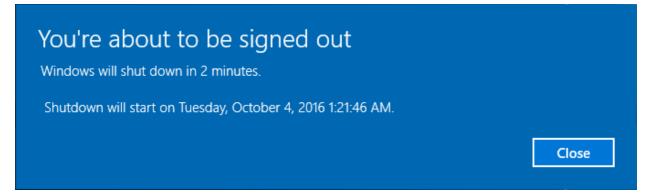
To restart the end-points after a certain period of time

، ۴	Grou	ıp Management	Device N	lanagement					
Enroll D		Remote Control	F Run Procedure	Manage Profiles	Install or Update Packages	C Refresh Device Information	Reboot	More	
	OS	NAME	ACTIVE C	OMPONENTS	PATCH STATUS	COMPANY	OWNER	LAS	
		DESKTO	Reb	pot				×	05/24
		DESKTO						ſ.	05/30
	ı∰ı	LENOVO	-	t options proe the reboot in					05/30
	-	🍵 samsung		5 minutes	ot and let users postp	oone it		~	05/30
		DESKTO		t message *	or and for users postp				05/30
		C1-Mac's	. You	Ir device will reboo	t in 5 minutes becaus	e it's required by yo	ur administrato	or	05/19
		Sony Eric							<u>:</u> 38;10
Results	per pag	e: 20 🗸				Ser	nd message an	d reboot	

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- Choose 'Force the reboot in' and select the delay period.
- Click 'Send a message and reboot'

The message will be displayed at the device as shown below:



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 a message and reboot'

The message will be displayed at the devices as shown below:

COMODO ONE Client - Communication Reboot
Your device need 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'.

5.2.19. Change a Device's Owner

ITSM allows administrators to assign device ownership to another user.

The following sections explain more about:

- Changing ownership of a single device
- Assigning multiple devices to single owner at-once

To change the device ownership of a single device

- Click the 'Devices' link on the left then choose 'Device List'
- · Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group



Or

- Select 'All Devices' to view every device enrolled to ITSM
- Click the name of the device whose ownership is to be changed

The 'Device Details' interface will open.

- Click 'Change Owner' from the options at the top or click 'More...' and choose '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'

roll Dev	vice _R	emote Control	Run Procedur	e Manage Profiles	Install or Update R Packages	G Refresh Device Information	Reboot	Owner Sen	i Message – F	asscode	More	2
	OS	NAME		ACTIVE COMPONENTS	S PATCH STATU	JS COMPA	NY	Change Own	er 🔿	IT ACT	IVITY	
	12	DESKTO	P-HI950	AG AV FW CO	ø	Default	Company	Change Own	ership Type	7/05/2	4 04:43:34	PM
	12	• DESKTO	Change	Owner				×	1	2017/05/3	0 04:13:00) PM
	ب	LENOVO						0(gmail 3	2017/05/3	0 04:13:30) PM
		e samsun	Username * Type ow	ner username to sea	arch among users			e(gmali :	2017/05/3	0 04:11:06	5 PM
	41	DESKTC							1	2017/05/3	0 04:12:43	B PM
		C1-Mac					6	Change	3	2017/05/1	9 02:55:44	I PM
٦	-	Sony Erio	csson .	AG AV		Deer Co	mpany	Impala	:	2016/08/0	7 02:25:53	AM

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 the 'Devices' link on the left then choose 'Device List'
- Click the 'Device Management' tab at the top of the main configuration pane
 - Select the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
 - Select the 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

∡ង Group Management Device Management \mathcal{O} E; -Ë) Þ S -Q Enroll Device Run Procedure Manage Profiles Install or Update Refresh Device Reboot Remote Control More Packages Information ACTIVE COMPONENTS сом PATCH STATUS Là **Delete Device** AST ACTI Wipe / Corporate 10 2017/05/24 04 DESKTO... AG AV FW CO \odot Default Siren DESKTO... AG AV FW CO 8 5 2017/05/30 04 Dithers Passcode LENOVO... AG AV Dithers Send Message 2017/05/30 04 ጿ Change Owner Owner 2017/05/30 04 samsung. AG AV Change Ownership Type DESKTO. **(*)** 4 Dithers Con. 2017/05/30.04 AGAV Dvanora Change Owner × 2017/05/19 0 Username * Type owner username to search among users Change

- 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.

5.2.20. Change the Ownership Status of a Device

- Administrators 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 ITSM 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 ITSM. 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

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- · 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- Click the name of a device whose ownership status you wish to change.

The device details interface will open.

LENOVO_L Dwner: Impala	enovo A3	000-H									
Manage Profiles	🐝 Siren Off	Siren On	Send Message	G Refresh Information	Wipe / Corporate	Reset Screen Passcode	Set Screen Passcode	Lock	Delete Device	Change Owner	Change Ownership Type
	Buoman	v Insta	led Apps As:	sociated Profiles	Sneak Peek	Last Known Lor	cationGroups	5			Not Specified Personal Corporate

- Click 'Change Ownership Type' from the options at the top and choose from the following options:
 - Personal
 - Corporate
 - Not Specified

To set the ownership status of several devices at-once

- · 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 the Company and choose the group under it to view the list of devices in that group Or
 - Select 'All Devices' to view every device enrolled to ITSM
- 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

The 'Change Ownership Type' dialog will appear:

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	، گ	Group Mar	nagement	Device N	lanagement						
C All Devices	Ģ	1			6			ç	3)
💿 🖶 ABC TV Services	Enroll De	avice Mana							Device	Rebox Mon	.)
+ 🖶 Chennal IT Services	1.00										
+ 🖷 Coyote		OS NA	ME	ACTIVE C	OMPONENTS	PATCH	STATUS	COMPAI) w	ipe / Corporate	AST ACTIVI
+ 🖶 Deer Company			LENOVO	AG	W.				_		017/03/22 0
+ 📾 Default Company		0.	Joe's Mac	AG A	v			Develop	G De	elete Device	017/03/22 0
 Bithers Construction 				ANUUS TEININ		Change	Owner	۰.	23 O	wner	
+ 🖶 Horizon		4	DESKTO	AG /	V FW CO	Change	Ownership	Туре			017/03/22 0
+ 🖶 Kanchi Customer		• •	Sony Eri	AG Z				Deer Com		Impala	2016/08/07 0
Not aposifi	d										
Not specific	ed .										
O Personal	d										
	ed										

- Choose the ownership type to be assigned to the selected devices and click 'Change'. The available options are:
 - Personal
 - Corporate
 - Not Specified

5.2.21. Generate Device List Report

- You can generate a report of devices listed in the 'Device Management' table.
- You can apply filters to the device list then generate a report which contains only filtered items.

To generate device list report

• Click 'Devices' > 'Device List' > 'Device Management'

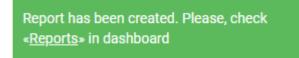
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6	Grou	up Managemen	Device M	lanagement												
Errol Dev	ice	Remote Control	2	🕑 Manage Profiles	instali or i Packa	Ipdare Rel	C tresh Device formation	Reboor	Quiner Owner	Send Message	Panacode	K∰ , Sinen) Wipe / Corporate	Delete Device	[±] Export	
р s	earc	h for devices														Ø 1
D	os	NAME			ACTIN	E COMPONEN	ITS P	ATCH STATUS	COMPA	UNIY		OWNER			LAST ACTIVITY	
		ettest-	00	9	. MG	w rw co		2	kamal			kamalgy	opmail.com		2018/04/19 10:31:15 AM	
	-	• DESKT	P-FRCUSGJ		. 🗠			1	kamal			kamal@y	opmail.com		2018/04/20 02:57:08 PM	
	11 == 22 -22	DESKTO	P-81RSI00	4	. 10	AV FW CO	0	12	kamal			kamalgiy	opmail.com		2018/04/17 01:52:14 PM	
		e C1-Mac			53	AV.			kamal			kamalgy	opmail.com		2018/04/16 04:26:54 PM	

- Apply any filters that you require.
- Click 'More' > 'Export' > 'Export to CSV' on the top navigation:



A confirmation message will be shown:



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 agent 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 Comodo Remote Control (CRC) tool for remote desktop management of Windows and Mac OS devices For help to download and install the CRC tool, see Download Remote Control Tool.
- Click 'Devices' on the left then choose 'Bulk Enrollment Package'

ITSM allows bulk enrollment of Android, iOS, Windows and Mac OS devices in the following ways:

Windows and Mas OS devices:

- Admins can download the C1 Communication agent installer 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 Comodo Auto Discovery and Deployment Tool (ADDT), or by manual installing the agent on endpoints.

Once the agent is installed, it communicates with your ITSM portal and enrolls the device automatically. Refer to the following sections for more details:

- Enroll Windows and Mac OS Devices by Installing the ITSM Agent Package
 - Enroll Windows Devices Via AD Group Policy
 - Enroll Windows and Mac OS Devices by Offline Installation of Agent
 - Enroll Windows Devices using Comodo 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 ITSM via Active Directory integration. Help to import users from AD is available in Importing 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 ITSM Agent Package

Comodo ITSM requires an agent to be installed on each managed Windows and Mac OS device to enable communication with the ITSM 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 Enrolling Windows Endpoints and Enrolling Mac OS Endpoints for more details
- Administrators can manually enroll devices by downloading the installation package from ITSM and installing it on a target device.
- Administrators can bulk enroll devices by downloading the agent package from ITSM and creating a software installation group policy for their Active Directory (AD) server.
- Alternatively, admins can bulk enroll devices using the 'Comodo Auto Discovery and Deployment Tool'. Click 'Tools' in the Comodo One file-menu to access and download the tool. See Enroll Windows Devices using Comodo Auto Discovery and Deployment Tool for help to configure the too.

The 'Bulk Installation Package' interface allows you to download the agent and Comodo One 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' on the left then select 'Bulk Installation Package'.
- Select the 'Bulk Installation Package' tab.

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IT & Security Manager	E Bulk Installation Package
DASHBOARD	
DEVICES	Bulk Installation Package Comodo Remote Control
Device List	
Bulk Installation Package	User * demo_q3@yopmail.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
CONFIGURATION TEMPLATES	corresponding user name into the field above. Company *
APPLICATION STORE	· · · · · · · · · · · · · · · · · · ·
APPLICATIONS	Device group
SECURITY SUB-SYSTEMS	
CERTIFICATES	Comodo Client
SETTINGS	Choose operating system
	Windows x64
	Choose clients
	Comodo Client - Communication
	Comodo Client - Security
	Additional options
	Include initial Antivirus signature database (will apply only if a profile contains Antivirus section)
	Profile *
	Optimum Windows Profile for ITSM 6.10

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 Comodo 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 ITSM agent 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 agent (CCC) and CCS should use to connect to ITSM 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 **Changing a Device's Owner** for more details.

Note: The AD method only allows you to install ITSM agent (CCC) on target endpoints. You can remotely install the endpoint security software, Comodo Client - Security (CCS), at a later time from the ITSM interface. See **Remotely Installing Packages onto Windows Devices** for more details.

To download the installation package



- Click 'Devices' on the left then choose 'Bulk Installation Package'
- Select the 'Bulk Installation Package' tab

User *	
mmoxford@yahoo.cor	n
By default, an installation pack input the corresponding user na	age will be prepared for the logged in user. If you would like to change the user, pleas ame into the field above.
Company *	
Default Company	
Device group	
Default Group - Defau	It Company
Comodo Client Choose operating system	
Windows x64	
Choose clients	
Comodo Client - Com	nmunication
Comodo Client - Sec	
Additional options	
	us signature database (will apply only if a profile contains Antivirus
Include Initial Antivity	us signature database (will apply only if a profile contains Antivirus
	us signature database (will apply only if a profile contains Antivirus
	us signature database (will apply only if a profile contains Antivirus Download Installer
By downloading	Download Installer
By downloading	Download Installer
By downloading	Download Installer
By downloading Proxy settings 10.108.51.137	Download Installer
By downloading Proxy settings	Download Installer
By downloading Proxy settings 10.108.51.137	Download Installer
By downloading Proxy settings 10.108.51.137 443	Download Installer

	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 first few characters of the name of the user in the text field and choose the user from the options that appear.
Company	Choose the company to which the endpoints should be assigned. This field only applies to C1 MSP customers and is not available for C1 Enterprise or ITSM stand-alone customers.
Device Group	The drop-down displays the list of device groups added to ITSM
	Choose the device group, to which the enrolled devices are to be added.
	On completion of enrollment, the group configuration profiles will be applied to the endpoint. See Assigning Configuration Profiles to a Device Group for more details.
Comodo Client	Allows you to choose the components to be added to the installation package. The available options are:
	 Choose operating system - Select the operating system of the target endpoints. The options are: Windows x64, Windows x86, Windows x86 & 64 and Mac OS.
	 Communication - Adds Comodo Client - Communication agent to the installation package.
	 Security - Adds the security product, 'Comodo Client - Security' (CCS) to the installation package.
	To create an installation package in MSI/MST file format for bulk enrollment through AD Group Policy, leave only the 'Communication' selected and 'Security' unselected. You can remotely install CCS at a later time on required endpoints from the ITSM. Refer to the section Remotely Installing Packages onto 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 Comodo Client Communication (CCC) in the endpoints should connect to ITSM management portal and Comodo servers. If you choose not to set these, then CCS and CCC 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 ITSM server to begin importing the device.

• To download the installation file to include a proxy server for CCC and CCS communication to ITSM and

ITSM 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 ITSM 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-ITSM-%E2%80%93-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

Administrators can download an installation package containing the agent and the Comodo Client - Security (CCS) software for offline installation. This is useful for endpoints which could not be reached by ITSM for auto-installation of the agent during enrollment.

ITSM 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 ITSM. Administrators can download installation packages only for existing users.

To download the installation package

- Click 'Devices' on the left then choose 'Bulk Installation Package'
- Select the 'Bulk Installation Package' tab

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ulk Installation Package	Comodo Remote Control	
User *		
mmoxford@yahoo.con	0	
	ge will be prepared for the logged in user. If you would like to change the user, p	lease
input the corresponding user na		
Company *		
Default Company		`
Device group		
Default Group - Defaul	t Company	
Comodo Client		
Choose operating system		
Windows x64		
Choose clients		
Comodo Client - Com		
Comodo Client - Secu	inty	
Additional options		
	is signature database (will apply only if a profile contains Antivi	rus
	Download Insta	ller
By downloading t	this files you automatically agree with «End User License Agree	men
Proxy settings		
Frony settings		
10.108.51.137		
443		
joe		
•••••		
	Download MST F	-11

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	Bulk Installation Package - Form Parameters
Parameter	Description
User	Allows you to specify the user to whom the endpoint(s) should be assigned upon enrollment. By default, the 'User' field is pre-populated with the currently logged-in administrator.
	• Start typing the first few characters of the name of the user in the text field and choose the user from the options that appear.
Company	Choose the company to which the endpoints should be assigned. This field only applies to C1 MSP customers and is not available for C1 Enterprise or ITSM stand-alone customers.
Device Group	The drop-down displays a list of device groups added to ITSM
	Choose the device group to which the enrolled devices should be added.
	On completion of enrollment, the group configuration profiles will be applied to the endpoint. Refer to the section Assigning Configuration Profiles to a Device Group for more details.
Comodo Client	Allows you to choose the components to be added to the installation package. The available options are:
	• Choose operating system - Select the operating system of the target endpoints. The options are: Windows x64, Windows x86, Windows x86 & 64 and MacOS.
	 Communication - Adds Comodo Client - Communication agent to the installation package.
	 Security - Adds the security product, 'Comodo Client - Security' (CCS) to the installation package.
	Choose both the options to create a package for offline installation.
Enrollment Link	This field will be 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.
Comodo Client - Security	Allows you to choose whether or not CCS is to be included in the package.
Additional Options	Allows you to choose whether or not the latest virus signature database should be included in the installation package.
	Note: Selecting this option ships the latest database with the CCS software and allows the application to run the initial antivirus scan without needing to update its local database. This enables CCS to identify the very latest malware, even if the endpoint is offline. You can choose whether or not to include the database, depending on the network resources you are currently using.
	If you choose to not to include the signature database at this time, it will be automatically updated at the endpoint during the first run of CCS scan.
Profile	Allows you to choose a configuration profile to be applied to the endpoint(s) upon enrollment.
	• Start typing the first few characters of the profile to be applied in the text box and choose the profile from the options that appear.
	This is optional. If you do not choose a profile, only the default profiles will be applied upon device enrollment.
	Tip: You can apply additional profiles or remove existing profiles later. Refer to the

	section Viewing and Managing Profiles Associated with the Device for more details.
Restart Control Options	CCS requires endpoint(s) to be restarted for the installation to take effect. You can configure the restart options:
	• To restart the end-point a certain period of time after installation, choose 'Force the reboot in' and select the delay period from the drop-down. A warning message will be displayed to the user and the endpoint will be restarted automatically when the time period elapses.
	• To continue without restarting, choose 'Suppress reboot'. The installation will take effect only when the user restarts the endpoint.
	• To restart the end-point at the user's convenience, choose 'Warn about reboot and let user(s) postpone the reboot'. Enter a message to be displayed to the user in the 'Reboot Message' field. The message dialog will be displayed to the user when installation is complete. The user can choose to restart the endpoint immediately by clicking 'Reboot now' or postpone the restart until a later time.
UI Options	Allows you configure the messages to be displayed to the user regarding the CCS installation status.
	If you wish the user to be notified about an unsuccessful installation, select 'Show error messages if installation failed'
	If you wish the user to be notified about a successful installation, choose 'Show a confirmation message upon completion of installation' and enter a message in the 'Confirmation Message' field.
Proxy Settings	Leave these blank as these settings are not required for the offline installation package.

Click 'Download Installer'.

For Windows Devices

ITSM 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 ITSM server and the device will be automatically enrolled.

For Mac OS Devices

ITSM will create a custom installation file in .pkg format for installation on to the user's Mac OS devices. Administrator 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 ITSM only after both the agent and the configuration profile are installed on the devices.

5.3.1.3. Enroll Windows Devices using Comodo Auto Discovery and Deployment Tool

Comodo Auto Discovery and Deployment Tool (CADDT) allows network admins to remotely deploy the ITSM agent and client security application to multiple endpoints. You can install via Active Directory, Workgroup, IP address/range or host-name.

- You first need to create your installation packages using the 'Bulk Installation Package' interface in 'Devices'
- After creating your packages, you will be given the opportunity to download the 'Auto-Discovery and Deployment Tool' (ADDT).
- If you have already created your packages, you can download ADDT directly from the Comodo One 'Tools' interface. Help to use ADDT can be found at https://help.comodo.com/topic-289-1-851-11043-Introduction-to-Comodo-Auto-Discovery-and-Deployment-Tool.html

Prerequisite - The user of the device should already have been added to ITSM. Administrators can download installation packages only for existing users.

To download CADDT and installation packages

Click 'Devices' on the left and choose 'Bulk Installation Package' •

ulk Installation Package	Comodo Remote Control	
User *		
mmoxford@yahoo.co	ATT kage will be prepared for the logged in user. If you would like to change the user,	planca
input the corresponding user		piease
Company *		
Default Company		~
Device group		
Default Group - Defa	ult Company	~
Comodo Client		
Choose operating system		
Windows x64		~
Choose clients		
Comodo Client - Co	mmunication	
Comodo Client - See		
Additional options	-	
	rus signature database (will apply only if a profile contains Antiv	virue
	as signature database (init apply only in a prome containe rate	
	Download Insta	aller
By downloading	this files you automatically agree with «End User License Agre	ement.
Proxy settings		
Floxy Settings		
10.108.51.137		
443		
joe		
•••••		
		F :1-
	Download MST	File

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Bulk Installation Package - Form Parameters		
Parameter	Description	
User	Allows you to specify the user to whom the endpoint(s) should be assigned upon enrollment. By default, the 'User' field is pre-populated with the currently logged-in administrator.	
	• Start typing the first few characters of the name of the user in the text field and choose the user from the options that appear.	
Company	Choose the company to which the endpoints should be assigned. This field only applies to C1 MSP customers and is not available for C1 Enterprise or ITSM stand-alone customers.	
Device Group	The drop-down displays a list of device groups added to ITSM	
	 Choose the device group to which the enrolled devices should be added. 	
	On completion of enrollment, the group configuration profiles will be applied to the endpoint. Refer to the section Assigning Configuration Profiles to a Device Group for more details.	
Comodo Client	Allows you to choose the components to be added to the installation package. The available options are:	
	 Choose operating system - Select the operating system of the target endpoints. The options are: Windows x64, Windows x86, Windows x86 & 64 and Mac OS. 	
	 Communication - Adds Comodo Client - Communication agent to the installation package. This is required for the endpoints to connect to ITSM. 	
	 Security - Adds the security product, 'Comodo Client - Security' (CCS) to the installation package. 	
	Choose both the options to create a package for offline installation.	
Comodo Client - Security	Allows you to choose whether or not CCS is to be included in the package.	
Additional Options	Allows you to choose whether or not the latest virus signature database should be included in the installation package.	
	Note: Selecting this option ships the latest database with the CCS software and allows the application to run the initial antivirus scan without needing to update its local database. This enables CCS to identify the very latest malware, even if the endpoint is offline. You can choose whether or not to include the database, depending on the network resources you are currently using.	
	If you choose to not to include the signature database at this time, it will be automatically updated at the endpoint during the first run of CCS scan.	
Profile	Allows you to choose a configuration profile to be applied to the endpoint(s) upon enrollment.	
	 Start typing the first few characters of the profile to be applied in the text box and choose the profile from the options that appear. 	
	This is optional. If you do not choose a profile, only the default profiles will be applied upon device enrollment.	
	Tip : You can apply additional profiles or remove existing profiles later. Refer to the section Viewing and Managing Profiles Associated with the Device for	

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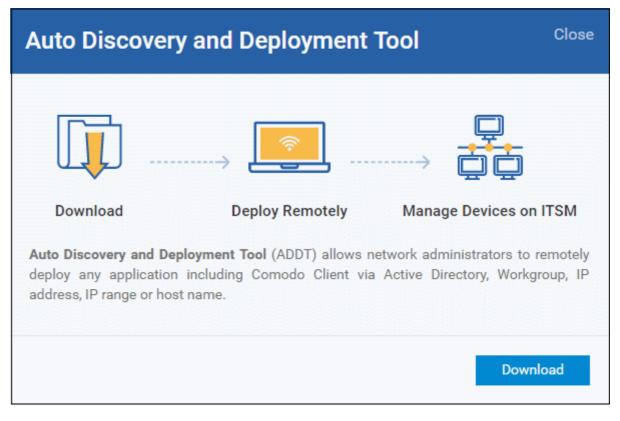
	more details.	
Restart Control Options	CCS requires endpoint(s) to be restarted for the installation to take effect. You can configure the restart options:	
	• To restart the end-point a certain period of time after installation, choose 'Force the reboot in' and select the delay period from the drop-down. A warning message will be displayed to the user and the endpoint will be restarted automatically when the time period elapses.	
	 To continue without restarting, choose 'Suppress reboot'. The installation will take effect only when the user restarts the endpoint. 	
	 To restart the end-point at the user's convenience, choose 'Warn about reboot and let user(s) postpone the reboot'. Enter a message to be displayed to the user in the 'Reboot Message' field. The message dialog will be displayed to the user when installation is complete. The user can choose to restart the endpoint immediately by clicking 'Reboot now' or postpone the restart until a later time. 	
UI Options	Allows you configure the messages to be displayed to the user regarding the CCS installation status.	
	If you wish the user to be notified about an unsuccessful installation, select 'Show error messages if installation failed'	
	If you wish the user to be notified about a successful installation, choose 'Show a confirmation message upon completion of installation' and enter a message in the 'Confirmation Message' field.	
Proxy Settings	Leave these blank as these settings are not required for the offline installation package via CADDT.	

Click 'Download Installer'

Your packages will be created and downloaded to your default download location. Next, you need to deploy the packages to your target endpoints.

At the end of the package creation process, you will be given the opportunity to download the 'Auto Discovery and Deployment Tool' (ADDT):

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Click 'Download'

Comodo ADDT is a portable app which does not require installation. ADDT allows you to deploy the ITSM agent and CCS onto endpoints via Active Directory, Workgroup or by Network Address. For more details about how to deploy applications via ADDT, visit https://help.comodo.com/topic-289-1-851-11043-Introduction-to-Comodo-Auto-Discovery-and-Deployment-Tool.html

5.3.2. Enroll Android and iOS Devices of AD Users

Prerequisite: The devices you want to bulk enroll belong to users who were imported to ITSM via integration with your Active Directory server. Refer to the section **Importing User Groups from LDAP** for more details.

- Enrolling the Android devices of users who were imported from an AD domain requires the ITSM agent to be installed on the device. After installation, the user should login to the client using their domain username and password.
- Instructions on enrolling via active directory are available in the ITSM interface. The instructions contain the agent download URL and the enrollment link.

Open the enrollment instructions

Import Android devices

Import iOS devices

To view enrollment instructions

- 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'.

IT & Security Manager	■ Device List	
DASHBOARD	>	
DEVICES	Group Management De	License Options
Device List		Create User
Bulk Installation Package	Enroll Device Manage Profiles Takeov	
USERS	> V	Enroll Device
CONFIGURATION TEMPLATES	OS NAME	
	DESKTOP-TTP09	
APPLICATION STORE	LENOVO_Lenovo	A300

The 'Enroll Devices' dialog will open for the currently logged-in user:

Enroll Devices		С	lose
Please choose the device owner(s) x coyoteewile@yahoo.com (Deer Company)	1		
Coyoteewile@yanoo.com (Deer Company	<u>)</u>		
Show Enrollment Inst	tructions	Email Enrollment Instructions	

Click 'Show Enrollment Instructions'

The 'Enroll Device' page will appear with enrollment instructions for Windows, Mac OS, Android and iOS devices.

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Enroll Device

NOTE:

• Please select enrollment instructions appropriate for your operating system and make sure you complete all the necessary steps from your desktop machine or mobile device.

Comodo IT and Security Manager (ITSM) is a centralized device management system that allows network administrators to manage, monitor and secure desktop and mobile devices connecting to the enterprise networks. Once you have enrolled your device, it will have a security policy applied to it which will authenticate it to your company's network and protect it from malware. Apart from other available ITSM operations, system administrators can create/delete user accounts, apply account restrictions, collect device and application data, deploy software updates and remotely erase data on users' devices.

For Windows devices

Enroll using this link: <u>https://deer_company-coyote-msp.cmdm.comodo.com:443/enroll/windows/msi/token</u>/15745503c8e60253b4db1cf634a09954

For Apple devices

The second s

Host: deer_company-coyote_____

Port: 443 Token: 15745503c8e60253b4db1cf634a09954

Enrolling 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://coyote-msp.cmdm.comodo.com:443/enroll/apple/login

Use the login and password of your domain.

For Android devices

Download and install Comodo Client application tapping the following link: <u>https://play.google.com/store</u> /apps/details?id=com.comodo.mdm

Upon completion of the installation, enroll using this link: <u>https://coyote-msp.cmdm.comodo.com:443/enroll</u>/android/login

Use the login and password of your domain.

- Scroll down the page to the section 'Enrolling Active Directory devices'
- From this point, see either Import Android devices or Import iOS devices

Android Devices:

- Email the Android client download and enrollment links to all users
- Users should open the mail on the device you wish to enroll then open the agent download link
- The agent will be downloaded and installed on the device
- After installation is complete, the user should next tap the enrollment link.
- This will open a login page where they should enter the username and password they use to log into their domain:

COMODO Login	🛜 📶 📶 🛢 5:26 рм
PIN code	AD credentials
Login Password	
Lo	gin

After agreeing to the EULA, the user should hit 'Activate' to grant the ITSM client admin privileges:

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Activate device administrator?



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

- Erase all data Erase the tablet's data without warning by performing a factory data reset.
- Change the screen-unlock password Change the screen-unlock password.
- Set password rules Control the length and the characters allowed in screen-unlock passwords.
- Monitor screen-unlock attempts
 Monitor the number of incorrect passwords typed when unlocking the screen, and lock the tablet or erase all the tablet's data if too many incorrect passwords are typed.

Activate

- Lock the screen Control how and when the screen locks.
- Set lock-screen password expiration

Cancel

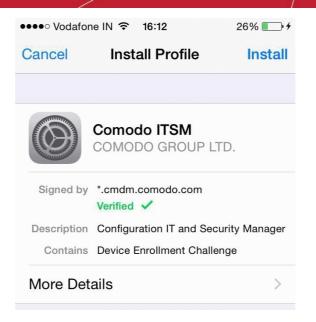
• After activating, the ITSM agent home screen will appear:

	🔝 🎢 📗 5:30 рм
	í
💬 Messages	
Notifications	

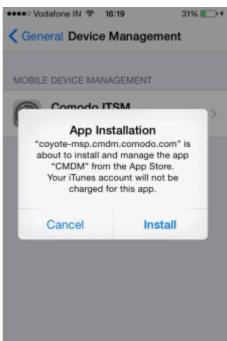
• The device is enrolled to ITSM and can be remotely managed from the ITSM console.

iOS Devices:

- Email the Apple enrollment link to all users
- · Users should open the mail on the device you wish to enroll then tap the enrollment link
- After tapping the link, a configuration profile will be downloaded and the installation wizard will start.



- The user needs to follow the wizard to complete the profile installation.
- After installing the profile, a login page will appear.
- The user needs to enter the username and password they use to log into their domain.
- The device will communicate with ITSM to begin enrollment.
- After the profile has been installed and the device enrolled, the client app installation will begin. The app is
 essential for app management, GPS location and messaging from the ITSM console.



- The user should tap 'Install'. The app will be downloaded for free from the iTunes store using the user's iTunes account. Users may need to login with their Apple ID for the download to commence.
- After installation, users should tap the green 'Run After Install' icon on the home screen:





The user should next accept the EULA to successfully complete device enrollment:

No Service 후 18:45 7 💶 🕂

END USER LICENSE AGREEMENT AND TERMS OF SERVICE

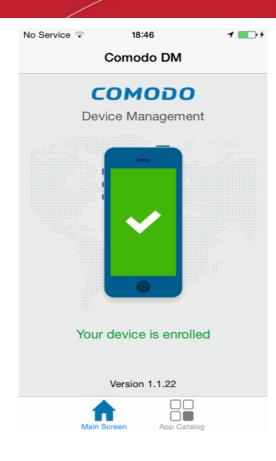
COMODO DEVICE MANAGEMENT VERSION 4.5

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 AOOED1

Accept Decline





Tapping 'App Catalog' will display apps that are installed, required to be installed and available for installation:

No Service ᅙ	18:46		1 💼 +	
C	Applicatio	Applications		
	Required		/	
-0	Gismeteo lite Required	PENDING	>	
S	Happy bird in Flappy	INSTALL	>	
	ITSM Required	INSTALL	>	
0 C + = X =	The Calculator Required	INSTALLED	>	
N	Aain Screen	App Catalog		

5.3.3. Download and Install the Remote Control Tool

- The Comodo Remote Control (CRC) tool allows admins and staff to remotely take control of managed Windows and Mac OS endpoints.
- This is useful in a number of circumstances, but especially for troubleshooting issues, running system



maintenance tasks and providing training to users.

- You can download the tool from two places:
 - ITSM interface Click 'Devices' > 'Bulk Enrollment Package' > Comodo Remote Control.
 - C1 Console Click 'Tools' > Click 'Download' in the 'Comodo Remote Control' 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 ITSM admin console.
- See Remote Management of Windows and Mac OS Devices for more help to takeover Windows and Mac OS devices

Limitations:

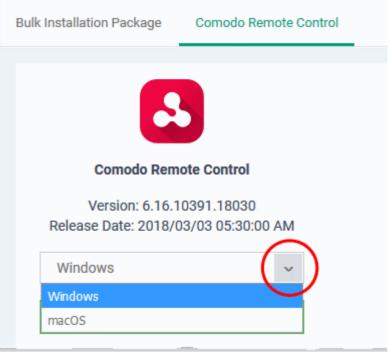
- Comodo Remote Control uses WebRTC and Chromodo protocols to connect to Windows devices and Chromodo protocol to connect to Mac OS devices.
- Chromoro is supported only by Windows 7 and later and Mac OS.
- WebRTC is not supported by Mac OS
- Chromodo is not supported by Windows XP
- You will not be able to take remote control of:
 - A Mac OS device from CRC installed on a Windows XP computer
 - A Windows device from CRC installed on a Mac OS machine

Download CRC from ITSM interface

- Click 'Devices' on the left then choose 'Bulk Installation Package'.
- Select the 'Comodo Remote Control' tab

IT & Security Manager	Bulk Installation Package > Comodo Remote Control
DASHBOARD >	Bulk Installation Package Comodo Remote Control
Device List Bulk Installation Package	
Survey Servey Se	Comodo Remote Control
APPLICATION STORE >	Version: 6.16.10391.18030 Release Date: 2018/03/03 05:30:00 AM Windows
SECURITY SUB-SYSTEMS	Download
SETTINGS	

Select the OS of the computer on which you want to install the tool.



• Click 'Download' and save the setup file.

Download CRC from Comodo One Console

•

- Login to your Comodo One account and click 'Tools' from the top
- The 'Tools' interface displays a list of productivity and security tools available for download from C1 as tiles
- · Click the 'Download' button in the 'Comodo Remote Control' tile

сомодо

Comodo Remote Control	
Windows Version: 6.16.10391.18030 Mac OS Version: 6.16.10390.18030 Downloads: 49	
Info 📥 Download	
Download	×
Please select 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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S COMODO Remote Control Setup		_		×
соморо				
CO Remote	e cont	rol		
END USER LICENSE AGREE	MENT AND TERM	IS OF SERV	ICE	^
COMODO IT AND	SECURITY MANA	AGER		
THIS AGREEMENT CONTAINS	A BINDING ARBIT	TRATION CL	AUSE.	
IMPORTANT - PLEASE READ THES USING THE COMODO IT AND SEC "PRODUCT"). THE PRODUCT MEAN PROVIDED BY DOWNLOAD WITH USING THE PRODUCT, OR BY CLIC ACKNOWLEDGE THAT YOU HAVE UNDERSTAND IT, AND THAT YOU IF YOU DO NOT AGREE TO THE THE SOFTMARE SUBSCRIBE TO OP L	URITY MANAGER NS ALL OF THE E THIS LICENSE AC CKING ON "I ACCI READ THIS AGR AGREE TO BE BO ERMS HEREIN, D	SOFTWARI LECTRONIC REEMENT. EPT" BELOV EEMENT, TI DUND BY ITS O NOT USE	E (THE FILES BY V, YOU HAT YOU S TERMS	2000233
Version 6.16.10391.18030	🗹 l agree to the lice	ense terms and	d conditio	ns
		💎 İnstall	Clos	ie 🛛

• You must read and accept the End User License Agreement before continuing. After doing so, click 'Install' to start the installation.

COMODO Remote Control Setup	_		×
Remote contro			
Installation Successfully Completed			
La	unch	Clos	se

• After installation is complete, click 'Launch' to start the application.

COMODO Remote Control COMODO One ITSM Portal E-mail Password Cigon In Stay signed in Forgot Password?

 Login to the application using your Comodo One username and password to start managing Windows or Mac OS endpoints. 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 OS and Windows operating systems.

- Each profile allows you to specify a device's network access rights, overall security policy, antivirus scan schedule and other general system settings.
- Once created, profiles can be applied to devices/device groups and users/user groups.
- You can also add procedures to a profile. Procedures allow you to automate the execution of various tasks (for example, patch installation, disk fragmentation and so on). Procedures can also be deployed as standalone instructions.
- You can configure alerts to open tickets in Service Desk and also to create notifications in the interface. You can create multiple alerts and associate them with the monitoring feature in a profile according to your requirements.

COMODO

IT & Security Manager			Profiles		License Options	②	(coyoteewile@yahoo.com)
DASHBOARD	>						
DEVICES	>	F	Profiles	Default Profiles			
	>		Щ	「「「」」	i iio		
CONFIGURATION TEMPLATES	~		Create	Import Export Profile	Clone Profile Delete Profile		T
Profiles		0] os	NAME	CREATED BY	CREATED -	UPDATED AT
Alerts Procedures	()	0	•	For Impala tab	coyoteewile@yahoo.c	2017/03/21 11:33:3	2017/03/21 11:33:37 A
	>		. 🔇	For Joe Mac Machine	coyoteewile@yahoo.c	2017/03/17 03:22:0	2017/03/17 03:22:09 P
		C		Certificate Optimise	coyoteewile@yahoo.c	2017/02/21 05:09:0	2017/02/21 05:13:03 P
APPLICATIONS	>	٦		Kannan	coyoteewile@yahoo.c	2016/11/28 12:45:5	2016/12/20 02:45:18 P
SECURITY SUB-SYSTEMS	>	C]	Finance Department	coyoteewile@yahoo.c	2016/11/23 02:05:5	2017/04/27 12:20:28 A
	>	٦		Windows	coyoteewile@yahoo.c	2016/11/17 04:26:3	2016/11/17 04:27:12 P
∯ settings	>	C		Optimum Profile for I	coyoteewile@yahoo.c	2016/11/04 12:41:5	2017/02/21 05:13:31 P
			 ##	Test Device Control	wahoo c		- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10

The 'Configuration Templates' tab contains three sub sections:

- Profiles Contains a list of every iOS, Android, Mac OS and Windows profile added to ITSM. Profiles listed here can be applied to individual devices, device groups, users and user groups. A profile can also be designated as a 'Default' profile. You can add new profiles, export profiles in .cfg format and import profiles from a saved or exported configuration file. The 'Default Profiles' tab contains profiles that ship with ITSM. Each default profile is pre-configured to provide optimum protection for devices at enrollment. The screen also lists profiles that have been created and marked as default by an administrator.
- Alerts Allows you to configure alerts and raise tickets in Service Desk for any breach of monitoring setting in a profile. Alerts can also be configured to send notifications when a procedure fails to execute. Multiple alerts can be configured and these can be associated with monitoring settings and procedures in different profiles. See 'Managing Alerts' for more details.
- Procedures Contains a list of predefined procedures that can be executed on enrolled devices. You can
 also create procedures according to your requirements and deploy them as a part of a profile. See
 'Managing Procedures' 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

6.1. Create Configuration Profiles

A configuration profile is a collection of settings which can be applied to devices that have been enrolled into Comodo IT and Security Manager. Each profile allows the administrator to specify a device's network access rights, overall security policy, antivirus scan schedule and other general system settings. Profiles can be created and managed separately for iOS, Android, Mac OS and Windows 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 allows you to create new profiles as well as to edit or delete existing profiles in the list. You can also create new profiles by cloning an existing profile or by importing a profile.

To create a configuration profile

- · Click the 'Configuration Templates' tab on the left then choose 'Profiles'
- · Click 'Create' from the options at the top

IT & Security Manager		■ Profiles License Options •
DASHBOARD	>	
DEVICES	>	Profiles Default Profiles
Q USERS	>	
CONFIGURATION TEMPLATES	~	Create Import Export Profile Clone Profile Delete Profile
Profiles		Create Android Profile CREATED BY
Alerts		Create iOS Profile
Procedures	()	Create OS X Profile
		Create Windows Profile

The 'Create' drop-down allows you to create new profiles for Android, iOS Mac OS and Windows devices. You can create any number of profiles with different parameters and settings for different devices. A single device can be have any number of profiles. If multiple profiles are associated with the device, the most restrictive policy will be applied. 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.

The following sections explain more about:

- Creating an Android Profile You can define parameters and configure various settings for Android devices and save them as a profile. Refer to the section Profiles for Android Devices for more details.
- Creating an iOS Profile You can define parameters and configure various settings for iOS devices and save them as a profile. Refer to the section Profiles for iOS Devices for more details.
- Creating an Mac OS Profile You can define parameters and configure various settings for the Antivirus component of the Comodo Antivirus for Mac installed on the Mac OS Endpoints and save them as a profile. Refer to the section Profiles for Mac OS Devices for more details.
- **Creating a Windows Profile** You can define parameters and configure various settings for the Antivirus, Firewall, Containment components of the Comodo Client Security (CCS) installed on the Windows Endpoints and save them as a profile. Refer to the section **Profiles for Windows Devices** for more details.
- **Importing a Windows Profile** You can import a profile from a stored configuration file or import the configuration of CCS with the current security settings of individual CCS components at an endpoint as a profile. Refer to the section **Importing Windows Profiles** for more details.



6.1.1. Profiles for Android Devices

Android profiles let you configure a device's network access rights, restrictions, scan schedule, authentication certificates, and other general settings.

To create an Android profile

- Click 'Configuration Templates' on the left then choose 'Profiles'
- Click 'Create' then select 'Create Android Profile'
- Specify 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'. You can configure permissions and settings for various areas by clicking the 'Add Profile Section' drop-down. 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

- Open the 'Profiles' interface by clicking 'Configuration Templates' on the left then 'Profiles'
- Click the 'Create' button above the table under 'Profiles' and choose 'Create Android Profile' from the options

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IT & Security Manager		License Options
DASHBOARD >		
DEVICES	Profiles Default Profiles	
2 USERS >		di Eð
CONFIGURATION TEMPLATES	Create Import Export Profile	Clone Profile Delete Profile
Profiles	Create Android Profile	CREATED BY
Alerts Procedures	Create iOS Profile Create OS X Profile	coyoteewile@yahoo.c
APPLICATION STORE	Create Windows Profile Certificate Optimise.	
Create Android Profile		×
Name *		
Name		
Description		
Description		
		Create

In the 'Create Android Profile' dialog:

- 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	E Delete Profile	武 Make Default	
eral					
General Settings					
Genera	l Settings				🔊 Edi
Name * Android D	I Settings Devices in Purchase me of the profile (sh).		I SP Edi
Name * Android D	Devices in Purchase me of the profile (sh).		₹ Edi

- 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'.

Tip: You can set any profile as default profile from the Profiles screen. See **Editing Configuration Profiles** for more details.

The next step is to add components for the profile.

 Click 'Add Profile Section' and select the security component from the list that you want to include in the profile

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Android Devices	in Purchase	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).	
Kiosk			
Native App Restrictions			
Network Restrictions	ibs used by purcha ents or purpose of th	CANCER RELATION	
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.

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뼦 Androi	d Devices in	Purchase	Dept.		
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Kake Default	
General A	ntivirus Settings	Browser R	estrictions	>	
Browse	r Restrictions				
Allow Pop Enabled	-ups				

The following sections explain more about each of the settings:

- 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.

General Antivirus Settings Antivirus Settings 🕞 Save AV scanning exclusion list AV scanning exclusion list Automatically terminate malware process Sunday Monday Tuesday Wednesday Thursday Friday Saturday

	Antiv	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 ITSM 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, refer to 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 Configuring 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 'Editing 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 ITSM 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

Detail	
Name	
Skype for Business	
Version	
6.3.0.2	
Bundle ID	
com.microsoft.office.lync15	
Category	
Rust	

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.

Beneral 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+

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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 'Editing 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.

General Browser Restrictions	
Browser Restrictions	X Cancel Save
Allow Pop-ups	SAFE 2.0+
 Allow Javascript Accept Cookies 	SAFE 2.0+
 Remember Form Data for later use 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.	

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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 'Editing 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 Comodo Certificate Manager (CCM) after activating your CCM account under Settings > Portal Set-Up > Certificates Activation.

Click 'Certificate' from the 'Add Profile Section' drop-down

The 'Certificate' settings screen will be displayed.

Certificate	🗙 Cancel 🕞 S
Name *	
	+ Variabl
Description	

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, refer to the section Configuring 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. Refer to the section 'Editing Configuration Profiles' for more details.

To add CCM Certificates section

The Certificates Settings section of a profile allows you to add requests for client and device authentication certificates to be issued by Comodo Certificate Manager (CCM). Once the profile is applied to a device, a certificate request is automatically generated and forwarded to CCM. After issuance, the certificate will be sent to ITSM 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 CCM account should have been integrated to your ITSM server in order for ITSM to forward requests to CCM. For more details, see **Integrating with Comodo Certificate Manager**.

To configure CCM Certificate settings

Choose 'Certificates' from the 'Add Profile Section' drop-down

The settings screen for adding certificate requests to the profile will be displayed.

🏟 Andro	id Profile for	Purchase [Deptartmen	t		
Đ	Ē	É3	E0	鬡		
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default		
General C	CCM Certificates	Certificate	VPN V	Wi-Fi		
Add Certif	icate 🔯 Del					т
	COUNTRY N	АМЕ ТҮРЕ	STATE OR	PROVINCE NAME	LOCALITY NAME (EG, CITY)	ORGANIZATION NAME

• Click 'Add Certificate' at the top to add a certificate request to the profile

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The 'Add Certificate' form will appear.

Add Certificate	Close
Name *	
Туре	
S/MIME Certificate	~
Identifier *	
%u.username%	+Variables
Country Name *	
Afghanistan	~
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	Enter a name for the certificate to be requested, shortly describing its purpose.	
Туре	Drop-down	Select the type of certificate to be added. The available options are: • S/MIME Certificate (Client Certificate)	

Add Certificate - Table of Parameters			
		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 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 Configuring Custom Variables .	
Country Name	Text Field	Enter the address details of the user/organization in appropriate fields.	
State or Province Name			
Locality Name (eg. City)			
Organization Name	Text Field	Enter the name of the organization to which the user/device pertains.	
		Prerequisite : The organization should have been added to your CCM account.	
Organizational Unit	Text Field	Enter the name of the department to which the user/device pertains.	
		Prerequisite : The department should have been defined under the organization in your CCM 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.

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General Certificate Email Email Image: Configure for Type * SAFE 20+ IMAP Image: Configure for Type * SAFE 20+ IMAP Image: Configure for Type * SAFE 20+ Image: Control Display Name SAFE 20+ Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Display Name SAFE 20+ Image: Count Di

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 Configuring 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 Configuring 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 Configuring 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	

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 Configuring 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 Configuring 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 Configuring 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 Configuring 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 Configuring 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 Configuring 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 Configuring 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 Configuring 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 CConfiguring 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 'Editing 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

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Click 'ActiveSync Settings' from the 'Add Profile Section' drop-down

The 'ActiveSync Settings' screen will be displayed.

eral Certificate ActiveSync Setti		
ActiveSync Settings		🗙 Cancel 🔲 Sav
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+	
Email Signature		

ActiveSync Settings - Table of Parameters			
Form Element	Form Element Type 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 Configuring 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 Configuring 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 Configuring Custom Variables .	
Server Address *	Text Field	Enter the server address of the ActiveSync. 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 Configuring 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.	

Asting Come Catting Table of Devendance			
ActiveSync Settings - Table of Parameters			
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 Configuring 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 Configuring 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 Configuring 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. Refer to the section 'Editing 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		🗙 Cancel 📄 Sav
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- down	 The two Kiosk modes are: 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 ITSM console. Restrictions on access to other device functions, such as task manager 	
If 'Single App' is selected as Kiosk Mode Type:			

Kiosk Settings - Table of Parameters			
Enter ID of Kiosk Apps	Text Field	Enter the Package ID of the app 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 Configuring Custom Variables . For more details on Package ID, see Obtaining Bundle/Package Identifier .	
If 'Default mode' is selected a	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, refer to the section Configuring 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:	
Show messenger App	Checkbox	If selected, the messenger app will be available.	

Kiosk Settings - Table of Parameters			
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 t beside the variable you want to add. For more details on variables, refer to the section Configuring 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. Refer to the section 'Editing Configuration Profiles' for more details.

To configure Native App Restriction settings

Applications that are included with the device operating system, such as the email and gallery apps, are called 'native applications'. Administrators can choose to allow or deny access to these native applications. The feature is available for Android version 4.0 + and Samsung for Enterprise devices SAFE 1.0 + version.

Click 'Native App Restrictions' from the 'Add Profile Section' drop-down

The 'Native App Restriction' settings screen will be displayed.

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+	

Native Application Restrictions Settings - Table of Parameters		
Form Element Type Description		Description
Allow Gmail	Checkbox	Select this to allow users to access Gmail app.
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

Native Application Restrictions Settings - Table of Parameters			
		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 'Editing 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.

eral Certificate Network Restrictions		
Network Restrictions		🗙 Cancel 🔲 Sav
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	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)	
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, refer to the section Configuring Custom Variables. Click the • button to add more 'Blacklisted SSID' fields. To remove a	



Network Restrictions Settings - Table of Parameters		
	Blacklisted SSID field from the screen, click the minus — button 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 Refer to the section 'Editing 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.

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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 Drop-de for Sneak Peak		Select the maximum number of allowed unsuccessful login attempts for 'Sneak Peak' feature (4-16). Set the value as '0' for unlimited. The 'Sneak Peak' 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 ITSM 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 Peak' tab. Refer to the section Viewing Sneak Peak 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 ITSM server.	

		capture a photograph and forward to the ITSM 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. •

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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. Refer to the section 'Editing 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			
Restri	ctions X Cancel Save			
	ow Turn-off background Sync (Not supported on Android sion 5.* and higher)			
I Allo	ow Bluetooth			
I Allo	ow Camera			
Allo	w Un-encrypted devices Android 3.0+			
I Allo	ow To Run Apps Installed From Unknown Sources			
Cellular higher)	Connection Control (Not supported on Android version 5.* and			
•	Cellular Connection On			
0	Cellular Connection Off			
۲	User Choice			
WiFi Co	nnection Control			
0	Wi-Fi Connection On			
0	Wi-Fi Connection Off			
۲	User Choice			
Locatio	n Service Control			
0	Location Service Always On			
•	Location Service Always Off			
۲	User Choice			

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

Restrictions Settings - Table of Parameters		
	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. 	
	 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. 	

	Restr	ictions Settings - Table of Parameters
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. Refer to the section 'Editing 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.

VPN		🗙 Cancel 📄 Sa
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		

VPN Settings - Table of Parameters			
Form Element Type		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, refer to the section Configuring 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, refer to the section Configuring Custom Variables .	

	VF	PN Settings - Table of Parameters
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, refer to the section Configuring 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 '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, refer to the section Configuring 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, refer to the section Configuring 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 select	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 selec	ted:	
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, refer to the section Configuring 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'
	1	1

VPN Settings - Table of Parameters					
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. Refer to the section Editing Configuration Profiles .			
		 Suits to all VPN connections types, except PPTP 			
		 The VPN server and the DNS server should have been 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. Refer to the section 'Editing 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.

Wi-Fi			X Cancel 🕞 Sa
SSID *			
	+ Variables		
Hidden SSID			
Wi-Fi Configuration Type			
Open	~		

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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, refer to the section Configuring 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-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, refer to the section Configuring 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, refer to the section Configuring Custom Variables .			
802.1x EAP	 1. 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 2. 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 			



Wi-Fi Configuration Type Settings - Table of Parameters
MSCHAPV2
• GTC
3. Certificate - Select the user certificate from the drop-down or upload it using the 'Add New' button.
4. CA Certificate - Select the CA certificate from the drop-down or upload it using the 'Add New' button.
5. Authentication Username - Enter the username for Wi-Fi authentication. Applicable for Samsung for Enterprise devices SAFE 1.0 + version.
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, refer to the section Configuring 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, refer to the section Configuring Custom Variables.

• Click the 'Save' button after entering or selecting the parameters.

The 'Wi-Fi' network settings' will be saved for the profile.

G	eneral Certificate VPN Wi-Fi	
=	Add WI-Fi 💮 Delete Wi-Fi	
C) 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. Refer to the section 'Editing 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.

Other Restrictions		X Cancel 🕞 Save
Allow USB	SAFE 2.0+	
Use Network Time	SAFE 2.0+	
Allow Microphone	SAFE 2.0+	
Allow Near Field Communication (NFC)	SAFE 2.0+	
Allow Mock Locations	SAFE 2.0+	
Allow SD Card	SAFE 2.0+	
Allow SD Card Write	SAFE 3.0+	
 Allow Screen Capture 	SAFE 2.0+	
 Allow Clipboard 	SAFE 2.0+	
Backup my data	SAFE 2.0+	
Visible Passwords	SAFE 4.0+	
Allow USB Debugging	SAFE 2.0+	
Allow Factory Reset	SAFE 2.0+	
 Allow OTA Upgrade 	SAFE 3.0+	

	Other Re	strictions 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	Checkbox	Allows users to enable/disable 'Mock Location' in developer mode settings.
Allow SD Card	Checkbox	Users can use SD card on their devices.
Allow SD Card Write	Checkbox	Users can store data on the SD card.

	Other Re	strictions Settings - Table of Parameters
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.
Visible Passwords	Checkbox	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. Refer to the section 'Editing 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.

To create an iOS profile

- Click 'Configuration Templates' from the left then choose 'Profiles'
- Click 'Create' then select 'Create iOS Profile'
- Specify 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'. You can configure permissions and settings for various areas by clicking the 'Add Profile Section' drop-down. 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

- Open the 'Profiles' interface by clicking 'Configuration Templates' from the left and choosing 'Profiles'
- Click the 'Create' button above the table under 'Profiles' and and choose 'Create iOS Profile' from the options

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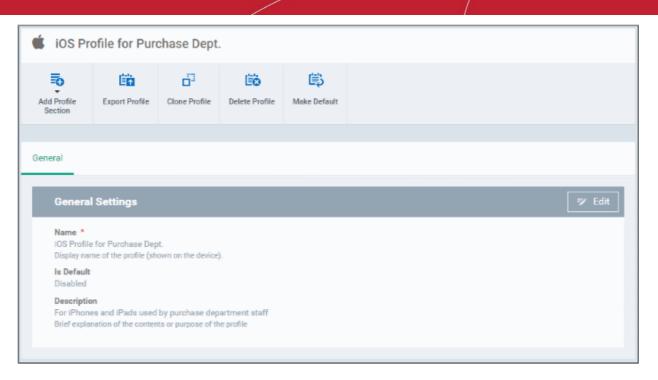
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IT & Security Manager			License Options
DASHBOARD >			
DEVICES >	Profiles	Default Profiles	
Susers >			
E CONFIGURATION TEMPLATES V	Create	Import Export Profile	e Clone Profile Delete Profile
Profiles	Create Ar	ndroid Profile	CREATED BY
Alerts Procedures		S Profile S X Profile indows Profile	coyoteewile@yahoo.c
Create iOS Profile			×
Name *			
Name			
Description			
Description			
			.1
			Create

The 'Create iOS Profile' screen will be displayed.

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

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



- 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' button and select components from the list that you want to include in the profile

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iOS Prof for Pu	Irchase Dept
Add Profile Section	file Clone Profile Delete
Air Play	
Air Print	
APN	
Calendar	
Cellular Networks	
Certificate	
CCM Certificates	hown on the device).
Contacts	
ActiveSync Settings	hu purchaga dant stati
Global Proxy HTTP	I by purchase dept stats nts or purpose of the prot
LDAP	
Email	
Passcode	
Proxy	
Restrictions	
Single Sign-On	
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	E) Make Default	
	ir Play Air P	rint	_		
Name * iOS Profile	Settings for Purchase Dep ne of the profile (eh).		. Edit

Following sections explain more about each of the settings:

- Air Play
- Air Print
- APN
- Calendar
- Cellular Networks
- Certificate
- CCM 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	108
Device Name *	
Device Name	
Password *	
Password	

	AirPlay Se	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: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, refer to the section Configuring 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, refer to the section Configuring 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.

Gene		
Ð	Add Air Play Delete Air Play	
	NAME	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. Refer to the section 'Editing 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	X Cancel
Item	105
IP Address *	
IP Address	
Resource Path *	
Resource Path	
	Add

	AirF	Print 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.



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.

General Air Play	Air Print
	Delete Air Print
	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. Refer to the section 'Editing 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	🗙 Cancel 🕞 S
Access Point Name (APN) *	
	+ Variable
The name of the carrier (GPRS) access point.	
Access Point User Name	
	+ Variable
The user name to connect to the access point.	
Access Point Password	
Access Point Password	
Access Point Password	+ Variable
The password to connect to the access point.	+ Variable
The password to connect to the access point.	+ Variabl
	+ Variable + Variable
The password to connect to the access point.	

	AF	PN 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 can also add variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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. Refer to the section 'Editing 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.

COMODO

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	
	+ Variabi
The CalDAV username	
Account Password	
	+ Variabl
The CaIDAV password	
Use SSL	
Enable Secure Socket Layer communication with CalDAV server	
Principal URL	

	Calendar 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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	al Air Play	Air Print	Calendar			
= 0 A	dd Calendar	Delete Cal	endar			
	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. Refer to the section 'Editing 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.

Cellular Networks	🗙 Cancel 🔲 Sa
Name *	lios
	+ Variable
Authentication Type	105
СНАР	
Username	ios
	+ Variatile
Password	lios
	+ Variable
APNs	
APNs	+ Variable
Name *	
Name *	
Name *	
Name * Name Authentication Type	
Name * Authentication Type CHAP	
Name * Name Authentication Type CHAP User Name	
Name * Name Authentication Type CHAP User Name User Name	

Cellular Settings - Table of Parameters				
Form Element	Туре	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, refer to the section Configuring 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 variables by clicking the 'Variables' button * Variables and clicking + beside the variable you want to add. For more details on variables, refer to the section Configuring 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		

Cellular Settings - Table of Parameters						
variable you want to add. For more details on variables, refer to the section Configuring Custom Variables .						
	APNs					
Note: You can add more API bottom left.	N accounts fo	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 variables by clicking the 'Variables' button + Variables beside the variable you want to add. For more details on variables, refer to the section Configuring 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 variable by clicking the 'Variables' button + Variables' and clicking + beside to variable you want to add. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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. Refer to the section 'Editing Configuration Profiles' for more details.

To configure Certificate settings

Note: The 'Certificate Settings' section is used to upload certificates that can be selected for use in other settings such as 'Wi-Fi, 'Exchange Active Sync', 'VPN' and so on. You can also enroll user or device certificates from Comodo Certificate Manager (CCM) after activating your CCM account under Settings > Portal Set-Up > Certificates Activation.

Click 'Certificate' from the 'Add Profile Section' drop-down

The 'Certificate' settings screen will be displayed.

General Air Play Air Print Calendar Certificate X Cancel Save Name * Pescription Data * Select certificate Browse

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, refer to the section Configuring 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.

General	Air Play	Air Print	Calendar	Certificate	
🔁 Add	Certificate	Delete Ce	rtificate		
	AME				DESCRIPTION
	cme 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. Refer to the section 'Editing Configuration Profiles' for more details.

To add CCM Certificates

The Certificates Settings section of a profile allows you to add requests for client and device authentication certificates to be issued by Comodo Certificate Manager (CCM). Once the profile is applied to a device, a certificate request is automatically generated and forwarded to CCM. After issuance, the certificate will be sent to ITSM which in turn pushes it to the agent on the device for installation. You can add any number of certificates to a single profile.

In addition to user authentication, client certificates can be used for email signing and encryption.

Prerequisite: Your CCM account should have been integrated to your ITSM server in order for ITSM to forward requests to CCM. For more details, refer to the section **Integrating with Comodo Certificate Manager**.

To configure CCM Certificate settings

· Choose 'Certificates' from the 'Add Profile Section' drop-down

The settings screen for adding certificate requests to the profile will be displayed.

🇯 ios i	Profile for Pur	chase Dept					
Add Profile Section	Export Profile	Clone Profile	Eo Delete Profile	E Make Default			
General	CCM Certificates	Air Play	Air Print	Calendar Proxy	Wi-Fi		
Add Cer	tificate 🔯 De						T
	IE COUNTRY N	ІАМЕ ТҮРЕ	STATE OR	PROVINCE NAME	LOCALITY NAME (EG, CITY)	ORGANIZATION NAME	ORGANIZATIONAL UNIT

· Click 'Add Certificate' at the top to add a certificate request to the profile

The 'Add Certificate' form will appear.

Add Certificate	Close
Name *	
Туре	
S/MIME Certificate	~
Identifier *	
%u.username%	+Variables
Country Name *	
Afghanistan	~
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	Enter a name for the certificate to be requested, shortly describing its purpose.			
Туре	Drop-down	 Select the type of certificate to be added. The available options are: S/MIME Certificate (Client Certificate) Device Certificate 			

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	Ad	d Certificate - Table of Parameters
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 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, refer to the section Configuring Custom Variables .
Country Name	Text Field	Enter the address details of the user/organization in appropriate fields.
State or Province Name		
Locality Name (eg. City)	-	
Organization Name	Text Field	Enter the name of the organization to which the user/device pertains.
		Prerequisite : The organization should have been added to your CCM account.
Organizational Unit	Text Field	Enter the name of the department to which the user/device pertains.
		Prerequisite : The department should have been defined under the organization in your CCM 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.

eral Air Play	Air Print	Calendar	Certificate	Contacts	
Contacts					🗙 Cancel 🕞 Sav
Account Description					
					+ Variables
The display name of th	e account (e.g	Company Card	DAV Account")		
Account Hostname	•				
					+ Variables
The CardDAV hostnam	e or IP addres:	s and port numbe	a		
Account Port *					
					+ Variables
Account Username					
					+ Variables
The CardDAV usernam	e				
Account Password					
					+ Variables
The CardDAV passwor	d				
Use SSL					
Enable Secure Socket	Layer commun	ication with Card	DAV server		
Principal URL					
					+ Variables

	Con	tacts 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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			
П 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.Refer to the section 'Editing 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: сомодо

Gene	ral Air Play	Air Print	Calendar	Certificate	Contacts	ActiveSync Settings		
	ActiveSync S	Settings					X Cancel	Save
	Account Name							
								+ Variables
	Name for the Exch	ange ActiveSync a	ccount					
	Exchange Active	Sync Host *						
								+ Variables
	Microsoft Exchange	je Server						
	Allow Mov	9						
	Allow user to mov	e messages from t	his account					
		il Recent Sync						
	Include this accou		s syncing					
	Prevent Ap	-						
		il from this accoun	t only from Mail a	ipp				
	Use SSL Send all communi	nation through one	ure encket laver					
	S/MIME er		are souver layer					
		il using S/MIME en						
	Domain							
								+ Variables
	Domain for the ac	20201						

	Activ	eSync 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, refer to the section Configuring 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 <i>Variables</i> and clicking <i>+</i> beside the variable you want to add. For more details on variables, refer to the section Configuring 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 + beside '%u.mail' from the 'User Variables' list. The email address of

	Active	Sync Settings - Table of Parameters
		the users to whom the profile is associated will be automatically filled. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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. Refer to the section 'Editing 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.

COMODO Creating Trust Online*

eral	Air Play	Air Print	Calendar	Certificate	Contacts	Global Proxy HTTP		
Glob	al Proxy H	птр					× Cancel	Sav
Name	*							+ Variables
Proxy	Type *							• Fandores
Au								`
Proxy	Pac URL							+ Variables
Server	from which to	get proxy setting	35.					
D P	revents the	device from (connecting di	rectly to the de	stination if the	PAC file is unreachable		10S
	llows the de	evice to bypa	ss the proxy s	erver to display	the login pag	e for captive networks		iOS

	Global HT	TP 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, refer to the section Configuring 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, refer to the section Configuring 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. Refer to the section 'Editing Configuration Profiles' for more details.



To configure LDAP settings

Click 'LDAP' from the 'Add Profile Section' drop-down

The 'LDAP' settings screen will be displayed.

	_						_
LDAF	•					× Cance	el 🕞 Sa
Accou	nt Descripti	on					
							+ Variable
		f the account (e.g	"Company LDAF	Account")			
Accou	nt Hostnam	e *					
							+ Variable
		e or IP address					
Accou	nt Usernam	e					
							+ Variable
The use	ername for th	is LDAP account					
Accou	nt Passwor	d					
							+ Variable
The pa	ssword for th	is LDAP account					
	se SSL						
		et Layer for this c	onnection.				
Search	Settings						
De	scription						
D	escription)	1					
Sco	ope						
E	lase						~
Sea	arch Base						
S	Search Bas	ie.					
							Add
							, rua

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, refer to the section Configuring 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, refer to the section Configuring Custom Variables .	

LDAP Settings - Table of Parameters			
Account Username	Text Field	The username 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, refer to the section Configuring 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, refer to the section Configuring 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. Refer to the section 'Searching the LDAP directory' below for more details.	

Searching the LDAP directory

Admins can search for email contacts in the domain using the search feature.

rch Settings	
Description	
Description	
Scope	
Base	
Search Base	
Search Base	
	Add

LDAP Search Settings - Table of Parameters				
Form Element	Туре	Description Enter the name of the search		
Description	Text Field			
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		

LDAP Search Settings - Table of Parameters
users via LDAP.

- You can add more 'Search Settings' by clicking the Add button below.
- To remove an item, click the 🔀 button.
- Click the 'Save' button.

The LDAP account will be added to the list.

Gene	ral Air Play	Air Print	Calendar	Certificate	Contacts	LDAP	
= 0 /	Add LDAP 👘	Delete LDAP					
	HOST NAME		USER NAME		DESCRIPTIO		SETTINGS COUNT
	test.com				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. Refer to the section 'Editing 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.

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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>+</u> beside the variable you want to add. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring Custom Variables .		
Email Address	Text Field	If the profile is for a single user, enter the email address of the user. If the		

	Mail A	Account Settings - Table of Parameters
		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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring Custom Variables .

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	Mail A	Account Settings - Table of Parameters
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 Variables and clicking + beside the variable you want to add. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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.



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. Refer to the section 'Editing 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	
	+ Variable
Days (1-730) after which passcode must be changed.	
Maximum idle time	

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 variable you want to add. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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	In Select the number of unsuccessful login attempts that can be tried by 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 attem 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 erase 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. Refer to the section 'Editing Configuration Profiles' for more details.

To configure Proxy settings

Click 'Proxy' from the 'Add Profile Section' drop-down

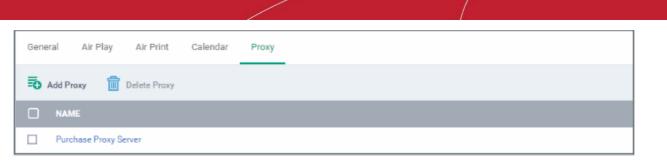
The 'Proxy' settings screen will be displayed.

ral Air Play Air Print Calendar Proxy	
Ргоху	🗙 Cancel 📄 Sa
Name *	
	+ Variable
Proxy type *	
Manual	
Proxy server	
	+ Variable
Fully qualified address and port of the proxy server. Proxy server port	
	+ Variable
Proxy username	
	+ Variable
Username used to connect to the proxy server.	
Proxy password	
	+ Variable

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, refer to the section Configuring 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 + to add. If you select 'Auto', enter the URL of the Proxy Pac. You can also add variables by clicking the 'Variables' and clicking + to add. 		

• 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. Refer to the section 'Editing 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	Restrictions	
Res	trictions				X Cancel 🕞 Save
Enabl	Device functionality le use of device features Allow App installation				Supervised only
• 4	Allow App uninstall	_			Supervised only
	Allow use of the iMessag Allow camera	8			Supervised only
	Allow face time				
	Allow global background Allow assistant	fetch when roar	ming		
	Allow assistant while lock Allow assistant user gene				Supervised only, IOS 7+
	Forces the use of the prof Allow voice dialing	anity filter assi	stant		Supervised only

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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.		

Restrictions 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 (OTAPK) 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 debi 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.		

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Restrictions 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	eckbox 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, refer to 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, refer to the section Configuring Custom Variables. 		

Restrictions Settings - Table of Parameters To add more Whitelisted application bundles, click 🔽 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. Blacklisted application 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. bundles Enter the App bundle ID of the application to be added to the blacklist. For more details on obtaining the App bundle ID, refer to 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, refer to the section Configuring Custom Variables. To add more Blacklisted application bundles, click 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 If enabled, the device will be enabled to submit its iOS diagnostic Allow diagnostic submission Checkbox 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. Checkbox Force encrypted backup 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** Checkbox Allow explicit content 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.

Select the region whose content ratings are to be followed, from the

Drop-down

Rating region

	Restrie	ctions Settings - Table of Parameters			
		drop-down.			
Rating movies	Drop-down	Choose the content rating to be allowed for watching movies.			
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.			
	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 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, refer to the explanation at the end of this section.			
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Restrictions 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, refer to the section Configuring Custom Variables. To add more apps, click + 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. Refer to the section 'Editing 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.

Single Sign-On		🗙 Cancel 🕞 S
Name *		0
		+ Variabi
Principal Name *		10
		+ Variab
Realm *		10
		+ Variabl
Url Prefix Matches *		iO
Url Prefix Matches		+Variables
App Identifier Matches		0

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 'Variables' and clicking + beside the variable you want to add. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring Custom Variables . Click button to add more 'URL prefix matches' fields. To remove a URL prefix, click the minus — button beside it.	
App identifier	Text Field	Enter the bundle IDs of apps that are allowed to use this Single Sign-On	

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	Single Sign-On Settings - Table of Parameters
matches	account for logging-in to respective account. If this field is left blank, this login matches all app bundle IDs.
	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, refer to the section Configuring Custom Variables .
	Click 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							
Add Profile Section	Export Profile	Clone Profile	Delete Profile					
General	Air Play A	Air Print Ce	ellular Networks	E-mail	Single Sign-On			
🖶 Add Single	Sign On	Delete Single Si	gn On					
		PRINC	IPAL NAME		REALM			
Acme SS	0	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. Refer to the section 'Editing 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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eneral	Air Play	Air Print	Calendar	Proxy	Single Sign-On	Subscribed Calendar		
Sub	scribed Ca	lendar					X Cancel	Save
Descr	iption							
								+ Variables
The de	escription of the	e calendar subsc	ription.					
URL	•							
								+ Variables
The U	RL of the calend	lar file.						
Usern	ame							
								+ Variables
The us	sername for this	subscription.						
Passv	vord							
								+ Variables
The pa	assword for this	subscription.						
	se SSL							
Enable	e Secure Socket	Layer for this c	onnection.					

	Subscribed	I 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, refer to the section Configuring 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, refer to the section Configuring 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, refer to the section Configuring 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.

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Gen	ieral	Air Play	Air Print	Calendar	Proxy	Single Sign-On	Subscribed Calendar
5	Add Su	bscribed Caler	ndars 前	Delete Subscr	ibed Calend	ars	
	HOS	TNAME			USER NAM	E	DESCRIPTION
	192.1	168.1.1					Purchase_sub_calendar

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. Refer to the section 'Editing 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.

VPN					🗙 Cancel 🔲 Si
User name					
					+ Variable
Display name of	he connection (disp	layed on the devi	ce).		
Connection typ	*				
L2TP					
The type of conn	ection enabled by th	is policy.			
Override p	rimary				
	Adapage *				
Comm Remote	Address *				4 Mariahi
Comm Remote	Address *				+ Variable
Comm Remote	Address *				+ Variable
	Address *				+ Variable + Variable
Auth Name	Address *	onnection.			
Auth Name	authenticating the c	onnection.			
Auth Name	authenticating the o	onnection.			
Auth Name User account for Auth Protocol 1 Pass	authenticating the o	onnection.			
Auth Name User account for Auth Protocol 9 © Pass © RSA	authenticating the o	onnection.			

	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 + Variables and clicking + beside the variable you want to add. For more details on variables, refer to the section Configuring 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'.

	VPN Connection Type Settings - Table of Parameters
	 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 <i>Variables</i> and clicking <i>the beside the variable you want to add.</i> 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 * Variables' and clicking * beside 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 * Variables' and clicking * beside the variable.
	For more details on variables, refer to the section Configuring Custom Variables .
РРТР	 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 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 the VPN account password. Also, you can add a variable by clicking the 'Variables' button + Variables and clicking + beside 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. You can add a variable by clicking the 'Variables' button Variables and clicking + beside the variable you want to add.
	 Encryption Level - Choose the encryption level to be used for the VPN connection. The available options are: None
	Automatic Movimum 128 hit opprintion
	 Maximum 128 bit encryption Shared secret - Applicable only if RSA SecurID is being used. Enter the shared secret string. You can add a variable by clicking the 'Variables' button + Variables and clicking + beside the variable.
	For more details on variables, refer to the section Configuring Custom Variables .
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

VPN C	onnection Type Settings - Table of Parameters
	variables by clicking the 'Variables' button + Variables and clicking + beside the variable you want to add.
•	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 b 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 secre 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/Gro name authentication for a more secure connection, then sele the 'Hybrid authentication' option.
	 Certificate - If you want client certificate type authentication, choo 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 of 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. Refer to the explanation of adding certificates to the profile for more details. If a new certificate is to be added, click 'Ad 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

	VPN Connection Type Settings - Table of Parameters
	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, refer to the section Configuring Custom Variables.
Cisco AnyConnection, F5 SSL and Open VPN	 Override Primary - Make this connection override the primary server. 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:
	 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.

	VPN Connection Type Settings - Table of Parameters
	To remove a domain, click 'X' beside it.
	For more details on variables, refer to the section Configuring Custom Variables .
Juniper SSL	 Override Primary - Make this connection override the primary server. 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 variables' button * Variables' and clicking * beside the variables' button * Variables' and clicking * beside the variable you want to add. Realm - Enter the name of the authentication server. You can add variable 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' and clicking * beside the variables' button * Variables' and clicking * beside 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, choos 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. Refer to th 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. Yo can create a list of domains and specify the VPN connection establishmen 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 Deman

VPN Connection Type Settings - Table of Parameters					
	VPN connection establishment rules.				
	• To remove a domain, click 'X' beside it.				
	For more details on variables, refer to the section Configuring Custom Variables .				

Click the 'Save' button.

The VPN connection will be added to the profile.

General	Air Play	Air Print	Calendar	Ргоху	VPN
🗟 Add	VPN	Delete VPN			
□ №4	ME		CO	NNECTION	і туре
U VP	'N 1		L2	TP	

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. Refer to the section 'Editing 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.

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Per-App VPN	X Cancel Save
On Demand Match App Enabled	10S 7+
Safari Domains	i0S 7+
Safari Domains	+Variables
User name	105.7+
	+ Variables
Display name of the connection (displayed on the device).	
Connection type *	10S 7+
Cisco AnyConnection	× .
The type of connection enabled by this policy.	
Override primary	iOS 7+
Remote Address *	10S 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, refer to the section Configuring

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 **m** button beside it.

For details on other settings please refer to the section '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.

Genera	al Air Play	Air Print	Calendar	Proxy	VPN	Per-App VPN	
= A	dd VPN Per App	Delete	Delete VPN Per App				
	NAME		c	NNECTION	TYPE		
	Vpn 1	Cisco AnyConnection			nection		

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. Refer to the section 'Editing Configuration Profiles' for more details.

To configure Web Clip settings

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Click 'Web Clip' from the 'Add Profile Section' drop-down

The 'Web Clip' settings screen will be displayed.

General	Air Play	Air Print	Calendar	Proxy	Web Clip		
Web	Clip					X Cancel	🕞 Save
Label	•						
						+	Variables
The n	ame to display f	or the Web Clip.					
Url *							
						+	Variables
The U	RL to be display	ed when selectir	ng the Web Clip.				
	Removable						
Enable	e removal of the	Web Clip.					
🗌 P	re Compose	d					
The ic	on will be displa	yed with no add	led visual effects.				
F	ull Screen						
Contro	ols whether the	web clip launche	es as a Full Screer	application			
Icon						В	rowse
The ic	on used for the	web clip.					

	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, refer to the section Configuring 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, refer to the section Configuring 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.						
Icon	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.



Gener	al Air Play	/ Air Print	Calendar	Proxy	Web Clip
	dd Web Clip	Delete V	leb Clip		
	NAME				
	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. Refer to the section 'Editing 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.

						1
Wi-Fi					× Cancel	🕞 Sav
SSID *						
						+ Variables
Identification of the wireless network to connec	t to in iOS 7.0 and	l later, this is opti	onal if a DomainNam	e value is provided.		
Auto join						
Automatically join the target network.						
Hidden network						
Enable if the target network is not open or broad	icasting.					
Encryption type						
None						~
Wireless network encryption to use when conne	eting.					
Ргоху						
Choose Proxy					~	Add New
🔲 Is hotspot						
Service provider roaming enabled						

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 provided.			
Auto Join	Checkbox	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				
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 Service Provider Roaming Enabled	Checkbox Checkbox	If enabled, the network is treated as a hotspot. 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			

	1	
		 Variables and clicking + beside the variable you want to add. For more details on variables, refer to the section Configuring 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, refer to the section Configuring 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 <i>Variables</i> and clicking <i>beside the</i> variable you want to add. For more details on variables, refer to the section Configuring Custom Variables . To removed the field, click the <i>button beside it</i> . Click the <i>button to add Roaming Consortium Ols fields</i> . 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 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, refer to the section Configuring Custom Variables . To remove the field, click the beside it. Click the 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.

Genera	al Air Play	Air Print	Calendar	Proxy	Wi-Fi
= 0 A	dd Wi-Fi 👘	Delete Wi-Fi			
	SSID				ENCRYPTION TYPE
	Purchase Dept. W	i 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. Refer to the section 'Editing 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.

neral	Air Play	Air Print	Calendar	Proxy	Wi-Fi	App Lock		
Арр	Lock						×	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 required:		
Ident	iifier *							IOS 7- + Variables
	Disable Touc	h						Supervised only
	Disable Devi	ce Rotation						Supervised only
	Disable Volu	me Buttons						Supervised only
	Disable Ring	er Switch						Supervised only
	Disable Sleep	p Wake Butto	n					Supervised only
	Disable Auto	Lock						Supervised on
								auder set 🖍

	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, refer to 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, refer to the section Configuring 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.					

App Lock Settings - Table of Parameters					
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.			
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 Refer to the section 'Editing Configuration Profiles' for more details.

Obtaining App Identifier

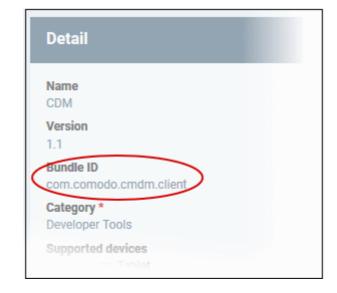
For App Store Application:

- 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



6.1.3. Profiles for Windows Devices

Windows profiles allow you to specify security settings for Comodo Client Security (CCS) installed on managed Windows devices.

Security profiles for Windows endpoints can be added to ITSM in two ways:

- Create a profile by configuring CCS settings in the ITSM interface. Refer to Creating Windows Profiles for more details.
- Import a profile from a managed endpoint which is already running CCS, or import from a stored configuration profile (.cfg file). Refer to the section Importing Windows Profiles for more details.

6.1.3.1. Create Windows Profiles

To create a new Windows profile

- Click 'Configuration Templates' on the left then 'Profiles'
- Click 'Create' then select 'Create Windows Profile'
- Specify 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'. You can configure permissions and settings for various areas by clicking the 'Add Profile Section' drop-down. 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 a new profile, click 'Configuration Templates > Profiles > Create' > 'Create Windows Profile':

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& Security Manager	:	■ Profiles		License Options	
DASHBOARD	>	_			
DEVICES	>	Profiles	Default Profiles		
USERS	>	眞		Ē ⁱ Ēõ	
CONFIGURATION TEMPLATES	~	Create	Import Export Profil	e Clone Profile Delete Profile	
Profiles		Create Ar	ndroid Profile	CREATED BY	
Alerts Procedures	0	Create iO Create OS	S Profile	coyoteewile@yahoo.c	
		Create W	indows Profile		
Create Windows Pro	ofile			×	
Name					
Description					
Description					

The 'Create Windows Profile' screen will be displayed.

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

The Windows 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				
neral								
General Settings								
	Name * Finance Department Windows Computers							
Name *	epartment Windov	vs Computers						
Name *		vs Computers						

- 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'.

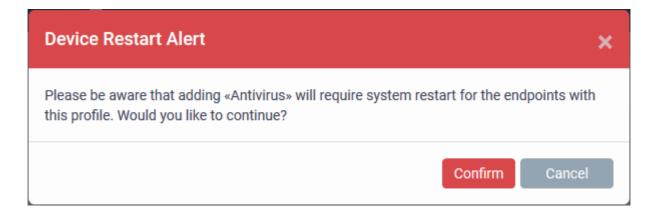
The next step is to add the components for the profile.

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

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(TO			Ë <mark>⊗</mark>	Ē,
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Make Defin
Antivirus				
Updates				
File Rating				
Firewall				
HIPS				
Containment				
VirusScope				
Valkyrie				
Global Proxy				
Clients Proxy				
Agent Discove	ring Settings			
UI Settings				
Logging Settin	gs			
Client Access	Control			
External Device	es Control			
Monitoring				
Procedures				
Remote Contro	bl			
		_		

If the changes in the configuration of the component requires the restart of the endpoint to which the profile is applied, an alert dialog will be displayed.



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• Click 'Confirm' to continue.

The settings screen for the selected component will be displayed and after saving the settings, it will be available as links at the top.

Financ	ce Departme	ent Window	s Computer	s				
Đ	臣	6 3	Ē	Ē,				
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default				
General A	ntivirus)						
A					-			Delete
Antivirus							Save	Delete
Realtime Sc	an Scans	Exclusions						
Enable I	Realtime Scan (recommended)					
	ables virus scanning			events threats befo	e they enter your sy	stem.		
Enable :	scanning optimi	izations (recor	nmended)					
Use this option	n to activate the per	formance improvi	ig technologies for	realtime scanning.				
🗌 Run cad	he builder when	n computer is i	dle					
Scan co	mputer memor	y after the con	nputer starts					
Show a	ntivirus alerts							

The following sections explain more about each of the settings:

- 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
- Monitoring
- CCM Certificates
- Procedures



Remote Control

6.1.3.1.1. Antivirus Settings

The antivirus settings screen allows you to configure real-time monitoring, scan profiles and exclusions for the profile.

To configure Antivirus settings

- Click 'Configuration Templates' > 'Profiles'
- Open the profile you wish to work on
- Click 'Add Profile Section' > 'Antivirus'

The settings screen for Antivirus will open:

- Real Time Scan Configure the 'always-on' virus monitor
- Scans Create custom scan profiles. A scan profile lets you scan specific areas and configure custom scan options. You can also create a schedule for the scan profile. Multiple scan profiles can be added to a device profile.
- **Exclusions** Items that should be skipped by virus scans 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 Monitoring Antivirus	
Antivirus 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. 	
Run cache builder when computer is idle up to CCS8.3	
□ Scan computer memory after the computer starts	
Show Antivirus alerts	
Quarantine threats	P.,
Decompress and scan archive files of extension(s):	
Extensions: *.exe *.rar *.zip	
Set new on-screen alert timeout to (sec.):	
120	
Set new maximum file size limit to (MB):	
40	
Set new maximum script size limit to (MB):	
4	
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)
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 start	If enabled, CCS will scan system memory for threats after a re-boot. (<i>Default = Disabled</i>)
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 timeout to (secs)	Specify how long an alert should stay on the screen at an endpoint. (<i>Default</i> = <i>120 seconds</i>)
Set new maximum file size	Specify the maximum file size that the antivirus should attempt to scan.
to (MB)	Files larger than the size specified here will not be not scanned. (<i>Default</i> = 40 MB)
Set new maximum script	Specify the maximum size of a script that the antivirus should attempt to scan.
size limit to (MB)	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.

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

neral Moni	oring Antivirus	
Antivirus		
Realtime Scan	Scans Exclusions	
This section allow	vs you to add, remove and edit scan profiles and scheduled tasks.	
Add	Scan Profile	×
Scan n	e items to be scanned, scanning options and running schedule. ame n name	
lte	ns	
	Add File S Add Folder S Add Region	
Ор	tions	
Sc	nedule	
	Cancel	ОК

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' and 'Memory'.

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	
Items	
Add File Add Folder Add Region PROFILE	
Commonly infected areas Memory	
Options	
Schedule	
Cancel	ж

• 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'

6	
fin	e items to be scanned, scanning options and running schedule.
an r	name
Sca	an name
lte	ms
Ор	tions
	Enable scanning optimizations (up to CCS8.3)
	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.
龖	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.
Sc	hedule
	Cancel OK

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Options Configuration - 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 (Default = <i>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 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.			
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 of the scan. Choices are high, medium, low and run in the background. (<i>Default = Enabled with Background option</i>)			

Options Configuration - Table of Parameters			
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. (<i>Default = Enabled</i>).		
Detect potentially unwanted applications	CCS also scans for applications that (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 = Enabled</i>).		

The next step is to schedule when the custom scan should be run.

Click 'Schedule'

Schedule						
requency:	*		*		_	
) Do not schedule this task	05	:	00	PN	1	
) Every day) Every week			×			
Every month						
	• 8 •					
	15					
	22					
	29					
 Run only when computer is not Run only when computer is idle Turn off computer if no threats 				of the	ecan	

Form Element Description				
 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 Day - Runs the scan every day at the time specified 				

	Schedule Settings - Table of Parameters
	• 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 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	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' •

сомодо

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 Monitor	ring Antivirus		
Antivirus			Cancel 🖺 Save
Realtime Scan	Scans Exclusions	_	
Excluded Paths	Excluded Applications	Excluded Groups	
Add			
PATH \$			

Click 'Add' .

The 'Add' dialog will appear:

Add Excluded Path		×
Path		
Path		
	Cancel	ОК
• 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 🖉 , 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 Monitori	ing Antivirus			
Antivirus			😵 Cancel	🖹 Save
Realtime Scan	Scans Exclusions			
Excluded Paths	Excluded Applications	Excluded Groups		
Add				
PATH \$				
SystemR	Root%\System32\SearchIndex	er.exe		1
Click 'Add'				

сомодо

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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. ITSM 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'

Antivirus S Cance Realtime Scan Scans Exclusions Excluded Paths Excluded Applications Excluded Groups	el 📱 Save
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	15
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. Refer to the section 'Editing Configuration Profiles' for more details about editing the parameters.

6.1.3.1.2. CCC and CCS Application Update Settings

The 'Updates' component of a Windows profile lets you configure when managed computers should check for updates for Comodo Client - Communication (CCC) and Comodo Client - Security (CCS). You can also specify the location from where updates should be downloaded.

Tip: You can also manually update CCC and CCS on selected endpoints from the 'Device List' interface. See **Remotely Installing and Updating 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 be displayed.

сомодо

General Antivirus Updates Comodo Client - Communication Comodo Client - Security Download Servers 😣 Cancel 📔 Save Comodo Client - Communication Enable auto-updating Comodo Client - Communication matically updating CCC to the latest version This option enables auto Update frequency Daily (default) Start time 👩 Minutes 6 The updates will be performed according to the set schedule. Each update will last approximately one hou

The settings screen for updates contains three tabs:

- Comodo Client Communication Enable automatic program updates for CCC 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.

Comodo Client - Communication

Click the 'Comodo Client - Communication' tab

The 'Comodo Client - Communication' tab allows you to enable or disable automatic program updates for the CCC application and set a schedule for the endpoints to check for availability and download the updates.

General Antivirus Updates		
Comodo Client - Communication Comodo Client - Secu	urity Download Servers	
Comodo Client - Communication		😵 Cancel 🖺 Save
Enable auto-updating Comodo Client - Communic This option enables automatically updating CCC to the latest versio Update frequency		
Daily (default)	~	
Start time 🚯		
6 🗇 : Minutes 🔿 🗛 PM		
The updates will be performed according to the set schedule. Each approximately one hour.	update will last	

- Enable auto-updating Comodo Client Communication Forces the endpoint to check for and install CCC 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 CCC 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	(custon	n)			~
start time	• 0				
5	0:	50	0	AM	PM

Weekly - Select the days and specify the time for the updates to be checked every week

•

Seneral Antivirus Updates		
Comodo Client - Communication Comodo Client -	Security Download Servers	
Comodo Client - Communication		😒 Cancel 🖺 Save
Enable auto-updating Comodo Client - Comm This option enables automatically updating CCC to the latest v Update frequency		
Weekly	~	
Start time ()		
6 🔶 : 30 🗘 AM PM		
The updates will be performed according to the set schedule. last approximately one hour.	Each update will	
Days of the week	Select All	I Reset
Monday Tuesday Wednesday Thursday	Friday Saturday Sund	

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 Comodo Client - Communication Comodo Client - Security Download Servers **Comodo Client - Communication** 😒 Cancel 📑 Save Enable auto-updating Comodo Client - Communication This option enables automatically updating CCC to the latest version Update frequency On selected days Start time 🚯 30 PM 6 The updates will be performed according to the set schedule. Each update will last approximately one hour Select All | Reset Days of the week Wednesday Select All | Reset Ordinal number of the selected days of the week First

Monthly - Select the date(s) and specify the time for the updates to be checked every month

eneral	Anti	virus	Up	odates					
modo Cl	ient - (Comm	unicat	ion	Como	odo Client - Securit	ty Download Server	s	
Comod	lo Cli	ent -	Com	munic	cation				😒 Cancel 🖺 Sa
	n enabl	les auto				nt - Communicat to the latest version.	tion		
Month		~9					*		
6 The updat last appro Days of n	ximate					PM set schedule. Each up	odate will		
1									
15									
15 22									

Click 'Save'.

.

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.

General	Antivirus Updates	_			
Comodo	Client - Communication	Comodo Client - Security	Download Servers		
Come	odo Client - Security			🙁 Cancel	🖺 Save
Applic	ation Updates				
	Enable auto-updating Co is option enables automatically	omodo Client - Security updating CCS to the latest version.			
Up	date frequency				
1	Daily (default)		~		
Sta	art time 🚯				
	7 🔶 🖾 Minutes				
	Skip updates if the device	ce is offline			
Re	boot options				
0	Force the reboot in				
	5 minutes		~		
0	Suppress the reboot (
	Warn about the reboot a				
De	he of management				
	boot message	dentes company dil sont hafes			
	enter a message that the reboot	device owner will get before	the		
			11		
Virus	database updates				
	Check for database upd	late every			
	1 Hours	~			
	Do not check for update	es if running on battery			
	Check for updates durin	g Windows Automatic			
	Maintenance plies to Windows 8 and higher				
Ab	price to minuons o anu nigher				

- 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 ITSM
- 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 Comodo Client - Security Comodo Client - Communication **Download Servers** 🛞 Cancel **Download Servers** 🕀 Add 🕀 Edit 🗵 Remove 🔿 Move Up Move Down TRANSFER PROTOCOL SERVER CLIENT STATUS download.comodo.com Client Security HTTP

By default, ITSM is set to download 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:
 - Client Security
 - Communication Client
 - Communication Client + Client Security
- Click 'Add'. Repeat the process to add more servers.

General Antivirus Updates Comodo Client - Communication Comodo Client - Security Download Servers **Download Servers** 😣 Cancel 💾 Sa 🕀 Edit (Remove 🕜 Move Up 🕀 Add Move Dowr TRANSFER SERVER CLIENT STATUS PROTOCOL HTTP download.comodo.com Client Security Communication Client + Client HTTP local.download.net Security HTTPS local2.download.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'
- Open the profile you wish to work on
- Click 'Add Profile Section' > 'File Rating'

The file rating screen has two tabs:

• File Rating - Enable file rating and configure overall behavior.

 Local Verdict Server Settings - Choose whether ITSM should obey or ignore the trust rating of files saved by the local installation. If disabled, file rating scans will only consider the verdicts of the cloud server.

File Rating	Settings
General	File Rating
File Rating	Local Verdict Server Settings
File Ra	ating Save
Enal	ble Cloud Lookup (recommended)
	Enable upload metadata of unknown files to the cloud
	Show cloud alert option, when disabled, automatically applies "Block and Terminate" action to malware detected by cloud scanning.
Dete	ect potentially unwanted applications
	o purge is enabled iles whose absolute path is specified and which no longer exist will be purged i.e. only local unrecognized files will be affected.
4	Hours V
Cus	tom FLS access ports
🔳 Ena	ble report for non-executable files
Sho	w non-executable files

File Rating Configuration - Table of Parameters			
Form Element	Description		
Enable Cloud Lookup	Enable or disable cloud-based file rating. (<i>Default = Enabled</i>)		
Enable upload metadata of unknown files to the cloud	If enabled, anonymized information about unknown files will be uploaded to Comodo servers. This allows us to analyze and whitelist/blacklist files more effectively. (<i>Default = Enabled</i>)		
Show Cloud Alert	Choose whether to show an alert on the device when malware is found during a file rating scan. If disabled, CCS will automatically block and delete any discovered malware. (<i>Default = Disabled</i>)		
Detect potentially unwanted applications	 A potentially unwanted application (PUA) is an app that: 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 		

Fil	e Rating Configuration - Table of Parameters
	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. (<i>Default = Enabled</i>)
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 ports	Define custom ports through which the file lookup service will connect.
	 Select the protocol(s) and enter the port details for UDP or TCP connections.
	(Default = Disabled)
Enable report for non-executable files	If enabled, information about non-executable files will be reported to ITSM. (<i>Default = Enabled</i>)
Show non-executable files	If enabled, non-executable files will also be shown in 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

General File Rating	
File Rating Local Verdict Server Settings	
Local Verdict Server Settings	😒 Cancel 🔳 Save
Enable Local Verdict Server ()	

- Enable Local Verdict Server Local trust verdicts are those stored in the CCS installation on the 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

(Default = Enabled)

• Click 'Save' to apply your changes.

6.1.3.1.4. Firewall Settings

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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 will be displayed. It contains six tabs:

- Firewall Settings Allows you to configure the general firewall behavior
- Application Rules Allows you to define rules that determine the network access privileges of individual applications or specific types of applications at the endpoint
- · Global Rules Allows you to define rules that apply to all traffic flowing in and out of the endpoint
- **Rulesets** Allows you create 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** Allows you to create named grouping of one or more IP addresses. Once created, you can specify a zone as the target of firewall rule.
- Portsets Allows you to define groups of regularly used ports that can used and reused when creating traffic filtering rules.

Firewall Settings

General	Sandbox	HIPS	Antivirus	File Rating	Firewall	Viruscope	Valkyrie
Firewall						Save	Delete
Firewall Se	ttings Ap	plication R	ules Glob	oal Rules	Rulesets	Network Zones	Portsets
			nmended) bund and outbour	nd traffic.			~
Show	popup alerts n:						
Allow R	equests						~
Turn t	raffic animati	on effects	on				
Create	e rules for saf	e applicati	ons				
Set al	ert frequency	level					
Low							~
Set ne	w on-screen	alert timeo	ut to <mark>(</mark> sec.):				
120							
Filter	IPv6 traffic						
Filter	loopback trafi	fic (e.g. 12	7.x.x.x, ::1)				
Block	fragmented I	P traffic					~
Do Pro	otocol Analys	is					
Enable	e anti-ARP sp	oofing					

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	Firewall Configuration - Table of Parameters
Form Element	Description
Enable Traffic Filtering	Allows you to 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	You can enable the alerts 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 Requests
	Allow 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				
	Firewall Configuration - Table of Parameters			
	Solution Solution /b>			
	You can enable or disable the animation to be displayed at the endpoint.			
Create rules for safe	Comodo Firewall trusts the applications if:			
applications	 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. (Default=Disabled)			
	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	Determines how long the Firewall shows an alert for, without any user intervention			

Firewall Configuration - Table of Parameters				
timeout to:	at the 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 (Default = Enabled).	

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.

General Firev	wall				
Firewall				Са	ncel Save
Firewall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets
+ Add					
	ΓΙΟΝ			TREAT AS	
Windows	Updater Applications			Custom	ø
Windows	System Applications			Custom	ø

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 Viruscope Valkyrie	
Firewall Save Delete	
Firewall Settings Application Rules Global Rules Rulesets Network Zones Portsets	
+ Add	
APPLICATION TREAT AS	
Windows Updater Applications Custom	
U Windows System Applications Custom	
Name of the application Name of the Mozilla Firefox - to which the Firewall Mozilla Firefox - pre-defined	
Mozilla Firefox to which the Firewall Mozilla Firefox pre-defined ruleset is applied	
Clicking the 'Edit' icon opens the list of rules in	L
the ruleset and allows you to add/remove and edit individual rules	Į.,
Application Rule	
Name	
Mozilla Firefox Mozilla Firefox	•
Use Ruleset	Ŧ
Use a Custom Ruleset Copy from	
Add	

Allow Outgoing FTP-PASV Request	ts	combination of individually configurable rules.
Allow Outgoing DNS Requests		Each rule applied to an appliaction determibes its netwotk access rights
Block and Log All Unmatching Req	quests	1
•	Allow Outgoing DNS 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 Creating and Modifying 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 Adding and Editing a Firewall Rule for an explanation of individual rule configuration.

Application Rule interface

•

The rules in a Firewall ruleset can be added/modified/removed and re-ordered through the Application Rule interface. Any rules created using **Adding and Editing a Firewall Rule** is displayed in this list.

The Application Rule interface is displayed when you click the 'Add' button ruleset, from the options in 'Application Rules' interface.

or 'Edit' icon 🖋 beside a

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 	• e Down
Allow TCP OR UDP In/Out	1
Allow IP In/Out	1
Allow ICMPv4 In/Out	1
	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.

Creating and Modifying Firewall Rulesets

Add

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

at the top of the list in the 'Application Rules' interface.

The 'Application Rule' interface will open as shown below:

Application Rule Nome Type New File Group Target Or Select Existing Use Ruleset Use a Custom Ruleset Copy from ... * Add Rule RULES OK

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).

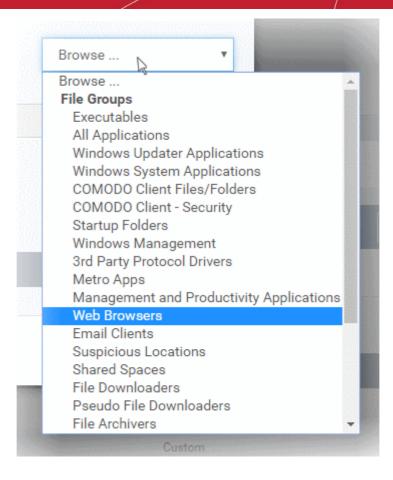
You can enter the application(s) to which the rule set is to be applied in two ways:

 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. ITSM ships with a set of predefined 'File Groups' and, if required users, can add new File Groups and edit existing groups. Refer to the portion explaining 'File Groups' under 'Settings' > 'System Templates' > 'File Groups Variables'

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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	C:\Program Files\Mozilla Firefox\firefox.exe			
Use Ruleset	Web Browser			
Use a Custom Ruleset	Web Browser Email Client Ftp Client			
	Allowed Application Blocked Application Outgoing Only			
		OK Cancel		

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 Cust	om Ruleset	Copy from	
		v	
Ruleset	•	Please, select	
		Please, select	
		Web Browser	
		Email Client Ftp Client	
		Allowed Application	
		Blocked Application	
		Blocked Application Outgoing Only	
Use a Custom F	Ruleset Copy fro	Outgoing Only	
	Remove G Move Up	Outgoing Only	
F Add Rule	Copy Inc	Outgoing Only	
► Add Rule 🛛 ⊖	Copy Inc	Outgoing Only Tom	
► Add Rule ■ RULES ■ ✓ Allow Acce	Remove O Move Up	Outgoing Only rom	
Add Rule RULES Allow Acce Allow Outg	Remove O Move Up	Outgoing Only Tom p ♥ Move Down Choosing 'Use Custom Ruleset', then 'Copy from' > 'Ruleset' > selecting a pre-defined rule will populate the rules window with the constituent r of the pre-defined ruleset. In the example shown, the	ules
Add Rule RULES Allow Acce Allow Outg Allow Outg	Remove O Move Up	Outgoing Only rom p Outgoing Only Move Down Choosing 'Use Custom Ruleset', then 'Copy from' > 'Ruleset' > selecting a pre-defined rule will populate the rules window with the constituent r 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	rules d
Add Rule RULES Allow Acce Allow Outg Allow Outg Allow Outg	Remove O Move Up ess to Loopback Zone poing HTTP Requests poing FTP Requests	Outgoing Only rom Move Down Choosing 'Use Custom Ruleset', then 'Copy from' > 'Ruleset' > selecting a pre-defined rule will populate the rules window with the constituent r of the pre-defined ruleset. In the example shown, the individual rules from the 'Web Browser' ruleset are	rules d

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 'Adding and Editing 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:

- 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

Adding and Editing a Firewall Rule

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 Adding and Editing 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 Adding and

Editing a Firewall Rule to see the list of available IP protocols that can be displayed here.

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, 'Adding and Editing 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)

Adding and Editing 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 'Creating and Modifying 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

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 t	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 0.0.0.0- 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.

- 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
Exclude (i.e. NOT	T the choice below)		
	T the choice below)		
Any			(
e Any			(
Any			(

- 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.

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			 -
lessage			
Any			-

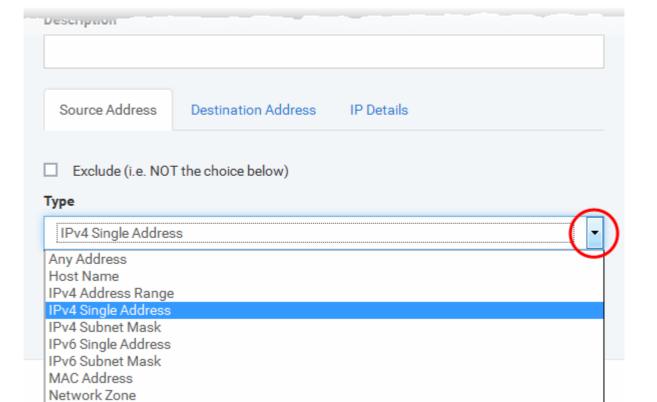
- 2. Under the 'ICMP Details' tab, choose the ICMP version from the 'Type' drop-down.
- 3. Specify ICMP Message, Types and Codes. An ICMP message includes a Message that specifies the type, that is, the format of the ICMP message.

Description	
Source Address	Destination Address ICMP Details
Туре	ICMPv4
Message	Any Custom
	Απγ
	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.

iii. 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.



IP Details

Select the types of IP protocol that you wish to allow, from the ones that are listed.

IP Protocol Any Custom Any TCP	Destination Address			
Any Custom Any TCP				
Any Custom Any TCP				
Any TCP				(
TCP				
UDP				
ICMPv4				
IGMP				
Raw IP				
PUP				
GGP				
GRE				
RSVP ICMPv6				

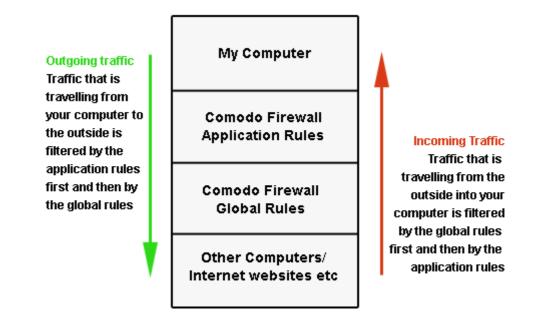
• Click 'OK' to save the firewall rule.

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					ø
: 🗆 🖌	Allow ICMPv4	4 In				
: 🗆 🗸	Allow ICMPv4	4 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 Adding and Editing 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. ITSM 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	E Save
Firewal	l Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets	
+ A	dd Ruleset						
	RULESET N	AME \$					
	Web Brows	er					ø
	Email Client	I					
	Ftp Client						ø
	Allowed Ap	plication					ø
	Blocked Ap	plication					ø
	Outgoing Or	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).

ITSM 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 refer to the explanation of **Adding and Editing Firewall Rules** in the section 'Application Rules'.

Creating 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 • Ruleset • Please, select My Ruleset Ruleset • Please, select -Please, select Email Client 4 Ftp Client Allowed Application **Blocked Application** Outgoing Only -Mo Re Allow Access to Loopback Zone Allow Outgoing HTTP Requests Allow Outgoing FTP Requests ✓ Allow Outgoing FTP-PASV Requests Allow Outgoing DNS Requests O Block and Log All Unmatching Requests OK

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 'Adding and Editing 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 S 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

Creating Trust Online

- COMODO
- Define network zones that are trusted, and to specify access privileges to them
- Define network zones that are untrusted, and to block access to them

General Firewa	all				
Firewall				Canc	el Save
Firewall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets
 Enable automa Do NOT show Location treatment Work Network Zones 		e networks			~
Add		-		-	
Loopback Z	one				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.

 COMODO Network Detected
 ?

 Image: Select your location:
 Please select your location:

 Image: Select your location:
 Choose if you are at home and have just connected your computer to a local network

 Image: Select your location:
 Choose if you are at home and have just connected your computer to a local network

 Image: Select your location:
 Choose if you are at work place and have just connected your computer to a local network

 Image: Select your location:
 Choose if you are at work place and have just connected your computer to a local network

 Image: Select your location:
 Choose if you are at work place and have just connected your computer to a local network

 Image: Select your location:
 Choose this option if you are at public place such as a coffee shop, hotel or school, etc.

 Image: Do not detect new networks again
 Do not detect new networks again

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
Lo	cation treatment:
	Work (~)
V	lork
Н	ome
Р	ublic

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

- Add Click the '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			
ADDRESS			

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.
- iii. IPv4 Range Will include all the IPv4 addresses between the values you specify in the 'Start Range'

Cancel

OK

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.
- v. 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.

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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)		•
Network Zone			
Network Zone			
Network Zone			

To edit a network zone, click the 'Edit' icon \checkmark 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.

General	Procedure	s VirusScope	Firewall							
Firewa	ll					🛞 Cancel	🖹 Save			
Firewall	Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets				
🗌 Do I	 Enable automatic detection of private networks Do NOT show popup alerts Location treatment: 									
Work							~			
Netw	ork Zones	Blocked Zones								
+ Ad	ld 🕇 Ad	d from Network Zone	2							
	ZONE NAME	E								

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.

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General Antivirus Firewall Firewall 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 from Network Zor 🔎 🕞 Remove ZONE N Work **Blocked Zones** Network Zones Network Zone: Loopback Zone X Cance Loopback Zone Sales Dept. Computers Mischievous guys in the offic

- 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.

General Antivirus Firewall Firewall **Global Rules** Network Zones Firewall Settings Application Rules Rulesets Portsets Enable automatic detection of private networks Do NOT show popup alerts Location treatment: Work Network Zones Blocked Zones Remove ONE NAM Address Exclude (i.e. NOT the choice below) Туре Any Address Host Name IPv4 Address Range IPv4 Single Address IPv4 Subnet Mask IPv6 Single Address IPv6 Subnet Mask 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.
- 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.

General Firew	all					
Firewall				[Cancel	Save
Firewall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets	
+ Add	_	_		_		
HTTP Ports						ø
POP3/SMT	P Ports					ø
Privileged F	Ports					ø

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	1
443	
8080	
	10 25 50 100
	OK Cancel

ITSM 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.

Defining 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. Refer to 'Creating or Modifying Firewall Rules' for more details.

To add a new portset

• Click the 'Add' button from the top.

The 'Portset' dialog will open.

Fire	ewall					Cancel	Save
F	irewall Settings	Application Rules	Global Rules	Rulesets	Network Zones	Portsets	
(+	Add						
	PORTSET ¢						
	HTTP Ports						
	DOD2/SMTD De						4
Po	rtset						
Nam							
Po	orts to be guarded						
$(\cdot$	Add						
	T	PORTS					
Po	rt						
	•						
	Exclude (i.e. NOT the	choice below)					
	Any A Single Port						
		1 👘					
0	A Port Range	1 👘	6553	5			
						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:

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- 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	
ТСР	-
Direction	
Out	-
Description	
Allow Outgoing HTTP Requests	
Source Address Destination Address Source Port Destination F	Port
Exclude (i.e. NOT the choice below)	
Туре	
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 *P* 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. Refer to the section 'Editing Configuration Profiles' for more details.

6.1.3.1.5. HIPS Settings

The Host Intrusion Prevention System (HIPS) constantly monitors system activity and only allows executables and processes to run if they comply with security rules that have been enforced by the Windows profile applied to the managed computer. Comodo Client Security ships with a default HIPS ruleset that works 'out of the box' - providing extremely high levels of protection without any user intervention. For example, HIPS automatically protects system-critical files, folders and registry keys to prevent unauthorized modifications by malicious programs. Administrators looking to take a firmer grip on their security posture can quickly create custom policies and rulesets using the powerful rules interface and roll it out through the Windows profile.

To configure HIPS Settings and Rules

Click 'HIPS' from the 'Add Profile Section' drop-down

The HIPS settings screen will be displayed. It contains six tabs:

- HIPS Settings Allows you to configure the settings that govern the overall behavior of the HIPS component.
- HIPS Rules Allows you to view, create and modify rules that determine how the applications in the managed computer have to be protected
- Rulesets Allows you view predefined rulesets and create new rulesets that can be applied to the
 applications on the managed computer.
- **Protected Objects** Allows you to view and edit predefined 'Registry Groups' and 'COM Groups', create new groups so as to add them to Protected Objects.

HIPS Settings

The HIPS settings panel under the HIPS tab allows you to enable/disable HIPS, set HIPS security level and configure HIPS' general behavior.

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General HIPS HIPS 🗙 Cancel 🛛 🖨 Sa 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. Allow Requests \sim Do NOT show popup alerts Set popup alerts to verbose mode Create rules for safe applications 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) Do heuristic command-line analysis for Certain Applications Enable embedded code detection 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. Exclusions Detect shellcode injections

	HIPS Settings - Table of Parameters
Form Element	Description
Enable HIPS	Allows you to enable or disable HIPS protection for the managed computers to which the profile is applied. (<i>Default=Enabled</i>) If enabled, you can configure the HIPS security level and monitoring settings.
Hips Security Level	If HIPS is enabled, you can choose the security level for the HIPS to provide at the managed computer from the drop-down below 'Enable HIPS'.
	Enable HIPS
	Safe Mode 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 that HIPS monitors and controls all executable files apart from those that you have deemed safe. Comodo Client Security does not attempt to learn the behavior of any applications - even those applications on the Comodo safe list and only uses <i>your</i> configuration settings to filter critical system activity. Similarly, the Comodo Client Security does automatically create 'Allow' rules for any

	HIPS Settings - Table of Parameters
	executables - although the end user still has the option to treat an application as 'Trusted' at the HIPS alert. Choosing this option generates the most amount of HIPS alerts and is recommended for advanced users that require complete 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.
	• Training Mode : HIPS monitors and learn the activity of any and all executables and create automatic 'Allow' rules until the security level is adjusted. The end-user will not receive any HIPS alerts in 'Training Mode'. If you choose the 'Training Mode' setting, we advise that you are 100% sure that all applications and executables installed on the endpoints are safe to run.
Monitoring Settings	If HIPS is enabled, you can configure the activities, entities and objects that should monitored by it at the managed endpoint by clicking the 'Monitoring Settings' link.

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	HIPS Settings - Table of F	Parameters	5
E	nable HIPS		
	Safe Mode		✓ Monitoring Settings
T	his option enables the Host Intrusion P	rotection Sys	
M	onitor Settings		Close
Act	ivities to Monitor		
	Interprocess Memory Access		Processes Execution
	Windows/WinEvent Hooks		Win Messages
	Device Driver Installations		DNS/RPC Client Service
	Processes' Terminations		
	ects to Monitor Against Modificatio		
	Protected COM Interfaces		Protected Registry Keys
	Protected Files/Folders		
	ects to Monitor Against Direct Acces		
	Physical Memory		Disks
	Computer Memory		Keyboard
tivi1	modification to inject maliciou include recording your keybor applications and stealing data process to another. One of th breaches is the ability of the o compromised process to 'imp makes life harder for tradition systems. Leave this option se	is code for ard strokes a by sendir ie most ser offending n personate' t ial virus sca elected, and y the memo	are programs use memory space numerous types of attacks. These s; modifying the behavior of ng confidential information from one ious aspects of memory-space nalware to take the identity of a the application under attack. This anning software and intrusion-detection d HIPS generates alerts when an ory space allocated to another
•	hook is a mechanism by which reach an application. Example actions and keystrokes. Hook modify or discard them. Origin developers to develop more p been exploited by hackers to	ch a functio e intercept (s can reac nally devel- cowerful ar create mon ry stroke or	crosoft Windows® operating system, a on can intercept events before they red events include messages, mouse ct to these events and, in some cases, oped to allow legitimate software nd useful applications, hooks have also re powerful malware. Examples include n your keyboard; record your mouse

	HIPS Settings - Table of Parameters
	alert is generated every time a hook is executed by an untrusted application (<i>Default</i> = <i>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 (<i>Default = Enabled</i>).
•	Processes' Terminations - A process is a running instance of a program. Terminating a process, obviously, terminates the program. Viruses and Trojar horses often try to shut down the processes of any security software you hav 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 dow another application (<i>Default = Enabled</i>).
•	Process Execution - Malware such as rootkits and key-loggers often execut as background processes. With this setting enabled, HIPS monitors and generates alerts whenever a process is invoked by an untrusted application. <i>(Default = Enabled)</i> .
	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 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>).
Objec	ts 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 specified from the Registry Protection pane. (<i>Default = Enabled</i>). Protected Files/Folders enables monitoring of files and folders you specified from the File Protection pane. (<i>Default = Enabled</i>).
Objec	ts To Monitor Against Direct Access:
critica applic softwa	mines whether or not Comodo Client Security should monitor access to system I objects on the managed computer. Using direct access methods, maliciou ations can obtain data from a storage devices, modify or infect other executable are, record keystrokes and more. Comodo advises the average user to leave settings enabled:

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	HIPS Settings - Table of Parameters
	 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 (Default = Enabled).
	• 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'.
	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 applications in HIPS Ruleset (Default = Enabled)
applications	Note: HIPS trusts the applications if:
	The application/file is rated as 'Trusted' in the File List
	 The application is from a vendor included in the Trusted Software Vendors list

	HIPS Settings - Table of Parameters
	The application is included in the extensive and constantly updated Comodo safelist.
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 i 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. ITSM requires a system restart for enabling enhanced protection mode. (<i>Default = Disabled</i>)
Do heuristic command- line analysis for certain applications	Selecting this option instructs Comodo Client Security to perform heuristic analysis of programs that are capable of executing code such as visual basic scripts, java applications, python scripts and Autolt scripts.
	Example programs that are affected by enabling this option are wscript.exe, cmd.exe, java.exe and javaw.exe. For example, the program wscipt.exe can be made to execute visual basic scripts (.vbs file extension) via a command similar to 'wscript.exe c:\tests\test.vbs'. If this option is selected, CCS detects c:\tests\test.vbs from the command-line and applies all security checks based on this file. If test.vbs attempts to connect to the Internet, for example, the alert will state 'test.vbs' is attempting to connect to the Internet (<i>Default = Enabled</i>).
	• If this option is disabled, the alert would only state 'wscript.exe' is trying to connect to the Internet'.
	You can view and select which applications are analyzed by clicking the 'Certain applications' link.
	See the explanation under Selecting Applications for Heuristic Command Line 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
Enable embedded code detection	If enabled, CCS will detect embedded codes (scripts) for "Fileless Malware" protection.
Detect shellcode	Enabling this setting turns-on the Buffer over flow protection.
injections	Background: A buffer overflow is an anomalous condition where a process/executable

	HIPS Settings - Table of Paramet	ers
the oth pro exe buf	empts to store data beyond the boundaries extra data overwrites adjacent memory loc er buffers, variables and program flow data duce incorrect results. They can be triggen ecute malicious code or to make the progra fer overflows cause many software vulnera ploits.	ations. The overwritten data may include and may cause a process to crash or ed by inputs specifically designed to m operate in an unintended way. As such
up der	ning-on buffer overflow protection instructs alerts in every event of a possible buffer ov ny the requested activity raised by the proce ability of the software and its vendor.	erflow attack. The end-user can allow of
Сог	modo recommends this setting is left enabl	ed (Default = Enabled) .
	u can also add files/folders and/or file group actions. To add exclusions, click the 'Exclus Do heuristic command-line analysis for certain ap	ons' link after enabling this option.
	Detect shellcode injections	
	Detect shellcode injections	Close
		Close
	Exclusions	Close Exclusion Groups
	Exclusions Add -	

Selecting Applications for Heuristic Command Line 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'.

You can view and select which applications undergo Heuristics Command Line analysis by clicking 'Certain Applications' next to 'Do heuristic command-line analysis for ':

Enable enhanced protection mode (requires a system restart)

Do heuristic command-line analysis for Certain applications

Enable embedded code detection

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Block unkno	own requests when the a	application is not ru	nning		
	anced protection mode (-		
	command-line analysis		pplications	`	
	edded code detection	C C	5	·	
	tal size of saved detecte	ed scripts to 100	KB		
Parsers					×
Select the applica analysis.	ations for which you wo	uld like HIPS to perf	form heuristic c	ommar	nd-line
+ Add	Reset to Default				
APPLICATION			ENABLE ANALYSIS		
*\winhlp32.exe			ON	ø	Û
*\WScript.exe			ON	1	Û
*\cscript.exe			ON	ø	Û
*\mshta.exe			ON		Û
*\perl.exe			ON	ø	Û
*\regedit.exe			ON	1	Û
*\acrord32.exe			OFF	ø	Û
*\hh.exe			ON	1	1
*\java.exe			ON	1	1
*\javaw.exe			ON	1	Û
*\cmd.exe			ON	ø	Û
*\rundli32.exe			ON	1	Û
*\msiexec.exe			ON	1	Û
*\regsvr32.exe			ON	ø	Û
*\powershell.exe			ON	ø	Û
*\python.exe			ON	1	Û
*\pythonw.exe			ON	1	Û
*\autoit3.exe			OFF	1	Û
*\autoit3_x64.exe	8		OFF		Û
					ок

The 'Parser' dialog displays the list of applications to choose from and also allows you to add custom applications.

• Use the toggle switch beside the applications to enable/disable them for analysis.



- · Click the edit button to update the details of an application.
- Click the trash can icon to remove an application from the list.
- Click 'Add' at the top to add a new application to the list.

Parsers	×
Select the applications for which you would lik analysis. + Add Reset to Default	e HIPS to perform heuristic command-line
	ENABLE ANALYSIS
*\winhlp32.exe	ON 🖍 🗊
Add Parser	×
Add a new application	
Application	
	Add

- Enter the name of the application in the 'Add Parser' 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.
- 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.

General **File Rating** Firewall Viruscope HIPS HIPS **HIPS Settings HIPS Rules** Rulesets Protected Objects COMODO Endpoint Security All Allowed Apps ŵ Web Browsers All Allowed Apps Ŵ beautyimageviewer.exe All Allowed Apps Ŵ

HIPS Rules - Column Descriptions		
Column Header	Description	
Application	Name of the individual application or the application to which the ruleset is applied	
Treat As	The ruleset applied. For more details on the rulesets, refer to the next section Rulesets .	
Actions	Contains control buttons to edit or remove the rule	

Creating and Modifying 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:

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IPS			Save
PS Settings HIPS Rules	Rulesets	Protected Objects	
Add Rule			
		TREAT AS 🕶	
CONODO Endpoint Security		All Allowed Apps	
Min Browsers			
News			
Name	Name		
	Name	Use Ruleset	
Use Group	Name	Use Ruleset Copy From -	

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		Close
Group Name		
Use Group	Select File Group Select File Group Executables All Applications Windows System Applications COMODO Endpoint Security Windows Management 3rd Party Protocol Drivers Metro Apps Management and Productivity Applications Email Clients Suspicious Locations Shared Spaces File Downloaders Web Browsers Pseudo File Downloaders File Archivers	
	Sandbox Folders COMODO Endpoint Security Manager Windows Updater Applications COMODO Files/Folders	-

Note: ITSM ships with a set of predefined file groups containing collections of files under respective categories. Administrators 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. Refer to the section **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		Close
Group Name		
Use Group	COMODO Endpoint Se	ecurity
	You can add/edit File Gr	oups here
Our See Ruleset	All All	owed Apps
⊚ Use a Custom Ruleset	ruleset from the	et' and choosing a pre-defined drop-down, will populate the rules or the application/group.
Access Rights	. ↓	Protection Settings
ACCESS NAME	ACTION	EXCLUSIONS
Run an executable	Allow	▼ Modify (0 0)
Interprocess Memory Accesses	Allow	▼ Modify (0 0)
	Aliow	
Disk	Allow	······
Keyboard	Allow	-
		Ok

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)

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HIPS Rule				Clo	se
Group Name					
Use Group	COMODO En	dpoint Secur	ty		
	You can add/eo	lit File Groups	here		
O Use Ruleset		Use Rules	et		-
Use a Custom Ruleset		Copy From	-		
Choosing 'Use Custom Rulese' selecting 'Copy From' > 'Rulese' selecting a pre-defined ruleset populate the rules window with constituent rules. In the examp the parameters of the ruleset a as per the pre-defined ruleset ', Using this as a starting point, t can chnage the options for the and 'Protection Settings'.	ets' > will the le shown, e configured All Allowed App ne administrato	or	/	All Allowed A Windows Sy	10/2/01/01
Access Rights		P	rotection §	Settings	
ACCESS NAME	A	CTION		EXCLUSIONS	
un an executable		Allow		Modify (0 0)	
nterprocess Memory Accesses		Allow	•	Modify (0 0)	
Windows/WinEvent Hooks		Allow		Modify (0 0)	
Physical Memory		Allow			
Computer Monitor		Allow	•		
Disk		Allow			
Keyboard		Allow			
				Ok	

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 custon	ruleset.
Interprocess Memory Accesses	Allow Modify (0 0) Ask Allow Block
	to Monitor to view a list of definitions of the Action Names action from 'Ask', 'Allow' or 'Block' for each setting as
'Modify' link on the right.	w' or 'Block' can be specified for the ruleset by clicking the ocked Files/Folders' tab depending on the type of exception
Interprocess Memory Acc	esses Close
Add ~	
Allowed Files/Folders	Blocked Files/Folders
GROUP/PATH/FOLDERS/RUNNING PROCESSES	ACTIONS
You can add/edit File Groups here	ок

- Clicking the 'Add' button at the top allows you 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'.

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Access Rights	Protection 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	ttings HII	PS Rules	Rulesets	Protected Obje	octs		
Add Rule	set						
RULESET	NAME						
All Allowe	ed Apps						e 🖉
Windows	System Applica	tion					1

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To add a new ruleset

- Click the 'Add Ruleset' button
- Add Rulese

above the list of rulesets.

The 'HIPS Ruleset' dialog will appear.

Name		
Name		
Access Rights	Pro	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 (0 0)
Computer Monitor	Ask	
Disk	Ask	•
Keyboard	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 HI	PS Rules	Rulesets	Protected Obje	ects		
Show	Protected File	28	► By	File List	~		
Add File	Path						
PATH							ACTIONS
C:\Progra	am Files\New so	ftware\new_soft	ware.exe				e 🕯

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

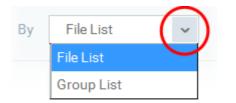
The 'Protected Files' list under 'Protected Objects' interface allows you to view and manage list of files and file groups that are to be protected from access by other programs, especially malicious programs such as virus, Trojans and spyware at the managed computer. It is also useful for safeguarding 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.

File Rating HIPS General Firewall Viruscope HIPS **HIPS Rules** Protected Objects **HIPS Settings** Rulesets Show Protected Files By File List × C:\Program Files\OpenOffice 4\program\soffice.exe Û



- 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.

dd File Path		
атн		
Add Protected File Path	Close	
Add Protected File Path	Close	
	Close	

- 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

COMODO

Show Protected	Files	✓ By	Group List	~	
Add Protected Grou					You c
Executables		-			
All Applications					
Windows Updater Ap	plications	=			
Windows System Ap	plications				
File Downloaders					
Shared Spaces					
Startup Folders					
Windows Manageme	ent				
3rd Party Protocol D	rivers				
Metro Apps					
Web Browsers		-			

Choose the file group from the drop-down and click 'OK'.

Note: ITSM ships with a set of predefined file groups containing collections of files under respective categories. Administrators 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. Refer to the section **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 account.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		Close
Name		
Use Group	account.ods	
O Use Ruleset	Use Ruleset	-
Use a Custom Ruleset	Copy From 🗸	
Access Rights	Protectio	on Settings
ACCESS NAME	ACTION	EXCLUSIONS
Run an executable	Ask	Modify (0 0)
Protected Registry Keys	Ask	Modify (0 0)
Protected File/Folders	Ask	Modify (0 0)
DNS Client Service	Ask	
-Uisk-		
Keyboard	Ask	
		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	Close
Add 🗸	
Allowed Files/Folders	Blocked Files/Folders
GROUP/PATH/FOLDERS/RUNNING PROCESSES	ACTIONS
C:\Program Files\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.

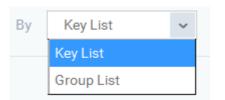
Registry Keys

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.

To view the list of Protected Registry Keys, choose 'Registry Keys' from the 'Show' drop-down in the 'Protected Objects' interface

HIPS Save Delete HIPS Settings HIPS Rules Rulesets Protected Objects Show Registry Keys By Key List Add Registry Key KEYS ACTIONS HKEY_LOCAL_MACHINE\SOFTWARE\OpenOffice\0.1.2	General	File Rating	Firewall	Viruscope	HIPS			
Show Registry Keys Add Registry Key KEYS ACTIONS	HIPS						Save	Delete
Add Registry Key KEYS ACTIONS	HIPS Setting	gs HIPS Ru	iles Rule	sets Prote	ected Objects			
KEYS ACTIONS	Show	Registry Keys		✓ By	Key List	~		
	Add Regis	try Key						
HKEY_LOCAL_MACHINE\SOFTWARE\OpenOffice\OpenOffice\4.1.2	KEYS							ACTIONS
	HKEY_LOC	AL_MACHINE\S0)FTWARE\Ope	nOffice\OpenOffic	ce\4.1.2			e 🖞

The Protected Registry Keys list is displayed under two categories, which can be selected from the drop-down at the right.



- 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.

d Registry Key	
CY LOTAL_MACHINE\SOFTWARE\OpenOffice\OpenOffice	s\4.1.2
The second s	
	Close
	Close
Add Registry Key	Close
Add Registry Key Registry Key HKEY_LOCAL_MACHINE\SOFTWARE\Paint.NE	

- 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

Add Registry Group

Add Registry Group

Automatic Startup

COMODO Keys

Internet Explorer Keys

Important Keys

Temporary Keys

123

Choose the Registry group from the drop-down and click 'OK'.

Note: ITSM ships with a set of predefined Registry groups containing collections of registry keys under respective categories. Administrators can also create custom Registry groups with required key values. All the pre-defined 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. Refer to the section **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

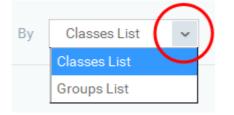
Component Object Model (COM) is Microsoft's object-oriented programming model that defines how objects interact within a single application or between applications - specifying how components work together and inter-operate. COM is used as the basis for Active X and OLE - two favorite targets of hackers 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	
HIPS	Cancel Save
HIPS Settings HIPS Rules Rulesets Protected Objects	
Show COM Interfaces v By Classes List v	
Add COM Class	
COM CLASSES	ACTIONS
Access Control List	✓ [™]

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

id COM Class		
DM CLASSES		
passa (atcal) jat		
Add COM Class Name		Close
Add COM Class Name		Close

- 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

Show COM Interfaces	Ву	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: ITSM ships with a set of predefined COM groups containing collections of COM interfaces under respective categories. Administrators can also create custom COM groups with required COM objects. All the pre-defined 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. Refer to the section **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	✓ ¹

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

dd Folder	
OLDIR	
:\user hackup	
Add Folder	Close
Folder Name	
C:\ProgramData\Comodo	

- 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 the 'Containment' settings of a profile will be 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:

General	Containmen		
Conta	ainment		🔀 Cancel 💾 Save
Settin	s Rules	Baseline	
This op		ainment omputer against unknown malware by auto-containting and blocking the action can not harm your computer.	ns of unknown applications in such a
		tracking up to CCS8.3 ontainment decisions will be taken only on basis of files reputation and their lo	cation.

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

General 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 CCS8.3 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 ITSM 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 'Configuring 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 files/folders	Contained applications can access folders and files on the local system but cannot save any changes to them. However, you can define exceptions to this rule.		

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Containment Settings - Table of Parameters			
	(Default = Disabled)		
	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 Auto-Containment Rules 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	If enabled, CCS will display a green border around programs running in		
programs	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 serve applications Run contained Run unlimited Run unlimited and trust Block 		
	(Default = Disabled)		
Do not show internal Containment services among the contained	If enabled, any processes started by CCC/CCS will not be shown in the 'Active Process List' in CCS.		
applications	You can view contained processes in CCS by clicking:		
	 Tasks' > 'General Tasks' > 'View Active Processes' Right-click anywhere in the interface > select 'Show Contained only' 		

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Containment Settings - Table of Parameters			
(Default = Enabled)			
Do not report to ITSM about internal Containment services	If enabled, no information about contained processes started by CCC/CCS will be sent to ITSM.		
	Click 'Security Sub-Systems' > 'Containment' in ITSM 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 **Auto-Containment Rules** 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/edit 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. ITSM ships with a set of file groups. The administrator can create custom file groups from the 'Settings' > 'System Templates' > 'File Groups Variables' interface. Refer to the portion explaining 'File Groups'.
- To add a file path, choose File Path from the 'Add' Drop-down

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Manage Exclusions	×	
Add - Path File Groups PATH	Exclusion Groups	
Path		×
Path C:\Program Files (x86)\OpenOffice 4\pr	ogram\soffice.exe	
		ОК

- 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.

Manage Exclusion	s		×
Add - Path	Paths	Exclusion Groups	
File Groups	Executables All Applications Windows Updater A Windows System A File Downloaders Windows Managem 3rd Party Protocol D Metro Apps Exclusions for Purch Email Clients File Archivers	pplications ent Drivers	ACTIONS

сомодо

- 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. ITSM ships with a set of registry groups.
 The administrator can create custom registry groups from the 'Settings' > 'System Templates' > Registry
 Variables' interface. Refer to the portion explaining 'Registry Groups'.
- To add a registry key or value, choose 'File Path' from the 'Add' drop-down.

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Manage Exclusions	×	
Add - Registry Entry Magistry 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 Exclusion	IS	×
Add - Registry Entry	stry Keys Excl	usion Registry Groups
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 allowed to run with full privileges, run outside the container, run restricted, or run inside the container.
- For easy identification, CCS will show a green border around programs that are running in the container on an endpoint, if configured in the containment settings.

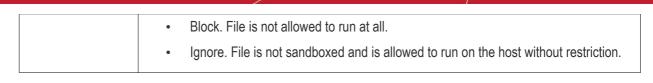
To open the rules interface:

- 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:

General HIPS Containm	ient		
Containment			🙁 Cancel 💾 Save
Settings Rules Base	line		
Add Rule			
TARGET	REPUTATION	BEHAVIOR	
All Applications	Unrecognized	Run restricted	ON 🖉 🖄
All Applications	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 be applied 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. 	



- 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 'Rule' tab

Click the 'Add Rule' button

Add Rule

• The 'Manage Contained Program' dialog will open:

Genera	l Monitoring	Containment					
Con	tainment						
Setti	ngs Rules	Baseline					
	Add Rule						
	TARGET						
	Manage Cor	tained Progra	m				×
	Action						
	Run virtually						~
	The selected co criteria:	ntainment action	will be applied if	file properties	match the f	following	
	Criteria C	ptions					
						🧪 Edit	
	No criteria sele	cted					
					ОК	Cance	1

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	
Run virtually	(~)
Run restricted	
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

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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	
ed	t
No criteria selected	

File Criteria		×
Please select the criteria to be applied		
Type File groups		~
Target		
		~
You can add/edit file groups here		
File Created by Process(es):	Апу	Add 🗸
File Created by User(s):	Any	Add >
File Origin(s):	Any	Add - >
File Rating:	Any	Select - >
File Age:	Any	Select >
		OK Cancel

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

You can set the filter criteria, so that the auto-containment action will be applied only to those items that meet the criteria, from the set of items contained in the target. The available filter criteria are:

- Process(es) that created the file
- User(s) that created the file
- The origin from which the file was downloaded
- The file rating
- The age of the file

To select the source process(es) to auto-contain the files created by them

• Click the 'Add' button in the 'File Created by Process(es)' stripe.

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The rule must contain "*" symbols at the end.	
File Created by Process(es):	Any Add
Add Process	×
Туре	(v
Files File groups	
Folder File hash	
Process hash	

The 'Add Process' dialog will appear.

The options available from the 'Type' drop-down are same as those available under the 'Type' drop-down for specifying the target under the General tab. Refer to the explanations of available **target types** above for more details.

- · 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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	Fi	le Created by User(s):	Any Add	
	A	Caution! The rule with this criteria will Client Security version 10 or higher.	work only on endpoints with Comodo	
A	dd C	Creator		×

Created by	\frown
Users	(~)
Everyone	\smile
Local	
Network	
Anonymous	
Authenticated Users	
Administrators	
Users	
Guests	
Power Users	

- The 'Add Creator' dialog will appear.
- · 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 mode user groups
- To remove the user group added by mistake or no longer needed in the list, click 'X' at the right end of the user name.

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 🔺	~
		Removable	
		Intranet	

- 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 Add	>
File Rating:	Any Select	~
	Trusted	
	Unreco	gnized
	Malicio	JS

- 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	Select 🝷 🗖	>
File Age:				Any	Select)
File Age						×
File creation da	te:					
Caution! The Security vers		is criteria will work gher.	only on end	points with (Comodo Clie	nt
Before	~	03/12/2018	雦	4:22 P	М	0
O File age:						
Less than	~	0		Day(s))	~
				ОК	Cano	cel

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.

Manage Contained Program × Action Run virtually The selected containment action will be applied if file properties match the following criteria: Options Criteria 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

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	concretion motion the following	~
The selected containment action will be applied if file pr criteria:	operates match the following	
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)		
	OKCano	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.
- Choose the options and click 'OK' to save them for the rule. The rule will be added and displayed in the list.

General	Monitoring	Antivirus	Containment			
Contai	inment				Cancel	Save
Settings	s Rules	Baseline				
Ado	d Rule					
_ τ	ARGET		REPUTATION	BEHAVIOR		
□ C	:\Program Files\N	/lischief_Mech*	Unrecognized	Run virtually	ON	e 🖻

- 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. General Monitoring Antivirus **File Rating UI Settings** Containment Save Containment \odot Settings Rules Baseline Enable Baseline This option enables Baseline period for Containment. Information about unknown files would be collected over endpoints and submited for Valkyrie analysis Stop Baseline and enable Auto-Containment after countdown Days Hours 0 1 Stop Baseline and enable Auto-Containment after Valkyrie submit Stop Baseline and enable Auto-Containment after Valkyrie response

Baseline Settings - Table of Parameters				
Form Element	Description			
Enable Baseline	Enables you to choose one of the three options underneath. (<i>Default = Disabled</i>)			
Stop Baseline and Enable Auto- Containment after countdown	Allows you to define a baseline period in days and hours. If you choose this option alone, all unknown files discovered on your network will be sent to Valkyrie but will not be contained during the time period you specify. CCS will resume containment after the time-period expires. You can use this option in conjunction with the two options underneath. The timer begins after you apply the profile. (<i>Default = Disabled</i>)			
Stop Baseline and Enable Auto- Containment after Valkyrie submit	CCS will only contain an individual unknown file after the file has been submitted to Valkyrie. If you do not set a baseline period above, then this setting will always apply. (<i>Default = Disabled</i>)			
Stop Baseline and Enable Auto- Containment after Valkyrie response	CCS will only contain an individual unknown file once Valkyrie has returned a verdict on the file. If you do not set a baseline period above, then this setting will always apply. (<i>Default = Disabled</i>)			

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COMODO Creating Trust Online Click 'Save' to apply your changes.

6.1.3.1.7. VirusScope Settings

•

The 'VirusScope' component of CCS monitors the activities of processes running at the endpoints and generates alerts if they take actions that could potentially threaten privacy and/or security of the end-user. Apart from forming yet another layer of malware detection and prevention, the sub-system represents a valuable addition to the core process-monitoring functionality of the CCS by introducing the ability to reverse potentially undesirable actions of software without necessarily blocking the software entirely. This feature can provide you with more granular control over otherwise legitimate software which requires certain actions to be implemented in order to run correctly.

VirusScope alerts give the end-user, the opportunity to quarantine the process & reverse its changes or to let the process go ahead.

The VirusScope settings screen allows you to configure the behavior of VirusScope component of CCS at the endpoint computer, to which the profile is applied.

To configure VirusScope settings

· Choose 'VirusScope' from the 'Add Profile Section' drop-down

The VirusScope settings screen will be displayed.

eneral Procedures	VirusScope	
VirusScope		Save
Enable VirusScope	pe subsystem which dynamically analyzes t	he behavior of running processes and keeps a record of their activities.
Show popup alerts	utomatically quarantines detected threats an	nd reverses their activities.
Monitor contained a This option applies VirusScop	applications only to contained applications	that are Run Virtually or Run Restricted.

VirusScope Configuration - Table of Parameters						
Form Element	Description					
Enable Viruscope	Allows you to enable or disable Viruscope. If enabled, the Viruscope monitors the activities of all the running processes and generates alerts on suspicious activities					
Show popup alerts	Allows you to configure whether or not to show Viruscope alerts when a suspicious activity is recognized at the endpoint. Choosing to disable 'Show popup alerts' will minimize disturbances but at some loss of user awareness. If you choose not to show alerts then detected threats are automatically quarantined and their activities are reversed.					
Monitor contained applications only	VirusScope can monitor all the processes running at the endpoint. If you want it only to monitor the processes pertaining to auto-contained applications or applications manually added to run inside the sandbox, select this option.					

• Click the 'Save' button.

The VirusScope component will be added to the Windows profile.

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General	Procedures	VirusScope		
VirusS	соре			🔊 Edit 📋 Delete
Enable V Disabled	/irusScope			
Show po Disabled	pup alerts			
Monitor Enabled	contained applicat	tions only		

The saved 'VirusScope' settings screen will be displayed with options to edit the settings or delete the section. Refer to the section 'Editing 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 **Viewing 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 ITSM is limited to the online testing service. The Premium version of ITSM 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

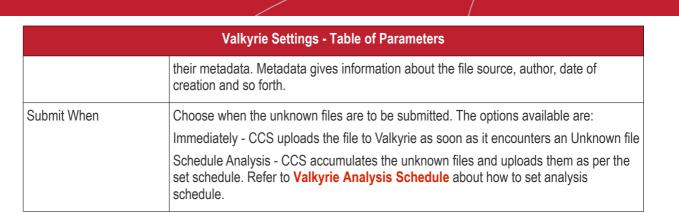
• Click 'Valkyrie' from the 'Add Profile Section' drop-down in the Windows Profile interface

The 'Valkyrie' settings screen will be displayed.

General HIPS Valkyrie Viruscope Valkyrie Save Lookup and submit files with Valkyrie Check manual analysis interval (sec) * 1800 Check auto analysis interval (sec) * 60 Submit for Automatic Analysis More options are available with Valkyrie Premium License Enable auto whitelisting if NO suspicious activities detected by automatic and/or human-expert analysis Do NOT lookup and submit files to Valkyrie if File Lookup Service returns error Submit metadata Submit when Immediately

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)						
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						

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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.

		Analy					
		our Val	kyrie a	nalysi			
Eve	ry Mo	nth				1	
of I	Nonth						
1	2	3	4	5	6	7	8
)	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	
ne							
*		~					
10	:	12	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'.

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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 Comodo Client Communication (CCC) in the endpoints connect to ITSM and Comodo servers. The proxy setting for CCS and CCC is 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

Beneral	HIPS	Viruscope	Global Proxy				
Globa	Proxy					X Cancel	Save
Type *							
Manu	lal			~			
Server *							
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 Comodo Client Communication (CCC) in the endpoints using this profile should connect to ITSM management portal and Comodo servers. If you choose not to set these, then CCS and CCC 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 ITSM 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 ITSM 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 CCC 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					× Ca	incel	🕞 Sa	ve
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.

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General	Valkyrie	Containment	Agent Discovering Settings	
Agent	Discoverin	g Settings		X Cancel Save
	ivirus Log	-		
	ntainment Lo	9		

- 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. CCC and CCS Application UI Settings

- The UI settings screen lets you configure the appearance of Comodo Client Communication (CCC) and Comodo Client Security (CCS).
- You can re-brand CCC 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.
- Comodo Client Communication Rebranding Customize CCC 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.

eneral Procedure	s UI Settings	
UI Settings		😵 Cancel 🖺 Save
General Settings	Comodo Client Communication Rebranding	Comodo Client Security Rebranding
Language English (Unite	d States 🗸	
	ges from Comodo Message Center	
Show notifica	tion messages o widget	
	tion messages when tasks are minimized/sen	nt to background
-	hen an alert is shown space shortcut on the desktop	
	/ client tray icon	
Show securit	/ client desktop shortcut icon	
Show communication	nication client tray icon	
Show file list		
Show vendor	list	

Gener	al 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. (Default = Disabled)
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. (Default = Disabled)
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 endusers. (Default = Disabled)
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 CCC application shortcut icon should be

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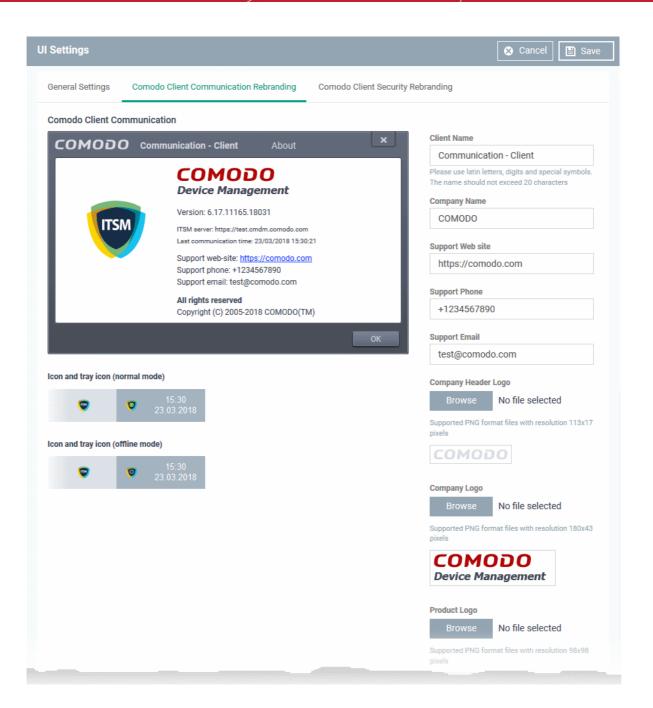
Gene	ral Settings - Table of Parameters
	available in the system tray. (<i>Default = Enabled</i>)
Show file list	CCS can show a list of files on a device along with their trust ratings ('Trusted', 'Unrecognized' or 'Malicious'). This is available in 'Advanced Settings' > 'Security Settings' > 'File Rating' > 'File List'.
	For more details click the link https://help.comodo.com/topic-399-1-790-10397-File-List.html.
	 Select whether or not the file list should be available to end- users.
	(Default = Disabled)
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.

Comodo Client Communication Rebranding

The rebranding tab lets you change the appearance and interface texts of Comodo Client Communication. This is especially useful for customers who wish to white-label the CCC 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.



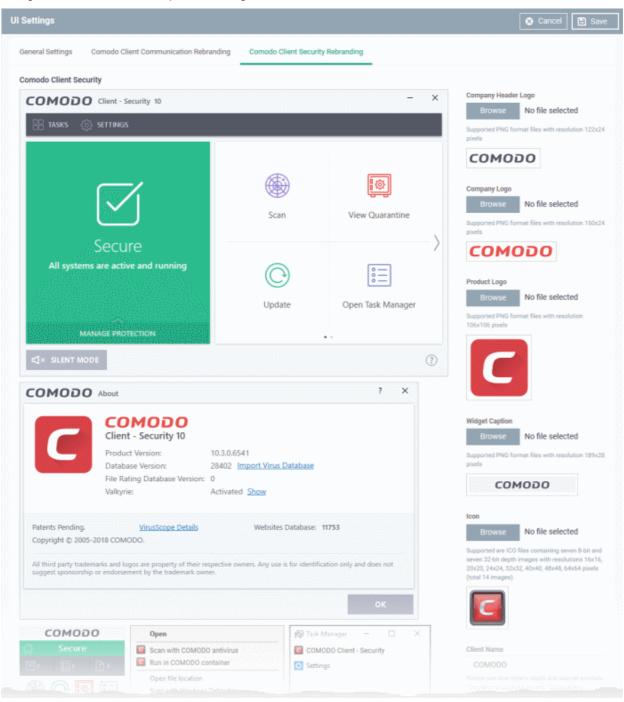
- Start typing in the fields to see your changes reflected in the example image
- Make sure all images you upload are the correct size and file format (.png)

Com	odo Client Communication 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 CCC application.
Support Phone	Your customer support phone number. This number will be shown in the 'About' dialog of the CCC application.
Support Email	Your customer support email address. This address will be shown in the 'About' dialog.of the CCC 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 CCC 'About' dialog. Accepted image size = 180 x 43 pixels Accepted image file format = .png
Product Logo	Logo shown at the left of the CCC '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 agent is connected to ITSM. Accepted image sizes = 16 x 16 pixels Accepted image file format = .png
Tray Icon (offline mode)	Tray icon shown when the agent is not connected to ITSM. 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.



- 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.

Com	odo Client Communication 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

The 'Logging Settings' allows you to specify whether you want to enable logging, the maximum size of the log file and configure behavior once log file reaches the maximum file size.

General HIPS Viruscope Logging Settings	
Logging Settings	Cancel Save
Write to local log database (COMODO Format)	
Enable extended logging for processes creation	
Enable extended logging for changing status of component	s by management agent
Enable extended logging for changing configuration by man	agement agent
Enable extended logging for submitting files to CAMAS or V	alkyrie
* For support cases only. May cause huge disk consumption.	
Write to Syslog server	
Host	
Port	
0	
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 records Move it to 	
 Send anonymous program usage statistics to COMODO 	
When this option is enabled, usage statistics to COMODO about the product will be sent to COMODO anonymously. This information will be used by our engineers to improve the product's quality and is subject to COMODO's privacy policy.	

Loggi	ng Settings C	onfiguration - Table of Parameters
Form Element	Туре	Description
Write to Local Log Database (COMODO Format)	Checkbox	ITSM logs events in Comodo format and the log storage depends on settings done in Log File Management section below.
Enable extended logging for processes creation	Checkbox	Select this option to enable extended logging for processes creation
Enable extended logging for changing status of components by	Checkbox	Select this option to enable extended logging for changing

Loggi	ng Settings Co	nfiguration - Table of Parameters
Management Agent		status of components by Management Agent.
Enable extended logging for changing configuration by Management Agent	Checkbox	Select this option to enable extended logging for changing configuration by Management Agent.
Enable extended logging for submitting files to CAMAS or Valkyrie	Checkbox	Select this option to enable extended logging for submitting files to CAMAS or Valkyrie.
Write to Syslog Server	Checkbox	ITSM log events are written to Syslog Event Logs.
Host *	Text box	Enter the host name or IP address of the Syslog server.
Port *	Text box	Type the port number used to connect to the Syslog server.
Write to Log File (CEF Format)	Checkbox	ITSM log events are written to Log File (CEF Format) Logs.
Path	Text box	Enter the path of the log in the field.
Write to remote server (JSON format)	Checkbox	ITSM log events are written to HTTPS in JSON format on a remote server.
Host *	Text box	Enter the host name or IP address of the remote server.
Port *	Text box	Type the port number used to connect to the remote server.
Token*	Text box	Enter the security token to access the remote server.
Log file size (MB)	Text box	Specify the maximum limit for the log file size (Default = 100 MB).
Action when file log size reaches limit:	Checkbox	Enables you to specify behavior when the log file reaches a certain size.
Keep on updating it removing the oldest records	Radio button	Discard the log file if it reaches the maximum size . Once the log file reaches the specified maximum size, it will be automatically deleted from your system and a new log file will be created with the log of events occurring from that instant
Move it to	Radio button	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 *	Text box	If 'Move it to' is enabled, type a destination path for the log file.
Send anonymous program usage statistics to COMODO	Checkbox	If enabled, ITSM will periodically send program usage and crash data to Comodo for analysis. This data is useful as it helps us quickly identify areas of the program which need to be improved. Disable this option if you do not want to send usage statistics.
		You privacy is guaranteed as all data is anonymized and sent over a secure and encrypted channel. (Default = Disabled)

Fields marked * are mandatory.

- Click the 'Save' button to apply your changes.
- Click 'Delete' or 'Edit' to remove / edit the logging settings section. Refer to the section 'Editing



Configuration Profiles' for more details about editing the parameters

6.1.3.1.14. Client Access Control

Allows you to password-protect access to Comodo Client Security (CCS) and Comodo Client Communication (CCC) 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 ITSM as a
 profile. Refer to Importing Windows Profiles for more details.

ITSM periodically checks endpoints to see if the local CCS settings matches with the endpoint's ITSM profile. By default, ITSM 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 'Client Access Control' from the 'Add Profile Section' drop-down

Client Access Control Cancel Apply password protection settings for Comodo Client - Security Comodo Client - Communication
Comodo Client - Security
Comodo Client - Communication
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 CCC to apply password protection.
 - Comodo Client Security If enabled, CCS can be accessed only after providing password.
 - Comodo Client Communication If enabled, CCC can be accessed only after providing password.
- Require Password If enabled, CCS and CCC can be accessed only after entering password.
 - Computer administrator If selected, CCS and CCC 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 **Importing Windows Profiles** for more details.
- Click 'Save' to apply your changes to the profile.

6.1.3.1.15. External Devices Control Settings

External Device Control Settings allows administrators 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. ITSM 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.
- Click 'Add Profile Section' > 'External Devices Control'

General External Devices Control		
External Devices Control	X 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 disabled or enabled 		
Blocked Device Classes Exclusions		
Use this table to manage the list of device classes (e.g. "USB - Mass storage devices", "O you want to block access	Optical devices")	to which
		^
DEVICE CLASS CLASS ID No results found.		}

The settings screen allows you to configure the general settings and to define lists of blocked device types and exclusions.

- Enable Device Control Allows you to 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 Allows you to 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. Refer to the section Viewing History of External Device Connection Attempts for more details.
- Show notifications when devices disabled or enabled Allows you 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 Allows you to define the list of types of external devices to be blocked at the endpoints
- Exclusions Allows you to 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.

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devices disabled or ena	abled
Blocked Device Classes	Exclusions
Use this table to manage t you want to block access	he list of device classes (e.g. "USB - Mass storage devices", "Optical devices") to which
Add	
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 per page: 20	✓ Displaying 1-3 of 3 results

Blocked Device Classes - Column Descriptions					
Column Header Description					
Device Class	Displays the device type as per global hardware classification				
Class ID Displays 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 will appear with a list of device types.

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 Delete CLASS ID No results found. Add Device Class × 8A63AD27-0CD7-4F43-B8E1-07AE6F236346 USB storage devices 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-BEC7-08002BE2092F 2 Results per page: 20 Displaying 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'

Blocked Device Classes Exclusions Use this table to manage the list of device classes (e.g. "USB - Mass storage devices", "Optical devices"....) you want to block access Delete Add CLASS ID CLASS EEC5AD98-8080-425F-922A-DABF3DE3F69A Portab devices USB storage devices 8A63AD27-0CD7-4F43-B8E1-07AE6F236346 50DD5230-BA8A-11D1-BF5D-0000F805F530 Smart card readers Human interface devices 745A17A0-74D3-11D0-B6FE-00A0C90F57DA 4D36E980-E325-11CE-BFC1-08002BE10318 Floppy disks **Device Class remove** Close Do you really want to remove this class(es)? Confirm

A confirmation dialog will appear.

· 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		
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.

this table to manage the list	of devices to which you want to allow access
d EO Delete	
DEVICE CUSTOM NAME	DEVICE ID
Bobs Pen Drive	0506
	Dion
Add Exclusion	Close
Add Exclusion	
Device Custom Name	
Device Custom Name	

- Enter a name 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 to the endpoint(s).

To remove a device from exclusions

Select the device and click 'Delete'

Block	ed Device Classes	Exclusions				
Use t	his table to manage	the list of devices	to which you war	t to allow access		
💾 Add	Delete					
	DEVICE CUSTOM NA	ME			DEVICE ID	
Θ	Bobs Pen Drive				0506	
Result	s per page: 20	•				Displaying 1-1 of a
	Exclusion r	emove				Close
	Do you really want	to remove this De	evice id(s)?			
				Confir	m C	Cancel

A confirmation dialog will appear.

- 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. Refer to the section 'Editing Configuration Profiles' for more details about editing the parameters.

6.1.3.1.16. Monitoring Settings

- Monitoring settings allow you to define performance and availability conditions for various events and services.
- An alert will be triggered if the conditions are breached. You can also configure automatic procedures to run if an alert is generated.

ITSM allows you to monitor services, processes, events, disk space, RAM usage and more. You can also create custom monitoring scripts.

Note

- ITSM communicates with Comodo servers and agents on devices in order to monitor events, deploy
 profiles, provide updates and more.
- You need to configure your firewall accordingly to allow these connections. See Appendix 1 for details of the IPs, host-names and ports used by ITSM.

To configure monitoring settings

Choose 'Monitoring' from the 'Add Profile Section' drop-down

The 'Monitoring' screen will be displayed.

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K	X Cancel 🕞 Save
General Conditions	
Monitoring name *	
Description	
Trigger an alert if	
All of the conditions are met	
All of the conditions are met	
Use Alert Settings	
Use Alert Settings Default Alert	
Default Alert Auto Remediation on alert	
Use Alert Settings Default Alert Auto Remediation on alert O Take no action © Run below procedure	

General Tab

- Monitoring Name Provide a name for the monitoring setting
- Description Enter appropriate comments for the monitoring setting
- Trigger an alert if Allows you to select when the alert should be sent. The options are to send alert when all conditions are met and any of the conditions are met.
- Use Alert Settings Allows you to select the alert that should be generated. The alert types that are listed here are predefined in the 'Alerts' section. Refer to the section 'Managing 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.

Conditions Tab

The conditions tab allows you to define thresholds for various monitoring parameters that when breached will trigger alerts per the setting.

Click 'Add Condition'

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General Monitoring Cont	ainment Antivirus	Firewall					
				Cancel 🕒 Save			
General Conditions							
Add Condition	Add Condition						
Performance							
File size	TARGET		CONDITIONS				
Folder size							
Disk							
Service							
Process							
Event							
ТСР							
Ping							
Web page							
Device status							
Custom script							
Security Events							
Security Client Events							

Monitoring Conditions					
Name of the Condition	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.				
ТСР	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 ITSM server every minute and monitoring period is set as 3 minutes. If ITSM 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 Adding 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.

Add Monitoring Conditions

You can add as many monitoring parameters as required for the profile. The conditions depend on the type of monitor selected. For example, if you select 'Disk' monitor, you have the option to specify conditions for three parameters. See example image below.

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Add Condition for Disk					Close
 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 on the s	seleo	ted drive(s) and trigg	gers an alert if	the specified cond	litions are met.
					Create

• Click 'Create' after specifying the conditions.

The monitoring parameters added for the profile will be listed.

Add Custom Monitoring Conditions

- ITSM 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 Co	ondition for «Custom script»
Name *	
Descriptio	on
	\$\$.
Check Pe	riod
5	min 🗸
Note:	
	lease write your code on below box to create your own custom script condition.
	lease use "alert(1)" to turn on the condition (trigger an alert) and alert(0) to turn off the condition (disable an alert) lease define the custom alert text inside the code with "Print" function*
• PI	lease define the custom alert text inside the code with Print Tunction*
\diamond	Add Existing Procedure 🔨 Undo 🌈 Redo
1 # 1	The script is a template to check UAC status on device.
	port os
	port sys
	port winreq
5	
6 de	f alert(arg):
7	sys.stderr.write("%d%d%d" % (arg, arg, arg))
8	
-	Please use "alert(1)" to turn on the monitor(trigger an alert)
	Please use "alert(0)" to turn off the monitor(disable an alert)
	Please do not change above block and write your script below
12 # 1	Frease do not change above brock and write your script berow
	f checkUAC():
13 de:	
14	<pre>if 'PROGRAMW6432' in os.environ.keys():</pre>
T2 🖌	
	Create

	Add Condition for Custom Script - Table of Parameters						
Form Element	Description						
Name	Enter a name 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						

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Add Condition for Custom Script - Table of Parameters
<pre>import sys import _winreg def alert(arg): sys.stderr.write("%d%d%d" % (arg, arg, arg)) # Please use "alert(1)" to turn on the monitor(trigger an alert) # 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 argument to alert parameter to 0, i.e. 'alert(0)'.
Note 3 : You can import an existing script procedure in ITSM 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, refer to the section Managing 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' > 'Procedures' > '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 'Monitoring' tab.

• Repeat the process for adding more monitoring conditions.

Genera	I Procedures Monitoring		
Stores	s Monitoring		Cancel Save
Genera	l Conditions		
Ad	d Condition		
	ТҮРЕ	TARGET	CONDITIONS
	Free Space Left on System Drive		Less than 10MB
	Free Space Left on System Drive Free Space Left on Total Disk		Less than 10MB Less than 10%
_			

- To remove a monitoring condition, select the check box beside it and click 'Remove Condition' at the top.
- Click 'Save' to apply your changes.
- Repeat the process to add more monitors. The added monitors will be listed under the 'Monitoring' tab in the profile.

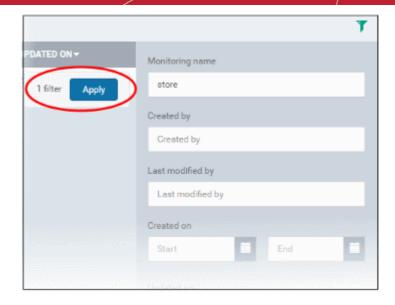
Genera	al Monitoring	Containment Antivirus	Firewall		
🗒 Ad	dd Monitor 🔠 Dele	te Monitor			Ŧ
	MONITOR NAME	CREATED BY	CREATED ON	LAST MODIFIED BY	UPDATED ON
	Security Client Events	kamal@yopmail.com	2018/05/24 12:43:16 PM	kamal@yopmail.com	2018/05/24 12:43:49 PM
	Security Events	kamal@yopmail.com	2018/05/24 12:42:34 PM	kamal@yopmail.com	2018/05/24 12:48:24 PM

Sorting, Search and Filter Options

- Clicking on the column header sorts the items based on alphabetical or ascending/descending order of entries in the respective column.
- Clicking the funnel button Υ at the right end opens the filter options.

			T
Monitoring name		Ľ	
Monitoring name			
Created by			
Created by			
Last modified by			
Last modified by			
Created on			
Start	End		
Updated on			
Start	End		

• To filter the items or search for a specific monitor, enter the search criteria in part or full in the 'Monitoring name', 'Created by' and / or 'Last modified by' fields and click 'Apply'



• To filter the monitors by 'Created on' and / or 'Updated on' dates, enter or select from the calendar the start and end dates of the period in the respective 'Start' and 'End' fields and click 'Apply'.

You can use any combination of filters at-a-time to search for specific monitors.

- To display all the items again, remove the search key from filter(s) and click 'Apply'.
- By default ITSM 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 remove a monitor from the profile, select it and click 'Delete Monitoring' at the top.

Gener	al Monitoring	Containment Antiviru	us Firewall		
l≣‡ A	dd Monitor	te Monitor			Ŧ
	MONTOR NAME	CREATED BY	CREATED ON	LAST MODIFIED BY	UPDATED ON
Ø	Security Client Events	kamal@yopmail.com	2018/05/24 12:43:16 PM	kamal@yopmail.com	2018/05/24 12:43:49 PM
	Security Events	kamal@yopmail.com	2018/05/24 12:42:34 PM	kamal@yopmail.com	2018/05/24 12:48:24 PM

A confirmation message will be displayed.

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- Click 'Confirm' to remove the selected monitor.
- To edit a monitor, click the name and then the 'Edit' button on the right.

Gene	ral Monitoring (Containment Antivirus	Firewall		
與≠	Add Monitor	te Monitor			T
	MONITOR NAME	CREATED BY	CREATED ON	LAST MODIFIED BY	UPDATED ON
	Security Client Events	kamal@yopmail.com	2018/05/24 12:43:16 PM	kamal@yopmail.com	2018/05/24 12:43:49 PM
	Security Events	kamal@yopmail.com	2018/05/24 12:42:34 PM	kamal@yopmail.com	2018/05/24 12:48:24 PM
Results p	per page: 20 🗸				Displaying 1-2 of 2 results
Sec	urity Client Events			7	Edit 📋 Delete
Gene	ral Conditions				
1.	lor name Ity Client Events				
(Reference)	iption				
	er an alert if the conditions are met				
	lert settings It Alert				
1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	remediation on alert no action				

The editing procedure is similar to adding a new monitor as explained above. Click 'Save' after editing the name, description, alert and / or the monitoring conditions.

6.1.3.1.17. CCM Certificate Settings

The Certificates Settings section of a profile allows you to add requests for client and device authentication certificates to be issued by Comodo Certificate Manager (CCM). Once the profile is applied to a device, a certificate request is automatically generated and forwarded to CCM. After issuance, the certificate will be sent to ITSM 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 CCM account should have been integrated to your ITSM server in order for ITSM to forward requests to CCM. For more details, refer to the section **Integrating with Comodo Certificate Manager**.

To configure CCM Certificate settings

· Choose 'Certificates' from the 'Add Profile Section' drop-down

The settings screen for adding certificate requests to the profile will be displayed.

Purchase Dept Windows Machines							
Ð	Ē.	d'il	Ëò	ŝ			
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Make Default			
	General Certificates						
Add Certific	Add Certificate						
NAME COUNTRY NAME TYPE STATE OR PROVINCE NAME LOCALITY NAME (EG, CITY) ORGANIZATION NAME ORGANIZATIONAL UNIT							
01		CC (-) - (data a sufficia	ata raquaat ta tha pro	C1 -	

· Click 'Add Certificate' at the top to add a certificate request to the profile

The 'Add Certificate' form will appear.

Add Certificate	Close
Name *	
Туре	
S/MIME Certificate	~
Identifier * %u.username%	+Variables
Country Name *	
Afghanistan	~
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	Enter a name for the certificate to be requested, shortly describing its purpose.			
Туре	Drop-down	 Select the type of certificate to be added. The available options are: S/MIME Certificate (Client Certificate) Device Certificate 			

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	Add Certificate - Table of Parameters					
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 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, refer to the section Configuring Custom Variables .				
Country Name	Text Field	Enter the address details of the user/organization in appropriate fields.				
State or Province Name						
Locality Name (eg. City)						
Organization Name	Text Field	Enter the name of the organization to which the user/device pertains.				
		Prerequisite : The organization should have been added to your CCM account.				
Organizational Unit	Text Field	Enter the name of the department to which the user/device pertains.				
		Prerequisite : The department should have been defined under the organization in your CCM 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

- ITSM allows you to run scripts and patches as procedures to run 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'

The 'Add' button allows you to add and schedule a procedure which has been created in Click 'Save' to apply your changes. the 'Procedures' area. Procedures Genera 😣 Cance Pro dures Add Move Up Move Down Remove LAST PROCEDURE ORDER DESCRIPTION TYPE SCHEDULE MODIFIED UPDATED AT NAME BY Maintains the latest patches to be updated Patch maintenance Patch Never 2016/11/07 01:52:26 PM on the Windows Endpoint Script monitor, To Script for Monitor Users Access monitoring the user Access report Report (It will 2 Script Never Not modified (logon/logoff implement a report of /logonfailure) all accesses (Logon, [Script] Logoff, Failed Logon) Procedures will be executed in numerical order. Select a procedure then use 'Move Up' or 'Move Down' controls to prioritize.

- 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 × 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 12 51 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 ITSM.				
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 ITSM at the time of execution.					
	By default, procedures are queued for later deployment if the device is not connected to ITSM. 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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eneral P	Procedures Antiviru	IS				
Procedur	es					Edit
🕀 Add	🔗 Move Up 🛛 📀 N	Nove Down 🛞 Remove				
ORDER	PROCEDURE NAME	DESCRIPTION	ТҮРЕ	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:

	Procedures	Antivirus	Remote Control	
Remo	ote Control		😒 Cancel	Save
Remot	te Control Option	າຣ		
-	ent remote conti mote control en		t asking permission	
lf u in g	-	ask for pern	30 seconds A <i>ission and connect if user allows or does not respond</i> <i>remote control</i>	
lf u tim	Iser is logged in	ask for pern	60 seconds A hission and connect only if user approves in given remote control	
	not allow remote this option to a		sable remote control	
Remot	e Control Mess	age		
	r IT administrato w" to start remo		o view and control your desktop. Please click	
"Allo Client	w" to start remo Notification Opt	ite session. ions o device user	about who connected to his/her workstation and	
"Allo Client I Sho allo	w" to start remo Notification Opt ow notification t ow terminating t	ite session. ions o device user he connectio	about who connected to his/her workstation and	
"Allo Client I Sho allo	w" to start remo Notification Opt ow notification t ow terminating t	ite session. ions o device user he connectio	about who connected to his/her workstation and	
"Allo Client I I Sho allo Protoc Ports t	w" to start remo Notification Opt ow notification t ow terminating t Allow endpoint col Options that will be appli	ions o device user he connectio user to termi	about who connected to his/her workstation and	
"Allo Client I Sho allo Protoc Ports t configu	w" to start remo Notification Opt ow notification t ow terminating t Allow endpoint col Options that will be appli	ions o device user he connectio user to termi	about who connected to his/her workstation and n nate the connection <i>orts only, please make sure your firewall</i> <i>the UDP settings</i>	
"Allo Client I Sho allo Protoc Ports t configu	Notification Opt ow notification to ow terminating to Allow endpoint col Options that will be appli- durations are con	ions o device user he connectio user to termi <i>ied are UDP p</i> <i>npatible with</i>	about who connected to his/her workstation and n nate the connection <i>orts only, please make sure your firewall</i> <i>the UDP settings</i>	
"Allo Client I III Sho allo IIII Protoc Ports t configu III Use	Notification Opt ow notification to ow terminating to Allow endpoint col Options that will be appli- urations are cont e WebRTC	ite session. ions o device user he connectio user to termi ied are UDP p mpatible with from CCC 6	about who connected to his/her workstation and n nate the connection <i>orts only, please make sure your firewall</i> <i>the UDP settings</i>	
"Allo Client I Sho allo Protoc Ports t configu Use	W" to start remo Notification Opt ow notification to ow terminating to Allow endpoint col Options that will be appli- wrations are con- e WebRTC A Set at least 1 po	te session.	about who connected to his/her workstation and n nate the connection orts only, please make sure your firewall the UDP settings	
"Allo Client I Sho allo Protoc Ports t configu Use	w" to start remo Notification Opt ow notification to ow terminating to Allow endpoint col Options that will be appli- wrations are con e WebRTC A Set at least 1 po Port(s) Defau WinXP : 1025 - 5	te session.	about who connected to his/her workstation and n nate the connection <i>orts only, please make sure your firewall</i> <i>the UDP settings</i>	
"Allo Client I Sho allo Protoc Ports t configu Use	Notification Opt ow notification Opt ow notification t ow terminating t Allow endpoint col Options that will be appli- urations are con e WebRTC A Set at least 1 po Port(s) Defau WinXP : 1025 - 5 Win7+ : 49152 -	ions o device user he connectio user to termi ied are UDP p mpatible with from CCC 6 ort alt v 65535 range from CCC 6	about who connected to his/her workstation and n nate the connection <i>orts only, please make sure your firewall</i> <i>the UDP settings</i>	
"Allo Client I Sho allo Protoc Ports t configu Use	Notification Opt ow notification Opt ow notification t ow terminating t Allow endpoint col Options that will be appli- urations are con e WebRTC A Set at least 1 po Port(s) Defau WinXP : 1025 - 5 Win7+ : 49152 - e Chromoting	ite session. ions o device user he connectio user to termi ied are UDP p npatible with from CCC 6 ort ilt v 5000 range by 65535 range from CCC 6 orts	about who connected to his/her workstation and n nate the connection <i>orts only, please make sure your firewall</i> <i>the UDP settings</i>	

Remote Control Options:

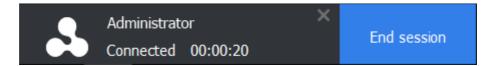
- Silent remote control The remote connection will be established without showing a request to the user.
- Ask permission then allow after NN seconds A message will be shown to the user which requests them to
 accept the connection. The connection will be established if the user does not respond within 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 CRC 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 CRC will use 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, CRC will use Chromoting to connecting to devices Windows 7 and later and use WebRTC for Windows XP devices.
- If not selected, CRC 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.

6.1.3.2. Import Windows Profiles

In addition to creating a new Windows profile from the ITSM 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 ITSM 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 configuration from an exported profile**, refer to the section **Exporting and Importing Configuration Profiles**.
- For more details on creating a new profile by Cloning a profile, refer to the section Cloning a Profile.

Importing 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 Comodo Client Communication (CCC). Refer to the section **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 ITSM interface
- Manually export the CCS configuration from the selected device

Export Configuration from ITSM interface

- Open the 'Device List' interface from the ITSM 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:

IT & Security Manager			DESKTOP	<u>2-HIP81N3</u> / Sum	mary License	• Options	•	上ogout (co	yoteewile@yah	ioo.com)
DASHBOARD	>									
DEVICES	~	DESKTOP- Owner: Dyanora		3			\frown			
Device List		pints.			C	-	E			
Bulk Installation Package		*	*	•	S	≌ (ē	More	
S USERS	>	Manage Profiles	Takeover	Install MSI/Packages	Refresh Information	Reboot	Export Securit Configuration			
	>						\smile			
APPLICATION STORE	>	Device Name	Summa	ary Hardware	Networks	Associated F	Profiles	Software Inventory	File List	Expo 🕨
APPLICATIONS	>	Device S	ummary			OS S	ummary			
SECURITY SUB-SYSTEMS	>	Custom de		DESKTOP-HIP811	12	05		Windows		
CERTIFICATES	>	name	WICE	DEGRI UP-HIP6 II	10	OS na	ame		indows 10 Pro (x	:64)
· SETTINGS		Name		DESKTOP-HIP811	13	OS ve	ersion	10.0.14393		
jų serings		Logged us	er			Servi	ce pack	N/A		

- The CCS configuration will be exported as a .xml file and saved in ITSM.
- You can view all configuration files exported from this device under the 'Exported Configurations' tab in 'Device Details':

Manage Profiles	 Takeover	install MSI/Packages	C Refresh Information	Reboot	Export Security Configuration	Delete Device	Change Owner	Change BYO	D
Device Nar		mary Hardwa	re Networks	Asso	ciated Profiles	File List	Exported Config	gurations	N
File NA	ME				CREATED -				
Generati	ing Security Co	onfiguration			2016/08/01 11:03	3:59 AM			
<u> </u>	onfig 2016_07_	12_10_51_33.xml	>		2016/07/12 10:51	1:33 AM			
George		tion			2016/07/01 07:10	0:29 AM	annanna		

- 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 ITSM 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)

- Open the 'Profiles' screen in ITSM by clicking 'Configuration Templates' > 'Profiles' from the left hand navigation
- · Click 'Import' from the top of the list and choose 'Import from 'Comodo Client Security Config file'

IT & Security Manager	■ Profiles	License Options
DASHBOARD >		
DEVICES >	Profiles De	fault Profiles
<u>S</u> USERS >	Щ Ц	
CONFIGURATION TEMPLATES	Create Imp	port Export Profile Clone Profile Delete Profile
Profiles		port from Comodo Client - Security Config File
Alerts		port from Exported Profile
Procedures ()		For Joe Mac Machine coyoteewile@yahoo.com
Import Windows Prof Name * Name Comodo Client - Security config Browse Description Description		

The 'Import Windows Profile' dialog will appear.

- 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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mport Wind	dows Profile	Close
Name *		
from bobs c	omputer	
Comodo ONE	Client - Security configuration file *	
Browse	cocs_config_2016_07_12_10_51_33.xml	
Description		
Description		
		Import

The selected file will be displayed beside the 'Browse' button.

• 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	uter							
Add Profile Section	Export Profile	Clone Profile	Delete Profile	🖳 Make Defaul	t				
General Ar	ntivirus Fi	le Rating	Firewall	HIPS Co	ontainment	VirusScope	Valkyrie	UI Settings	Þ
General Name * from bobs cou Is default Disabled Description	Settings mputer							Edit	

• The imported profile will not be set as 'Default Profile' by default.

To change the name of the profile and/or to enable it as a default profile, click on the 'Edit' button
 Edit

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, refer to the explanation of the component settings in the previous section Creating Windows Profiles.

6.1.4. Profiles for Mac OS Devices

Mac OS profiles allow you to specify the general settings and configuration of Comodo Antivirus for Mac (CAVM) installed on managed Mac OS devices.

Security profiles for Mac OS endpoints can be added to ITSM in two ways:

- Create a CAVM profile using the ITSM interface. See Creating Mac OS Profiles for more details.
- Clone an existing profile and modify its settings as per your requirements. See **Cloning a Profile**, for more details on creating a new profile by Cloning a profile.

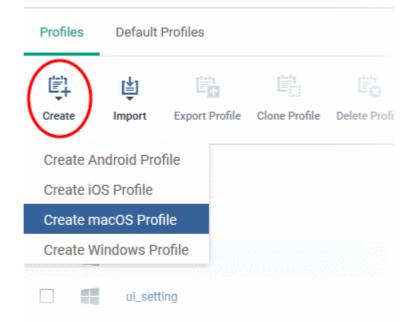
6.1.4.1. Create a Mac OS Profile

Process in brief:

- Click 'Configuration Templates' on the left then choose 'Profiles'
- Click 'Create' then select 'Create Mac OS Profile'
- Specify a name and description for your profile then click the 'Create' button. This profile will now appear in the 'Profiles' screen.
- New profiles have only one section 'General'. You can configure settings for Comodo Antivirus and other items by clicking the 'Add Profile Section' button.
- Once you have fully configured your profile you can apply it to devices and device 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 a new profile

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



The 'Create Mac OS Profile' dialog will appear.

Create macOS Profile	×
Name *	
Name	
Description	
Description	
	Create

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

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

Mac (OS Profile fo	r Stores De	pt			
Add Profile Section	Export Profile	Clone Profile	Delete Profile	Default		
eneral	Settings			_	_	₩ Ed
Name * Mac OS Pi	rofile for Stores De).			
is Default Disabled						
	r Mac devices in s	itores its or purpose of th	e profile			

- 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.

🚷 Mac C	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	of the profile (sho	wn on the device

The settings screen for the selected component will be displayed and after saving the settings, it will be available as tabs at the top.

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CAVM
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
- CCM Certificates
- Restrictions
- VPN
- Wi-Fi
- Remote control

6.1.4.1.1. Antivirus Settings for Mac OS Profile

The antivirus settings screen has sub-sections that allow you to configure real-time scans custom scans, exclusions and more for the profile.

To configure Antivirus settings for Mac OS profile

- Click 'Configuration Templates' > 'Profiles'
- · 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:

😣 Cancel	🕒 Save
tal Control Logging	
ogram updates	
gram updates	

It contains two tabs:

- Preferences Allows you to configure general behavior, updates, parental control and log settings for CAVM.
- Antivirus Allows you to configure AV scan parameters, scan profiles ans schedule AV scans.

Configuring Preferences for CAVM

The 'Preferences' tab allows you to configure the general behavior of CAVM, the server from which updates should be downloaded, parental controls and log storage settings.

You can configure for the following from the The 'Preferences' interface:

- General
- Update
- Parental Control
- Logging

To configure general behavior settings

- · Click the 'Preferences' tab under 'Antivirus' and choose 'General'
 - Automatically check for program updates Choose whether or not CAVM should automatically contact Comodo servers for updates. With this option selected, CAVM automatically checks for updates every 24 hours AND every time the users start their computers. If updates are found, they are automatically downloaded and installed. (*Default = Enabled*).
 - Show balloon messages If enabled, notifications from CAVM will appear in the bottom right
 hand corner of the computer screen just above the tray icons. Usually these messages are
 generated when these modules are learning the activity of previously unknown components of
 trusted applications. (*Default = Disabled*).

To configure update settings

Tip: The Update tab allows you enable/disable CAV program updates and to select the host from which updates should be downloaded. By default, updates are downloaded from http://download.comodo.com

Choose the 'Update' tab under 'Preferences'

CAVM Cancel Save Preferences Antivirus General Update Parental Control Logging + Add Host STATUS URL Enabled http://download.comodo.com/	General	Antivirus		
General Update Parental Control Logging + Add Host STATUS URL	CAVM			Cancel Save
+ Add Host	Preference	es Antivi	rus	
	General	Update	Parental Control Logging	
	+ Add	Host		
Enabled http://download.comodo.com/		STATUS	URL	
		Enabled	http://download.comodo.com/	ø

Leave this setting enabled if you want the devices to download the updates from Comodo servers ٠

You can add the URL of an alternative download host if required. For example, if CAV updates are available on a server on the local network to which the device is connected.

To add a host in	the local network, clic	k 'Add Host'		
CAVM				😣 Cance
Preferences Antivir	rus			
General Update	Parental Control	Logging		
+ Add Host)			
	URL			
	t			>
URL *				
Enable				
				Ok
The 'Add Heet' dialog will				

The 'Add Host' dialog will appear.

Enter the URL or IP of the host from which updates should be downloaded in the 'URL' field •

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- 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

To configure Parental Control settings

Click the 'Parental Control' tab under 'Preferences'

CAVM Preferenc	es Antiv	irue		Canc	el Save
Freierenc	es Anuv	iius			
General	Update	Parental Control	Logging		
Fnab	le password	protection for the se	ttings		
Password					

- **Enable password protection for the settings** Activates password protection for all important CAVM settings against unauthorized changes by the user. If the user attempts to change a setting using the CAVM interface at the endpoint, he/she will be prompted to enter the password. If selected, enter the password in the 'Password' field.
- Suppress Antivirus alerts if password protection is enabled If selected, any threat detected at the device will be automatically blocked but no alerts will be displayed.

For example, a virus may be attempting to copy itself to a user's computer. Usually, the antivirus would generate an alert and ask the user how to proceed. If the user is inexperienced then they may click 'allow' just to get rid of the alert, thus exposing the machine to risk.

To configure 'Log' settings

Click the 'Logging' tab under 'Preferences'

By default, CAVM maintains a log of all antivirus (AV) events locally in the device. Users can view the logs by clicking 'View Antivirus Events' from the Antivirus Tasks interface of the CAVM interface.

 If you want the CAVM installation to not to maintain the logs locally, de-select 'Write to local log database (COMODO format)'.

Configuring Antivirus Settings

The 'Antivirus' tab under the 'Antivirus' section allows you to configure the general settings for the AV scanner, scan profiles and create schedules to periodically run AV scans on selected areas of the device.

The 'Antivirus' interface contains three sub-tabs:

- Scanner Settings
- Scan Profiles
- Scheduled Scans

To configure Scanner Settings click the 'Scanner Settings' tab under Antivirus

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CAVM	Cancel Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
Real Time Scanning Manual Scanning Scheduled S	Scanning Exclusions
Real time scanning	
On access	~
Maximum file size *	
20	
Maximum alert duration *	
120	

You can configure the following from the Scanner Settings interface:

- Realtime Scanning
- Manual Scanning
- Scheduled Scanning
- Exclusions
- To configure Realtime Scanning Settings, click the 'Realtime Scanning' tab.

General Antivirus	
CAVM	Cancel Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
Real Time Scanning Manual Scanning Scheduled Scanning	Exclusions
Real time scanning	
On access	~
Maximum file size *	
20	
Maximum alert duration *	
120	
Auto quarantine	
Update database	^

Real Time Scanning Settings - Table of Parameters			
Form Element Type		Description	
Real time scanning	Drop-down	Allows you to enable or disable realtime scanning. The available options are:	
		 On Access - Provides the highest level of On Access Scanning and protection. Any file opened at the device is scanned before it is run and the threats are detected before they get a chance to be executed. 	
		 Disabled - The Real time scanning is disabled. Antivirus does not perform any scanning and the threats cannot be detected before they impart any harm to the system. 	
Maximum file size	Text box	Allows you to set a maximum size (in MB) for the individual files to be scanned during on-access scanning. Files larger than the size specified here, will not be scanned (<i>Default = 20MB</i>).	
Maximum alert duration	Text box	Allows you to set the time period (in seconds) for which the alert message should be displayed to the user. (<i>Default = 120 seconds</i>)	

Real Time Scanning Settings - Table of Parameters		
Auto quarantine	Checkbox	When enabled, all detected threats will be moved to quarantine at the device for your later analysis. (<i>Default = Disabled</i>)
Update database	Checkbox	When enabled, Comodo Antivirus will check for and download the latest virus database updates on system start-up and subsequently at regular intervals. (<i>Default = Enabled</i>).

• To configure Manual Scanning Settings, click the 'Manual Scanning' tab.

Tip: The Manual Scanning Settings interface allows you to set the parameters that will be implemented when you run an 'On Demand' scan on selected devices from the Protection > Device List interface. For more details on running on-demand scans on selected devices, refer to the section Running On-Demand Antivirus Scans on Devices.

General Antivirus	
CAVM	Cancel Save
Preferences Antivirus	
Scanner Settings Scan Profiles Sch	heduled Scans
Real Time Scanning Manual Scanning	Scheduled Scanning Exclusions
Maximum file size *	
Scan memory	
Scan archives	
Auto quarantine	
Update database	

Manual Scanning Settings - Table of Parameters			
Form Element Type		Description	
Maximum file size	Text box	Allows you to set a maximum size (in MB) for the individual files to be scanned during on-demand scanning. Files larger than the size specified here, will not be scanned (<i>Default</i> =20MB).	
Scan memory	Checkbox	When this check box is selected, CAVM scans the system memory at the start of each manual scan (<i>Default</i> = <i>Disabled</i>).	
Scan archives	Checkbox	When this check box is selected, CAVM scans archive files such as .ZIP and .RAR files. These include RAR, WinRAR,	

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Manual Scanning Settings - Table of Parameters			
		ZIP, WinZIP ARJ, WinARJ and CAB archives (<i>Default</i> = <i>Enabled</i>).	
Auto quarantine	Checkbox	When enabled, all detected threats will be moved to quarantine at the device for your later analysis. (<i>Default = Enabled</i>)	
Update database	Checkbox	Instructs CAVM to check for latest virus database updates and download the updates automatically before starting each on- demand scan (<i>Default</i> = <i>Enabled</i>).	

• To configure Scheduled Scanning Settings, click the 'Scheduled Scanning' tab under 'Scanner Settings'

Tip: The 'Scheduled Scanning' Settings interface allows you to set the parameters that will be implemented when CAVM runs AV scans as per schedules set under the 'Scheduled Scans' tab. For more details on creating periodical scan schedules, refer to the explanation under '**To create Scheduled Scans**'.

General Antivirus
CAVM Cancel Save
Preferences Antivirus
Scanner Settings Scan Profiles Scheduled Scans
Real Time Scanning Manual Scanning Scheduled Scanning Exclusions
Maximum file size *
20
Scan memory
Scan archives
Auto quarantine
Update database
Show progress

Scheduled Scanning Settings - Table of Parameters		
Form Element	Туре	Description
Maximum file size		Allows you to set a maximum size (in MB) for the individual files to be scanned during scheduled scanning. Files larger than the size specified here, will not be scanned (<i>Default</i>)

Scheduled Scanning Settings - Table of Parameters		
		=20MB).
Scan memory	Checkbox	When this check box is selected, CAVM scans the system memory at the start of each scheduled scan (<i>Default</i> = <i>Disabled</i>).
Scan archives	Checkbox	When this check box is selected, CAVM scans archive files such as .ZIP and .RAR files. These include RAR, WinRAR, ZIP, WinZIP ARJ, WinARJ and CAB archives (<i>Default</i> = <i>Enabled</i>).
Auto quarantine	Checkbox	When enabled, all detected threats will be moved to quarantine at the device for your later analysis. (<i>Default = Enabled</i>)
Update database	Checkbox	Instructs CAVM to check for latest virus database updates and download the updates automatically before starting each on- demand scan (<i>Default = Enabled</i>).
Show Progress	Checkbox	When enabled, a progress bar is displayed whenever a scheduled scan is run at the device. (<i>Default = Enabled</i>)

· To add items to be excluded from scanning, click 'Exclusions' under 'Scanner Settings'

Tip: The 'Exclusions' Settings interface allows you to specify the items that should be excluded by the AV scanner. These files will be skipped during realtime, on-demand and scheduled scans.

General Antivirus	
CAVM	Cancel Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
Real Time Scanning Manual Scanning Scheduled Scanning	ng Exclusions
+ Add Exclusion	
🔲 РАТН	
/Library/Application Support/Comodo/AntiVirus/*	

A list of excluded items will be displayed.

Click 'Add Exclusion'

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Scan Profiles Scheduled Scans Scanner Settings Scheduled Scanning Exclusions Real Time Scanning Manual Scanning PATH Library/Application Support/Comodo/AntiVirus/* IA plications/Comodo Close Add Exclusion Path * /volumes/Macintosh HD/Applications/Firefox.app 0k

- 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 S beside it

To create Scan Profiles click the 'Scan Profiles' tab under 'Antivirus'

Tip: Creating a Scan Profile allows you to instruct CAVM to scan selected areas, folders or selected drives of the device to which the profile is applied. You can select the scan profiles while creating scan scheduled scans and while running on-demand scans on the device applied with the profile.

General Antivirus	
CAVM	Cancel Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
+ Add Scan Profile	
Full Scan	
Quick Scan	

The list of pre-defined scan profiles will be displayed.

Click 'Add Scan Profile'

anner Settings	Scan Profiles	Scheduled Scans	
Add Scan Profile			
Full Scan			
-	Drofile		Close
Add Scar	n Profile		Close
-	n Profile		Close
Add Scar			Close
Add Scar			Close
Add Scar	Profile		Close

The 'Add Scan Profile' dialog will appear.

• Enter a name for the scan profile

Click 'Add Path' to add the locations to be scanned as per the custom profile
 Add Path
 Path *
 /volume/Macintosh HD/Applications
 Ok

The 'Add Path' dialog will appear.

• 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.

Add Sc	an Profile	Close
Name *		
My Custo	m Profile	
+ Add Pa	ath	
	РАТН	
	/volume/Macintosh HD/Applications	8
		Ok

- To add more paths, click 'Add Path' and repeat the process
- To edit the path, click the pencil icon S beside it
- Click 'Ok' in the 'Add Scan Profile' dialog.
- The profile will be added to the list of 'Scan Profiles'.

General	Antivirus
CAVM	Cancel Save
Preferer	nces Antivirus
Scanner	r Settings Scan Profiles Scheduled Scans
+ Ad	ld Scan Profile 🗢 Remove Scan Profile
+ Ad	Id Scan Profile Remove Scan Profile NAME
	NAME

The custom profile will be added to the list.

- · To add more custom scan profiles, click 'Add Scan Profile' 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 Scan Profile'.

To create Scheduled Scans, click the 'Scheduled Scans' tab under 'Antivirus'

Tip: The highly customization scan scheduler that lets you timetable scans to be run on managed devices according to your preferences. CAVM 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 profile of your choice.

General Antivirus	
САУМ	Cancel Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
+ Add Scheduled Scan	
П РАТН	
Weekly Virus Scanning	ø



A list of pre-configured scheduled scans will be displayed.

• To add a new scheduled scan click Add 'Scheduled Scan'

The 'Add Scheduled Scan' dialog will appear.

Name * Daily Scan on Applications Folder Profile Day of Week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	~
Profile Day of Week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	~
Day of Week Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	~
Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	~
Monday Tuesday Wednesday Thursday Friday Saturday Sunday Time	
05 : 00 PM	

Add Scheduled Scan - Table of Parameters			
Form Element	Туре	Description	
Name	Text box	Enter a name 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.	



Click 'Ok'

The scheduled scan will be added to the list.

General Antivirus	
CAVM	Cancel Save
Preferences Antivirus	
Scanner Settings Scan Profiles Scheduled Scans	
+ Add Scheduled Scan Remove Scheduled Scan	
 + Add Scheduled Scan ● Remove Scheduled Scan PATH 	
	ř

- To add more scheduled scans to the configuration profile, click 'Add Scheduled Scan' 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 Scheduled Scan'
- Click 'Save' for your settings to take effect for the profile.

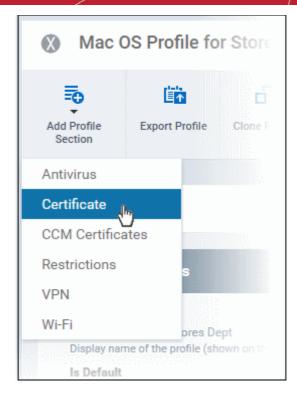
The settings will be saved and displayed under the 'Antivirus' tab. You can edit the settings or remove the section at anytime. Refer to the section **Editing Configuration Profiles** for more details.

6.1.4.1.2. Certificate Settings for Mac OS Profile

The 'Certificate Settings' section is used to upload certificates that can be selected for use in other settings such as 'Wi-Fi, 'Exchange Active Sync', 'VPN' and so on. You can also enroll user or device certificates from Comodo Certificate Manager (CCM) after activating your CCM account under Settings > Portal Set-Up > Certificates Activation.

To configure Certificate settings for Mac OS profile

Choose 'Certificate' from the 'Add Profile Section' drop-down



The 'Certificate' settings screen will be displayed.

General Antivirus	Certificate	
Certificate		Cancel Save
Name *		
		+ Variables
Description		
Data *		
Select certificate	Browse	

Certificate Settings - Table of Parameters		
Form Element Type Description		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, refer to the section Configuring 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.

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. Refer to the section 'Editing Configuration Profiles' for more details.

6.1.4.1.3. CCM Certificate Settings for Mac OS Profile

The Certificates Settings section of a profile allows you to create requests for client and device authentication certificates. Both types of certificate are issued by Comodo Certificate Manager (CCM). Once the profile is applied to a device, a certificate request is generated and forwarded by the client to CCM. After issuance, CCM will send the certificate to ITSM which in turn pushes it to the device for installation by the agent. You can add any number of certificates to a single profile.

In addition to user authentication, client certificates can also be used for email signing and encryption (users will need to import the certificate to their email client).

Prerequisite: Your CCM account should have been integrated to your ITSM server in order for ITSM to forward requests to CCM. For more details, refer to the section **Integrating with Comodo Certificate Manager**.

To add a client or device certificate

- Choose 'CCM Certificates' from the 'Add Profile Section' drop-down
- · Click 'Add Certificate' to add a certificate request to the profile

The 'Add Certificate' form will appear:

Add Certificate	Close
Name *	
Туре	
S/MIME Certificate	×
Identifier *	
%u.username%	+Variables
Country Name *	
Afghanistan	~
State Or Province Name	
Locality Name (eg, city)	
Organization Name	
Organizational Unit	
	Add

Add Certificate - Table of Parameters		
Form Element Type Description		Description
Name	Text Field	Enter a name for the certificate to be requested, shortly describing its purpose.
Туре	Drop-down	 Select the type of certificate to be added. The available options are: S/MIME Certificate (Client Certificate)

	Ad	d Certificate - Table of Parameters
		Device Certificate
Identifier	Text Field	The identifier field will be auto-populated with the variables depending on the chosen certificate type.
		 For client certificates, %username% will be added for fetching the username to be included as subject in the certificate request.
		• For device certificates, %d.uuid% will be added for fetching the device name to be included as subject in the certificate request.
		Also, 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, refer to the section Configuring Custom Variables .
Country Name	Text Field	Enter the address details of the user/organization in appropriate fields.
State or Province Name		
Locality Name (eg. City)	_	
Organization Name	Text Field	Enter the name of the organization to which the user/device pertains.
		Prerequisite : The organization should have been added to your CCM account.
Organizational Unit	Text Field	Enter the name of the department to which the user/device pertains.
		Prerequisite : The department should have been defined under the organization in your CCM 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.

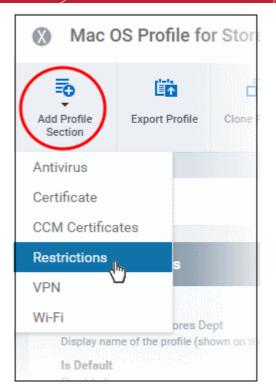
6.1.4.1.4. Restrictions Settings for Mac OS Profile

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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The 'Restrictions' settings screen will be displayed.

eral Certificate Restrictions	_	
Restrictions		🗙 Cancel 🕞 Save
Device functionality Enable use of device features		
Allow camera		OS X 10.11+
Spotlight will return Internet se	arch results	Supervised only, OS X 10.11+
iCloud		
Allow cloud document sync		OS X 10.11+

Restrictions Settings - Table of Parameters			
Form Element	Туре	Description	
Device Functionality	1		
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.	

Restrictions 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.

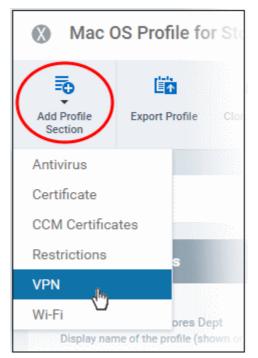
The saved 'Restrictions Settings' screen will be displayed with options to edit the settings or delete the section. Refer to the section 'Editing Configuration Profiles' for more details.

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.

eneral VPN			
VPN	😣 Can	cel	🖺 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			
Password			+ Variables
Password for authenticating the connection.			
Token card			
Authentication EAP plugins			+ Variables
			• variables
Shared secret			
			+ Variables
Ргоху			
Choose proxy		~	Add New

The connection setting parameters are similar to the VPN settings for an iOS profile. Refer to the **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.



General Certificate VPN	
Add VPN	
	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'

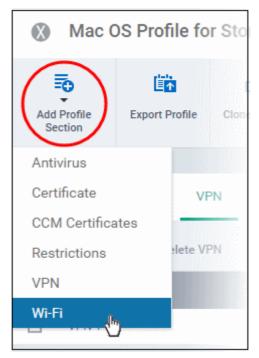
The settings will be saved and displayed under the VPN tab. You can edit the settings or remove the section from the profile at anytime. Refer to the section 'Editing Configuration Profiles' for more details.

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 **Domain name**

The connection setting parameters are similar to the Wi-Fi settings for an iOS profile. Refer to 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 Cer	ficate	VPN	Wi-Fi		
🗟 Add Wi-Fi	Delet	te Wi-Fi			
SSID				ENCRYPTION TY	PE
Purchase_	lifi			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. Refer to the section 'Editing 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 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:

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e Control Options	
ent remote control mote control endpoint without asking permission	
iser is logged in: ask for permission and connect if user allows of given time.	r does not respond
iser is logged in: ask for permission and connect only if user applied.	roves in given
e this option to completely disable remote control	
IT administrator would like to view and control your desktop. Ple w" to start remote session.	ease click
Notification Options	
ow notification to device user about who connected to his/her wo ow terminating the connection	orkstation and
Allow endpoint user to terminate the connection	
ol Options	
that will be applied are UDP ports only, please make sure your fire urations are compatible with the UDP settings	ewall
e Chromoting 🛕 🔵 from CCC 6.17	
Set at least 4 ports	
	k permission then allow after 30 seconds user is logged in: ask for permission and connect if user allows of given time. user is not logged in: proceed remote control k permission then deny after 60 seconds user is logged in: ask for permission and connect only if user app ne. user is not logged in: proceed remote control not allow remote control e this option to completely disable remote control e Control Message TT administrator would like to view and control your desktop. Plew w" to start remote session. Notification Options bow notification to device user about who connected to his/her wo bow terminating the connection Allow endpoint user to terminate the connection sol Options that will be applied are UDP ports only, please make sure your fire urations are compatible with the UDP settings

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.

Remote Control	
Remote Control Options	
O Silent remote control Remote control endpoint without asking permission	
 Ask permission then allow after 30 seconds 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 	
 Ask permission then deny after 60 seconds 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 	
Do not allow remote control Use this option to completely disable remote control Remote Control Message	
Your IT administrator would like to view and control your desktop. Please click "Allow" to start remote session.	
Client Notification Options	
Show notification to device user about who connected to his/her workstation and allow terminating the connection	

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 ITSM user 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

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These settings let you choose the protocol used to connect to Mac OS devices.

- These settings apply to CRC 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 CRC will use 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 CRC 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.

6.2. View and Manage Profiles

The 'Profiles' screen shows all available profiles for Android, iOS, Mac OS and Windows devices. The screen also allows administrators to create new profiles, export profiles, clone profiles, import profiles from an exported file and remove profiles.

To open the 'Profiles' interface, click 'Configuration Templates' on the left then choose 'Profiles' from the
options.

IT & Security Manager		≡	Profi	les		License Options	7₽	இ ஆட	ogout (coyoteewile@yahoo.com)
DASHBOARD	>		Profile		Default Profiles				
DEVICES	>	-	Profile	-5	Default Profiles				
A USERS	>		Create		Import Export Profile	Clone Profile Dele	te Profile		_
CONFIGURATION TEMPLATES	\sim	۰.							Y
Profiles				0 S	NAME	CREATED BY		CREATED -	UPDATED AT
Alerts		II.			Test Windows Profile	coyoteewile@ya	ahoo.c	2016/08/23 12:	:37:5 2016/11/04 12:20:24 P
Procedures	(i)			1	Test	coyoteewile@ya	ahoo.c	2016/08/23 12:	:01:5 2016/08/23 12:01:50 P
	>				Mac OS Profile for P	coyoteewile@ya	ahoo.c	2016/08/01 05:	:21:2 2016/08/03 05:48:16 P
APPLICATIONS	>			Ś	iOS Profile for Purch	coyoteewile@ya	ahoo.c	2016/07/27 10:	:32:1 2016/07/29 11:02:56
SECURITY SUB-SYSTEMS	>			Ť	Android devices in P	coyoteewile@ya	ahoo.c	2016/07/26 11:	03:2 2016/07/26 05:04:04 P
	>			-	[imported] For Sony	coyoteewile@ya	ahoo.c	2016/07/25 04:	:50:3 2016/07/25 04:50:37 P
SETTINGS				Ť	For Sony Phones	coyoteewile@ya	ahoo.c	2016/07/21 02	:35:0 2016/09/02 03:37:44 P

The interface contains two tabs:

- Profiles Displays a list of all profiles created in ITSM.
- Default Profiles Lists all default profiles. All newly enrolled devices are assigned a default profile

appropriate to their operating system. Refer to Managing Default Profiles for more details.

The 'Profiles' tab opens by default.

		Profiles - Column Descriptions
Colum	n Heading	Description
OS		Indicates the operating system that the profile supports.
Name		The name assigned to the profile. Clicking the profile name will open the profile settings and configuration interface. Refer to the section Editing Configuration Profiles for more details.
Created by	,	Displays the name of the administrator who created the profile. Clicking the name of the administrator will open the 'Personal' pane, displaying the details of the Administrator. Refer to the section Viewing 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	Allows administrators to create a new Android profile. Refer to the section ' Profiles for Android Devices ' for more details.
	Create iOS profile	Allows administrators to create a new iOS profile. Refer to the section ' Profiles for iOS Devices ' for more details.
	Create Mac OS profile	Allows administrators to create a new Mac OS profile. Refer to the section ' Profiles for Mac OS Devices ' for more details.
	Create Windows profile	Allows administrators to create a new Windows profile. Refer to the section 'Creating Windows Profiles' for more details.
Import	Import from Comodo Client Security Config file	Allows administrators to 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. Refer to the section 'Importing Windows Profiles' for more details.
	Import from Exported Profile	Allows administrators to import a configuration profile from a previously exported and saved profile. Refer to the section Exporting and Importing Configuration Profiles for more details.
Clone Profi	ile	Allows administrators to create a new profile by cloning an existing profile and modifying its settings as required. Refer to the section Cloning a Profile for more details.
Export prof	île	Allows administrators to export the selected configuration as a .cfg file and save it for future implementation. Refer to the section Exporting and Importing Configuration Profiles for more details.
		The control will appear only if a single profile is selected from the list.
Delete prof	ïle	Allows administrators to delete profile(s). The control will appear only if one or more profiles are selected.

Sorting, Search and Filter Options

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- Clicking on any of the column headers will sort the items in ascending/descending order of entries in that column.
- · Clicking the funnel icon enables you to search for profiles based on the filter parameters

	OS	
2:	Android	
2:	ios	
<i></i>	Windows	
5:	macOS	
1:	Name	
5:		
4:	Created by	
3:	Created	
2:	From	
4:	То	
2:	Updated at	
	From	
5:		
2:	То	

- To filter the profiles based on 'OS' type, select the check box and click the 'Apply' button.
- To filter the profiles based on name and author, enter the text partially or fully in the respective fields and click the 'Apply' button.
- To filter the profiles 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 profile.

Profiles which match the search parameters will be displayed in the screen.

- To display all profiles again, clear all filters and click the 'Apply' button.
- Click the funnel icon again to close filter options

6.2.1. Export and Import Configuration Profiles

ITSM allows you to export and import existing Android, iOS, Mac OS and Windows profiles for re-deployment to other endpoints and endpoint groups.

Note: 'Monitoring 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.

- Open the 'Profiles' interface by clicking 'Configuration Templates' > 'Profiles' then select the 'Profiles' tab.
- Select the profile you want to export and click the 'Export profile' button:

) os	NAME	CREATED BY	CREATED -	UPDATED AT
) 🏺	For Impala tab	coyoteewile@yahoo.com	2017/03/21 11:33:37	2017/03/21 11:33
1 🐼	For Joe Mac Machine	coyoteewile@yahoo.com	2017/03/17 03:22:09	2017/03/17 03:22
	Certificate Opt mised	coyoteewile@yahoo.com	2017/02/21 05:09:02	
Ехрог	t Profile Information	1		×

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 ITSM 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.

Profiles	Default Profiles	
Create	Import Export Profile Clone Profile Delete Profile	
0	Import from Comodo Client - Security Config File	CREATED - UPDATED AT
	Import from Exported Profile	

Click 'Import' and choose 'Import from Exported Profile' from the drop-down •

Confirm

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- 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 preconfigured as per the source profile.

🗭 [import	ted] For Im	pala tab				
Add Profile Section	Export Profile	Clone Profile	Delete Profile	じ Make Default		
General Ar	ntivirus Setting:	S				
General	Settings					Edit
Name * [imported] For 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			taff		

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

Edit at the top right of the 'General' settings screen.

You can add new components by clicking the 'Add Profile Section' button. You can view and edit the
settings of existing components by clicking the component name. For more details on the options available
under each component, refer to the sections Profiles for Android Devices, Profiles for iOS Devices,
Profiles for Mac OS Devices and Profiles for Windows Devices.

6.2.2. Clone a Profile

ITSM allows you to create a new configuration profile using an existing profile as a template. You can then edit the cloned profile according to the requirements of your target devices or group.

To create a clone of a profile

- Open the 'Profiles' interface by clicking 'Configuration Template' on the left then click 'Profiles' Tab.
- Click on the name of the profile you want to clone.

The profile details interface will open with the components configured in the profile

Click 'Clone Profile' from the top

Alternatively, select the profile from the 'Profiles' interface and click 'Clone Profile' at the top.

<u> </u>		
one Profile		
CREATED BY	CREATED -	UPDATED AT
coyoteewile@yahoo.com	2016/09/02 10:39:37 AM	2016/09/02 10:39:47 AM
covoteewile@wahoo.com	2016/08/26 10:08:20 AM	2016/08/27 06:18:45 AM
	Clos	se 16/08/03 12:18:16 PM
		16/07/14 11:00:43 AM
ase Dept		
	Clone	
	one Profile Delete Profile CREATED BY coyoteewile@yahoo.com	ene Profile Delete Profile CREATED BY CREATED - coyoteewile@yahoo.com 2016/09/02 10:39:37 AM counteewile@yahoo.com 2016/08/26 10:08:20 AM Close ase Dept

The 'Cloning Mac OS Profile' dialog will open for the OS type of the chosen profile. The name of the new profile will be the same as the source profile with the prefix [cloned].

- If required, enter a new name for the profile and a short description
- Click 'Clone'.

A new profile will be created with configuration parameters identical to the source profile. The profile details interface will be displayed. The cloned 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

Edit at the top right of the 'General' settings screen, edit the settings and click the 'Save' button.

- To edit component settings, click the name of the component you wish to modify, click 'Edit' and change the parameters.
- You can add new profile components by clicking the 'Add Profile Section' button

For more details on the options available under each component, refer to the sections **Profiles for Android Devices**, **Profiles for iOS Devices**, **Profiles for Mac OS Devices** and **Profiles for Windows Devices**.

6.3. Edit Configuration Profiles

An existing configuration profile in ITSM can be edited according to the requirements of the organization, for example, for adding or removing security components and changing configuration parameters.

To edit a profile

- Click the 'Configuration Templates' tab from the left and choose 'Profiles' from the options and choose 'Profiles' tab
- Click on the name of the profile that you want edit, from the list.

Profiles	Default Profiles			
Create	Import Export Profile	Clone Profile Delete Profile		
os 🗌	NAME 🔻	CREATED BY	CREATED	
	iOS Prof for Purchase D) coyoteewile@yahoo.com	2016/10/21 04:37:50 PM	2016/10 /21 04
	Hardened Windows Pro	f admin	2015/11/16 01:17:43 PM	Not updated
	from bobs computer	coyoteewile@yahoo.com	2016/10/19 11:49:34 AM	2017/06/12 11
	For Sony Phones	coyoteewile@yahoo.com	2016/07/21 02:35:01 PM	2016/09/02
	V			
from	bobs computer			
Add Profile Section	Export Profile Clone Profile	e Delete Profile Make Default		
General	Antivirus File Rating	Firewall HIPS Containm	nent VirusScope Valkyrie	UI Settings
Antiviru	5		🖹 Save	Delete
Realtime S	Scan Scans Exclus	ions		_
This option	e scanning optimizations (computer is used and prevents threats be recommended) proving technologies for Realtime Scanni er is idle		
Quarar	tine threats			~

The profile details will appear. The parameters and settings configured for each security component added as a profile section, will be displayed under respective tab.

- To edit the settings of a profile section, click the respective tab.
- Depending on the components that can be configured, you can directly edit the parameters or click the

'Edit' button Edit and then edit the parameters.

The editing steps are similar to creating a new profile. Refer to the sections **Profiles for Android Devices**, **Profiles for iOS Devices**, **Profiles for Mac OS Devices** and **Profiles for Windows Devices**.

- · Click 'Save' for your changes to take effect for the profile
- To delete a profile section from the profile, click 'Delete' from the edit options

ËÒ

To delete the profile itself, click the Delete Profile button at the top

6.4. Manage Default Profiles

Default profiles are automatically assigned to devices at enrollment and implement a strong, baseline level of security. Comodo supplies default profiles for each OS type - each pre-configured to provide optimum protection to newly enrolled devices. The default profiles supplied by Comodo cannot be modified or deleted from ITSM, but may be removed from devices (or replaced), if you wish.

In addition to built-in 'Optimum' default profiles, ITSM also ships with two more Windows profiles, Standard Windows Profile for ITSM and Hardened Windows Profile for ITSM, each configured with different settings. These two profiles also cannot be edited or removed.

You can turn any profile you create into a default profile and you can also clone a default profile to use as a template. You can create as many default profiles as you want, but please make sure the settings in them do not conflict. If the settings conflict then the most restrictive policy will be applied. For example, if the camera is enabled in a policy and disabled in another, then it will be disabled on the devices.

- There are default profiles for each operating system Windows, Mac OS, Android and iOS.
- You can remove the 'default' status from any profile, including built-in 'Optimum' profiles. However, it is
 mandatory to have at least one default profile for each operating system.
- Each device enrolled to ITSM will have the appropriate default profile applied if no user or user group profile(s) are specified. This ensures all new devices have at least one profile upon enrollment.

Note: If a user or user group profile exists for an operating system, then these will be applied instead of the default profile. If the user profiles are removed then the default profile(s) will be automatically installed to take their place.

You can remove these default profiles from the devices at anytime from the Device Management interface. See **Assigning Configuration Profiles to Selected Devices** for more details.

The behavior of default profiles is as follows:

- When a profile is set as default, it will be applied to new devices during enrollment, if no profiles are associated with the user
- When all profiles associated with device are removed, the default profile(s) will be automatically applied to the device
- When a default profile is canceled from being default, it will be will be unassigned from enrolled devices

The 'Profiles' tab from the left hand side navigation allows the administrator to view and manage default profiles.

- To open the default profiles screen, click 'Configuration Templates' > 'Profiles' on the left.
- Choose the 'Default Profiles' tab on the top.

IT & Security Manager		≡ Defau	It Profiles	License Options	7⊕	Ø	各 Logout (coyoteewile@yahoo.com)
DASHBOARD	>		\frown				
DEVICES	>	Profile	s Default Profiles				
S USERS	>						Y
	~	os	NAME	CREATED BY			UPDATED AT
Profiles							
Alerts			Optimum Windows Profile for ITSM 6.10	admin			2017/09/20 12:01:51 PM
Procedures		8	Optimum OSX Profile for ITSM 6.10	admin			Not updated
APPLICATION STORE	>	¢.	Optimum IOS Profile for ITSM 6.10	admin			Not updated
APPLICATIONS	>	-	Optimum Android Profile for ITSM 6.10	admin			2016/12/20 04:37:45 PM
SECURITY SUB-SYSTEMS	>	- Marine and					Dianition 1-4 of Accurates

The image above displays the default profiles that are shipped with ITSM. You can edit a default profile or remove its default status, edit a created custom profile and make it is as default.

Click the following links for more details:

- Creating a default profile
- View and manage default profiles
- Assigning default profiles to devices
- Removing default profiles
- Canceling default profiles

Creating a default profile

A profile can be made as a default profile while creating it or edit the existing profiles and make as default. Click the following links to know more about creating default profiles.

- Creating a default profile from the create profiles screen
- Creating a default profile from the edit screen of existing profiles

To create a default profile from the create profile screen

- Click 'Configuration Templates' on the left then choose 'Profiles' from the options
- Click the 'Profiles' tab
- Choose the type of profile that you want to create from the 'Create' drop-down

IT & Security Manager		≡	Profiles			Licen	se Options	•	
DASHBOARD	>								
DEVICES	>		Profiles	Default	Profiles				
A USERS	>		Щ.	Т. Т		4- •			
CONFIGURATION TEMPLATES	\sim		Create	Import	Export	Profile	Clone Profile	Delete Profi	
Profiles			Create Ar	ndroid Pro	file		CREATED BY		
Alerts			Create iO	S Profile			countropuilo	aushoo	
Procedures	()		Create O	S X Profile			coyoteewile@		
				indows Pr	rofile	achi	covoteewile@		

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The 'Create OS Profile' screen will be displayed.

Create Windows Profile	×
Name *	
Name	
Description	
Description	
	Create

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

The profile for the selected OS type will be created and the 'General Settings' section will be displayed. The new profile is not enabled as a 'Default Profile' by default.

Defau	lt Profile fo	r Window	s Devices			
Đ	Ē.	ė.	Ľö.	i)		
dd Profile			Delete Profile			
Section						
eneral						
incra						
General	Settings					캳 Edit
Name *	e for Windows D	avicas				
Is default Disabled	e for willdows D	evices				
Description						
				/-		
General						
	al Settings				S Cancel	E Save
Genera Name *		K			S Cancel	E Save
Name * Default	Profile for Wir	ndows Device	25		S Cancel	Save
Genera Name * Default Is defa	Profile for Wir	ndows Device	25		S Cancel	E Save
Genera Name * Default	Profile for Wir	ndows Device	25		Cancel	Save
Genera Name * Default Is defa	Profile for Wir	ndows Device	es		Cancel	E Save
Genera Name * Default Is defa	Profile for Wir	ndows Device	25		Cancel	E Save
Genera Name * Default Is defa	Profile for Wir	ndows Device	25		Cancel	E Save

- Click on the 'Edit' button Edit' at the top right of the 'General' settings screen and select the check box beside 'Is Default'.
- Click the 'Save' button.

The profile will be saved as a 'Default Profile' and listed in the 'Default Profiles' screen.

Profile	es Default Profiles		
os	NAME	CREATED BY	UPDATED AT
	Default Profile for Windows De	coyoteewile@yahoo.com	2017/05/02 02:07:18 PM
	Optimum Windows Profile for I	admin	2016/12/20 04:36:26 PM
0	Optimum OSX Profile for ITSM	admin	Not updated
Ś	Optimum IOS Profile for ITSM	admin	Not updated
	Option Android Profile for IT		2016/12/20 04-27-45 DV

You can edit the profile and add profile sections as required. Refer to the section **Editing Configuration Profiles** for more details.

To create a default profile from the existing profiles screen

- Click 'Configuration Templates' on the left and select 'Profiles' from the options.
- Click the 'Profiles' tab on the top.
- · Click the name of the profile that you want to set as a default profile

Profiles	Default Profiles			
Create	Import Export Profile	Clone Profile Delete Profi	le	Ţ
os 🗌	NAME	CREATED BY	CREATED 👻	UPDATED AT
•	Default Profile for	coyoteewile@yahoo	2017/05/02 02:01:	2017/05/02 02:07:18
□ ∰•	For Impaia tao	coyoteewile@yahoo	2017/03/21 11:33:	2017/03/21 11:33:37
	For Joe Mac Machi	coyoteewile@yahoo	2017/03/17 03:22:	2017/03/17 03:22:09
📕 Defa	₩ ault Profile for W	indows Devices		
Add Profile Section	Export Profile Clor	ne Profile Delete Profile M	ake Default	
General				
Gene	ral Settings			Edit
Name * Default Pr	ofile for Windows Device	S		
ls default Disabled				
Descriptio	n			

The profile details screen of the selected profile will be displayed.

Click the 'Edit' button Edit at the top right of the 'General' settings screen and select 'Is Default' check box and click 'Save'.

Or

•

Click 'Make Default' at the top.

The profile will be saved as a 'Default Profile' and listed in the 'Default Profiles' screen.

Profile	es Default Profiles		
0S	NAME	CREATED DY	IIPDATED AT
201 (C) 102 (C) 102 (C)	Default Profile for Windows De	coyoteewile@yahoo.com	2017/05/02 02:07:18 PM
	Optimum Windows Profile for I	admin	2016/12/20 04:36:26 PM
0	Optimum OSX Profile for ITSM	admin	Not updated
Ś	Optimum IOS Profile for ITSM	admin	Not updated
	Option Android Profile for IT		2016/12/20 04-27-45 DV

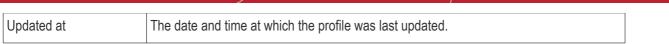
To view and manage default profiles

- Click 'Configuration Templates' on the left then choose 'Profiles' from the options
- Click the 'Default Profiles' tab

The list of default profiles will be displayed.

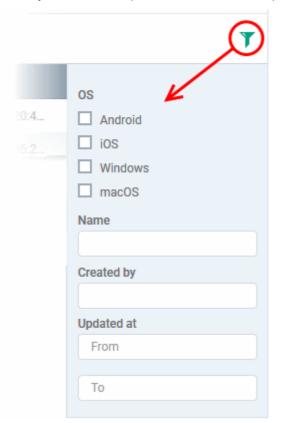
IT & Security Manager		≡ Def	ault Profiles	License Options	€ 2	요 Logout (coyoteewile@yahoo.co	m)
DASHBOARD	>						
DEVICES	>	Profi	es Default Profiles				
Q USERS	>					٢	r
CONFIGURATION TEMPLATES	\sim	OS	NAME	CREATED	BY	UPDATED AT	
Profiles			Default Profile for Windo	ows De coyoteew	ile@yahoo.com	2017/05/02 02:20:44 PM	
Alerts			Optimum Windows Prof	ile for I admin		2016/12/20 04:36:26 PM	
Procedures	(i)	8	Optimum OSX Profile fo	r ITSM admin		Not updated	
APPLICATION STORE	>	ć	Optimum IOS Profile for	ITSM admin		Not updated	
APPLICATIONS	>		Optimum Android Profile	e for IT admin		2016/12/20 04:37:45 PM	
SECURITY SUB-SYSTEMS							

Profiles - Column Descriptions				
Column Heading	Description			
OS	Indicates the operating system that the profile is applied for.			
Name	The name assigned to the profile by the administrator. Clicking the name of a profile will open the 'Profile' interface. Refer to the section Editing Configuration Profiles for more details.			
Created by	Displays the name of the administrator who created the profile. Clicking the name of the administrator will open the 'Personal' pane, displaying the details of the Administrator. Refer to the section Viewing the details of the User for more details.			



Sorting, Search and Filter Options

- Clicking on any of the column headers will sort the profiles in ascending/descending order of entries under that column.
- Clicking the funnel icon enables you to search for profiles based on the filter parameters.



- To filter the profiles based on 'OS' type, select the respective check box and click the 'Apply' button.
- To filter the profiles based on name and/or name of the administrator that created the profile, enter the text partially or fully in the respective fields and click the 'Apply' button.
- To filter the profiles based on the period at which they were 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 profile.

The profiles that matches the entered/selected parameters will be displayed in the screen.

- To display all the profiles again, clear the selections in the filter and click the 'Apply' button.
- Click on the funnel icon again to close the filter options

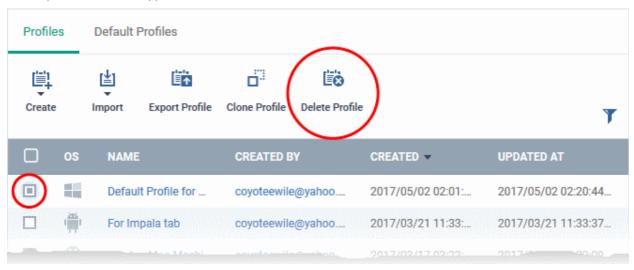
Assigning default profiles to devices

Devices that are enrolled for the first time will automatically be assigned the default profiles according to their operating system, if the user/user group is not applied with any profiles. These default profiles will be automatically overridden by the profiles by the administrator according the organizational requirements. Please note the default profiles that were installed initially will become active again in the devices when the applied profiles are removed from them.

Removing default profiles

You can remove a default profile from the 'Configuration Templates' > 'Profiles' > 'Profiles' screen. Please note that

default profiles that are shipped with ITSM cannot be removed.



• Select the default profile from 'Profiles' screen and click the 'Delete Profile' button at the top of the screen.

The default profile will be removed from the list and it will also be removed as a regular profile from the 'Profiles' screen.

Note: It is mandatory to have at least one default profile for each operating system in ITSM. You cannot remove a default profile if that is the only one default profile available for the respective operating system. If you want to do so, assign a different profile as default profile for the operating system before removing it.

To cancel default profiles

You can cancel custom default profiles as well as built-in default profiles, meaning no default profiles will be applied to devices on enrollment. These canceled default profiles will also be unassigned from already enrolled 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.

Default Profiles Profiles Y NAME CREATED BY UPDATED AT 1979 IS Default Profi coyoteewile@yahoo.com 2017/05/02 02:20:44 PM or Windows De admin 2016/12/20 04:36:26 PM Opt **Default Profile for Windows Devices** 齚 Ľ, 5 Ľα Add Profile Export Profile Clone Profile **Delete Profile** Cancel Default Section General General Settings Name * Default Profile for Windows Devices Is default Enabled Description

- Click the name of the default profile from the list
- Click 'Edit' on the right, deselect 'Is Default' check box and click 'Save' Or
- Click 'Cancel Default' button at the top

Please note that for built-in default profiles, the 'Edit' button will not available and you can cancel its default status only by clicking the 'Cancel Default' button at the top.

Note: It is mandatory to have at least one default profile for each operating system in ITSM. You cannot cancel a default profile if that is the only one default profile available for the respective operating system. If you want to do so, assign a different profile as default profile for the operating system before canceling it.

6.5. Manage Alerts

You can specify that an alert is created if certain criteria are met. For example, you can set an alert if a procedure fails to run on devices or if a monitoring condition is breached. Alerts can be configured to notify administrators in multiple ways:

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- · Service Desk Ticket Alerts and notifications are created on Service Desk application
- Notification Shown as notification on portal
- · Email Sent to administrators when a check fails for a consecutive number of times

The alerts that are created here will be available for selection in the **Procedure** section and while configuring **Monitoring Settings** for a Windows profile.

IT & Security Manager		≡ Aler	ts	Lice	ense Options	ා වී ද Logout (co	yoteewile@yahoo.com)
DASHBOARD	>						
DEVICES	>	Create		te Alert			
	>						T
CONFIGURATION TEMPLATES	~		ALERT NAME	CREATED BY	CREATED ON	LAST MODIFIED BY	UPDATED ON
Profiles			restart	coyoteewile@yah	2017/01/31 11:30:	coyoteewile@yahoo.com	2017/01/31 11:30:
Alerts			New	coyoteewile@yah	2016/12/29 11:40:	coyoteewile@yahoo.com	2016/12/29 11:40:
Procedures	0		Patch Procedure A	coyoteewile@yah	2016/11/24 11:04:	coyoteewile@yahoo.com	2016/12/22 11:29:
APPLICATION STORE	>		Script Procedure A	coyoteewile@yah	2016/11/24 11:02:	coyoteewile@yahoo.com	2016/11/24 11:03:

Note - ITSM communicates with Comodo servers and agents on devices in order to update data, deploy profiles, submit files for analysis, monitor Windows events and provide alerts 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**.

Click the following links for more details:

- Create a new alert
- Edit / delete an alert

6.5.1. Create a New Alert

- To create a new alert, click 'Configuration Templates' > 'Alerts'
- Click 'Create Alert'

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IT & Security Manager	≡ Alerts		<u>^</u>	License Options
DASHBOARD >	\frown			
DEVICES >			8	
Susers >	Create Alert	Clone Alert Delete	e Alert	
E CONFIGURATION TEMPLATES V		LERT NAME	CREATED BY	CREATED ON
Profiles	. re	estart	coyoteewile@yal	n 2017/01/31 11:3
Alerts		lew	coyoteewile@yal	1 2016/12/29 11:4
Procedures	П Р	atch Procedure A	coyoteewile@yal	1 2016/11/24 11:0
APPLICATION STORE	S	cript Procedure A	coyoteewile@yal	1 2016/11/24 11 0
Create Alert				×
Alert name *				
Description				
				Create

- · 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:

Edit alert name

and description

General

Alert Settings

Additional Recipients

General

Alert settings

Additional Recipients

Delete

Alert name

System Procedure

Description

To check system procedure

To configure alert settings, click 'Alert Settings' tab and then 'Edit'

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General Alert Settings Additional Recipients
Alert Settings
Don't create additional alerts (about the same issue) for Enabled
5 days
Create notifications on the portal Disabled
General Alert Settings Additional Recipients
Alert Settings Save
 Don't create additional alerts (about the same issue) for 5 days Create notifications on the portal Create alert tickets on the Service Desk Append to an original ticket if there is an open ticket for performance monitoring conditions Automatically close the ticket if the metrics go below the threshold Open the tickets under Maintenance Department Open the tickets with priority Normal
Additional device data and metrics to be inserted in the ticket: Note: company, device name, device OS and owner are included by default
Include device data (brand, model, serial number, logged on user, domain/workgroup, MAC address, local IP address, gateway IP adress, DNS server address)
Performance metrics (CPU usage, RAM usage, disk usage, network usage, uptime, if reboot is pending)
 Connectivity metrics (local IP address, external IP address, gateway IP address, ping to gateway, last communication time, DNS server address)

- **Don't create additional alerts (about the same issue) for** Determines whether additional alerts should be generated if same issue occurs within the specified period. The field below this allows you to select the period which ranges from 5 minutes to 5 days. By default, this is selected with a specified period of 5 days.
- 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.
 - 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 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 dropdown.
- 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.
 - Include 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 Recipients	
Additional Recipients	
Send e-mails if Monitoring or Procedure register alerts more than the selected number of consecutive time.	
General Alert Settings Additional Recipients	
Additional Recipients Cancel Save	
 Send e-mails if Monitoring or Procedure register alerts more than the selected number of consecutive times Always send e-mails Send to the portal administrators Send to the following e-mail addresses: 	

- 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 **Monitoring Settings** for a Windows profile.

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 **Monitoring 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	
3	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	
	Soriet Paradure A	covoteewile@vah	2016/11/24 11:02		
	Delete Alert			:	×
	Do you really want to	delete alert «New»?			

Procedures are standalone instruction scripts and patches for Windows devices. Procedures can be run on an adhoc basis or added to a profile. Admins can create procedures to resolve common issues, pinpoint and resolve problems, and run patches. Features include:

- Select a predefined procedure to be executed on endpoints
- · Create custom procedures to be executed on endpoints
- Compose script instructions in Python
- Select Microsoft software updates for a patch procedure
- Select third party applications to be updated for a 3rd party patch procedure
- Associate a defined alert with a specific procedure.
- Combine procedures to build broader procedures.
- Show procedure results in the Execution Log as well as inside particular device
- Import procedures from JSON.
- Export and clone procedures.
- Run procedures on demand by selecting 'Run Over Device'. Can be applied to single devices, multiple devices or all devices.
- Add predefined procedures to Windows device profiles and create schedules for them.

Please use the following links to learn more about procedures:

- Viewing and Managing 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.

'Procedures' are available in two categories which are shown in folders on the left - 'Predefined Procedures' and 'My Procedures' (custom procedures).

ITSM ships with two types of predefined procedures - Script and Patch.

- The folders 'Application', 'System', 'File Operations', 'Task Scheduler', 'Log Collection', 'Network' and 'User Accounts' contain scripts to execute many useful tasks.
- The 'Patch Deployment' folder contains procedures to install Windows OS patches onto Windows endpoints.

Predefined procedures cannot be edited. Guidance on creating a custom procedure can be found in **Create a Custom Procedure**.

The procedures interface lists all existing custom and predefined procedures. Click the funnel icon on the right to filter procedures by various criteria.

IT & Security Manager				
DASHBOARD	>			
DEVICES	> Q Search folder	Procedures		
A USERS	>	ាំ ដំ	D ¹	
CONFIGURATION TEMPLATES	~	Create Import Export	Clone	Run Delete in
Profiles		PROCEDURE NAME	TYPE	STATUS CON
Alerts				
Procedures		Alert if the restore point si	Predefined	Approved Sco.
	> -	Alert if a restore point is cr	Predefined	Approved Scores
APPLICATIONS	>	Alert when the password c	Predefined	Approved Scray
SECURITY SUB-SYSTEMS	>	Alert when USB Removabl	Predefined	Approved Script
	>	Script for monitoring the u	Predefined	Approved Script
SETTINGS	>	Monitor Admin Actions	Predefined	Approved Scope

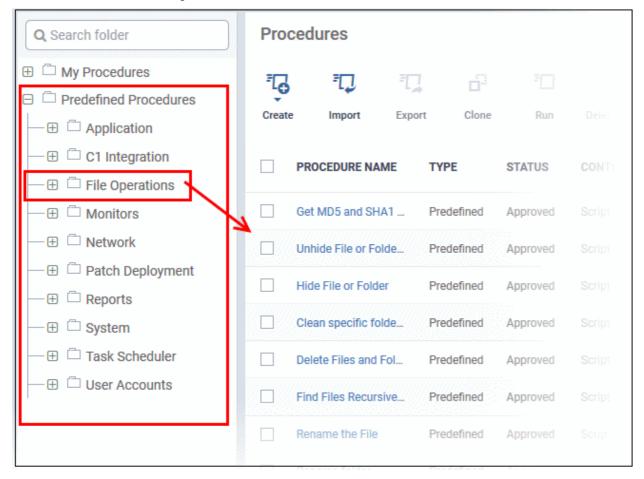
Procedures - Column Descriptions				
Column Heading	Description			
Procedure Name	The name of the procedure			
Туре	Indicates whether the procedure is a custom or a predefined procedure.			
Status	Indicates the status of the procedure. The statuses are: Created Edited Ready to review Approved Declined 			
Content Type	Indicates whether the procedure is script or patch.			
Created by	Displays the name of the administrator who created the custom procedure. Clicking the name of the administrator will open the 'Personal' pane, displaying the details of the Administrator. Refer to the section Viewing the details of the User for more details.			
Created On	The date and time at which the procedure was created.			
Last Modified By	The details of the administrator that modified by the procedure last.			
Updated On	The date and time at which the procedure was last updated.			
	Controls			
Create	Allows to create custom script and patch procedures. Refer to the section 'Create a Custom Procedure' for more details			

Import / Export / Clone	Allows administrators to import a saved procedure, export a procedure and clone an existing procedure. Refer to the section 'Import / Export / Clone Procedure' for more details.
Run	Allows administrators to run a procedure on Windows device(s) instantly. Refer to the section 'Directly Apply Procedures to Devices' for more details.
Delete Procedure	Allows administrators to delete procedure(s).

To view the sub-categories of 'Predefined Procedures':

- · Click 'Predefined Procedures' in the folder pane on the left
- Click a category folder to view procedures related to the category.

Procedures are shown on the right:



The following table lists all predefined categories and procedures:

Category	Procedures
Application	Installing/uninstalling applications, kill running applications, get details on running applications, processes, servers and more.
C1 Integration	Script procedures to install/modify or communicate with other C1 products
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	Predefined script monitors that can be used in the monitoring settings of a

	Windows profile. See Adding Custom Monitoring Conditions for more details.
Network	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	Rebooting devices, create restore point, enable/disable USB ports, mapping network drives, running disk defragmentation, fixing disk errors and more.
Task Scheduler	Creating 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. Refer to the following sections for more details.

- Import / Export / Clone Procedures
- Editing 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 C Ready for Review B Test Patch Procedure	Create	FD Import	ार्जू Export	Clone	Run	Tolete Procedure			
- 🕀 🗇 Test Script Procedure		PROCEDURE	NAME	ТҮРЕ	STATUS	CONTENT TYPE	CREATED BY	CREATED ON	
— ⊕ □ Patch and script		Finance Dept	Script	Custom	Created	Script	coyoteewile	Feb 8, 2017	
Fin Dept Script Procedure Predefined Procedures		Script Approv	e teest	Custom	Declined	Script	coyoteewile	Nov 24, 2016	
		New		Custom	Created	Script	coyoteewile	Aug 24, 2016	
		Windows ever viewer	nt log	Custom	Edited	Script	coyoteewile	Aug 24, 2016	
		Test2		Custom	Ready to review	Script	coyoteewile	Aug 23, 2016	
	Results per	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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Q Search Folder	Proc	edures					
 □ My Procedures □ □ □ Ready for Review □ □ □ Test Patch Procedure 	Create	Limport	Export	Clone	F	Delete Procedure	
- 🕀 🗀 Test Script Procedure		PROCEDURE	IAME	TYPE	STATUS	CONTEN	IT TYPE
Add Folder ▼ Folder Name*						Close	
Finance Script Procedure						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
- C C 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.

These section explain more about these processes:

- Creating a new procedure
- Importing/Exporting/Cloning a procedure
- Editing 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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Q, Search Folder	Procedures
My Procedures Ready for Review Test Patch Procedure	Create Import
- 🕀 🗀 Test Script Procedure	PROCEDURE NAME TYPE
- 🏵 🛱 Patch and script	Patch in combined f Custom
- D Finance Script Procedure Finance Scri	Script in combined Custom
Edit Folder 🖌	Clos
Edit Folder	Clos
	Close
Folder Name*	Close

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

Q Search Folder	Procedures				
 □ My Procedures □ □ Ready for Review □ ⊕ □ Test Patch Procedure 	Create	import Eper			
— ⊕		PROCEDURE NAME	TYPE		
— 🕀 🗂 Patch and script		Patch in combined f	Custom	Approved	
- 🕀 🛱 Fin Dept Script Procedure		Script in combined	Custom	Approved	
C Predefined Procedures		TP 2	Custom	Approved	
Delete Folder			Clo	ose oved	
Do you really want to delete folder "Budget"?				pved	
			Confirm	n	

Click 'Confirm' to update the tree.

•

6.6.2. Create a Custom Procedure

ITSM allows you to create custom script / patch procedures according to your requirements. Click the following links to find out more:

- Creating a custom script procedure
- Creating a custom patch procedure
- Creating a custom 3rd Party application patch procedure

To create a custom script procedure

• Click 'Configuration Templates' > 'Procedures' > 'Create' > 'Create Script Procedure'

Q Search folder	Procedures	
 □ My Procedures □ □ □ Ready for Review □ ⊕ □ Test Patch Procedure □ ⊕ □ Test Script Procedure 	Create Script Procedure	
- ⊕ ☐ Patch and script	Create Patch Procedure Create 3rd Party Patch Procedure	Created Scre
Create Script Procedure		×
Description		.i.
Folder My Procedures		~
L		Create

 Enter a name and description for your script procedure and specify the folder in which you want it to be saved. After saving, you will be taken to the procedure configuration screen. The 'General' section allows you to modify basic settings:

Edit name, description and alert settings General	Compose your procedure in Python Specify a for the pr View Procedure Schedule Ex		/iew script execution logs	
Genera	al			Cancel E Save
	re name * nce dept script			
Descript	ion t for finance dept devices			
Enables user to create Folder	Dept Script Procedure	~		
Enable or disable alerts if the	alert settings when the procedure fails			
Click to search for Defau custom alerts	ult Alert			

To define a Python script for your procedure, click the 'View Procedure' tab followed by the 'Edit' button. You can create a custom script using the built-in text editor:

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Genera	View Procedure	Schedule	Execution Log]		
Pro	cedure's Instructions		nguage to compose	Procedure's Instruction	Edi	t Delete
1						
Pro	ocedure's Instruction		ge to compose Prod	edure's Instructions	X Cancel	Save
o	Add Existing Procedure	K Undo	Redo			
2 3	drive> disk drive repeat-> define fre name-> any name for time-> time in 24 h	quency of s the schedu	scheduled op Je	erations, opti		
				1		
				Simply type you code into the tex begin composing	ct editor to	

- 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 auto-populated upon successive execution of the procedure on the endpoints to which the configuration profile with this procedure component. 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

• Click 'Configuration Templates' > 'Procedures' > 'Create' > 'Create Patch Procedure'

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Q Search folder	Procedures	
 ¹ My Procedures ¹ Predefined Procedures ¹ 	Create Import Export Clone	₹ D Run De
	Create Script Procedure	STATUS CO
	Create Patch Procedure	Approved Srd
	Create 3rd Party Patch Procedure	
Create Patch Procedure		×
Patch procedure name *		
Description		
Folder		
My Procedures		~
	Cr	eate

• Enter a name and description for your 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:

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Configure restart options for the endpoint on Configure patch Edit the name, View the description and options for the execution of the schedule for the View patch alert settings procedure procedure procedure to run execution logs Execution Log Execution Options Restart Control Schedule General 🙁 Cance General 💾 Save Patch procedure name * Patch procedure for Finance Dept Computers Choose the sub-folder to Description which the procedure To apply patches to finance dept computers is to be added Enable or disable der alerts for failed attempts on **Test Patch Procedure** running the procedure Use alert settings when the procedure fails Click this field Default Alert to choose an alert type

• 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.

General Execution Options Restart Control Schedule Execution Log 🗊 Delete Execution Options **Critical updates** General Execution Options Restart Control Schedule Execution Log **Execution Options** 😣 Cancel Save 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 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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Schedule General Execution Options Restart Control Execution Log 📋 Delete Restart control Fdi **Restart option** Suppress the reboot Restart Control General Schedule Execution Options Execution Log Restart control 😣 Cancel Save O 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

- 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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earch 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	
	Cicate Sid Party Pater Proceeding			
Create 3rd Party Patch Proc	V edure		×	
Procedure name *				
Description				
Folder				
Folder My Procedures			~	
		Cre	~	

- 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.

Configure restart options for the endpoint on Edit the name, Configure patch View the description and options for the execution of the schedule for the View patch procedure alert settings procedure procedure to run execution logs Schedule General Execution Options Restart Control Execution Log General 💾 Save Procedure name* Forefox Update Choose the Description sub-folder to which the procedure is to be added older Enable or disable My Procedures alerts for failed attempts on running the Use alert settings when the procedure fails procedure Default Alert Click this field to choose an alert type

• 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
	d party software to updat ate all applications	e		
_	ate only the selected a	applications		
Software	•			
	oftware name to searc			

- 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		
Update all applications		
Update only the selected applications		
oftware		
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	
Resta	rt control			F Edit	📋 Delete
Restart Suppres	option ss the reboot				
General	Execution Options	Restart Control	Schedule	Execution Log	
Res	tart control			😵 Cancel	E Save
OF	orce the reboot in				
	5 minutes				~
<u>ا</u>	Suppress the reboot 🕦				
0 V	Varn about the reboot a	nd let users postpor	ne it		
Rebo	ot message				
En	ter a message that the	device owner will ge	t before the rel	poot	

• 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

Please note this is applicable only for 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.

	cedure's Instru TE: Use Python Langua	ctions ge to compose Procedure's Instructions	
•	Add Existing Proce	dure 🔨 Undo 🇪 Redo	
1	lef defragment	(drive repeat, days, name, time) :	
2	import sub	process;	
3	if repeat		
4	subpro	Add Existing Procedure	Close
5	print		
6	returi		
7	elif repe:	Procedure Name	
		System s	
		System Software Inventory	
			Add

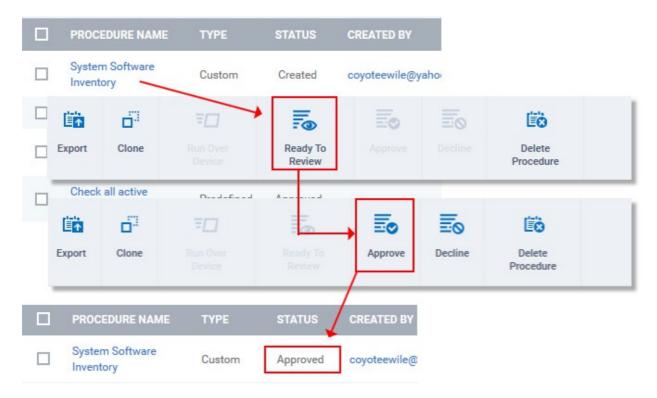
Click 'Save' for your changes to take effect.

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New custom script procedures are given an initial status of 'Created'. Custom script procedures must be approved for them to become available for inclusion in a profile. New custom patch procedures do not require any approval and are automatically approved after creation.

To access the review features:

- Open a custom script procedure
- Click 'Ready to Review'.
 - This will notify authorized administrators that a procedure requires approval
 - If you are an authorized administrator, it will also activate the 'Approve' and 'Decline' buttons
- · Click 'Approve' if you wish to commit this script and make it available for selection in profiles
- Click 'Decline' if you do not wish to commit this script.



· 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'
- Click the profile to which you want to add a procedure
- Click 'Add Profile Section' > 'Procedures':

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DASHBOARD	>		OS	NAME				
DEVICES	>			Test Wind	ows Profile			
USERS	>			Test				
CONFIGURATION TEMPLATES				Đ	Ľ ™	Ē.	Ëò	
Profiles			A	dd Profile Section	Export Profile	Clone Profile	Delete Profile	
			U	pdate Rule				
			Pi	оху		IPS Ant	ivirus File I	Rating
			A	gent Discov	ering Settings			
			М	onitoring				
				rocedures Name *				

- This will add a 'Procedures' tab to the profile.
- Click the 'Add button' to open the procedure configuration screen

General Procedures H	IPS
Procedures	Add Existing Procedure Close
	Procedure Name System software Inventory
	To create a new procedure please go to Procedures Start Date*
	2016/10/20
	Never v Scheduled Time
	03 : 59 PM
	 Run as system user Run as logged in user(s)
	Add

- 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	Procedures	HIPS	Antivirus	File Rating	
Procedu	res			Cancel	Save

The 'Schedule' tab of the procedure interface will list all profiles which have this procedure scheduled:

General	View Procedure	Schedule		
PROFILE NA	ME	START DATE	SCHEDULE	FINISH DATE
Test Window	s Profile	Aug 23, 2016	Daily	No Finish Date

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.

6.6.6. Import / Export / Clone Procedures

ITSM 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'
- Select the procedure and click 'Export' at the top. Please note you can export only custom procedures.

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Proc	edures		
Create	Import	Run Over Device	Delete Procedure
	PROCEDURE NAME	ТҮРЕ	STATUS
	Windows event log viewer	Custom	Approved
	System Software Inventory	Custom	Approved
	Test2	Custom	Ready To Review
	Test	Custom	Approved
	To 1000	Dural stress of	

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

Import P	rocedure		Close
Browse	Not Selected		
		Imp	port

• 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 P	rocedure	Close
Browse	20160824-Windows-event-log-viewer.json	
	1	mport

Click 'Import'

The procedure will be added to the list with the word 'Imported' to distinguish it from other procedures.

Proce	edures					
Create	(1) Import	Export	Clone	Run Over Device	Lie Delete Procedure	
	PROCEDURE			ТҮРЕ	STATUS	
	[imported] W	/indows even	it log viewer	Custom	Created	
	Windows event log viewer			Custom	Approved	
	System Soft	ware Invento	ry	Custom	Approved	

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'
- Select the procedure and click 'Clone' at the top.

Proc	edures			
Create	Import Export	Clone	= □ Run	Delete Procedure
	PROCEDURE NAME	ТҮРЕ	STATUS	CONTENT
	[Imported] TP 2	Custom	Approved	Patch
	Script Approve teest	Custom	Declined	Script
	New patch	Custom	Approved	Patch
	Finance dept test p	Custom	Approved	Patch
	Fin dept patch proc	Custom	Approved	Patch
	Finance dept script	Custom	Approved	Script
	Patch in combined f	Custom	Approved	

The 'Clone Procedure' dialog will be displayed with name of the selected procedure auto filled in the name field.

Clone Procedure	Close
Procedure name *	
[cloned] Fin dept patch procedure	
Description	
Patch procedure for fin dept devices	
Folder	

- · 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'

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The procedure will be added to the list:

Proc	edures				
Create	[∐ Import	Export	Clone	₩ Run	Delete Noteshire
	PROCEDURE	NAME	ТҮРЕ	STATUS	CONTENT TYPE
	[cloned] Fin d	ept pa	Custom	Approved	Patch
	[Imported] TF	2	Custom	Approved	Patch
	Script Approve teest		Custom	Declined	Script
	New patch		Custom	Approved	Patch

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. Please note the procedure has to be **approved** in order to deploy it in profiles.

6.6.7. Change Alert Settings

ITSM 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' section. Refer to the section 'Managing Alerts' for more details.

To change alert settings

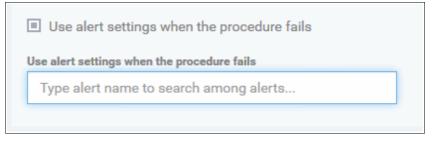
- Click 'Configuration Templates' > 'Procedures'
- Open the procedure whose alert you wish to modify and click 'Edit' on the right. The alert settings will be available under the 'General' tab.

 General
 View Procedure
 Schedule
 Execution Log

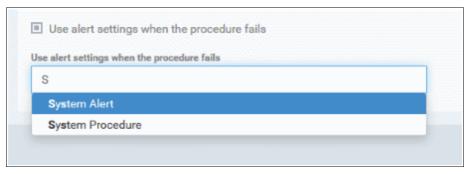
 General

 © Cancel
 © Save
 Procedure name*
 System Software Inventory
 Description
 System software inventory
 Folder
 - Fin Dept Script Procedure
 I Use alert settings when the procedure fails
 Use alert settings when the procedure fails
 Default Alert
 I Default Alert

- Make sure the 'Use alert settings when the procedure fails' check box is selected.
- The current alert name will be displayed in the field. Click on the field and type the name of alert that you
 want to add here. You can create and view alerts in 'Configuration Templates' > 'Alerts'. See 'Managing
 Alerts' for help with this.



• Enter fully or partly the name of the predefined alert in the field. Matching alerts will be displayed.



• Select the alert and click 'Save' at the top right.

The alert changes will be applied to the profiles also that are using this procedure.

6.6.8. Directly Apply Procedures to Devices

Procedures can be run on devices in three ways:

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- 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'
- Select the check box beside the procedure that you want to apply. Please note only **approved** procedures can be applied. You can also run only one procedure at a time.

Proc	edures							
Create	import Export		Run	Eo Delete Procedure				т
		түре	STATUS	CONTENT TYPE	CREATED BY	CREATED ON	LAST MODIFIED BY	UPDATED ON
	Get 10 Recent Appli	Pedefined	Approved	Script		Oct 8, 2016		Never modified
	Get 5 Recent Securi	Predefined	Approved	Script		Oct 8, 2016		Never modified
	Get 5 Recent Syste .	Predefined	Approved	Script		Oct 8, 2016		Never modified
	Get 5 Top CPU con	Predefined	Approved	Script		Oct 8, 2016		Never modified
	Get 5 Top PAM Con	Predefined	Approved	Script		Oct 8, 2016		Never modified
	Get Active Network	Predefined	Approved	Script		Aug 14, 2016		Never modified
	Get All Scheduled T	Predefined	Approved	Script		Oct 8, 2016		Never modified
	Get BIOS Details	Predefined	Approved	Script		Oct 8, 2016		Never modified
۵	Get Bitlocker Status	Predefined	Approved	Script		Oct 8, 2016		Never modified
	Get Directory File List	Predefined	Approved	Script		Oct 8, 2016		Never modified

Click 'Run' at the top

The 'Run' dialog will be displayed:

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Run Procedure	Close
Run procedure "Get Bitlocker Status of Drives" over:	
 All Devices Selected Device(s) 	
Type device name to search among devices	
O Run as system user	
Run as logged in user(s)	Run

- 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.

Run Procedure	Close
Run procedure "Get Bitlocker Status of Drives" over:	
 All Devices Selected Device(s) 	
DESKTOP-TTPO9PR × DESKTOP-HI950BN ×	
O Run as system user	
Run as logged in user(s)	
	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. Please note this option will not be available for a patch procedure.
- To remove a device from the list, click 'X' beside it.
- Click the 'Run' button

The procedure will be applied to the selected devices. A confirmation dialog will be displayed and the process will be 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. Refer to the section 'Installing 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:

- Editing / deleting a script procedure
- Editing / deleting a patch procedure

Editing a Script Procedure

- Click 'Configuration Templates' > 'Procedures'
- Click on the script procedure that you want to modify and click 'Edit' at the top right

Script	test							
Export	Clone	∓ Run	Ready To Review	Eo Approve	Decline	Delete Procedure		
General	View	Procedure	Schedule	Execution	Log			
Gene	eral						🌮 Edit	📋 Delete
Proce	<mark>dure name</mark> test							
Descri	iption							
Folder Test S	r cript Proce	dure						
	ert setting: It Alert	s when the p	rocedure fails					

General

• Modify the procedure name, description and / or alert settings

View Procedure

Click 'Edit'



· 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. Clicking the 'Schedule' tab will display the profile(s) name that the procedure is being used.

Script	test							
Export	Clone	Run		Approve	Decline	Delete Procedure		
General	View	Procedure	Schedule	Execution	Log			
0								hedule, select a profile ress the Add button.
PROF	LE NAME				START DAT	E	SCHEDULE	FINISH DATE
from t	obs comp	uter			Nov 25, 2016 Monthly		Monthly	No Finish Date
Financ	e Departm	ent Windows	Computers		Nov 24, 201	6	Never	No Finish Date
Result	s per page:	20	*					Displaying 1-2 of 2 results

• Click on the profile name for which you want to edit the procedure schedule.

The selected profile will be displayed with the 'Procedure' tab opened. Click 'Edit' at the top right.

-0		Ē.	6 ³	Eò	ŝ					
dd Profile Section	e Ex	port Profile	Clone Profile	Delete Profile	Make Default					
section										
neral	Proced	ures								
Proce	dures									The Bolt
Ð Add	⊙ Ma	ve Up 💿	Mare Dawn	(3) Remove						×
ORDER	PROC	EDURE NAME	E D	ESCRIPTION			TYPE	SCHEDULE	LAST MODIFIED BY	UPDATED AT
1	Run P	owershell Scr	ipt Files P	lease specify the	full path and nam	e of script file	Script	Daily	New modified	Oct 8, 2016
2	Secur	ity patch upda	atea				Patch	Daily	Never modified	Nov 12, 2016
										Q = 1 = 1 = 1 = 2 = 2 = 2 = 2 = 2 = 2 = 2
neral	Proce	lures								
eneral	Proce	dures					K			
	Procee	lures					1		X Cancel	Save
Proce	dures								X Cancel	Save
Proce	dures		Move Down	 Remove 					X Cancel	Save
Proce	dures			Remove DESCRIPTION	DN		ТУРЕ	SCHEDULE	X Cancel	
Proce	odures	we Bp 🕞 PROCEDUA		DESCRIPTI		nd name of script file				
Proce • Add	odures M ORDER	PROCEDUS Run Power	RENAME	DESCRIPTI		nd name of script file		t Daily	LAST MODIFIED BY	UPDATED AT Oct 8, 2016
⊕ Add	ordures ORDER	PROCEDUS Run Power	RE NAME shell Script Files stch updates	DESCRIPTI		nd name of acript file	Script	t Daily Daily	LAST MODIFIED BY	UPDATED AT

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.
- Click 'Save'

The changes for the procedure will be saved. The following image shows the same procedure having different schedule for different profiles.

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cript test							
port Clo		Ready To Review	Eo Approva	Decline	Delete Procedure		
eneral \	View Procedure	Schedule					
	page lists the p ile Section butto					dule, select a profile in the	Profiles section, press the Add
_	ile Section butto					dule, select a profile in the SCHEDULE	Profiles section, press the Add
Profil PROFILE NA	ile Section butto	n, select Proce			d button.		
Profil PROFILE NA [imported] fr	ile Section butto	n, select Proce			d button. Start date	SCHEDULE	FINISH DATE

To delete a script procedure

- Click 'Configuration Templates' > 'Procedures'
- 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

A confirmation dialog will be displayed.

Delete Procedure	Close
Do you really want to delete procedure «System Software Inventory»?	
Confirm	Cancel

 Click 'Confirm'. The procedure will be removed from the list as well as from the profiles on which it is deployed.

Editing a patch procedure

- Click 'Configuration Templates' > 'Procedures'
- · Click on the patch procedure that you want to modify and click 'Edit' on the top right

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Fin dept patch procedure
           ő"
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                    =0
Export
                                Delete
Procedure
          Clone
                     Run
         Execution Options Execution Log
General
  Patch procedure name
  Fin dept patch procedure
  Description
  Patch procedure for fin dept devices
  Folder
  Test Patch Procedure
  Default Alert
```

General

• Modify the procedure name, description and / or alert settings

Execution Options

- Click 'Edit'
- Modify the patch options
- Click 'Save' when done

The changes for the patch procedure will be saved.

Execution Log

• Displays the results of the patch procedure that was executed, both manually and scheduled on Windows profiles.

Schedule

To modify the patch procedure schedule, you have to edit it in the profile(s) that the procedure is deployed.

- Click 'Configuration Templates' > 'Profiles'
- · Click on the profile name that you want to modify the patch procedure

The selected profile will be displayed. Click the 'Procedure' tab and click 'Edit' at the top right.

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Finance Department Windows Computers 膨 5 Ê'n di la ÉÖ Delete Profil Make Defaul Procedures General Please specify the full path and name of script file Script Daily Oct 8, 2016 Security patch update Patch Daily Nov 12, 2016 General Procedures 🕞 Sa Add Please specify the full path and name of script file Daily Never modified Oct 8, 2016 Security patch updat Patch Daily Never modified Nov 12, 2016 3 Script test covoteewile@yah Nov 23, 2016 Scrip 4 Patch test To test my desktop covoteewile@ya Nov 23, 2016

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. Refer to the section 'Installing 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 as well as from the 'Procedures' interface. Click the following links for more details:

- Viewing script procedure results
- Viewing patch procedure results

Viewing Script Procedure Results

Script procedure logs can be viewed from two interfaces - 'Device List' and 'Procedures'.

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- Devices > Device List > Open a Windows device > Logs > Script Logs Displays results for all script
 procedures run on a selected device.
- Configuration Templates > Procedures > Open a script procedure > Execution Log Displays all devices on which the selected script procedure was run.

Script procedures results on a particular 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
 - Select 'All Devices' to view every device enrolled to ITSM
- Click on any Windows device then select the 'Logs' tab in the device details interface
- Select the 'Script Logs' sub-tab

This will open a list of all script procedures run on the device along with their status (success/failure), their start/finish time and time of last status update.

• To view the results of a particular procedure, click 'Details' in the row of the procedure name.

The 'Log Details' pane will display the specific results of the procedure.

For example, the 'Get Running Processes' results will show a list of all processes found running on the device, under the 'Statuses' tab:

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IT & Security Manager		<u>^</u>
DASHBOARD	>	
DEVICES	∠ Search group name	र 🔓 Group Management Devic
Device List	🖸 All Devices	
Bulk Installation Package	+ B ABC TV Services	Enroll Device Manage Profiles Takeover
USERS	> 👘 🖶 Chennai IT Services	
CONFIGURATION TEMPLATES	> 🕂 🖨 Coyote	OS NAME ACTIV
APPLICATION STORE	E Deer Company	🔲 🏭 💿 DESKTO 🕅
	💿 🖶 Default Company	🔲 📫 💿 LENOVO 🖪
APPLICATIONS	> 🕞 🖶 Dithers Construction C	🔲 🎬 🌒 samsung 🕅
SECURITY SUB-SYSTEMS	Horizon Herizon Herizon Herizon	
CERTIFICATES	Kanchi Customer	DESKTO
ESETTINGS	> F Sky walk	🔲 🛞 🐠 C1-Mac's 🕅
ESKTOP-HIP81N3		
vner: Dyanora		
		e .st. ?
MSI/Packages	C C Refresh Information Reboot Export Security Delete Device Configuration C Security Exported Configurations MSI Installation State Patch Ma	· · · ·
nage Profiles Takeover Install MSI/Packages illes Software Inventory File List ert Logs Monitoring Logs Script Li	Refresh Reboot Export Security Delete Device Change Configuration Delete Device Change Exported Configurations MSI Installation State Patch Ma	e Owner Change Run Procedure Ownership Type Run Procedure Inagement Antivirus Scan History Groups Log
age Profiles Takeover Install MSI/Packages iles Software Inventory File List ert Logs Monitoring Logs Script Li ROCEDURE NAME STARTED AT	Refresh Reboot Export Security Delete Device Change Configuration Delete Device Change Exported Configurations MSI Installation State Patch Ma Description Patch Logs Patch Logs STARTED BY LAUNCH TYPE EXECUTED BY FINISHE	e Owner Change Run Procedure Ownership Type Run Procedure anagement Antivirus Scan History Grouns Log ED AT STATUS LAST STATUS DETAIL
inge Profiles Takeover Install MSI/Packages iles Software Inventory File List ert Logs Monitoring Logs Script List ROCEDURE NAME STARTED AT Ila Running 2017/05/03 splication 11:46:42 AM	Refresh Reboot Export Security Delete Device Charge Configuration Delete Device Charge Exported Configurations MSI Installation State Patch Ma Logs Patch Logs STARTED BY LAUNCH EXECUTED BY FINISHE coyoteewile@yahoo.com RunOver LocalSystem 2017/05 User 11:46:43	e Owner Change Ownership Type Run Procedure anagement Antivirus Scan History Groups Log anagement STATUS LAST STATUS DETAIL 3/03 Finished 2017/05/03 Details 3/04 Success 11:46:43 AM Details 3/07 Elipiehed 2017/05/02
inge Profiles Takeover Install MSI/Packages illes Software Inventory File List ert Logs Monitoring Logs Script L ROCEDURE NAME STARTED AT Ill a Running 2017/05/03 pplication 11:46-42 AM Rt Running 2017/05/03 occesses 11:46:12 AM	Refresh Information Reboot Export Security Configuration Delete Device Change Exported Configurations MSI Installation State Patch Ma Logs Patch Logs Finishe STARTED BY LAUNCH TYPE EXECUTED BY FINISHE coyoteewile@yahoo.com RunOver LocalSystem User 2017/05 11:46:14	e Owner Change Ownership Type Run Procedure anagement Antivirus Scan History Grouns Log ED AT STATUS LAST STATUS DETAIL 5/03 Finished 2017/05/03 Details 5/03 Finished 2017/05/03 Details 5/03 Finished 2017/05/03 Details
age Profiles Takeover Install MSI/Packages iles Software Inventory File List ert Logs Monitoring Logs Script Li ROCEDURE NAME STARTED AT II a Running 2017/05/03 optication 11:46:42 AM at Running 2017/05/03 occesses 11:46:12 AM st mapped network 2017/05/02	Refresh Information Reboot Export Security Configuration Delete Device Change Exported Configurations MSI Installation State Patch Ma Logs Patch Logs Finisher STARTED BY LAUNCH TYPE EXECUTED BY FINISHE coyoteewile@yahoo.com RunOver LocalSystem 2017/05 coyoteewile@yahoo.com BunOver LocalSystem 2017/05	e Owner Change Ownership Type Run Procedure anagement Antivirus Scan History Groups Log anagement Antivirus Scan History Groups Log anagement STATUS LAST STATUS DETAIL ADAT STATUS LAST STATUS DETAIL ADAT STATUS 2017/05/03 Details ADA Success 11:46:43 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DETAIL
age Profiles Takeover Install MSI/Packages illes Software Inventory File List ert Logs Monitoring Logs Script List toCEDURE NAME STARTED AT I a Running 2017/05/03 uplication 11:46:42 AM t Running 2017/05/03 ocesses 11:46:12 AM	Refresh Information Reboot Export Security Configuration Delete Device Change Exported Configurations MSI Installation State Patch Ma Logs Patch Logs FINISHE STARTED BY LAUNCH TYPE EXECUTED BY FINISHE coyoteewile@yahoo.com RunOver LocalSystem User 2017/05 11:46:14 coyoteewile@yahoo.com RunOver LocalSystem User 2017/05 11:46:14	e Owner Change Ownership Type Run Procedure anagement Antivirus Scan History Groups Log anagement Antivirus Scan History Groups Log anagement STATUS LAST STATUS DETAIL ADAT STATUS LAST STATUS DETAIL ADAT STATUS 2017/05/03 Details ADA Success 11:46:43 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA Success 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM Details ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DEtails ADA SUCCESS 11:46:14 AM DETAIL
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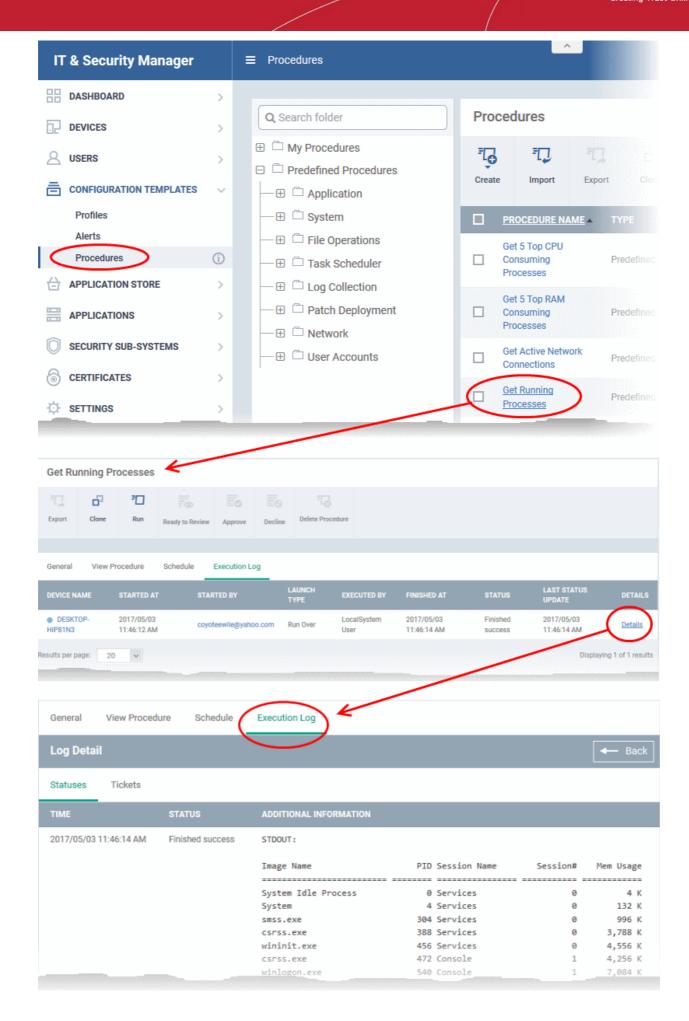
The 'Tickets' tab lists tickets which were created as a result of a failed procedure. Clicking the ticket link will
open the ticket in service desk.

Results of a selected script procedure run on all the devices

- Click 'Configuration Templates' > 'Procedures'.
- Click the name of the script 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.
- To view the results of the procedure on a particular device, click 'Details' in the row of the device.
- The 'Log Details' pane will display the specific results of the procedure. For example, the 'Get Running Processes' results will show a list of all processes that were found running on the device by the script, under the 'Statuses' tab.

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The 'Tickets' section lists tickets which were created as a result of a failed procedure. Clicking the ticket link
will open the ticket in service desk.

Viewing 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 procedures results on a particular 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
 - Select 'All Devices' to view every device enrolled to ITSM
- Click on any Windows device then select the 'Logs' tab in the device details interface
- Select the 'Patch Logs' sub-tab

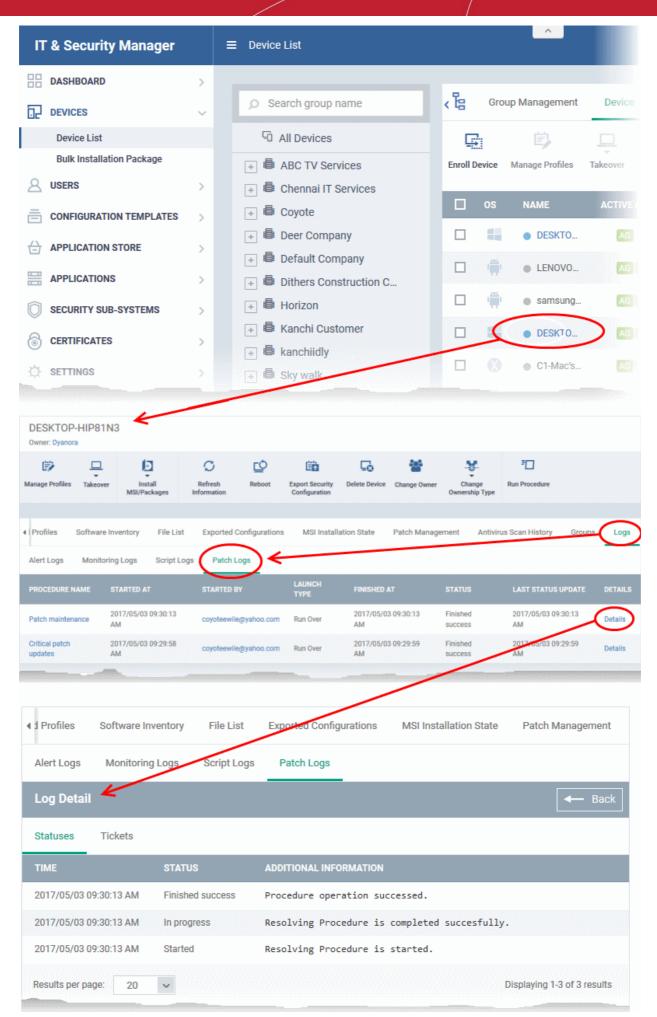
This will open a list of all patch procedures run on the device along with their status (success/failure), their start/finish time and time of last status update.

• To view the results of a particular procedure, click 'Details' in the row of the procedure name.

The 'Log Details' pane will display the specific results of the procedure under the 'Statuses' tab:

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• The 'Tickets' tab displays a list of lists tickets which were created as a result of a failed procedure. Clicking the ticket link will 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.
- To view the results of the procedure on a particular device, click 'Details' in the row of the device.
- The 'Log Details' pane will display the specific results of the procedure. For example, the 'Get Running Processes' results will show a list of all processes that were found running on the device by the script, under the 'Statuses' tab.

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IT & Security Manager		License Options
Image: Security Mailager Image: DashBoard Image: Devices	Procedures Application File Operations File Collection Description	Procedures Import Import Export Clone PROCEDURE NAME TYPE Critical patch updates Predefined Patch maintenance Predefined Security patch updates
HIP81N3 09:29:58 AM -	iontrol Schedule Execution Log	Updates Understand STATUS LAST STATUS UPDATE Finished 2017/05/03 09:29:59 M Success 2017/05/03 09:29:59 M Finished 2017/05/03 09:29:59 M Details 2017/05/03 09:29:59 M
General Execution Options Res Log Detail Image: Constraint of the second option of the second option o	Start Centrol Schedule Execution Lo ADDITIONAL INFORMATION	og d. eted succesfully. ed.
Results per page: 20 🗸		Displaying 1-3 of 3 results

• 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.

ITSM provides visibility and control to administrators over applications installed on user devices.

The 'Applications' tab allows the administrator to:

- View all applications installed on enrolled Android and iOS devices and block any malicious applications that are identified. Once blacklisted, the application will not be allowed to run on any device(s) on which it is installed.
- View a constantly updated list of patches available for managed Windows devices and install selected patches on to the devices.

IT & Security Manager			Mob	ile Appli	cations	License Options	•	0	名 Logout	Logout (coyoteewile@yahoo.com)		
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The following sections explain in more detail on:

- Viewing Applications Installed on Android and iOS Devices
 - Blacklisting and Whitelisting Applications
- Installing OS Patches On Windows Endpoints

7.1. View Applications Installed on Android and iOS Devices

The 'Mobile Applications' interface displays a list of all applications identified from all enrolled Android and iOS devices with details like their package name and number of devices on which the app is found. Administrators can determine authenticity of the applications and blacklist the applications deemed to be malicious, suspicious or not trustworthy. The blacklisted apps can be immediately blocked in the devices upon which they are installed and prevented from being installed on to other devices in future.

 To access the 'Mobile Applications' interface, click the 'Applications' link on the left then choose 'Mobile Applications' from the options.

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llack List	Remove from Black List	Push List to All Devices		
OS		PACKAGE	NUMBER OF DEVICES -	VERDICT
	AccuWeather	com.accuweather.a	1	Allowed
-	App Lock	com.comodo.cism	1	Allowed
)	Authenticator	com.google.androi	1	Allowed
-	Backup	com.comodo.cism	1	Allowed
ıЩı	C1 Mobile	com.comodo.one	1	Allowed
١.	Device ID	com.redphx.deviceid	1	Allowed
-	Drive	com.google.androi	1	Allowed
	ES File Explorer	com.estrongs.andr	1	Allowed

	Mobile Applications interface - Column Descriptions										
Column Heading	Description										
OS	Indicates OS type of the app.										
Name	Name of the application.										
	Clicking the name of an application opens the ' Devices ' interface with a list of only those devices on which the app is installed, enabling the administrator 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	Indicates the number of devices on which the app is installed currently.										
Verdict	Indicates whether the application is allowed or blacklisted.										

Sorting, Search and Filter Options

- Clicking on any of the column header sorts the items based on alphabetical order of entries in that column.
- Clicking the funnel button **T** at the right end opens the filter options.

СОМОДО

ріст	os
wed	Android
wed	ios
wed	Name
wed	Package
wed	
wed	Number of devices
wed	Verdict
wed	Allowed Blocked
unad	

- To filter the items or search for a specific app based on the app name and/or its package name, enter the search criteria in part or full in the respective text boxes and click 'Apply'.
- To filter the items based on OS types, select the OS types.
- To filter items based on number of devices on which it is installed, enter the number in the 'Number of Devices' field and click 'Apply'.
- · To filter the items based on their blacklist status, select the state under Verdict'

You can use any combination of filters at-a-time to search for specific apps.

- To display all items again, remove / deselect the search key from filter and click 'OK'.
- By default ITSM 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.

Refer to the next section **Blacklisting and Whitelisting Applications** for explanation on moving malicious or unwanted apps to blacklist.

7.1.1. Blacklist and Whitelist Applications

ITSM allows administrators to view a list of applications identified on all enrolled mobile devices and to review their trustworthiness. If a suspicious or malicious application is identified then it can be moved to the blacklist. This will block the application on all devices and prevent 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' tab from left and choose 'Mobile Applications' from the options.
- Select the apps to be black listed.

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Add T	To Black List	Remove From Black List	Push List To All Devices		٣
	OS	NAME 🔺	PACKAGE	NUMBER OF DEVICES -	VERDICT
	1 T	Facebook	com.facebook.katana	1	Allowed
) IIII - IIII br>IIII - IIII - IIII - IIIII - IIIII - IIIII - IIIII - IIII - IIII - IIII - IIIII - IIIII - IIIII - IIIIII	Jio4GVoice	com.jio.join	1	Allowed
	-	Му Кпох	com.sec.enterprise.knox	1	Allowed

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 the 'Add to Black List' from the top.

A confirmation dialog will appear.

Add to Black List	×
Do you really want to blacklist selected applications?	
	Confirm Cancel

• Click 'Confirm'.

The selected apps will be added to the 'Black List' and their status will change to 'Blocked'

• To block the apps immediately in the devices on which they are currently installed, click 'Push List to All Devices' from the top.

Unblocking Blacklisted Apps

If an application is moved to blacklist by mistake or if an application previously blacklisted appears to be a genuine or trustworthy, the administrator can remove it from the blacklist and allow the application to be installed or run on the devices.

To remove trustworthy apps from blacklist

- Click 'Applications' from the left and choose 'Mobile Applications' from the options.
- Select the apps with 'Blocked' status, to be whitelisted.

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Add 1	Add To Black List Remove From Black List		Push List To All Devices		Ţ
Ο	OS	NAME 🔺	PACKAGE	NUMBER OF DEVICES -	VERDICT
	ιΨ.	Facebook	com.facebook.katana	1	Allowed
	- militaria	Jio4GVoice	com.jio.join	1	Blocked
	1	Му Кпох	com.sec.enterprise.knox	1	Allowed
Resul	ts per paç	ge: 20 🗸			Displaying 1-3 of 3 results.

• Click 'Remove From Black List' at the top.

The status of the apps will change to 'Allowed'.

• If you want the changes to take effect immediately, click 'Push List to All Devices'.

7.2. Patch Management

- The 'Patch Management' area lets you install OS updates and patches for 3rd party applications on managed Windows devices.
- By default, all available patches are displayed. You can filter patches by company and device group.

Tip: As an alternative, you can apply patches to individual devices from the 'Device Management' interface. Click 'Devices' > 'Device List' > 'Device Management' > *Open a device* > Click 'Patch Management'. See 'Viewing and Installing Windows and 3rd Party Application Patches' to find out more.

To open the 'Patch Management' interface

Click 'Applications' > 'Patch Management':

IT & Security Manager		Patch Management / Operating System								6	O Logo	ut (kamal⊚yopm	ail.com
B DASHBOARD	> >	₽ Search group name	, ^{Be}	Operating Sy		'hird Party Appli							
CONFIGURATION TEMPLATES	>	96 Show all			Rig Parceloles) s	State Parathices)	Export				Show hidden patch(e	0fF	о т
APPLICATION STORE APPLICATIONS	>			TITLE	KD	DULLETIN	CLASSIFICATION	PRODUCT	SEVERITY	REBOOT	NOT INSTALLED	INSTALLED	RELEA
Mobile Applications Patch Management SECURITY SUB-SYSTEMS SETTINGS	>		•	Security Update for Windows Server 2008 RZ x54 Edition (KB3004375)	3004375		Security Update	Windows Server 2008 R2	Unspecified	Naybe	1	0	2015/
QP SETTINGS	>	🕐 👼 Xcellent Copiers	•	Update for Windows Server 2008 R2 x64 Edition (KB3006137)	3006137		Update	Windows Server 2008 R2	Unspecified	Maybe	1	0	2015/
				Security Update for Windows Servir 2008 R0x64 Forces		M515-624	Security Update	Windows Server 2008 R2	Important	Maytai	1	O	2015/

The interface contains two tabs:

Operating System - All OS patches available for deployment through ITSM. 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 allows you to install selected patches

on all managed devices. You can also generate a report on current patch statuses. See **Install 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 'ITSM Supported 3rd Party Applications' to view a list of supported applications.

View patches by company / device group

The tree structure on the left shows all enrolled organizations and device groups:

Patch Manag	ement / Operating System						
		_					
₽ Search g	group name	1	، ه	Opera	ting Sys	stem	Thi
면 Show	all		8	<u>0</u>	8		
+ 🖨 ARR			Install F	Patch(es)	Hide P	atch(es)	Unh
+ 🖶 Backt	bay Enterprises						
+ 🖶 Defau	It Company			TITLE		KB	
+ 🖶 Electr	osteel Inc.						
🕂 🗟 Electr	oz tech			Security Update			
🕂 🗟 kama	I			Window Server 2		300437	75
+ 🖥 Parth	iban			R2 x64 Edition			
+ 🖶 Road	Runner Inc.			(KB3004	4375)		
+ 🖶 Xcelle	ent Copiers			Update	for		
				Window	S		
				Server 2	8008	300613	37

- 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. Install OS Patches on Windows Endpoints

The 'Operating System' tab lets you deploy OS updates to all or specific managed Windows devices ('Applications' > 'Patch Management' > 'Operating System' tab).

• ITSM checks Microsoft update servers for available Windows patches and lists them in the interface. You can deploy patches to devices which require them.

- 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 generate a report of the current patch statuses for the devices.

To open the Operating System interface

- · Click 'Applications' on the left and choose 'Patch Management' from the options
- Select the 'Operating System' tab

The interface will list all available OS patches and updates for managed Windows endpoints:

۶ <mark>6</mark>	Operating System Third Party Applications									
S Install P	atch(es) Hide Patch(es) Unhide Patch(es) Export								Show hidden patch	C (m) (N) (m)
	TITLE	кв	BULLETIN	CLASSIFICATION	PRODUCT	SEVERITY	REBOOT	NOT INSTALLED	INSTALLED	RELEASE DATE
	Security Update for Windows 7 (KB2770560)	2770660	MS12-082	Security Update	Windows 7	Important	Maybe	0	1	2014/08/12 05:30:00 AM
	Security Update for Windows 8 for x64-based Systems (KB3022777)	3022777	M\$15-005	Security Update	Windows 8	Important	Maybe	0	2	2015/01/13 05:30:00 AM
	Update for Windows 8 for x64-based Systems (K89043812)	3043812		Update	Windows 8		Maybe	0	2	2015/05/12 05:30:00 AM
	Update for Windows Server 2008 R2 for x64-based Systems (KB3024777)	3024777		Critical Update	Windows Server 2008 R2	Unspecified	Maybe	0	1	2014/12/11 05:30:00 AM
	Security Update for Windows 8 for x64-based Systems (KB3102939)	3102939	MS15-120	Security Update	Windows 8	Important	Maybe	0	2	2015/11/10 05:30:00 AM
	Security Update for Windows 8 for x64-based Systems (K82727528)			Security Update	Windows 8	Critical	Maybe	D		2012/11/13 05:30:00 AM

Patch Management Table - 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 problem but not a 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 - Upgrades the Windows OS version on the endpoint to the latest build.
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 Viewing 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 Installing 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 Viewing 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 Installing a patch on selected endpoints for more details.
Release Date	The date on which the patch was released by Microsoft.
	Controls

Install Patch	Allows you to install the patches/updates.
Hide Patch	Allows you to hide selected patches that you do not want to be deployed onto enrolled endpoints. 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	Allows you to unlock hidden patches.
Show hidden patch(es)	Allows you to view the hidden patches and if required you can install these hidden patches onto endpoints. Use the toggle button to hide / view hidden patches.
Export	Generate current patch statuses for the devices. See Generate Patch Statuses Report.

• 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
- Search specific patches in the Patch Management interface
- Generate Patch Statuses Report

View Details of a Patch

- Click a company name on the left to view all patches for all device groups in the company.
- Click '+' beside a company to view its device groups
- Click a device group name to view patches for devices belonging to the group
- Click the name of any patch to open its patch details screen.

Operating System Third Party Applications 8 Ľ Install Patch(es) Hide Patch(es) Unhide Patch(es) Export TITLE KB BULLETIN CLASSIFICATION Definition Update for Windows Defender Antivirus -2267602 Definition Update KB2267602 (Definition 1.263.565.0) Feature update to Windows 10, version 1709 4088776 Upgrades 2018-03 Security Update for Adobe Flash Player for Windows 10 Version 1709 for x64-based Systems 4088785 Security Update (KB4088785) 2018-03 Security Update for Adobe Flash Player for Definition Update for Windows Defender Antivirus - KB2267602 (Definition 1.263.565.0) General Vendor Supercedes Bulletin CVE IDs Device List File name Definition Update for Windows Defender Antivirus - KB2267602 (Definition 1.263.565.0) Version Not set Vendor severity **Release date** 2018/03/15 KB 2267602 Description Install this update to revise the definition files that are used to detect viruses, spyware, and other potentially unwanted software. Once you have installed this item, it cannot be removed.

The complete details of the patch are displayed under five tabs:

- **General** Displays 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 Displays the information on previous patches that are superseded by the 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 the explanation of Installing 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)

· Select the patch(es) you want to hide and click 'Hide Patch'

، Ъ	Operating Sy	stem Th	nird Party Appli	ications				
	- (Patch(es) Un	kide Patch(es)		Selected patch(hidden.	es) were succ	essfully	Show hidde
	TITLE	КВ	BULLETIN	CLASSIFICATION	PRODUCT	SEVERITY	REBOOT	NOT INSTA:
	Update for Windows 8 for x64- based Systems (KB3058163)	3058163		Update	Windows 8		Maybe	
	Update for Windows 8 for x64- based Systems (KB3058168)	3058168		Update	Windows 8		Maybe	
	2017-09							

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

• 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'

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8	ating System Third Party Applications		elected patch(nhidden.	es) were successfully	1			Sh	ow hidden patch(e	
	TITLE	KB	BULLETIN	CLASSIFICATION +	PRODUCT	SEVERITY	REBOOT	NOT INSTALLED	INSTALLED	RELEASE DATE
\wedge	2017-08 Cumulative Update for Windows 10 Version 1607 for x64-based Systems (K84034658)	4034658		Security Update	Windows 10	Critical	Maybe	1	0	2017/08/08 05:30:00 AM
	Windows Malicious Software Removal Tool x64 - February 2018 (KB990B30)	890830		Update Rollup	Windows 10, Windows 10 LTSB		Maybe	0	1	2018/02/13 05:30:00 AM
	Windows Malicious Software Removal Tool x54 - March 2018 (K8890830)	890830		Update Rollup	Windows 10, Windows 10 LTSB		Maybe	1	1	2018/03/13 05:30:00 AM

A confirmation message will be displayed. The patches will be re-added to the list.

Install patch(es) on all managed endpoints at-once

• Select the patch(es) to be installed from the list and click 'Install Selected Patch'

Oper	ating System Third	Party Applications					
1	Patch(es)	Unhide Patch(es)	Export				
	ТПЕ			КВ	BULLETIN		
	2017-08 Cumulative Upd for x64-based Systems (Version 1607	4034658		Security Update	
	Windows Malidious Soft 2018 (KB890830)	ware Removal Tool x	(64 - March	890830		Update Rollup	
	Patch(es) se queue.	uccessfully addec	l to install				

A confirmation message will be displayed. The command will be sent and the selected patch(es) will be installed on the endpoint(s).

Install a patch on selected endpoints

• Click the number in the 'Not Installed' column of the patch you want to install.

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Oper	ating Syst	em Third	Party Applications								
	<u>.</u>	83	23								
Install F	Patch(es)	Hide Patch(es)	Unhide Patch(es)							Sh	ow hidden patch
	TITLE			KB▼	BULLETIN	CLASSIFICATION	PRODUCT	SEVERITY	REBOOT	NOT INSTALLED	INSTALLED
		s Malicious Soft 3890830)	ware Removal Tool x64 - Mar	rch 890830		Update Rollup	Windows 10, Windows 10 LTSB		Maybe	6	1
	Window 2018 (Ki		ware Removal Tool x64 - Feb	ruary 890830		Update Rollup	Windows 10, Windows 10.1TSB		Mayb	0	1
w	/indov	ws Malio	cious Softwar	e Remova	il Tool x(64 - March	2018 (KI	3890830)			
Ge	enerai	Vend	dor Superce	edes Bu	ulletin	CVE IDs	Device Li	st			
$\left(\right)$	8 % II	nstall Patc	h				\smile				
		DEVICE	NAME	OWNER	NAME		COMPANY			INSTALL	ED
		DESKTO	P-B0U55J0	avantistu	de@gmail.	com	ABC TV Ser	vices		Yes	
(DESKTO	P-D10L0H4	Dyanora			Dithers Con	struction Co	mpany	No	

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 on the devices.

Search specific patches in the Patch Management interface

- Click the funnel icon I 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'.
- By default ITSM 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

You can generate a report on the patch status of devices in your network. The report will be available for download in CSV format in 'Dashboard' > 'Reports'.

- Click 'Applications' > 'Patch Management'
- Click 'Export' at the top.

Operating Sy	stem Third	Party Applications	3	
Install Patch(es)	Hide Patch(es)	Unhide Patch(es)	Export	
	E		Export to	CSV
	rity Update for Win	dows Server 2008 I	R2 302	1674 MS15-003

A confirmation message will be shown:

Report has been created. Please, check «<u>Reports</u>» in dashboard

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' on the left then 'Patch Management'
- Select the 'Third Party Applications' tab:

, ដ Operating System Third Party Applications \mathcal{O} 82 83 8 Install Patch(es) Hide Patch(es) Unhide Patch(es) Show hidden patch(es) OFF Y INSTALLED DEVICES UPGRADABLE DEVICES -NAME VENDOR CATEGORY Google Chrome Google Inc. Web Browsers 3 3 Mozilla Firefox Mozilla Web Browsers 3 1 GlavSoft LLC. Other TightVNC 1 1 Skype Skype Technologies S.A. Messaging 1 VNC Viewer RealVNC I td Other 1 1

- The interface lists all 3rd party applications on managed endpoints that require updates
- 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 patches to devices belonging to specific company\device group:
 - Click a company name on the left to view all patches for all device groups in the company
 - Click '+' beside a company to view its device groups
 - Click a device group name to view patches for devices belonging to the group
- 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	 Name 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.
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 T on the right to search for applications by name, vendor and/or category.
- See 'ITSM 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 a company name on the left to view all patches for all device groups in the company.
- Click '+' beside a company to view its device groups
- Click a device group name to view patches for devices belonging to the group
- Click the name of any application to open its application details screen

C Op	perating System	hird Party Applications			
8≩	83	82			
stall Patch	n(es) Hide Patch(es)	Unhide Patch(es)		Show hidden pate	h(es)
	AME	VENDOR	CATEGORY	INSTALLED DEVICES	UPGRAD ABL
	Google Chrome	Google Inc.	Web Browsers	3	3
	Mozilla Firefox	Mozilla	Web Browsers	3	1
Application Name Google Vendor Google	e Chrome r e Inc.	List			
	ory				

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

• Select the application(s) to be hidden from the list and click 'Hide Patch(s)'

រ រ រ	Operating System	Third Party Applications	Selected p	patch(es) were successf	ully
	atch(es) Hide Patch(es)	Unhide Patch(es)		Show hidden patcl	n(es) C
	NAME	VENDOR	CATEGORY	INSTALLED DEVICES	UPGRADABLE
	VNC Viewer	RealVNC Ltd	Other	1	1
	TightVNC	GlavSoft LLC.	Other	1	1
	Skype	Skype Technologies S.A.	Messaging	1	1
	N-to-	Notereduction	Descusion	1	

A confirmation message will be displayed. The selected applications will be 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

• 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)'

، گ		Third Party Applications	Selected	l patch(es) were su n.	ccessfully
	Patch(es) Hide Patch(es)	Unhide Patch(es)	•	Show hidden patch(e	
	NAME	VENDOR	CATEGORY	INSTALLED DEVICES	UPGRADABLE DEVICES
	VNC Viewer	RealVNC Ltd	Other	1	1
	TightVNC	GlavSoft LLC.	Other	1	1
	Skype	Skype Technologies S.A.	Messaging	1	1
	Notepad++	Notepad++ Team	Documents	1	1
	Mexille Firefox	Mozilla.	Web Browsers	3	1

A confirmation message will be displayed. The applications will be re-added to the list.

Update Selected Applications on All Upgradable Devices at once

• Select the application(s) to be updated, click 'Install Patch(es)' and choose 'Update to Latest Version'

, ¹ 19	Operating System	Third Party Applications		and «Update to the Latest sfully sent	Version»
Install	Patch(es) Hide Patch	(es) Unhide Patch(es)		Show hidden pate	h(es) ON
Upd	late to the Latest V	ersion	CATEGORY	INSTALLED DEVICES	UPGRAD ABLE
	VNC Viewer	RealVNC Ltd	Other	1	1
	TightVNC	GlavSoft LLC.	Other	1	1
	Skype	Skype Technologies S.A.	Messaging	1	1
	Notepad++	Notepad++ Team	Documents	1	1

A command will be sent to Comodo Client Communication (CCC) on the devices to commence the update.

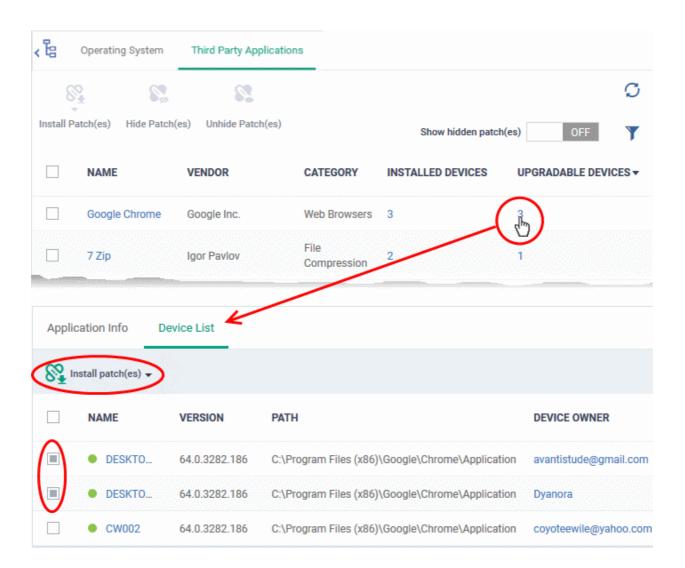
- Once the command is received, CCC will check whether the update has already been downloaded by other devices in the network.
 - If the update is available, CCC establishes a peer-to-peer network with the device and downloads the patch. This reduces bandwidth usage as the update is downloaded from the local network.

If the update is not available on any devices in the local network, CCC downloads the update from the ITSM patch portal.

Update an Application on Selected Devices

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Click the number in the 'Upgradable Devices' column of the application to be updated



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 will be sent to Comodo Client Communication (CCC) on the devices to commence the update.

 Once the command is received, CCC will check whether the update has already been downloaded by other devices in the network.

- If the update is available, CCC 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, CCC downloads the update from the ITSM patch portal.

7.2.2.1. ITSM Supported 3rd Party Applications

The following table provides the names of third party applications that can be updated on enrolled Windows endpoints:

- 7-Zip (32-bit)
- . 7-Zip (64-bit)
- Adobe Acrobat Reader DC
- Adobe Flash Player ActiveX
- Adobe flash player NPAPI
- Adobe ShockWave Player
- BeyondCompare
- ccleaner
- ccleanerpro
- **Citrix Group Policy** Management
- **Combined Community** Codec Pack 32 bit
- **Combined Community** Codec Pack 64bit
- HipChat
- Citrix Receiver
- cutepdfwriter
- Cyberduck
- Defraggler
- FastStone Image Viewer
- FileZillaClient (32-bit)
- FileZillaClient (64BIT)
- Foobar
- Foxit Reader
- FrontMotion Firefox Community Edition (en-US)
- FrontmotionFirefoxCommun ityEdition ESR
- GIMP 32bit
- GIMP 64 BIT
- **Glary Utilities**

- EPI
- Evernote
 - FashStoneImageViewer
- goodsync .
- collagelt .
- Editpadlite32bit
- Editpadlite64bit
- FreeArc
- ietclean
- PDF24 Creator
- Pdf -Viewer
- Safari
- zoom
- vncviewer32bit
- Dymo Label
- Adobe AIR
- AIMP .
- keepasspasswordsafe2
- keepasspasswordsafe1
- Trillian32bit
- **TED Notepad** .
- Renweb
- poedit
- PDF-XChange Editor 32bit .
- PDF-XChange Editor 64bit
- emuletorrent
- wisediskcleaner
- CrystalDiskInfo •
- TreeSize Free V4.0.3
- KerioControlVPNClient 32bit
- **PKZip**

- Auslogics Duplicate File Finder
- Auslogics Registry Defrag
- Smart Defrag •
- NoteTab Light
- Slik Subversion (x86)
- Slik Subversion (x86) •
- BitLord •
- Kingsoft Office 2013
- Autolt
- FreeFixer
- Duplicate Cleaner Pro
- Pale Moon (x86 en-US)
- Pale Moon (x64 en-US) •
- Sandboxie (32-bit) 5.2 •
- MPC-HC 1.7.13 (32-bit)
- MPC-HC 1.7.13 (64-bit)
- Zotero
- **PICAXE Editor**
- NoMachine •
- Ant Movie Catalog •
- Ant Renamer .
- QTranslate
- **EPIM-Outlook Sync**
- GlassWire
- Universal Extractor .
- Reflector 64 bit •
- Screenpresso •
- IE7Pro
- **D&D** Interceptor
- Unlocker

- GOM Player
- Google Drive
- ImgBurn
- InfranView32bit
- InfranView64bit
- IZArc
- JDK 32 bit
- JDK 64BIT
- JRE 32BIT
- JRE 64BIT
- KeePass Password Safe 1
- KeePass Password Safe 2
- K-Lite Codec Pack Basic
- K-Lite Codec Pack Full
- K-Lite Codec Pack Standard
- K-Lite Mega Codec Pack
- LibreOffice (32-bit)
- LiberOffice (64BIT)
- Malwarebytes
- MediaMonkey
- Microsoft Silverlight 32bit
- Microsoft Silverlight 64bit
- Mozilla Firefox (32-bit)
- Mozilla Firefox (64-bit)
- Mozilla Firefox ESR
- Mozilla Thunderbird
- MozyHome
- Notepad++ (32-bit)
- Oracle VM Virtualbox
- Operastable
- OpenOffice
- paint.net 32bit
- PeaZip (32-bit)
- PeaZip 64BIT
- Putty (32-bit)
- Putty 64BIT
- Recuva

- Jitsi32 bit
- Notepad++ (64-Bit)
- UltraVnc32bit
- Krita (x86)
- Google Earth pro
- Visual Studio Code 32bit
- Visual Studio Code 64 bit
- Zimbra Desktop
- Google earth
- HipChat
- Xmind
- snagit(windows 10 only supported)
- CDBurnerXP 32 bit
- CDBurnerXP 64 bit
- Flashget
- grepwin 64 bit
- Irfan view 64 bit
- jetclean
- Microsoft AntiXSS v4.3.0
- plex media server 32 bit
- spybot
- Musicbee
- Foxit phantom pdf
- bluebeam vu
- Zimbra Desktop
- windows phone app for desktop
- Tortoise git 32 bit
- Seamonkey 64 bit
- microsoft visual C++ 32 bit
- Microsoft Visual Studio
 Code
- krita (64bit)
- Free RAR Extract Frog
- vnc viewer 64 bit
- mediainfo
 - winsnap

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Microsoft Power BI Desktop

- Globalmapper
- tekla BIMsight 32 bit

сомодо

- Reflector
- tekla BIMsight 64 bit
- npassword
- Maxthon Cloud Browser
- arallelsClient-64 bit
- PNotes.net
- AppInventor Setup
- netbeansIDE 8.2
- Avs media player
- dual monitor tools
- MozyPro
- Zoom player max 14
- pcon-planner 32 bit
- pcon-planner 64 bit
- AVS documentconvertor-4.0.3.252
- HttpWatch basic
- advanced installer
- RD Tabs 32 bit
- RD Tabs 64 bit
- Hard copy pro
- crashplan 32 bit
- EncryptOnClick
- Exact audio copy

Microsoft visual studio code

HelpNDoc 5.4.1.404

VitalSource Bookshelf

Adblock Plus for IE (32-bit)

698

adobe digital edition

vnc enterprise edition

crash plan 64 bit

DU Meter

Printkey -pro

Personal Edition

• DC++

•

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•

x64

- SeaMonkey •
- Skype
- Speccy
- SugarSync
- SumatraPDF (32-bit)
- SumatraPDF- 64 bit
- TeamViewer .
- TeraCopy .
- Libreoffice

- (32 bit)
- R for Windows
- Druva inSync
- BitComet
- anydvd .
- mumble .
- active presenter .
- netsetman
- Avant Browser

- AnkhSVN 32 bit •
- Uninstall DisplayCAL •

Creating Trust Online

- AVS Media Player .
- VNC Enterprise Edition •
- AVS Image Converter
- Synology Surveillance • Station Client 32 bit
- Kerio Outlook Connector •
- SciTE Text Editor
- SciTE Text Editor 64bit •

- Logitech Setpoint
- LogMeinHemachi
- TightVNC (32-bit)
- TightVNC (32-bit)
- VLC media player (32-bit)
- VLC media player (64-bit)
- VNC Server (32-bit)
- Wise Force Deleter (No Arch)
- Winamp
- WinMerge
- WinRAR (32-bit)
- WinRAR (64-bit)
- WinSCP
- WinZip (32-bit)
- WinZip (64-bit)
- Wireshark (32-bit)
- Wireshark -(64-bit)
- XnView
- XnConvert (32-bit)
- XnConvert (64 bit)
- FileZilaClient
- PDFsamBasic
- realvnc64 bit
- irfanview32bit
- classicshell
- qbittorrent32bit
- gbittorrent64bit
- wisefolderhider
- grepwin32bit
- wisecare365
- RJ Text edit 32bit
- RJ Text edit 64 BIT

- AirServer Universal (x64)
- AirServer Universal (x32)
- Mp3tag
- Calibre(x32)
- Calibre(x64)
- owncloud
- Media Player Classic Home
 (x32)
- Media Player Classic Home
 (x64)
- exacqVision Client 8.6.1.115131 (x64)
- exacqVision Client
 8.6.1.115131 (x32)
- Miranda IM 32bit
- WinHTTrack Website Copier 32bit
- WinHTTrack Website Copier
 64bit
- Microsoft PowerPoint
 Viewer
- pot player 32bit
- WinDjView
- FastStone Capture
- Honeycam
- Bandizip
- Honeyview
- Syncbackfree
- Plantronics Hub Software
- Mozilla Firefox ESR (x64 en-US)
- Auslogics Browser Care
- Auslogics Registry Cleaner

Duplicate cleaner pro

сомодо

- VNC Enterprise Edition
- Synology Surveillance Station Client 64bit
- MySQL Workbench 6.3
- cabos
- jing
- iReport
- Rstudio
- LogMeIn Hamachi
- Compatibility Pack for the 2007 Office system
- Foxit Advanced PDF Editor
- Microsoft SQL Server 2008 R2 Native Client
- MySQL Connector 6.1.11
- Apple Mobile Device
 Support
- Spiceworks Desktop
- LogMeIn Client
- Jabra Direct
- IIS(32 and 64 bit)
- Apple Software Update 2.4.8.1
- Tsprint client
- Microsoft Web Deploy
- PDFTools Version
- Synology Surveillance
 Station Client
- synology survivellance
- Vulkan Run Time Libraries
- audacity 64 bit
- paint.net32 bit
- audacity 32 bit

- 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 and ITSM will automatically fetch app details. The device owner will be taken to the Google Play page/App Store page to download and install the app.
 - **Custom 'Enterprise' applications** You can also upload your own .apk (Android) or .ipa (iOS) files to the app store. The agent on the device will collect the app from ITSM and install 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. New
 apps awaiting installation can be viewed in the 'App Store' interface of the ITSM agent.

Windows Applications

- ITSM 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.

IT & Security Manager		≡ >	> Windows Application Store		©	Logout (kamal@yopmail.com)
B DASHBOARD	>		84			O
DEVICES	>		stall Selected splication(ex)			т
A USERS	>		TITLE	APPLICATION CATEGORY	VENDOR	INSTALLED DEVICES
CONFIGURATION TEMPLATES	>					
APPLICATION STORE	\sim] 7 Zlp	File Compression	Igor Pavlov	3
iOS Store			Adobe Acrobat Reader DC	Documents	Adobe Systems Incorporated	0
Android Store			Adobe AIR	Developer Tools	Adobe Systems	0
Windows Application Store		26	Adobe Flash Player ActiveX	Other	Adobe Systems	· · · · · · · · · · · · · · · · · · ·
APPLICATIONS	>				Annue ayorenie.	
SECURITY SUB-SYSTEMS	5		Adobe Flash Player NPAPI	Other	Adobe Systems	0
		ji 🗆	Adobe Flash Player PPAPI	Other	Adobe Systems	0
SETTINGS	`		Adobe Shockwave Player	Utilities	Adobe Systems	0
] AIMP	Utilities	AIMP DevTeam	1

The following sections contain more details on each app type:

- iOS Apps
 - Adding iOS Apps and Installing them on Devices
 - Managing iOS Apps
- Android Apps
 - Adding Android Apps and Installing them on Devices
 - Managing Android Apps
- Windows Apps
 - Install Windows Apps on Devices

8.1.iOS Apps

- Click 'Application Store' in the left-menu then choose 'iOS Store'.
- The iOS store area contains all available iOS apps that have been uploaded to ITSM. You can deploy selected apps to all managed devices or specific devices.
- You can add new apps from the Apple store and/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.

Ė	ia (A)	4	5				C
	terprise Add App St ication Application		vices Delete Application				Ŧ
	NAME	TYPE	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
	Dropbox	iOS App Store	com.getdropbox.Dropbox	Smartphone, Tablet	Free	Yes	2017/05/03 02:43:10 PM
	Talking Babies	iOS App Store	com.appminis.talkingbabies	Smartphone, Tablet	Free	No	2017/05/03 02:42:02 PM
	Wooden Labyrinth	iOS Enterprise	com.labyrinth.wooden	Smartphone, Tablet	Enterprise	No	2016/07/27 04:15:03 PM
	ITSM	iOS App Store	com.comodo.cmdm.client	Smartphone, Tablet	Free	Yes	2015/04/28 04:36:13 PM
	er page: 20 🗸						Displaying 1-4 of 4 results

'iOS App Catalog' - Column Descriptions						
Column Heading	Description					
Name	The name of the application. 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 Managing 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 an internal id used by Apple to identify apps.					
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 'Adding iOS Apps and Installing them on Devices' for more details.					
Added	The date and time at which the app was added to repository.					

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.



			T
Name		\swarrow	
Name			
Туре			
Google Play	Store		
Android Ente	erprise		
Application ID			
Application ID			
Supported devic	85		
Smartphone			
Tablet			
Smartphone	, Tablet		
License type			
Free			
Paid			
Enterprise			
Mandatory			
Ves 1			
No			

- To filter the items or search for a specific app based on the app name and/or its application ID, enter the search criteria in part or full in the respective text boxes and click 'Apply'.
- To filter the items based on their application type, select the criteria under 'Type'
- To filter the items based on type of devices on which they can be installed, select the device type from 'Supported Devices'
- · To filter the items based on license type, select the criteria from 'License Type'
- To view only mandatory or only optional apps, select the respective type from 'Mandatory' options.

You can use any combination of filters at-a-time to search for specific apps.

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- By default ITSM 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.

The following sections explain in detail on:

- Adding iOS Apps and Installing them on Devices
- Managing 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

- You can add an app to ITSM by simply specifying its name as shown in the Apple app store.
- Just enter first few letters of the app in the name field. ITSM will search for matching apps from the store. Select the correct app from the list of suggestions.

To add an iOS App from App Store

- Click 'Application Store' on the left then choose 'iOS Store' to open this interface
- Click on 'Add App Store Application' from the options at the top.

ć		4	5
nterprise ication	Add App Store Application	Inform Devices Now	Delete Application
NAME	\smile	TYPE	API
Dropbox		iOS App Store	cor

The 'iOS Store Application' screen will open:

iOS Store Application	
Namo *	_
Version	
iTunes store ID *	
Application ID *	
License type *	
O Paid	
Category *	
Select category	×
Supported devices *	
Select supported devices	¥
Description	
	Å
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 *	
Browse	
Application screenshots	
Browse	
	_

Apple Store Application - Table of Parameters					
Form Element	Туре	Description			
Name	Text Field	 Enter the name of the application. Start entering the first few letters of the app name. ITSM will search for matching apps in the app store. Choose the app to the added from the drop-down 			
Version	Text Field	The version of the application. This field will be auto-populated on entering the correct app name in the 'Name' field.			
iTunes Store ID	Text Field	The Apple identification number for the app. This field will be auto- populated after you enter the app name in the 'Name' field. 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.			

Apple Store Application - Table of Parameters					
Form Element	Туре	Description			
Application ID	Text Field	The bundle ID of the app. This field will be auto-populated on entering the correct app name in the 'Name' field.			
		For example, the bundle ID for ITSM client is com.comodo.ITSM.client			
License Type	Radio	Allows you to specify whether the app is free or a paid version.			
	Button	This option will be pre-chosen depending on the app chosen in the 'Name' field.			
Category	Drop-down	The category will be auto-selected 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 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	Allows you to specify whether the app should compulsorily be installed at the devices. If enabled, all enrolled devices will get alerts automatically to install the mandatory apps.			
		See Installing Apps on Devices for more details.			
Allow backup of the app data	Checkbox	If enabled, the user will be allowed to backup the application along with its user data to iTunes.			
Remove app when device management profile is removed	Checkbox	If enabled, the app will be automatically uninstalled from the device when the ITSM profile applied to the device is removed.			
Remove from device when removed from app catalog	Checkbox	If enabled, the app will be automatically uninstalled from the device, if it is removed from 'iOS Store' in future for any reasons.			
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'.			

Click 'Save' after entering the details.

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The app will be added to the app repository and will be listed in the 'iOS Store' interface and will be synced to the devices during their next poll.

Click 'Inform Devices Now' to notify devices to install the app:

			<			Request sent		
Add E	nterprise lication	Add App Store Application	Inform Devices Delete Now Application				T	
	NAME	ТҮРЕ	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED	
	Simple Radio - Live AM & FM	iOS App Store	com.simpleradio.SimpleRadioFree	Smartphone, Tablet	Free	No	2018/04/25 01:32:37 PM	
	Dropbox	IOS App Store	com.getdropbox.Dropbox	Smartphone, Tablet	Free	Yes	2017/05/03 02:43:10 PM	

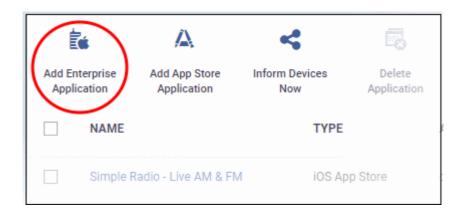
Add Custom/Enterprise iOS Apps

- · Custom applications can be added to the repository by simply uploading the app .ipa file
- The details of the file like name, version, bundle ID and so on, will be automatically fetched by parsing the file and saved. You just need to manually enter only some of the details, which could not be fetched from the .ipa file.

Prerequisite: The .ipa file of the app should have been saved in the computer or in the network storage accessible through the computer, from which the ITSM console is accessed.

To add Custom/Enterprise iOS Apps

- Click 'Application Store' on the left and choose 'iOS Store' to open the interface
- Click 'Add Enterprise Application' from the options at the top.



The 'iOS Enterprise Application' screen will open.

COMODO Creating Trust Online*

iOS Enterprise Application
Name *
Version *
Application ID *
Category *
Select category 👻
Supported devices *
Description
Distribution Options
Mandatory app
Allow backup of the app data Remove app when device management profile is removed
Source file *
Browse
Application logo * Browse
Application screenshots
Browse

• Click 'Browse' under 'Source File', navigate to the location of the .ipa file to be uploaded, select the file and click 'Open'

The file will be uploaded and the details will be auto-populated.

Add iOS Enterprise Application - Table of Parameters						
Form Element	Туре	Description				
Name	Text Field	The name of the application as obtained from the .ipa file and auto- populated. If not auto-populated, enter the name of the app.				
Version	Text Field	The version of the application as obtained from the .ipa file. If it is not auto-populated, enter the version number of the app.				
Application ID	Text Field	The bundle identifier of the app 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	The drop-down enables you to choose the category to which the app belongs.				

	Add iOS Enterprise Application - Table of Parameters					
Supported devices	Drop-down	The drop-down enables you to choose the device types to which the app is compatible.				
Description	Text Field	Allows you to 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 Installing Apps on Devices for more details.				
Allow backup of the app data	Checkbox	If enabled, the user will be allowed to backup the application along with its user data to iTunes.				
Remove app when device management profile Is removed	Checkbox	If enabled, the app will be automatically uninstalled from the device, if the ITSM profile applied to the device is removed.				
Source file	Browse button	Enables you to navigate and select the source file for the app to be uploaded.				
Application logo	Browse button	Enables you to upload the logo image for the app.				
Application screenshots	Browse button	Allows you to upload screenshots of the app, if required.				

• Click 'Save' after entering the details.

The app will be added to the app repository and will be listed in the 'iOS Store' interface and will be synched to the devices during their next poll.

• If you want the devices to be notified to install the app, click 'Inform Devices Now' from the options above the table in the 'iOS Store' interface.

Ē		*	6		\rightarrow	Request sent	J
Add En Applic		form Devices Now	Delete Application				т
	NAME	TYPE	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
	Simple Radio - Live AM & FM	IOS App Store	com simpleradio.SimpleRadioFree	Smartphone, Tablet	Free	No	2018/04/25 01:32:37 PM
	Dropbox	IOS App Store	com getdropbox.Dropbox	Smartphone, Tablet	Free	Yes	2017/05/03 02:43:10 PM
	Talking Bables	IOS App Store	com.appminis.talkingbabies	Smartphone, Tablet	Free	No	2017/05/03 02:42:02 PM
	Wooden Labyrinth	IOS Enterprise	com.labyrinth.wooden	Smartphone, Tablet	Enterprise	No	2016/07/27 04:15:03 PM
	ITSM	IOS App Store	com.comodo.cmdm.client	Smartphone, Tablet	Free	Yes	2015/04/28 04:36:13 PM

8.1.2. Manage iOS Apps

- Click 'Application Store' on the left then choose 'iOS Store'
- Click the name of the app.

È	A	*	5			
Add Enterprise Application	Add App Store Application	Inform Devices Now	Delete Application			
NAME		TYPE		APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE
Simple F	adio - Live AM & FM	ios Ap	op Store	com.simpleradio.SimpleRadioFree	Smartphone, Tablet	Free
Detail	V	:00 A.	en Olava	ann aildeanhau Peanhau	Omasfolune Tebist	P Edit
Name Simple Radio Version 4.2.14	- Live AM & FM					
iTunes store I 891132290	D					
Application ID com.simplera	dio.SimpleRadioFred	e				
License type ' Free						
Category * Music						
Supported de Smartphone,						
Description The simplest stations with today! Listen your IPhone, il Eliminating dr one tap Simpl stations • Disc	and most reliable wa an iPhone, iPad or A to Simple Radio for f Pad and Apple Watc ops Is our top priorit e Radio's free radio f covering new music	ay to listen to your fa pple Watch. Join mi free: + Play 40,000 + + th + Enjoy our extrem ty - Save your favorit tuner is ideal for Li + Slaying connected esting - Practicing a	lions using our vorldwide radio ely reliable radio e stations and l stening to your to home while	radio tuner stations on 5 tuner, isten to them in favorite radio living abroad -		

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
 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 Adding iOS Apps and Installing them on Devices.

Remove Apps from the store

- · Click 'Application Store' on the left then choose '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.

Add Ente Applic	erprise	Add App Store Application	Inform Devices Now	Delete Application	
	NAME		TYPE	T	APPLICATION ID
	Simple Ra	dio - Live AM & FM	iOS Ap	p Store	com.simpleradio.SimpleRadioFree
	Dropbox	Delete App	lication		×
	Talking Ba		want to delete se	lected applica	tion(s)?
					Confirm Cancel

• Click 'Confirm' in the confirmation dialog to remove the app(s)

8.2. Android Apps

- The 'Android Store' lists all available Android apps and lets you add new apps from the Play Store.
- You can also upload custom enterprise apps and synchronize the app list with managed Android devices. You can edit existing app parameters and remove any unwanted apps from the repository.
- Click 'Application Store' on the left then choose 'Android Store' from the options to open this interface.

É	b ⊳	×					Ø
	terprise Add Goog cation Applica						Ŧ
	NAME	TYPE	APPLICATION ID	SUPPORTED DEVICES	LICENSE TYPE	MANDATORY	ADDED
	Notepad	Google Play St	ore ru.andrey.notepad	Smartphone, Tablet	Free	No	2016/07/21 11:13:52 AM
	Skype for Business	Android Enterp	rise com.microsoft.office.lynd	:15 Smartphone, Tablet	Enterprise	Yes	2016/07/21 11:00:29 AM
	Office Suite	Android Enterp	rise com.innov8tion.isharesyr	nc Smartphone, Tablet	Enterprise	Yes	2016/07/21 10:58:54 AM
	Rail Yatra	Google Play St	ore com.sdl.apps.railyatra	Smartphone, Tablet	Free	Yes	2016/07/21 10:19:28 AM
	Subway Surfers	Google Play St	ore com.kiloo.subwaysurf	Smartphone, Tablet	Free	No	2016/07/21 10:18:45 AM

'Android Store' - Column Descriptions					
Column Heading Description					
Name	Name of the application. Click the name to view details. The screen also lets you edit app details. See Managing 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	Indicates whether the app is a free, paid or enterprise version.
Mandatory	Indicates whether the app has been marked to be installed compulsorily on the devices. See 'Adding Android Apps and Installing them on Devices' for more details
Added	The date and time at which the app was added to repository.

Sorting, Search and Filter Options

• Click the funnel button **T** to open filter options:

Name
Name
Туре
Google Play Store
Android Enterprise
Application ID
Application ID
Supported devices
Smartphone
Tablet
Smartphone, Tablet
License type
Free
Paid
Enterprise
Mandatory
Ves
No

• You can filter by type, supported devices, license and more. Click 'Apply' to run your filter.

You can use any combination of filters at-a-time to search for specific apps.

- To display all the items again, remove / deselect the search key from filter and click 'OK'.
- By default ITSM 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.



The following sections explain in detail on:

- Adding Android Apps and Installing them on Devices
- Managing 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.

The following sections provide more details on:

- Adding Android Apps from App Store
- Adding Custom/Enterprise Android Apps

Add Apps from the Google Play Store

- Simply specify the app's Google Play name to add it to ITSM. All app details will be automatically fetched from the Google Play Store.
- Enter first few letters of the app in the name field. ITSM will search for matching apps and present you with suggestions. Select the app you wish to add to the store.

To add an Android App from Google Play Store

- Click 'Application Store' on the left then choose 'Android Store'
- Click 'Add Google Play Application' from the options at the top.

Add Ent Applic	terprise Add Google Play	Inform Devices Now	Delete Application	
	NAME	ТҮРЕ		APPLICATION ID
	Notepad	Google Play Store		ru.andrey.notepad
	Searce for Business	Android Enterprise		com.microsoft.office.ly

The 'Google Play Application' screen will open.

😒 Cancel 🖺 Save **Google Play Application** Name * Version * Application ID * 🚯 License type * O Free O Paid Category * Select category \sim Supported devices * Select supported devices Description **Distribution Options** Mandatory app Remove from device when removed from app catalog Application logo * Application screenshots

	Google Play Application - Table of Parameters					
Form Element	Туре	Description				
Name	Text Field	 Allows you to enter the name of the application. Enter the first few letters of the name of the application. ITSM will search for Apps from the Google Play Store using the letters entered as search criteria and display the matching results as a drop-down Choose the app to the added from the drop-down All the other fields excluding the last few options will be autopopulated. 				
Version	Text Field	The version of the application. This field will be auto-populated on entering the correct app name in the 'Name' field.				
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.				

	Google	Play Application - Table of Parameters
		An example is shown below:
		https://play.google.com/store/apps/details?id=com.comodo.mdm
		Clicking 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 Button	This option will be pre-chosen depending on the app chosen in the 'Name' field.
		Allows you to specify whether the app is free or a paid version.
Category	Drop-down	The category will be auto-selected 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 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	Allows you to enter a description for the app.
		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	Allows you to specify whether the app should compulsorily be installed at the devices. If enabled, all enrolled devices will get alerts automatically to install the mandatory apps. See Installing Apps on Devices for more details.
Remove from device when removed from app catalog	Checkbox	If enabled, the app will be automatically uninstalled from the device, if it is removed from the 'Android Store' in future for any reasons.
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 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 be listed in the 'Android Store' interface and will be synced to the devices during their next poll.

• If you want the devices to be notified to install the app, click 'Inform Devices Now' from the options above the table in the 'Android Store' interface.

Î0 < 5 \triangleright Add Google Play Delete Add Enterprise Inform Devices Y Application Application Applicati Nov TYPE APPLICATION ID SUPPORTED DEVICES LICENSE TYPE MANDATORY ADDED NAME Tuneln: Stream NFL Google Radio, Music, Sports & 2018/04/25 03:13:14 PM tunein.player Smartphone, Tablet Free Play No Podcasts Store Google 2018/04/25 03:11:09 PM Dropbox Play com.dropbox.android Smartphone, Tablet Free No Store

Add Custom/Enterprise Android Apps

- 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 ITSM console is accessed.

To add Custom/Enterprise Android Apps

- Click 'Application Store' on the left then choose 'Android Store'
- Click 'Add Enterprise Application' from the options at the top.

		⊳	4	6			
•	interprise lication	Add Google Play Application	Inform Devices Now	Delete Application			
	NAME	TYPE	APPLICATIO	N ID	SUPPORTED DEVICES	LICENSE TYPE	
	Notepad	Google Play Store	ru.andrey.not	tepad	Smartphone, Tablet	Free	
	Skype for Business						

The 'Android Enterprise Application' screen will open.

Android Enterprise Application 😣 Cancel 🕒 Save Name * Version * Application ID * Category * Select category Supported devices * Select supported devices Description **Distribution Options** Mandatory app Install & uninstall this application silently when possible Source file * Application logo * Application screenshots

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 the details will be auto-populated.

		e Android Application - Table of Parameters
Form Element	Туре	Description
Name	Text Field	The name of the application as obtained from the .apk file. If the name is not auto-populated, enter the name of the app.
Version	Text Field	The version of the application as obtained from the .apk file. If it is not auto-populated, enter the version number of the app.
Application ID	Text Field	The application ID (bundle identifier) of the app as obtained from the .apk file.
Category	Drop-down	The category to which the app belongs. If not automatically chosen, you can select the category from the drop-down.
Supported devices	Drop-down	The type(s) of device(s) to which the app is compatible. Choose the device type from the drop-down.
Description	Text Field	Enter an appropriate description for the app.
Mandatory app	Checkbox	Allows you to specify whether the app should compulsorily be installed at the devices. If enabled, all enrolled devices will get alerts automatically to install the mandatory apps. See Installing Apps on Devices for more details.
Install & uninstall this application silently when possible	Checkbox	This can be enabled only when the 'Mandatory app' checkbox is selected. Enabling this option, the mandatory apps are installed silently without user interaction. On removing the app from the App Repository, it will also be uninstalled from the device. This feature will work only for rooted and Samsung KNOX devices.
Source file	'Browse' button	Enables you to navigate and select the source file for the app to be uploaded.
Application logo	'Browse' button	The application logo will be automatically fetched from the .apk file. If the logo is not auto-fetched, click the 'Browse' button and upload the logo.
Application screenshots	'Browse' button	Allows you to upload screenshots of the app, if required.

• Click 'Save' after entering the details.

The app will be added to the App repository and will be listed in the 'Android Store' interface and will be synched to the devices during their next poll.

• If you want the devices to be notified to install the app, click 'Inform Devices Now' from the options above the table in the 'Android Store' interface.

Request sent < ÊΟ Add Google Play Add Enterprise Inform Devices Delete Y Application Application Now Application NAME TYPE APPLICATION ID SUPPORTED DEVICES LICENSE TYPE MANDATORY Android (com.ibm.android.analyzer.test com.ibm.android.analyzer.test Smartphone, Tablet Enterprise No Enterprise Tuneln: Stream NFL Radio, Google Smartphone, Tablet No tunein.player Free Music, Sports & Podcasts Play Store Google Smartphone, Tablet Free No Dropbox com.dropbox.android Play Store

8.2.2. Manage Android Apps

- Click 'Application Store' > 'Android Store'
- Click the name of the app

io > <	6			
Add Enterprise Add Google Play Inform Devices Application Application Now	Delete Applicatio	'n		
□ NAME		TYPE	APPLICATION ID	
com.ibm.android.analyzer.test		Android Enterprise	com.ibm.android.analyzer.test	
Tuneln: Stream NFL Radio, Music, Sports & Podca	asts	Google Play Store	tunein.player	
Detail V				🌮 Edit
Name TuneIn: Stream NFL Radio, Music, Sports & Podcasts Version 1.1.0 Application ID tuneIn.player License type * Free Category * Music & Audio Supported devices *				
Smartphone, Tablet Description Stream your favorite radio stations, listen to the latest hill podcasts, and stream NFL radio, NCAA college football, games live with TuneIn online radio! With 100,000+ AM & radio stations, TuneIn offers sports news radio, podcasts music streaming from around the world. Stream NFL radio talk radio, listen to NPR, BBC and other local radio station FM and AM radio, NBA talk radio. Explore a new podcast games, or enjoy music streaming anytime, anywhere. Tu Radio – Top 5 Reasons to Download: 1. Stream AM & FM with tack at racho & worldwide programming 2. Listen to sp in the stream NFL NCAA college football game context sam NFL radio codege	NBA or NHL & FM online is and free dio and sport ons, including t, stream NB ineln Online radii ports talk ies, NBA	ts A O		

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 **Adding Android Apps and Installing them on Devices**.

Removing Apps from the Android App Catalog

- You can remove unwanted applications from the Android App Repository at any time.
- If the option 'Remove from device when removed from app catalog' is selected while adding/editing an app, the app will also be removed from the devices at which it is installed.

To remove selected Apps

- Click 'Application Store' > 'Android Store'
- Select the app(s) you want to remove and click the 'Delete Application' button:

Add E	interprise lication	Add Google Play Application	Inform Devices Now	Delete Application				
	NAME		TYPE	APPLICATION ID	SUPPORTED DEVICES			
	com.ibm.	android.analyzer.test	Android Enterprise	m.ibm.android.analyzer.test	Smartphone, Tablet			
	Tunein: S Music, S	Delete Applic	cation		×			
	Dropbox	Do you really want to delete selected application(s)?						
					Confirm Cancel			

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. It is a onestop repository of over 140 popular Windows applications such as Adobe Acrobat, CCleaner, Firefox, Thunderbird and so on. The list is continuously updated by Comodo.

Click 'Application Store' > 'Windows Application Store' to open the interface

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IT & Security Manager		Windows Application	n Store		€ 9	요 Logout (kamal@yopma	uil.com)
BASHBOARD	>						
DEVICES	5	Windows Application S	tore				
A USERS		8%					C
CONFIGURATION TEMPLATES	>	install Selected Application(es)					T
APPLICATION STORE	~	TITLE		APPLICATION CATEGORY	VENDOR	INSTALLED DEVICES	
iOS Store Android Store		🗌 7 Zip		File Compression	Igor Paviov	3	
Windows Application Store		Adobe Acrobat F	Reader DC	Documents	Adobe Systems Incorporated	0	
APPLICATIONS	\rightarrow	Adobe AIR		Developer Tools	Adobe Systems	0	
SECURITY SUB-SYSTEMS	>	Adobe Flash Pla	yer ActiveX	Other	Adobe Systems	0	
🔅 SETTINGS	>	Adobe Flash Pla	yer NPAPI	Other	Adobe Systems	0	
		Adobe Flash Pla	yer PPAPI	Other	Adobe Systems	0	

Windows Application Store - Column Descriptions								
Column Heading Description								
Title	The name of the application. Click a name to view its details such as version number and the 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 \bigcirc 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'.
- By default ITSM 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.

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.

Window	vs Applicatio	n Store			
install Se Applicati	lected	Windows Application Store > 7 Zip		'⊕ ற	Logout (kamal@yopmail.com)
	TITLE	Application Info Device List			
	Adobe Acrob	Description	Versions(32bit) 16.04 16.03		
	Adobe AIR Adobe Flash	7-2p is an open-source file archiver, an application used primarily to compress files. Vendor Igor Pavlov Category	Versions(64bit) 16.04		
		N/A			
		Copyright			

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.

Wir	ndows Application Store				
	82				(
	all Selected lication(es)				
	TITLE	AP	PLICATION CATEGORY	VENDOR	INSTALLED DEVICES
	7 Zip	File	Compression	igor Pavlov	())
pplic	Adobe Accelet Beader DC cation Info Device List	6	u monte	Adoha Dustama Inaar	nexted 0
	NAME	VERSION	РАТН		DEVICE OWNER
	check	16.04	C:\Program Files\7-2	Sip\	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

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information about how to manage devices.

8.3.1. Install Windows Apps on Devices

The 'Windows Application Store' allows you to install apps on managed Windows devices.

Click 'Application Store' > 'Windows Application Store' to open the interface

IT & Security Manager		≡ → •	Mindows Application Store			۰ و	Logout (kamal@yopmal.com)
B DASHBOARD	5						
DEVICES	5	Wind	dows Application Store				
A USERS	>		6 <u>1</u>				0
CONFIGURATION TEMPLATES	5		Estimation (ed)				т
APPLICATION STORE	v		TITLE	APPLICATION CATEGORY	VENDOR		ISTALLED DEVICES
IOS Store Android Store		D	7 20	File Compression	Igo: Pavlov	2	
Windows Application Store		(H)	Adobe Acrobat Reader DC	Documents	Adobe Systems incorporated	0	
APPLICATIONS			Adobe AIR	Developer Tools	Adobe Systems	0	
SECURITY SUB-SYSTEMS			Adobe Flash Plaser ActiveX	Other	Adobe Systems	0	
SETTINOS			Adoba Flash Player NPAPI	Other	Adobe Systems	0	
				0mar	Adobe Systems	0	

Select the application(s) and click 'Install Selected Application(s)' at the top-left

Windows Application Store	
Install Selected Application(es)	
7 Zip	

The 'Install Selected Application(s)' dialog will be shown:

Install Selected Application(es) Install selected applications over: All devices Selected device(s) Type device name to search among devices... Install

• Click 'Install'

To install on selected devices:

• Select '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	
	~
Insta	all

- Enter first few letters of the device name and select from the device names.
- To select more devices, click below the device name in the field, enter the name and select from the device names.

Note – For 'All devices', multiple 'Selected Devices' and for installing multiple applications, the option to select version number of the application will be not be shown.

• Select the application version (applicable for one application and one device only)

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Aqua-PC ×	
Please select a version to install: Available Versions	
	~
16.04 (32bit) 16.03 (32bit) 16.04 (64bit)	

Click 'Install'

The command to install the application(s) on the selected device(s) will be sent. The list of installed software on devices can be viewed on the respective 'Software Inventory' screens. See 'View Applications Installed on a Device' for more information.

9. Security Sub Systems

The 'Security Sub systems' menu allows admins to view the infection status of managed Android, Mac OS and Windows devices. You can also initiate on-demand virus and file rating scans and launch virus database updates. Admins can view a list of malware detected on devices and take appropriate actions against them. The interface also contains a history of threats identified. This area also allows administrators to:

- View the trust rating of applications and files discovered on managed Windows devices. These ratings are from the Comodo file look-up system. Admins can change a file's rating if required.
- View a list of unknown files which are currently running inside the container on the endpoint. Files may be automatically run in the container as a result of the profile applied to an endpoint, or manually run inside the container by the user.
- View a list of unknown files which were automatically submitted to Valkyrie for analysis.
- View and manage files that were moved to quarantine by CCS on Windows endpoints, and by CAVM on Mac OS endpoints.
- View a list of external connection attempts from devices. Connection attempts will be allowed or blocked per rules defined in the profiles applied to the device.

The following sections contain more details on each area:

- Viewing Contained Applications
- Manage File Trust Ratings on Windows Devices
- Viewing List of Valkyrie Analyzed Files
- Antivirus and File Rating scans
 - Running Antivirus and/or File Rating Scans on Devices
 - Handling Malware on Scanned Devices
 - Updating Virus Signature Database on Windows and Mac OS Devices
- Viewing and Managing Identified Malware
- Viewing and Managing Quarantined Items from Windows Devices



- Viewing and Managing Quarantined Items on Mac OS Devices
- Viewing Threats History
- Viewing History of External Device Connection Attempts

9.1. View Contained Applications

- The Containment module is a secure, isolated environment in which unknown/unrecognized files are run.
- Contained applications are not permitted to modify files, user data or other processes on the host machine.

An application could be run inside the container because:

- It was auto-contained by rules in the ITSM configuration profile applied to the endpoint. See 'Containment Settings' in Creating 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.

Administrators 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-Systemss' on the left then 'Containment'

IT & Security Manager		≡ Containment				License Options	🖲 🛈 🕹 Log	out (demoq3@yopmail.com
B DASHBOARD	->							
DEVICES	5	A & S	由二〇二					0
S. USERS	5	File Details. Change Rating Record	Export Dovelland Valkyrie report	Check Volkyrie details				т
CONFIGURATION TEMPLATES	>	D FILE NAME	FILE PATH	FILE HASH	40	F DEVICES CONTAINED BY	ADMIN RATING	DATE CONTAINED
APPLICATION STORE	>	C_sylhony.cos_CAED3E	C:\ProgramData\Comodo\Cis\te	01 CAEDJES70803385C08A4F3242.	d ² 2	Containment Policy	Not set	2017/07/14 07 52:05 PM
APPLICATIONS	->	D PatchWarragerPlus.eee	C'ManageEngine/PatchManager.	BZP2BDE193513E61090528753	6 1 1	Containment Policy	Not sit	2017/07/14/07:51:01 PM
SECURITY SUB-SYSTEMS	~	svchost.exe	C:Ullindows\System32\svchost	547AE844387BA20683E47B1E6	a 1	N/A	Not set	2017/05/23 09:00:30 AM
Containment Application Control		sychost.exe	C:Ullindows\System32\svchost	547A68443878A20583E4781E6.	a i	N/A	Not set	2017/05/23 09:00:30 AM
Next Gen Sandbox		svchost.exe	C Windows System 32 avchoal	A2D1450883ED00P8600D6672E	d ² 1	N/A	Not set	2017/05/09 06:33:07 PM
Antivirus Device Centrol		TISMAgent.coe	C1Program Files (x86)//Comodol	27A44988708C758E30A15C865.	di i	Containment Policy	Not set	2017/02/21 01:00:37 PM
	5	svchost.exe	C:Ullindows\System32\svchost	619652B42AFE5F80E371907AE.	d ²¹ 12	N/A	Not set	2017/02/21 08:36:13 AM
©- SETTINGS	5	TSMgert.com	C:\Program Files (x86)\Comodo	0 ³ ACREADSC203466683957088AE1	d ² 1	Containment Policy	Trusted	2017/02/20 07:02:04 PM
		TSWAgent.exe	C:\Program Files (x86)\/Comodor	07 9F8EA40485F3A5E75A52A8853	di t	Containment Policy	Nol set	2017/02/20 06:37:54 PM
			C'Ullindows/Gastern32/millionec			1075	hold yet	

Containment - Column Descriptions					
Column Heading	Description				
File Name	The name of the contained executable file.Click the name of a 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 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.
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 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

- 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'.
- By default ITSM 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 ITSM to collect file activity data. See **Configuring VirusScope Settings** in **Creating Windows Profiles** for more details.

The 'Process Activity' interface will open. It has two tabs.

• Summary - Shows basic file activity details

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File Info Device List
Process OpenHardwareMonitor.exe
Summary Activity
Summary
Path C:\Users\ahmetenes\Downloads\openhardwaremonitor-v0.8.0- beta\OpenHardwareMonitor\OpenHardwareMonitor.exe
Name AHMETENES-HP (removed)

Activity - Lists all processes executed by the files in chronological order:

•

File Info Device List			
Process OpenHardwarel	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)\COM0D0\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.ex	e	
Details		Back
Date 2016/09/20 (9:36:58 AM	
Action Create Proce	s	
Path C:\Windows\	lystem32\conhost.exe	
Object Type Unknown		
Cmd Line C:\Windows\	ystem32\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:

B	í,	5	Ľ ⊥	<u>e</u>		R
File Details	Chang	Record	Export	Download Valkyrie report		k Valkyrie etails
	Rate File as Rate File as		Ή			FILE HASH
	Rate File as	Unrecognize	d amDa	ta\Comodo\Cis\te	ġ,	CAED3E670B033B5C0BA4F3243
- F	PatchManagerPlus	.exe C:\N	ManageEn	gine\PatchManager	Ū.	B2F2BDE193513E61C9C528753
	vchost.exe	C:\V	Vindows\S	System32\svchost	ġ.	547AE8443B7BA206B3E47B1E6
	svchost.exe	C:\V	Vindows\S	System32\svchost	ġ.	547AE8443B7BA206B3E47B1E6
	svchost.exe	C:\V	Vindows\S	System32\svchost	ġ,	A2D14508B3EDDDF86D0D6672E
	TSMAgent.exe	C:\F	Program Fi	les (x86)\Comodo\	1 3	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.

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To hide a file record

• Select a file, click 'Record' at the top and select 'Hide' from the options

ß	Ē,	B	₽			R
File Deta	ails Change Rating 🔪	Record	Export	Download Valkyrie report		ck V alky details
	FILE NAME	Hide Rec	ord			FILE
		Unhide F	Record U			
	C_pythonw.exe_CA	Delete R	ecord	Comodo\Cis\te	Ġ.	CAE
	PatchManagerPlus.	exe C	:\ManageEn	gine\PatchManager.	Ū.	B2F
	svchost.exe	С	:\Windows\S	System32\svchost	Ċ.	547)
	svchost.exe	с	:\Windows\8	System32\sychost	-	547

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)'

CONTAINED BY 1 filter Apply	D	Show with hidden file(s)
Containment Policy	юл	File name
Containment Policy	No	File name
N/A	Not	File path
N/A		File path

Click 'Apply'

The hidden file records will now be visible and highlighted.

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		68		<u>0</u>								0
File Details	Change Rating	Record	Export	Download Valkyrie report		Malkyrie talic						Ŧ
	FILE NAME		FILE PATH			FILE HASH		# OF DEVICES	CONTAINED BY	ADMIN RATING	DATE CONTAINED	
	C_pythonw.exe_CAED		C:\ProgramDa	la\Comodo\Cis\te_	d ²	CAED3E670803385C0BA4F3243_	d ³	2	Containment Policy	No1 set	2017/07/14 07:52:05 PM	
	PatchManagerPlus.ex	(e	C:\ManageEng	ine\PatchManager.	d ²	B2F2BDE193513E61C9C528753	d ³	1	Containment Policy	Not set	2017/07/14 07:51:01 PM	
	sychost.exe		C:\Windows\S	ystem32\svchost	d ^a	547AE8443B7BA206B3E47B1E6	d ³	1	N/A	Not set	2017/05/23 09:00:30 AM	
	sychost.exe		C:\Windows\S	ystem32\svchost	d ³	547AE8443B7BA206B3E47B1E6	d ²	1	N/A	Not set	2017/05/23 09:00:30 AM	
	svchost.exe		C:\Windows\S	ystem32\svchost	d ³	A2D14508B3EDDDF86D0D6672E	d ²	1	N/A	Not set	2017/05/09 06:33:07 PM	
	ITSMAgent.exe		C:\Program Fil	es (x86)\Comodo\	di l	27A449B8708C758E30A15C865	93	1	Containment Policy	Not set	2017/02/21 01:00:37 PM	
	sychost.exe		C:\Windows\S	ystem32\svchost	di la	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.

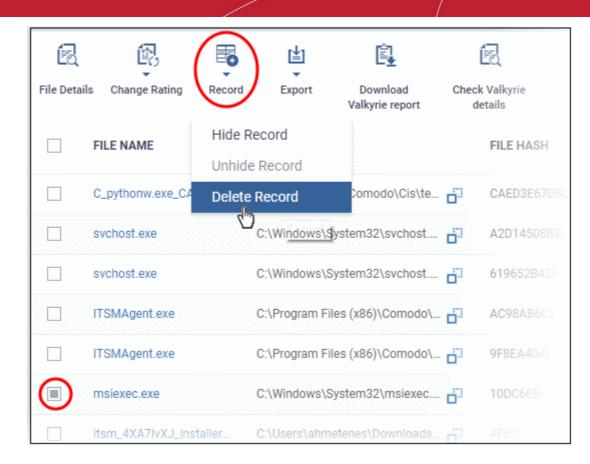
R	Ē,	B	LEI -	<u>e</u>	ĺ	R
File Detail	is Change Rating	Record	Export	Download Valkyrie report		t Valkyrie etails
	FILE NAME	Hide Reco	ord			FILE HASH
	C_pythonw.exe_CA	Unhide Re	C 10	Compdo\Cis\te		CAED3E670B033B5C0BA4
	C_pythonw.exe_CA	Delete Re	cord _	somedo (cis (te	0	CAEDSE070B033B3C0BA4
	PatchManagerPlus.	exe C:\	ManageEng	ine\PatchManager	Ū.	B2F2BDE193513E61C9C52
	svchost.exe	C:\	Windows\S	ystem32\svchost	ġ,	547AE8443B7BA206B3E4
	svchost.exe	C:\	Windows\S)	ystem32\svchost	ġ3	547AE8443B7BA206B3E4
	svchost.exe	C:\	Windows\S	ystem32\svchost	ġ.	A2D14508B3EDDDF86D0:
	ITSMAgent.exe	C:\	Program File	es (x86)\Comodo\	ġ,	27A449B8708C758E30A1
	svchost.exe	C:\	Windows\S	ystem32\svchost	di la	619652PACKT

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':

Ð	E.	B		ÍZ,	(L)	
File Det	ails Change Rating	Record	Download Valkyrie report	Check Valkyrie details	Export	_
	FILE NAME	FILE P	ATH	FILE H	Export to CSV	OF DEVICES
	check.vbs	C:\Use	ers\win864\Docume	n 📑 E8D00	08498A113CB9D764	1
	C_powershell.exe_E	C:\Pro	gramData\Comodo\	📑 E31C1	FC879BFB7B8C3BB	1
	PXGLUYPA.vbs	C:\Use	ers\win864\AppData	\ 📑 D1F75	4CFAB30E5912C87E	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':

Ê B [**±**] Ēd Download Check Valkyrie File Details Change Rating Export Record /alkyrie report details FILE PATH FILE HASH FILE NAME TiWorker.exe C:\Windows\WinSxS\amd64_mic... 1B4D5AED153D1 TrustedInstaller.exe C:\Windows\servicing\TrustedIn... 7485B2CFFDF27 DismHost.exe C:\VTRoot\HarddiskVolume2\Us... 2B8780EAF56BA/ C:\Windows\System32\Dism.exe Dism.exe 848F12E2F69D7D

This will open the Valkyrie report on the contained file in PDF format:

\frown	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	Human Expert Analysis Result: No human expert analysis verdict given to this sample yet.	
Analysis Summary	Verdict Source: Trusted Vendor	
Analysis Summary		
	Verdict Source: Trusted Vendor	0
ANALYSIS TYPE	Verdict Source: Trusted Vendor DATE VERDICT	0
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	© 0

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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File Details	Change Rating	Record	Export	Download Valkyrie report	•	K Valkyrie etails
	FILE NAME		FILE PATH			FILE HASH
	TiWorker.exe		C:\Windows\V	VinSxS\amd64_mic.		1B4D5AED153D10
	TrustedInstaller.exe		C:\Windows\s	ervicing\TrustedIn	ġ.	7485B2CFFDF277
	DismHost.exe		C:\VTRoot\Ha	rddiskVolume2\Us	ġ.;	2B8780EAF56BA
	Dism.exe		C:\Windows\S	System32\Dism.exe	dill.	848F12E2F690

You will be taken to the report summary page of the selected file at https://valkyrie.comodo.com/.

VALKYRIE =		SIGN IN
BB DA SHBOARD * Unknown File Hunter Scans	Summary Static Analysis Dynamic Analysis Precise Detectors Human Expert Analysis File Details Image: Static Analysis Vt Image: Static Analysis Image: Static Analysis Image: Static Analysis	
⊖ STATISTICS >	Copy VRL Te Extort Minor To View Wilds KRP Chelm Human Fapart Human Fa	
⊖ SETTINGS >	File Name: TW Service nom File Specific File File Name: File Specific File File Name: File Name: TW Service Nom File Name: File Name: File Name: TW Service Nom Mist service Nom File Name: Manage Name: File Name:	
	ANALYSIA 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.

9.2. 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 guarantined 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:

E	æ,	i i					Q
File Det	ails Change Ratir	ng Record Export					Y
	FILE NAME	FILE PATH	FILE HASH	SIZE	# OF DEVICES	COMODO RATING	ADMIN RATING
	ccsetup539	C:\Users\stuxnet\Desktop\ [46AC9F993765F87FF419D	N/A	1	Trusted	Trusted
	CuteWriter3	C:\Users\cool\Desktop\Cu	3E5974149C4A3FBA9385	N/A	1	Malicious	Trusted
	disk-defrag	C:\Users\cool\Desktop\dis	ت: D5A179660F19786882D0A نَّ:	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 i con to copy the path to the clipboard. 			
File Hash	 The SHA1 hash value of the executable file. Click the icon to copy the hash value to the clipboard. 			
Size	The size of the executable file.			
# of Devices	 The number 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 **Y** to open more filter options:

# OF DEV	Show purged file(s)	K
5	Show only unrecog	
2	Show with non-exec	
2	Show with hidden fi	le(s)
1	File Name	
	File Name	
2	File Path	
1	File Path	
1	SHA1	
	SHA1	
2	Size (in bytes)	
2	From	То
1	# of Devices	
	From	То
1		
2	Comodo Rating	
-	All	~
1	Admin Rating	
1	All	~
1		

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- 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:

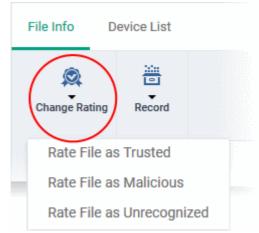
- View the details of files in the list
- View Process Activities of a File
- Assign Admin rating to a file
- Hide/Display selected files in the list
- Export the list of selected files to a CSV file
- Remove files from the list

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':

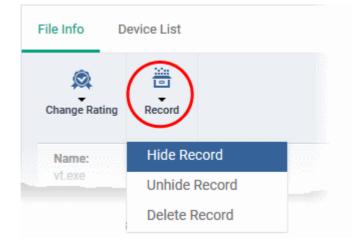


The new rating will be sent to all endpoints.

The 'Record' button lets you hide, display or remove the file from the 'Application Control' list

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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	File Info Device List						
	Delete						
	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
Results p	per page: 20	~				Disp	laying 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. Refer to **Configuring Viruscope Settings** in **Creating 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.
- This will open a list of processes executed by the file on the selected endpoint:

File Info Device List							
D 🗑	elete						
	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
							lavino 1.of.1.tam
Proc	cess List of	vt.exe 🗲					
PID	CRE	ATED AT	FILE	PATH		DETAILS	
5708	Apr	25, 2017	C:\S	uspicious\x64\vt.exe		View Act	ivity
6608	Apr	25, 2017	C:\S	uspicious\x64\vt.exe		View Act	ivity
6608	Apr	25, 2017	C:\S	uspicious\x64\vt.exe		View Act	ivity
sults p	er page: 20	~				Displa	iying 1-3 of 3 result

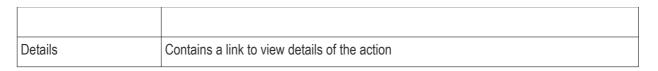
- Click 'View Activity' to see detailed information about each process. The 'Process Activity' interface has two tabs:
 - Summary Displays the name of the device and the installation path of the executable
 - Activity Displays a chronological list of activities by the selected process, including details of files modified by the process.

Process vt.exe					
Summary	Activity				
DATE	ACTION	РАТН	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	Indicates the action executed by the process on the target file			
Path	Indicates the path of the target file			

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You can inspect a particular activity by clicking the 'Details' link:

Process vt.exe					
Summary A	ctivity				
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.exe Details Date: 1493103035 Action: Load Image Fil Path: C:\Windows\Sy					
Object Type: Not available					

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 Creating 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:

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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 Det	· (ing Record Import / Export			
	FIL Rate File	e as Trusted	SHA1	SIZE	
	TS	e as Unrecognized	846C130E115589CF89720A	145.5 kB	2
	TrojanSimul	C:\Suspicious\TrojanSimulat.	85789749CE0EC90C8246F6.	337.5 kB	2
	unins000.exe	C:\OpenSSL-Win32\unins00	6A37CF7FEF5C0E9F283B24.	698.3 kB	2
	caelih dil	C:\Program Files\RealVNC\	6FE210A1B02A379A957228	178.1 k ^p	

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 Detai	Change Rating	Record Import / Export				
	FILE NAME	Hide Record		SHA1	SIZE	
	pcflank.exe		j,	3437369E6B75021F57DE55	176 kB	3
	cpil.exe	Delete Record	j.	795FE85537EC514F36670E	104 kB	2
	TSServ.exe	E:\suspicious files\TrojanSi	j.	846C130E115589CF89720A	145.5 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
- Select 'Show with hidden file(s)' and click 'Apply'

	SIZE	# OF DEV	
	145.5 kB	2	 Show purged file(s) Show only unrecognized file(s)
F6	337.5 kB	2	Show with non-executable file(s)
1f	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 Detai	S Change Rating	Record Import / Export			
	FILE NAME -	Hide Record	SHA1		
	TSServ.exe	Unhide Record	846C130E115589CF89720A	145.5 kB	
	TrojanSimul	E:\suspicious files\TrojanSi	85789749CE0EC90C8246F6	337.5 kB	

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'
- 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	Export to CSV	ASH	SIZE	# OF DEVICES
	ccsetup539	C:\Users\stuxne	et\Desktop\	46AC9F993765F87FF419D	N/A	1
	CuteWriter3	C:\Users\cool\[Desktop\Cu	3E5974149C4A3FBA9385	N/A	1
	disk-defrag	C:\Users\cool\E)esktop\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

👰 File Details	Q Change Rating	Record Import / Export				
🔲 Fil	E NAME -	Hide Record		SHA1	SIZE	
тя та	Serv.exe	Unhide Record	i,	846C130E115589CF89720A	145.5 kB	1
	-iseCimul	Elsuspicious TroianSi	-11 -11	85789749CE0EC90C8246F6	337.5	

9.2.1. File Ratings Explained

Comodo Client Security (CCS) rates the files identified from Windows devices as follows:

Unrecognized Files

Files that could not be identified as 'Trusted' or 'Malicious' by Comodo Client Security (CCS) are reported as 'Unrecognized' to ITSM . Administrators can review these files and can manually rate them as 'Trusted' or 'Malicious' as required.

Trusted Files

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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 ITSM.

9.3. View List of Valkyrie Analyzed Files

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. Each CCS installation on a managed Windows Device is capable of uploading unknown files to Valkyrie for analysis.

- Click 'Security Sub-Systems' > 'Next Gen Sandbox' to view all unknown files along with their Valkyrie ratings
- You can view Valkyrie statistics in the ITSM Dashboard by clicking 'Dashboard' > 'Valkyrie'.
- You can schedule unknown files for upload by configuring the Valkyrie component of the Windows Profile applied to the device. For more details on configuring Valkyrie refer to the section Valkyrie Settings under Creating Windows Profiles.

Note 1: The version of Valkyrie that comes with the free version of ITSM is limited to the online testing service. The Premium version of ITSM also includes manual testing of files 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.

Note 2: ITSM communicates with Comodo servers and agents on devices in order to update data, deploy profiles, submit unknown files for analysis, monitor Windows events, provide alerts 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 open the 'Next Gen Sandbox' interface

Click 'Security Sub-Systems' on the left and choose 'Next Gen Sandbox' from the options

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IT & Security Manager		≡ Ne>	kt Gen Sandbox	License	Opti	ons 🗗	ß) ይ Logour	t (coyoteewile@yahoo.com)
DASHBOARD	>								
DEVICES	>	View File							
	>	VIEWTIN							
CONFIGURATION TEMPLATES	>		NAME	PATH		HASH		FILE RATING	FIRST ANALYSIS DATE
	\$		td4demo.exe	E: \sampl	Ċ,	3af884e4	Ċ,	Clean	2017-04-25 07:03:47
			24x7mp_setu	C: \VTRoo	<u> </u>	e8bb5426	Ū.	Clean	2017-04-25 07:03:41
APPLICATIONS	>		libeay32.dll	c: \progra	d'i	7b244f3f7	d'i	Clean	2016-12-20 10:00:16
SECURITY SUB-SYSTEMS	~		winauth.dll	c: \progra	<u>6</u> 3	7ede75cd	0 3	Clean	2016-12-20 10:00:15
Containment			ccme_error_in	c: \progra	ġ,	432b532c	ġ3	Clean	2016-12-20 09:58:11
Application Control			ssleay32.dll	c: \progra	0 3	6672d072	<u>[]</u>	Clean	2016-12-20 09:58:05
Antivirus			luajava-1.164	c: \progra	ġ,	b017684b	ġ,	Clean	2016-12-20 09:57:47
Device Control			VNC-Viewer-6	C: \Users\	0]	84dcdbaa	Ū.	Clean	2016-11-29 11:13:11
			FreeYTD Setu	C: \Users\	-53	3b929b05	-43	Clean	2016-11-12 23:17:56

Column Heading	Description						
Name	Displays the file name of the unknown item						
Path	The installation location of the file on the endpoint						
Hash	Displays the SHA1 hash value of the unknown file						
	• Clicking the copies the hash value to the clipboard.						
File Rating	 Displays the verdict for the file 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 and so on. These applications may be installed while installing an 						
Date Received	 unrelated piece of software. Users may or may 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. Indicates date and time at which the file was received by Valkyrie from the endpoint. 						

View the details of files in the list

Administrators can view complete details of files identified as 'Unknown' and uploaded to Valkyrie for analysis.

• Select a file and click the 'View File Details' button:

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NAME	P/	ATH		HASH		FILE RATING	FIRST ANALYSIS DA
td4demo.exe	e E:	\sampl	ġ3	3af884e4	Ċ,	Clean	2017-04-25 07:03:47
24x7mp_set	tu C:	VTRoo	0]	e8bb5426	<u>c</u> i	Clean	2017-04-25 07:03:41
ral info							
e Name							
demo.exe							
е Туре							
all and the second seco							
	exec						
olication/x-dos A1 884e43dbc084		53938db7b3	e6bf3	c40			
A1 884e43dbc084	42da05d15		e6bf3	c40			
A1 5884e43dbc084 9 5 149f11a67c216	42da05d15		e6bf3	c40			
A1 884e43dbc084	42da05d15		e6bf3	c40			
A1 884e43dbc084 9 5 49f11a67c216 e	42da05d15 52e4135e06		e6bf3	c40			
A1 i884e43dbc084 95 i49f11a67c216 e 6 MB	42da05d15 52e4135e06		e6bf3	c40			
A1 1884e43dbc084 15 149f11a67c216 e 6 MB mber of Endpo e Rating	42da05d15 52e4135e06		e6bf3	c40			
A1 i884e43dbc084 95 449f11a67c216 e 6 MB mber of Endpo e Rating an modo Rating	42da05d15 52e4135e06		e6bf3	c40			

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 the Administrator.

9.4. Antivirus and File Rating Scans

The 'Antivirus' section under 'Security Sub-systems' allows you to:

- · View the current infection status of managed Windows, Mas OS and Android devices.
- Run antivirus and file rating scans on devices.
- · View a consolidated list of all malware on all endpoints.
- · View a list of all quarantined files on Windows and Mac OS devices
- · View an all-time history of threats discovered on all endpoints
- · Manually delete, quarantine or ignore malicious files

IT & Security Manager		≡ An	tivirus / I	Device List							🔁 🗊 🐣	Logout (kemalg	(yopmail.com)
DASHBOARD	>												
DEVICES	>	> le	Devi	ce List Currer	it Malware List	Windows Quarantine	macOS Que	rantine Threat Histo	ny				
A USERS	>		Scen -	📇 Stop Scan	G Protective	e Action - 🔤 Update Ar	ivirus DB	Export 🕶					0 7
CONFIGURATION TEMPLATES	>		os	NAME	OWNER	ANTIVIRUS DB STATE	ANTIVIRUS DB	ANTIVIRUS DB DATE	RUN BY	SCAN TYPE	SCAN STATE	SCAN DATE	MALWARE ST
APPLICATION STORE	>						VERSION						
APPLICATIONS	5		44	Bowvalle	kamalĝyop.,	Updated	29064	2018/05/24 10:21:34	Schedule	Custom Scan	Complete	2018/05/24	Unknown
SECURITY SUB-SYSTEMS	•~			• DESKTO_	John Smith	Updated	29066	2018/05/24 01:21:17	Schedule	Custom Scan	Scanning	2018/05/23	Clean
Containment Application Control			41	DESKTO	kamalĝyop	Updated	29064	2018/05/16 12:59:02	Schedule	Custom Scan	Complete	2018/05/16	Clean
Next Gen Sandbox			-	Desktop_	kamal@yop_	Updated	28911	2018/04/25 09:58:43.,	Portal	Anthrirus Qui	Command se	2018/05/22	Intected
Device Control			41	e citest-2	kamal@yop_	Updated	28882	2018/04/19 11:14:34	Portal	Antivirus Qui	Complete	2018/04/19	Intected
🔅 SETTINOS	>		4	DESKTO_	kamal@yop_	Updated	29583	2018/04/19 05:04:40	Portal	Anthrirus Qui	Complete	2018/04/18	Clean
				 C1-Mac' 	kamal@yop_	Updated	28870	2018/04/16 03:13:35	Unknown	Unknown	Not scanned	Not scanned.	Unknown

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. Refer to Viewing and Managing Identified Malware for more details.
- Windows Quarantine Displays malware which has been quarantined by Comodo Client Security on Windows endpoints. You can delete or restore quarantined items and/or manually assign a trust rating. Refer to Viewing and Managing Quarantined Items from Windows Devices for more details.
- Mac OS Quarantine Displays malware which has been moved to quarantine by Comodo Antivirus for MAC on Mac OS devices. You can delete or restore quarantined items and/or manually assign a trust rating. Refer to Viewing and Managing Quarantined Items on Mac OS Devices for more details.
- Threat History A log of all malicious items found on Android, Windows and Mac OS devices over time. See Viewing 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: Comodo security software on Windows and Mac endpoints is capable of scanning specific areas and running scheduled antivirus scans. You can define these items in the 'Antivirus' component of Windows and Mac OS configuration profiles. For more details on creating custom scan profiles, refer to:

- The explanation of Custom Scans in the section Antivirus Settings under Creating a Windows Profile.
- The explanation of Scan Profiles in the section Antivirus Settings under Creating Mac OS Profiles.

To open the 'Antivirus > Device List' interface:

- Click 'Security Sub-Systems' > 'Antivirus' on the left then open the 'Device List' tab
- Select a company and group from the middle-pane to view all devices in a particular group Or
- Select 'Show All' to view all devices enrolled to ITSM

Ø Search group name	۲	Devic	e List Currer	nt Malware List	Windows Quarantine	macOS Qua	arantine Threat Hist
🖯 Show all		Scan 🚽	Stop Scan	G Protective	Action - Update An	tivirus DB	
 ABC TV Services Chennai IT Services Coyote 		OS	NAME	OWNER	ANTIVIRUS DB STATE	ANTIVIRUS DB VERSION	ANTIVIRUS DB DATE
 E Coyote Deer Company 			• VIJAYAL	coyoteewile	Updating	28564	2018/03/16 01:49:33
 → ● Default Company → ● Dithers Construction Company 		1	motorol	avantistude	Unknown	10	N/A
+ 🖶 Horizon			• DESKTO	avantistude	Updated	28688	2018/03/16 03:13:58
 Hanchi Customer kanchiidly 		,	samsun	Greg Wonde	Unknown	10	N/A
+ 🖶 Sky walk			DESKTO	Dyanora	Updated	28683	2018/03/15 04:21:54

The list displays all Android, Mac OS and Windows 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 assigned to the device by the user. If no name is assigned, the model number of the device will be 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 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

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	initiated in the following ways:
	 Portal - Manually run by an admin from the ITSM interface. See Run Antivirus and/or File Rating Scans on Devices for more details.
	User - Manually run by the end-user at the endpoint, from the Comodo Client- Security (CCS) interface.
	• 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 based on results from real-time, on-demand and/or scheduled scans.
	Devices with untreated malware will be listed as 'Infected'. Clicking on 'Infected' will open the 'Current Malware List' which shows all malware on all managed devices. From here you can delete the malware or take other actions as required. See Handle Malware on Scanned 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 and Mac OS Devices

Sorting, Search and Filter Options

- Click any column header except 'Antivirus DB version' to sort items in ascending/descending order of the column header
- Click the funnel icon **Y** on the right to filter items by various criteria, including by OS, name, owner, AV DB update status, scan source, last scan type, last scan status, last scan date, malware status and AV DB version .

- · 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'.
- By default ITSM 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.

Export device list records as a CSV file

- Click 'Security Sub-Systems' > 'Antivirus' > 'Device List' tab
- Click the funnel) icon to filter which records are included in the report.
- Click the 'Export' button and choose 'Export to CSV':

、 皆	Device	e List Curren	t Malware List	Windows Quarantine	macOS Qu	arantine Threat Histo	гу	
0	Scan	Stop Scan	Protective A	uction - Update Anti	virus DB	Export -		Ø
	OS	NAME	OWNER	ANTIVIRUS DB STATE	ANTIVIF DB VERSION		RUN BY	SCAN TYPE
		Bowvalle	kamal@yop	Updated	29064	2018/05/24 10:21:34	Schedule	Custom Scar

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.

9.4.1. Run Antivirus and/or File Rating Scans on Devices

• Click 'Security Sub-Systems' > 'Antivirus' > 'Device List' to open the scan interface.

The interface lets you run virus and file rating scans on Android, Mac OS and Windows 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
 - Click a company name then a group in the middle pane to view all devices in a particular group Or
 - Select 'Show All' on the left menu to view all devices enrolled to ITSM
 - Select the Android, Mac OS or Windows device(s) 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)

Android Devices

Click 'Scan Device' and choose the 'Scan Profile' from the drop-down to select the area to be scanned on the device.

Device List Current Ma	alware List W	indows Quarantine		
Scan 🗸 💿 Stop Sca	an 🔹 Protective Action 👻 🌅			
Antivirus Quick Scan	OWNER	ANTIVIRUS D		
Antivirus Full Scan	avantistude.	Unknown		
File Rating Quick Scan				
SD Card Scan				

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 Handling 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.

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Curre 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 on Windows Devices 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.

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く Ce Device List Curre	ent Malware List Windo	w	
Scan Stop Scan	Protective Action 🗸		
Antivirus Quick Scan		ANTIVIRU	
Antivirus Full Scan	OWNER ANTIVIR		
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 on Mac OS Devices for more details.

9.4.2. Handle Malware on Scanned Devices

Click 'Security Sub-Systems' > 'Antivirus' > 'Device List' to open the 'Device List' interface.

If malware is detected on a managed Android, Windows or Mac OS device, the 'Malware Status' column will display 'Infected' or 'Virus Found'. You can remove, ignore or quarantine malware using the 'Protective Action' button above the table.

Tip: The 'Security Sub-Systems' > 'Antivirus' interface allows you apply actions to *all* malware identified on a particular device. If you want to review and apply actions to individual pieces of malware, please use the 'Current Malware List' instead. See **View and Manage Identified Malware** for more details.

To remove / quarantine/ ignore ALL malware on selected devices

- Click 'Security Sub-Systems' on the left then select 'Antivirus'
- Click the 'Device List' tab
 - Click a company name then a group in the middle pane to view all devices in a particular group



Or

- · Select 'Show All' on the left menu to view all devices enrolled to ITSM
- 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:

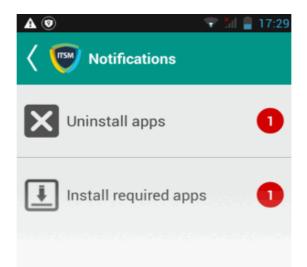
					<u>^</u>	
Search group name	، ใ:	Devic	e List	Curren	t Malware List	Windows
B Show all		Scan 🗸	Stop	p Scan	Protectiv	e Action 🗸
ABC TV Services					Delete	
		OS	NAME		Quarantin	e
+ Deer Company			DESK	т о	Ignore	opuncu
 Image: Default Company Image: Dithers Construction Company 			• DESK		Dyanora	Updating

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.

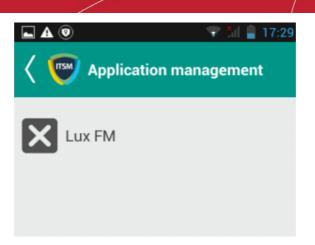
For the 'Delete' operation, a notification will be sent to the selected devices to uninstall the app(s):



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.

L Ø		🐨 🖁	🚆 17:29
< 顾 Applic	ation man	agem	nent
Lux FM			
Application	managem	nent	
Application sl	hould be ren	noved	I I
	Uninstall		

For Windows 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.
 - You can review quarantined files by clicking 'Security Sub-Systems' > 'Antivirus' > 'Windows Quarantine'.
 - Based on their trustworthiness, you can remove them from the device or restore them to their original locations. See View and Manage Quarantined Items on Windows Devices for more details.

For Mac OS Devices

Delete - Instructs the CAVM application at the endpoint to clean the malware. If a disinfection
routine is available for the selected infection(s), CAVM will disinfect the application and retain the
application. If a disinfection routine is not available, CAVM will remove the application.

Quarantine - Moves the malware to quarantine on the device. You can review quarantined files from the 'Security Sub-Systems' > 'Application Control' > ' Mac OS Quarantine' interface. Based on their trustworthiness, you can remove them from the device or restore them to their original locations. See **View and Manage Quarantined Items on Mac OS Devices** for more details.

9.4.3. Update Virus Signature Database on Windows and Mac OS Devices

• Click 'Security Sub-Systems' > 'Antivirus' > 'Device List' to open the 'Device List' interface.

It is vital to make sure all managed endpoints have the latest virus database installed. You can update the database manually or according to a schedule:

Automatic Updates - ITSM lets you schedule automatic updates as follows:

- 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 Antivirus in Antivirus Settings for Mac OS Profile for more details.

Manual Updates

- · Click 'Security Sub-Systems' on the left then select 'Antivirus'
- Click the 'Device List' tab
 - Click a company name then a group in the middle pane to view all devices in a particular group Or
 - Select 'Show All' on the left menu to view all devices enrolled to ITSM
- > Select the Windows and/or Mac OS 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.

Antivirus > Device List				×		Licer	nse
		F	equest has beer	n successfully s	ent		
Search group name	، ង	Devic	e List Currer	nt Malware List	Windows Quarantine	macOS Qu	Jarar
면 Show all	6	Scan 🗸	Stop Scan		e Action 🗸 📑 Update Ar	ntivirus DB	
+ 🖶 ABC TV Services						ANTIVIRUS	
+ 🖶 Chennai IT Services		OS	NAME	OWNER	ANTIVIRUS DB STATE	DB VERSION	ļ
+ 🖶 Coyote						VERSION	
+ 🖶 Deer Company			DESKTO	avantistude	Updated	28689	2
🛞 🖶 Default Company			DESKTO	Dyanora	Updating	28683	Ι,
+ 🖶 Dithers Construction Company			• DEGRETO	byanona	oputing	20000	
+ 🖶 Horizon		÷	samsun	Greg Wonde	Unknown	10	ľ
+ 🖶 Kanchi Customer						00.464	÷.
+ 🖶 kanchiidly			CW002	coyoteewile	Updated	28461	2
🕞 🖶 Sky walk			Sony Eri	Impala	Unknown	10	1

A command will be sent to target devices to start downloading the updates.

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9.5. 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.

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:

For 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.

For 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 Antivirus Settings under Creating Mac OS Profiles for more details.

To view the malware list

.

- Click 'Security Sub-Systems' on the left then choose 'Antivirus'
- Click the 'Current Malware List' tab
 - Click a company name then a group in the middle pane to view malware identified on devices in a particular group
 - Or
 - Select 'Show All' on the left menu to view malware identified on all devices enrolled to ITSM

Ø Search group name	، ۵	Device	List Current Malwa	re List Windows Quarantir	e macOS Quarantine Threat His	story	
₽i Show all		Delete Malw	are 👸 Ignore Malwa	re Quarantine Malware			O Y
ABC TV Services Dennai IT Services		OS	DEVICE NAME	APPLICATION NAME	PACKAGE NAME / FILE PATH	SIGNATURE	DETECTION DATE
+ 🖶 Coyote		-	DESKTOP-D10L	eicar.com	C:\Users\Joe\Downloads\eicar.com	ApplicUnwnt@#2	2018/03/19 11:36:38 AM
🕂 🖶 Default Company		-	DESKTOP-D10L	EYi_SvUV.zip.part	C:\Users\Joe\AppData\Local\Tem	Malware@#27s8	2018/03/19 11:28:31 AM
 		-	DESKTOP-D10L	eicar_com.zip	C:\Users\Joe\Downloads\eicar_co	Malware@#27s8	2018/03/19 11:36:36 AM
🛞 🖶 Kanchi Customer		.	samsung_SM-G	Test your Antivirus	avtester.underdog1987.com.prueb	Android.Test.Eicar	2018/03/19 11:22:51 AM
 ♣ kanchiidly ♣ ♣ Sky walk 		i	Technical Writin	Test Virus	com.androidantivirus.testvirus	Android.Test.Eicar	2018/03/19 11:04:04 AM

A list of malware identified from all the enrolled Android, Windows and Mac OS devices will be displayed.

	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 assigned to the device. If no name was assigned by the end-user 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 device name to view granular details about the device.			
	 See Manage Windows Devices, Manage Mac OS Devices and Manage Android / iOS Devices for more details. 			
Application Name	The name of the infected application.			
Package Name / File Path	The install location of the file on the endpoint. Android devices - The package name or identifier is shown.			
Signature	The name of the identified malware.			
Detection Date	Date and time that the malware was discovered.			

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 T on the right to filter items by various criteria, including by OS, device name,

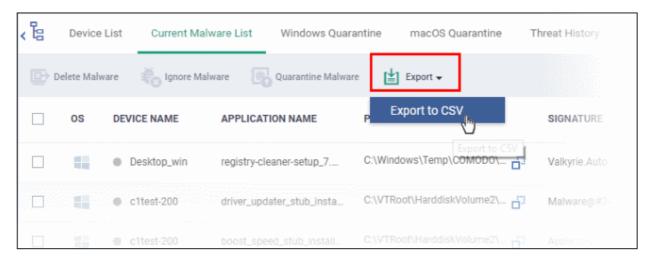
сомодо

application name, package name/file path, signature and detection date.

- · 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'.
- By default ITSM 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.

Export the malware list as a CSV file

- Click 'Security Sub-Systems' > 'Antivirus' > 'Current Malware List' tab
- Click the funnel i icon to filter which records are included in the report.
- Click the 'Export' button and choose 'Export to CSV':



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.

Take Actions on Threats

- 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 can choose to ignore it. The item will not be uninstalled from the device but will be removed from the 'Current Malware List'.
- 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).

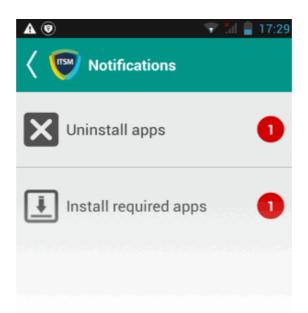
сомоло

<u>،</u>ه Device List Current Malware List Windows Quarantine Search group name B Show all Delete Malware Ignore Malware Ø Quarantine Malware ABC TV Services + 0S **DEVICE NAME** APPLICATION NAME PACK Chennai IT Services + + Coyote DESKTOP-D10L... eicar_com.zip Deer Company Default Group - Deer Company DESKTOP-D10L. EYi_SvUV.zip.part C:\Us 7 inch tabs DESKTOP-D10L... eicar.com Default Group Innotek PCs motorola_XT1562 SHAREit Mac Machines samsung_SM-G. Test your Antivirus

Threats identified on Android Devices

First, select the items on which you want to take the action. Then click one of the following:

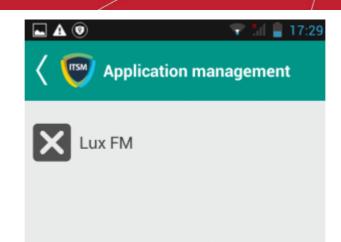
- Ignore Malware Select if the item is a false positive. The item will remain on the device.
- **Delete Malware** Select if you want to remove the malware from the device. The following notification will be sent to the affected device:



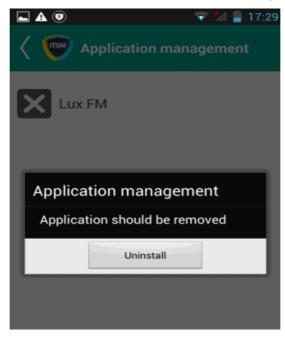
• Touch the alert to view a list of all items which are ready to be removed:

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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 on Windows Devices for more details.

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 on Mac OS Devices for more details.

9.6. View and Manage Quarantined Items on Windows Devices

· Click 'Security Sub-Systems' > 'Antivirus' > 'Windows Quarantine' to open the quarantine interface



You can take actions on quarantined files and/or assign ratings to them

How do threats get quarantined?

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 quarantine 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.

Quarantined items are encrypted and not allowed to run.

The 'Windows Quarantine' interface lists all items quarantined by CCS enrolled endpoints.

Administrators 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 'Windows Quarantine' interface

- Click 'Security Sub-Systems' on the left then choose 'Antivirus'
- Click the 'Windows Quarantine' tab
 - Click a company name then a group in the middle pane to view malware identified on devices in a particular group

Or

Select 'Show All' on the left menu to view malware identified on all devices enrolled to ITSM

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O Search group name	、语	Device List Curre	nt Malware List Window	ws Quarantine mad	cOS Quarantine Threat	History	
😕 Show all		Delete File(s) from Device	Restore File(s) on Device	Rate as Unrecogn	nized 👰 Rate as Trusted	👸 Rate as Malicious	O T
ABC TV Services Bervices Ghennai IT Services		DEVICE NAME A	FILE PATH	SIGNATURE	HASH	RATING DATE	QUARANTINED
+ 🖨 Coyote		DESKTOP-D10L0H4	C:\Users\Joe\A	Malware@#27s8ew	D27265074C9E	Not set 2018/	03/19 03:18:19 PM
 Beer Company Default Group - Deer Company 		DESKTOP-D10L0H4	C:\Users\Joe\D	Malware@#27s8ew	D27265074C9E	Not set 2018/	03/19 03:18:19 PM
— 📮 7 inch tabs		VIJAYALAKSHMI	E:\work\ccav\AI	ApplicUnwnt@#2s6	5EDDC3B48857 📋	Not set 2018/	03/19 03:30:28 PM
Default Group Dinnotek PCs		• VIJAYALAKSHMI	E:\work\ccav\AI	ApplicUnwnt@#1jyv	8CB0484C0527	Not set 2018/	03/19 03:30:28 PM
Mac Machines		VIJAYALAKSHMI	E:\work\ccav\AI	ApplicUnwnt@#rs5j	08F107AA9F17	Not set 2018/	03/19 03:30:28 PM

The 'Windows Quarantine' List - Table of Column Descriptions			
Column Heading	Description		
Device Name	The label assigned to the device. If no name is assigned by the device user, then the model number of the device will be used.		
	A gray text color indicates the device has been offline for 24 hours.		
	Click the device name to view granular details about the device.		
	See Manage Windows Devices for more details.		
File Path	The installation path of the infected application.		
	• Click the i icon to copy the path to 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.		
Hash	Displays the SHA1 hash value of the quarantined file		
	• Click the i icon to copy the hash value to the clipboard.		
Rating	The file's trust level as rated by CCS.		
Date Quarantined	Date and time at which the malware was quarantined on the device.		

The Windows Quarantine interface allows you to:

- Restore False Positives from Quarantine
- Remove Malware files from the devices
- Rate files as 'Unrecognized', 'Trusted' or 'Malicious'

Sorting, Search and Filter Options

- Clicking on any of the column headers sorts the table in ascending or descending order of the entries in the selected column.
- Click the funnel I on the top right opens the filter options.
 - To filter the items based on device details, file path, signature and / or hash value, enter the search criteria in part or full in the respective text boxes and click 'Apply'.
 - To filter the items based on file rating, select the required check box(es) under 'Rating' and click 'Apply'
 - To filter the items based on the quarantined dates, enter or select from the calendar the dates in the 'From' and 'To' fields under 'Date Quarantined' and click 'Apply'

You can use any combination of filters at-a-time to search for specific items.

- To display all the items again, remove / deselect the search key from the filter and click 'OK'.
- By default ITSM 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 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 On Device' from the options at the top.

The item will be restored to its original location from the quarantine and removed from the list.

ہ¢ ⊡	Device List Curr	ent Malware List	Windows Quarantine	macOS Quarantine		it History
	DEVICE NAME	FILE PATH	SIGNATURE	HASH		RATING
	DESKTOP-D10L0H	4 C:\Jsers\Joe\[D 🛗 Malware@#27	s8ew D27265074C9E	- <u>6</u> 3	Not set
	DESKTOP-D10L0H	4 C:\Users\Joe\/	A 🛗 Malware@#27s	s8ew D27265074C9E	- 61	Not set
	• VIJAYALAKSHM	E:\work\ccav\/	Al 🛗 Application.Wir	n32.L 846C130E1155	- 61	Not set
	Selected file s	uccessfully restore	d			

Remove Malware files from the devices

Select it from the list and click 'Delete File From Device' from the options at the top.

، ۴	Device List Current	Malware List Window	vs Quarantine mad	cOS Quarantine Th	reat History
	Delete File(s) from Device	Restore File(s) on Device	Rate as Unrecogn	nized 👰 Rate as Trus	ited 🍇
	DEVICE NAME	FILE PATH	SIGNATURE	HASH	RATING
	DESKTOP-D10LOH4	C:\Users\Joe\D	Malware@#27s8ew	D27265074C9E	Not set
	DESKTOP-D10LOH4	C:\Users\Joe\A	Malware@#27s8ew	D27265074C9E	Not set
	VIJAYALAKSHMI	E:\work\ccav\AI	Application.Win32.L	846C130E1155	Not set
	VIJAYALAKSHMI	E:\work\ccav\AI	ApplicUnwnt@#rs5j	08F107AA9F17	Not set
	Delete File(s)	from Device	elected device(s)?		×
				Confirm Can	cel

• Click 'Confirm' in the confirmation dialog.

The file will be deleted from the device at which it was quarantined and 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 device.
- To change the rating of a quarantined file, select it and click the appropriate button at the top:

، ل و	Device List Current	Malware List Wind	dows Quarantine	macOS Quarantine T	hreat History	
	Delete File(s) from Device	Restore File(s) on Devi	ce 🕞 Rate as Unre	cognized 😥 Rate as Tr	usted 👸 Rate a	s Malicious
	DEVICE NAME	FILE PATH	SIGNATURE	HASH	RATING	DATE QUAF
	DESKTOP-D10L0H4	C:\Users\Joe\	ApplicUnwnt@#29	3395856CE81F 📋	Unrecognized	2018/03/ 19
	DESKTOP-D10L0H4	C:\Users\Joe\	Malware@#27s8e	D27265074C9E	Not set	2018/03/19
	• VIJAYALAKSHMI	E:\work\ccav\A	Application.Win32	846C130E1155	Not set	2018/03/19
		E-March 199	······································			

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.

9.7. View and Manage Quarantined Items on Mac OS Devices

- · Click 'Security Sub-Systems' > 'Antivirus' > 'Mac OS Quarantine' to open the quarantine interface
- · You can take actions on quarantined files and/or assign ratings to them

How do threats get quarantined on a MAC?

- 'Automatically quarantine threats found during scanning' is enabled in the antivirus section of the profile on the device
- The end user chooses to quarantine the threat from a displayed alert
- An administrator moved a threat to quarantine from the 'Current Malware List' interface
- An end-user moved a file to quarantine on the endpoint

Items moved to quarantine are encrypted and not allowed to run.

See Scanner Settings in Antivirus Settings for Mac OS Profile, and Viewing and Managing Identified Malware for more details.

The 'Mac OS Quarantine' interface lists all items quarantined by CAVM on managed Mac OS endpoints.

Administrators can:

- Assign a rating to quarantined files (trusted, malicious or unrecognized)
- Delete them permanently
- Restore them to their original location

To open the Quarantine Files interface

- Click 'Security Sub-Systems' on the left and choose 'Antivirus' from the options
- Click the 'Mac OS Quarantine' tab

Ø Search group name	CTE Device List Current Malware List Windows Quarantine macOS Quarantine Threat His	istory
😕 Show all	🕞 Delete File(s) from Device 🔤 Restore File(s) on Device	Rate as Malicious
ABC TV Services Default Group - ABC TV Services	DEVICE NAME FILE PATH SIGNATURE HASH	RATING DATE QUARANTINED
	C1-Mac's Mac mini /itsmagent-installer.pkg 🔂 User Item 8766828F732126E81E_	Not set 2018/03/19 04:03:25 PM
+ Deer Company	C1-Mac's Mac mini /cdm-5.mobileconfig 🗗 User Item 00A40B28A82656D0C	Not set 2018/03/19 04:03:11 PM
→ 🖶 Default Company	C1-Mac's Mac mini /anyconnect-win-3.1.13_ 🗗 User Item DD4E57D87B01F25E1F_ 📑	Not set 2018/03/19 04:03:02 PM
Horizon	Results per page: 20 v	Displaying 1-3 of 3 results

The 'Mac OS Quarantine' List - Table of Column Descriptions			
Column Heading	Description		
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.		

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	See Manage Mac OS Devices for more details.
File Path	 The installation path of the infected application. Click the is icon to copy the path to the clipboard.
Signature	The name of the malware. 'User Item' indicates the file was moved to quarantine manually by the user on the endpoint.
Hash	 Displays the SHA1 hash value of the quarantined file Click the i icon to copy the hash value to the clipboard.
Rating	Since CAVM does not have file rating functionality, the column will show 'Not Rated'. Administrators can manually change the rating from the options above and this change will be reflected in the interface.
Date Quarantined	Date and time at which the malware was quarantined on the device.

The 'Mac OS Quarantine' interface allows you to:

- Restore False Positives from Quarantine
- Remove Malware files from the devices
- Rate files as 'Unrecognized', 'Trusted' or 'Malicious'

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 rating applies only to Windows based files quarantined by Mac OS devices.
 - Files rated as 'Trusted' will restored to their original location.
 - The file rating will apply to all managed endpoints, regardless of operating system. If a file
 originally found on a MAC is subsequently discovered on a Windows device, it will be awarded the
 same rating on the Windows device.

Restore False Positives from Quarantine

• If the identified item is a false positive, select the item from the list and click 'Restore File On Device' from the options at the top.

ka ∎	Device List Control Delete File(s) from Device		Windows Q	Rate as Unre	macOS Quara		Threat H Trusted	Rate as	Malicious	O	Y
	DEVICE NAME	FILE PATH		SIGNATURE	HASH			RATING	DATE Q	UARANTINED	
	C1-Mac's Mac n	nini /itsmagent-installe	r.pkg	User Item	8766828	F732126E8	1E 🗂	Not set	2018/03	3/19 04:03:25 PM	
	C1-Mac's Mac n	nini /cdm-5.mobileconf	fig 📑	User Item	00A40B2	28A82656D0)C 📋	Not set	2018/03	3/19 04:03:11 PM	
	C1-Mac's Mac n	nini /anyconnect-win-3.	.1.13 📑	User Item	DD4E57D	087B01F25E	1F 🗂	Not set	2018/03	3/19 04:03:02 PM	
esults	per page: 20 🔹	~								Displaying 1-3 of 3	3 results

The item will be restored to its original location from the quarantine and removed from the list.

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Remove Malware files from the devices

• Select the item to be removed from the device from the list and click 'Delete File From Device'.

Devi	ce List Current Malw	vare List Windows	s Quarantine macC	OS Quarantine Th	nreat History	
	Delete File from Device	Restore File on D	evice 📑 Rate as	Unrecognized 🕵	Rate as Trusted	
	DEVICE NAME	FILE PATH	SIGNATURE	HASH	RATING	
	CI-Mac's Mac mini	/Users/c1-mac	Malware@#27s8e	D27265CE914	1 📑 Not rated	
	V					
ſ	Delete File from De	vice			×	
C	oo you really want to del	ete file(s) from selec	ted device(s)?			
			l	Confirm Ca	ncel	

Click 'Confirm' in the confirmation dialog.

The file will be deleted from the device at which it was quarantined and from the list.

Rate files as 'Unrecognized', 'Trusted' or 'Malicious'

ITSM allows administrators to change the trust rating of a files quarantined by Mac OS devices from this interface.

- The file rating applies only to Windows based files quarantined by Mac OS devices.
 - · Files rated as 'Trusted' will be restored to their original location
 - The file rating will apply to all managed endpoints, regardless of operating system. If a file
 originally found on a MAC is subsequently discovered on a Windows device, it will be awarded the
 same rating on the Windows device.
- To change the file rating of a quarantined file, select it and click the respective rating button at the top

، ۴	Device List Curre	ent Malware List Window	s Quarantine macOS	Quarantine Threat	History	
₽	Delete File(s) from Device	Restore File(s) on Device	Rate as Unrecognized	Rate as Trusted	Rate as Mali	icious 🖸 🍸
	DEVICE NAME	FILE PATH	SIGNATURE	HASH	RATING	DATE QUARANTINED
	C1-Mac's Mac mini	/cdm-2.mobilec	User Item	E8D770BF399D	Not set	2018/03/19 04:51:50 PM
	C1-Mac's Mac mini	/Applications/Ci	User Item	A35760FAB4A8	Not set	2018/03/19 04:56:29 PM
	C1-Mac's Mac mini	/acsock.xml	User Item	D554727FB395	Not set	2018/03/20 02:39:12 PM

A confirmation message is shown and the information will also be sent to all endpoints.

9.8. View Threat History

Click 'Security Sub-Systems' > 'Antivirus' > 'Threat History' to view all malware discovered on devices since

you deployed ITSM.

The 'Threat History' interface is a log of all malicious items found on Android, Windows and Mac OS 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.
 - Click a company name then a group in the middle pane to view a log of malware identified on devices in a particular group

Or

 Select 'Show All' on the left menu to view a log of malware identified on all devices enrolled to ITSM

Ø Search group name	، ۴	Devic	e List Current	Malware List Windo	ows Quarantine macOS Quar	antine Threa	t History		
😕 Show all	3	Clean His	tory for File(s)						O Y
ABC TV Services Dennai IT Services		OS	DEVICE NAME	APPLICATION NAME	PACKAGE NAME / FILE PATH	SIGNATURE	STATUS	FIRST DETECTION -	LAST DETECTION
💽 🖶 Coyote		44	• VIJAYALA	pcflank.exe	E:\work\Suspicious Files	ApplicUnwnt	In quarantine	2018/03/20 08:09:	2018/03/20 08:09
— 📮 Default Group - Deer Company		-	• DESKTOP	eicar.com	C:\Users\Joe\Downloads	ApplicUnwnt	Infected	2018/03/19 11:36:	2018/03/19 11:40
— 🖸 7 inch tabs — 🔽 Default Group		-	DESKTOP	eicar_com.zip	C:\Users\Joe\Downloads	Malware@#	Infected	2018/03/19 11:36:	2018/03/19 11:40
— 📮 Innotek PCs			• DESKTOP	EYi_SvUV.zip.part	C:\Users\Joe\AppData\L	Malware@#	Infected	2018/03/19 11:28:	2018/03/19 11:40
C MaC Machines G Running Staff		÷	samsung	eicar_com.zip	/storage/emulated/0/Do	Android.Test	Infected	2018/03/19 11:22:	2018/03/20 10:43
Default Company Default 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					
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 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 and Mac OS devices, the file path of the detected malware will be displayed.					
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	Devi	ce List	Current	t Malware List	Windov	vs Quarantine	macOS Quara	antine Thre	eat History
(F)	Clean Hi	story for File	(s)						
	os	DEVICE	NAME	APPLICATION N	AME	PACKAGE NAM	E / FILE PATH	SIGNATURE	STATU
		● VIJA	YALA	pcflank.exe		E:\work\Suspic	ious Files 📋	ApplicUnwnt	
		• VIJA	YALA	DNStest.zip		E:\work\ccav\A	II_tests\D	ApplicUnwnt	
		• VIJA	YALA	Surfer.zip		E:\work\ccav\A	II_tests\S	ApplicUnwnt	
		V							
		Delete	e File H	listory					×
		Entire fi	le histor	y will be removed	l. Do you	want to contin	ue?		
							Confi	irm Cano	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 **Y** 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'.
- By default ITSM 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.

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':

، ۴	Device	List Current	Malware List	Windows Quarantine	macOS Quaran	tine Threat	History
Ð	Clean Histo	ry for File(s)	Export 🗸				
	OS	DEVICE NA	Export to CSV	PACKAGE N	AME / FILE PATH	SIGNATURE	STATUS
		DESKTOP	jre-10.0.1_wir		bby1\Deskto	ApplicUnwnt	In quarantine
		DESKTOP	jdk-10.0.1_wi	ndows-x C:\Users\bo	bby1\Deskto 📑	ApplicUnwnt	in quarantine

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
- ITSM 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' on the left then select 'Device Control'

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COMODO

IT & Security Manager		Device Control		· · · ·	🔁 🗿 🛓	.ogout (kamal@j	yopmail.com)		
DASHBOARD	>	-							
DEVICES	>	重					Y		
A USERS	>	Export							
	>	HARDWARE NAME	DATE DETECTED	HARDWARE CLASS	HARDWARE PATH	HOST DEVICE	STATUS .		
	>	Cisco AnyConnect							
	>	Secure Mobility Client Virtual Miniport Adapter for	2017/12/11 03:30:00 PM	4D36E972-E325-11CE- BFC1-08002BE10318	ROOT\NET\0000	COOL-PC B (removed)	Blocked		
SECURITY SUB-SYSTEMS	~	Windows							
Containment Application Control		WAN Miniport (PPPOE)	2017/11/03 01:43:37 PM	4D36E972-E325-11CE- BFC1-08002BE10318	ROOT\MS_PPPOEMINIPORT\0000	WIN864JOHN (removed)	Allowed		
Next Gen Sandbox Antivirus		Microsoft ISATAP Adapter	2017/10/27 12:27:31 PM	4D36E972-E325-11CE- BFC1-08002BE10318	ROOT*ISATAP\0001	WIN7_64-PC (removed)	Allowed		
Device Control				WAN Miniport (SSTP)	2017/11/03 01:43:37 PM	4D36E972-E325-11CE- BFC1-08002BE10318	ROOT\MS_SSTPMINIPORT\0000	WIN864JOHN (removed)	Allowed
<u> </u>	,	CD-ROM Drive	2017/11/03 01:43:37 PM	4D36E965-E325-11CE- BFC1-08002BE10318	SCSI\CDROM&VEN_VBOX&PROD_CD- ROM\4&3554261F&0&020000	WIN864JOHN (removed)	Allowed		
		USB Input Device	2017/11/03 01:43:37 PM	745A17A0-74D3-11D0- B6FE-00A0C90F57DA	USB\VID_80EE&PID_0021\5&35F564D4&	WIN864JOHN (removed)	Allowed		

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

- Clicking on any of the 'Hardware Name', 'Hardware Class', 'Host Device' or 'Status' column headers sorts the items based on alphabetical order of entries in that column.
- - 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'.
- By default ITSM 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 a report containing log of device connection attempts

Click 'Security Sub-Systems' > 'Device Control'



- Click the funnel icon **T** 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	2017/10/27 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

The 'Certificate List' interface allows administrators to view client and device certificates acquired from Comodo Certificate Manager and installed on devices by ITSM. Administrators can also 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 ITSM with your CCM account. For more details, refer to the section **Integrating ITSM with Comodo Certificate Manager**.

To open the 'Certificate List' interface

Click 'Certificates' on the left and choose 'Certificate List'

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IT & Security Manager			License Options	🗗 🕜 🕹 Logou	t (coyoteewile@yahoo.com)
DASHBOARD	>				
DEVICES	>				
A USERS	>	Revoke Renew Certificate Certificate			Ť
	>		DEVICE USER	CREATED AT	EXPIRATION DATE STATUS
	>	ssgalia@yahoo.com	DESKTOP- TTPO9PR ssgalia@yahoo	0.com 2017/03/09 03:13:09 PM	Request pending Failed
	>	Dyanora	DESKTOP- HIP81N3 Dyanora	2017/04/24 10:30:35 AM	Request Failed pending
CERTIFICATES	> ~	Cheff	DESKTOP- TTPO9PR cheff	2017/04/24 11:41:58 AM	Request Failed
Certificate List		avantistude@gmail.com	CW002 avantistude@g	mail.com 2017/04/27 11:57:37 AM	Request Failed
SETTINGS	>	Results per page: 20 🗸			Displaying 1-4 of 4 results

The list of certificates issued by CCM for users and devices through ITSM will be displayed.

Certificate List - Column Descriptions					
Column Header	Description				
Certificate Name	The name 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

- Clicking on any of the 'Certificate Name', 'Device', 'User' or 'Created At' column headers sorts the items based on alphabetical order of entries in that column.
- Clicking the funnel button **T** at the right end opens the filter options.

	Certificate Name
9	Certificate Name
M	Device
	Device
	User
	User
	Created At
	Start 🗰 Enc 🗰

- To filter the items or search for a specific item based on the certificate name, device name or username, enter the search criteria in the respective field and click 'Apply'.
- To filter the items based on the period at which the certificate request was made, enter the start and end
 dates of the period in the 'From' and 'To' fields under respective categories, using the calendars that appear
 on clicking inside the respective field 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'.
- By default ITSM 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.

Managing 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 Comodo IT and Security Manager

The 'Settings' tab allows administrators to configure email notifications, active directory, Google Cloud Messaging (GCM) and Apple Push Notification (APN) certificates, integration with Comodo Certificate Manager and more. Administrators can also manage subscriptions, renew/upgrade licenses and view support information from this interface.

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IT & Security Manager		■ Portal Set-Up / Active Directory	License Option
DASHBOARD	>		
DEVICES	>	Active Directory APNs Certificate	Android Client Configuration
A USERS	>	🛱 Add 📿 Sync with LDAP	
	>	LDAP ACCOUNT DOMAIN C	OMPANY NAME ENABLE DO
	>	☐ itsm-team.net D	ithers Construct Enabled
	>	Results per page: 20 🗸	
SECURITY SUB-SYSTEMS	>		
CERTIFICATES	>		
	~		
System Templates			
Portal Set-Up			
Subscriptions			
Support			

The following sections provide more details on each area:

- Email Notifications, Templates and Custom Variables
 - Configuring Email Templates
 - Configuring Email Notifications
 - Creating and Managing Custom Variables
 - Creating and Managing Registry Groups
 - Creating and Managing COM Groups
 - Creating and Managing File Groups
- ITSM Portal Configuration

•

- Importing User Groups from LDAP
- Adding Apple Push Notification Certificate
- Configuring the ITSM Android Agent
 - Configuring General Settings
 - Configuring Android Client Antivirus Settings
 - Adding Google Cloud Messaging (GCM) Token
- Configuring ITSM Windows Client
- Managing ITSM Extensions
- Configuring ITSM Reports
- Integrating with Comodo Certificate Manager
- Setting-up Administrators Time Zone



Viewing and Managing Licenses

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- Upgrading or Adding a License
- Viewing Version and Support Information

11.1. Email Notifications, Templates and Custom Variables

The 'System Templates' area allows admins to manage email notifications and templates, and to specify variables and file groups that can be used in various profile settings.

IT & Security Manager		License Opti
DASHBOARD >		
DEVICES >	Email Templates Email Notifications	Custom Variables
<u>A</u> users >	NAME	SUBJECT
CONFIGURATION TEMPLATES	Activate account	IT and Security Man
APPLICATION STORE	Password reset	IT and Security Man
APPLICATIONS >	T assimula reset	IT and Security Man
$\bigcirc \text{security sub-systems} \qquad > \qquad$	Device enrollment	IT and Security Man
S CERTIFICATES >	Email notification	IT and Security Man
🔅 SETTINGS 🗸 🗸		
System Templates	Device enrollment via Active Directory	IT and Security Man
Portal Set-Up Subscriptions	Results per page: 20 V	
Support		

The following sections explain more about:

- Configuring Email Templates
- Configuring Email Notifications
- Creating and Managing Custom Variables
- Creating and Managing Registry Groups
- Creating and Managing COM Groups
- Creating and Managing File Groups

11.1.1. Configure Email Templates

ITSM uses predefined templates to send automated mails to end-users for account activation, device enrollment, password reset and so on. Administrators can customize these templates according to their requirements. For example, you can edit email subject and content, insert custom variables and more.

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To view and manage email templates

- · Click 'Settings' on the left and select 'System Templates'.
- Click the 'Email Templates' tab

Email Templates	Email Notifications	Custom Variables	Registry Varia	ables	COM Variables	File Groups Variables
NAME		SUBJECT		INCLUE	DED VARIABLES	
Activate account		IT and Security M	lanager - Acc		ame% - Name of regis ateLink% - Link for Act	stered user tivate and set password
Password reset		IT and Security M	lanager - Pas	%linkRe %suppo	ame% - Name of regis esetPass% - Link for re ortEmail% - Support er ntDate% - Current date	eset password mail
Device enrollment		IT and Security M	lanager - Dev	%linkEr	Iroll% - Link of enrollm	nent the client
Email notification		IT and Security M	lanager - Em	%event %devic	Datetime% - Event tim Title% - Event title eUrl% - URL device de iption% - Additional da	tail view
Device enrollment via	a Active Directory	IT and Security M	lanager - Dev	%linkEr	1011% - Link to enrollm	nent page
Results per page:	20 🗸				D	isplaying 1-5 of 5 results.

Email Templates- Column Descriptions				
Column Heading	Description			
Name	Indicates the name of email template. This cannot be edited.			
Subject	Displays the subject line of the email.			
Included Variables	Displays the variables contained in the email, with their values. These cannot be edited.			

To edit an email template

- Click 'Settings' on the left and select 'System Templates'.
- Click the 'Email Templates' tab
- Click on the type of email template under the 'Name' column that you want to edit.

The template editor of the respective email type will be displayed. For example, if you click the 'Activate Account' link, the following template editor will be displayed:

Activate Account

Т

Email Editor			💎 Edit
Email Subject IT and Security Manager - Account activation			
Email Body Dear %username%,			
Congratulations, your IT and Security Manager account has be Please click the following link to activate your account and set			
%activateLink%			
To edit the subject line and the message, click the edit mail Editor' window will open.	button 📝 Edit	on the top I	ight.
mail Editor' window will open.	button 📝 Edit	on the top I	ight.
mail Editor' window will open.	button	on the top r	ight.
mail Editor' window will open.	button		
mail Editor' window will open.	button		

Source	
BI	<u>U</u> S × ₂ × ² <u>I</u> _x) <u>I</u> = := : E : E E = E = E @ @ @ []
Font	→ Size → Uservar →
Dear %	sername%,
	lations, your IT and Security Manager account has been successfully created.
Congrat	

 Edit the subject line and email content of the template per your requirements and insert the variables available in the toolbar wherever required.

Note: For each type of email template, appropriate variables will be available in the toolbar. Make sure not to change the variable name as these will not work at all or fetch wrong values.

• Click the 'Save' button for your changes to take effect.

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ITSM can be configured to send alert emails to selected administrators and users on events like detection of a new infection and removal of iOS and Mac OS devices.

To configure email notifications

- Click 'Settings' on the left and select 'System Templates'.
- Click 'Email Notifications' at the top

Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Var 🕨
Send To Alert					
Send To Se	ttings				💎 Edit
ITSM Administ Disabled	rators				
Send to Email L Disabled	ist				
Email List Email List Is En	npty				
Send to User Li Disabled	st				
User List User List Is Em	pty				

The interface contains two tabs.

- · Send To Allows to configure the alert recipients email addresses
- · Alerts Allows to configure the type of alert for which the email notifications will be sent

To configure email alert recipients

• Click 'Send To'

The 'Send to Settings' screen will be displayed.

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Send To Alerts Send To Settings ITSM Administrators Disabled Send to Email List Disabled Email List Email List Is Empty Send to User List Disabled User List User List Is Empty

- ITSM Administrators If enabled, the alerts will be sent to all ITSM administrators
- Send to Email List If enabled, the alerts will be sent to selected recipients whose addresses are added to the 'Emails List'
- Emails List Displays the list of email addresses of recipients added to the 'Email List'.
- Send to User List If enabled, the alerts will be sent the ITSM users that are added to the 'Users
 List'
- User List Displays the list of users added to the 'User List'.

•

Click the 'Edit' button at the top right to add new recipients and / or edit the current details

Send To Alerts			
Send To Settings		Cancel	Save
 ITSM Administrators 			
Send to Email List			
Email List			
× testuser720@gmail.com			
Send to User List			
User List			
× dyanora			

• To add recipients under 'Emails List', type the email address in the field and click the 'Enter' key or click the address that appear below the field.

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Send To Alerts		
Send To Settings	Cancel	Save
 ITSM Administrators Send to Email List Email List 		
× testuser720@gmail.com SNOW@yopmail.com		
<u>snow@yopmail.com</u>		
User List Choose Users		

Please note the check box(es) should be enabled for the alerts to be sent.

• To add ITSM users as recipients, click in the 'Users List' field

The available ITSM users will be listed.

Email List	
× testuser720@gmail.com	
Send to User List	
User List	
admin	
Impala	
coyoteewile@yahoo.com	
ssgalia	
cheff	
maxlenin2016@outlook.com	

• Select the users from the list

Please note the 'Send to Users List' check box should be enabled for the alerts to be sent to the users.

• Click the 'Save' button at the top right for your changes to take effect.

To configure alert settings

Click 'Alerts'

The 'Alert Settings' screen will be displayed.

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Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variable: 🕨
Send To Alert					
Alert Settin	ngs				📝 Edit
New infection det Enabled	ected				
iOS device remov Enabled	al detected				
OS X device remo Enabled	val detected				

The alerts interface allows you to select the events for which the alerts are sent.

- New Infection Detected If enabled, an alert will be sent if a new malware is detected at an endpoint.
- iOS Device Removal Detected If enabled, an alert will be sent if an iOS device is removed from ITSM
- Mac OS Device Removal Detected If enabled, an alert will be sent if a Mac OS device is removed from ITSM.

Click the 'Edit' button at the top right to enable/disable the type of alert.

Send To Alerts		
Alert Settings		Cancel Save
 New Infection Detected IOS Device Removal Detected OS X Device Removal Detected 	etected	

- Select / deselect the check boxes besides the alerts to enable / disable them
- · Click the 'Save' button for the changes to take effect

11.1.3. Create and Manage Custom Variables

ITSM is capable of fetching values for variables which have been defined for various settings and configuration profiles. There are three types of variables, ('User', 'Device' and 'Custom' variables), that can be used by the administrator to configure various settings.

When configuring various settings for a profile, the 'Variables' button will appear in fields which can have variables added. On clicking this button, a list of variables added to ITSM will appear. Choose the variable you wish to add:

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	+ Variables
Variables list	×
User Variables	> _
Device Variables	>
Custom Variables	~
%c.port%	+
%c.server%	+
%c.WIFi2_KEY%	+
%c.custom_variable%	+
%c.srthaswert%	+
%c.q%	+ .

The first two, 'User Variables' and 'Device Variables', are hard coded and cannot be altered. These are useful for fetching the values of user and devices, for example user login details, email details from 'Users' > 'User List'. The last one, 'Custom Variables', can be created by administrators used in the configuration of various settings.

The custom variables can be added to ITSM from the 'Custom Variables' interface. These are useful for rolling changes across all profiles that have custom variables inserted. For example, if an administrator has provided a variable for an app in the AV scanning exclusion list in the Anti-virus settings of a profile and wants to change the app, he can just change the value in the custom variable screen. The changes will be rolled out to all profiles that has this custom variable.

To view the list of custom variables, add new variables and manage them

- · Choose 'Settings' on the left and select 'System Templates'
- Click the 'Custom Variables' tab from the top of the interface

Emai	l Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Varial 🕨
(xg)	Add Variable	Delete				Ţ
	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:	20 🗸			Di	splaying 1-1 of 1 result.

	Custom Variables - Column Descriptions
Column Heading	Description
Кеу	Displays the name of key for the value in the next column. Clicking the key will open the 'Update Custom Variable' interface that allows you to edit the value for the key.
Value	Displays the value for the key

Author	Displays the name of administrator that created the custom variable. Clicking the name of the administrator will open the 'View User' pane, displaying the details of the user. Refer to the section Viewing the details of a User for more details.
Last Modified By	Displays the name of the user that last modified the custom variable.
Created	Displays the date and time at which the custom variable was created.

Sorting, Search and Filter Options

- Clicking on any of the column headers will 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

COM	Variables File Groups Varial >
	K
3	Кеу
ult.	
	Value
	Author
	Last Modified By

• To display variables which are based on 'Key', 'Value', 'Author' and 'Last Modified By', enter the text partially or fully in the respective fields and click the 'Apply' button.

The custom variables that matches the entered parameters will be displayed in the screen.

- To display all the variables again, clear the selections in the filter and click the 'Apply' button.
- · Click on the funnel icon again to close the filter option

To create a new Custom Variable

- · Click 'Settings' on the left, choose 'System Templates' and click the 'Custom Variables' tab
- Click 'Add Variable'

Email Templates Email Notifications **Custom Variables Registry Variables** Add Variable 💫 Delete LAST MODIFIED BY AUTHOR KI %c. i_fi_office% wifi_ssid demo_q3@yopmail.... Not modified Results per p ge: 20 **Create New Variable** Close Key * Key Value * Value Save

- In the 'Create New Variable' dialog enter a variable name in the 'Key' text box.
- In the 'Value' text field, enter the value for the variable.
- Click 'Save' to add the variable to ITSM.

The variable will be added and listed in the screen.

To edit a Custom Variable

• Click on the name of the 'Custom Variable' to be edited.

The 'Update Custom Variable' screen will appear.

Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variable 🕨
Update Cus	stom Variable			Can	cel 🕒 Save
Key *					
wi_fi_office	3				
wifi_ssid					

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• 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

Each Registry group is a predefined batch of one or more registry keys and values that fall under a specific category. ITSM ships with a set of predefined Registry Groups that are available for use in configuration profiles, for example. to specify a group as an exclusion to containment rules when configuring 'Containment Settings' in a Windows profile. If required, administrators can add new groups and edit existing groups.

The 'Registry Variables' tab in the 'System Templates' interface allows administrators to view, create and manage pre-defined and custom Registry groups. The groups added to this interface will be available for selection while configuring Windows Profiles from the 'Profiles' interface.

To open the 'Registry Groups' interface

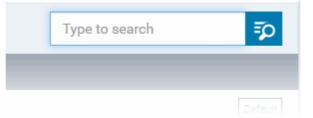
- · Click 'Settings' from the left and select 'System Templates'
- · Click 'Registry Variables' from the top

	Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variables
Т	ype Name of New R	egistry G ≡ ₊				Q≣
-	REGISTRY GROUPS					
+	Automatic Startup					Default
+	COMODO Keys					Default
+	Important Keys					Default
+	Internet Explorer Keys	I				Default
+	Temporary Keys					Default

The list of default and user-defined Registry groups will be displayed. The default groups are indicated by 'Default' at their right and cannot be edited or deleted.

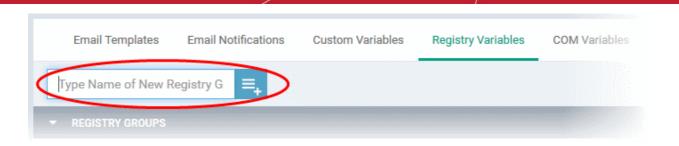
Sorting, Search and Filter Options

- Clicking on the 'Registry Groups' column header will sort the items in ascending/descending order of the names of the Registry groups.
- To filter or search for a specific Registry group, click the search icon at the top right and enter the name of the group on part or full



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

Reg keys of Account Software	
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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New Registry Entry	Add			
HKEY_LOCAL_MACHINE\S0	TWARE\ditheraccounts\8.3\File	Associations		E.
Donomo Dogi	ter Ceter		Close	0
Rename Regi	try Entry	4	Close	
Rename Regis	stry Entry		Close	Ŀ
Registry Entry	NE\SOFTWARE\ditheracco	unts\8.3\FileAssociation		E
Registry Entry		unts\8.3\FileAssociation		L

- 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.

A confirmation dialog will appear.

Deletion of Registry Entry «HKEY_LOCAL_MACHINE\SOFTWARE \ditheraccounts\8.3\FileAssociations»
You are really want to delete «HKEY_LOCAL_MACHINE\SOFTWARE\ditheraccounts\8. 3\FileAssociations» from «Reg keys of Account Software»?
Ok Cancel

• 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' > 'Registry Key Exclusions'.

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Manage Exclusi	ons	Close
Add - Registry Entry		
	ry Keys Exclus	ion Registry Groups
Registry Groups	Automatic Startup COMODO Keys	ACTIONS
You can add/edit Registry	Internet Explorer Keys Important Keys	ОК
k	Temporary Keys Reg keys of Account Software	>

To edit the name of a Registry Group

• Click the 'Edit' icon beside the Registry Group

Reg keys of Account Software		
Rename Registry Group	Close	
Registry Entry Reg keys of Account Software		
	ОК	

• 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

g keys of Account Software			-
New registry entry	Add		
Confirm Group De	eletion		
Are you sure you wa	int to delete the group «Reg	keys of Account Softwa	re»?

A confirmation dialog will appear.

• Click OK in the confirmation dialog.

11.1.5. Create and Manage COM Groups

Each COM group is a handy collection of COM interfaces falling under a certain category. ITSM 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, administrators can add new COM Groups, edit and manage them.

The COM Variables tab in the 'System Templates' interface allows administrators to 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' on the left and select 'System Templates'
- Click 'COM Variables' from the top

Email Terr	plates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variables
Type N	ame of N	lew COM Grou 🛛 🗮 🕇				₹
- COM	GROUPS					
+ Interr	et Explore	er/Windows Shell				Default
+ Misce	ellaneous	Classes				Default
+ Pseu	do COM In	terfaces - Important Ports				Default
+ Pseu	do COM In	terfaces - Privileges				Default
+ Wind	ows Mana	gement				Default

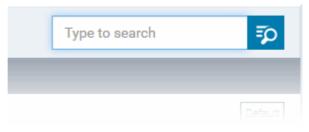
The list of pre-defined and user-defined COM groups will be displayed. The default groups are indicated by 'Default' at their right and cannot be edited or deleted.

Sorting, Search and Filter Options

• Clicking on 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 Cla	ass =,	>			
▼ COM GROUPS					
+ Internet Explore	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	× 0
	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.



 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 Rules	Sets 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 Po	rts
Special COM Classes	

To edit a class in the group, click the 'Edit' icon beside the class name.

•

- Spec	ial COM Classes	Ø 🗇
1	New COM Component Add	Q
*	\RPC Control	
+ Wind	Rename COM Component Close	Default
	COM Component Name	
******	*\RPC Control	
	ОК	

- Edit the entry and click 'OK' to save your changes •
- To remove the COM class added by mistake or an unwanted class from the group, click the trash can icon • beside the COM component name.

A confirmation dialog will appear.

Deletion of Component «*\RPC Control»	
You are really want to delete «*\RPC Control» from	n «Special COM Classes»?
	Ok Cancel

Click 'OK' in the confirmation dialog. •

To edit the name of a COM Group

Click the 'Edit' icon beside the COM Group •

pecial COM Classes	
indows Management	
Rename COM Group 🚄	Close
COM Component Name	
Special COM Classes	

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 СОМОДО

ecial COM Classes			6
New COM compone	Add		/
			<u> </u>
Confirm Group D	Deletion		K
Confirm Group D	Deletion		k
	Deletion vant to delete the group «Spe	ecial COM Classes»?	k

A confirmation dialog will appear.

• Click 'OK' in the confirmation dialog.

11.1.6. Create and Manage File Groups

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. ITSM 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 allows administrators to view, create and manage pre-defined and custom file groups. The groups added to this interface will be available for selection while configuring Windows Profiles from the 'Profiles' interface.

To open the 'File Groups ' interface

- · Click 'Settings' on the left and select 'System Templates'
- Click 'File Groups Variables' from the top

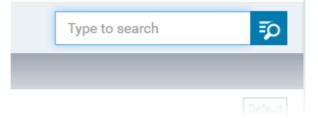
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Email Templates	Email Notifications	Custom Variables	Registry Variables	COM Variables	File Groups Variables
Type Name o	f New File Grou				₹
▼ FILE GROUP	s				
+ 3rd Party Pro	otocol Drivers				Default
+ All Application	ons				Default
+ Browser Plug	gins				Default
+ COMODO Cli	ent - Communication				Default
+ COMODO Cli	ient - Security				Default
+ COMODO Cli	ient - Security Manager				Default
+ COMODO Cli	ent Files/Folders				Default
- Containment					Defauit

The list of default and user-defined File 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

- Clicking on the 'File Groups' column header will 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	'urchase Dep'				Ęρ
▼ 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

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+	Email Clients		
-	Exclusions for Purchase Dept F	Profile	/ 1
	New file group path	Add	ē
	Executables		 2.6.1

 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.

٠

E	Exclusions for Purchase Dept P	Profile	1
	New file group path	Add	Ę
	C:\Program Files (x86)\Ope	enOffice 4\program*	1

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.

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General Antivirus	
Antivirus	Save Delete
Realtime Scan Scans Exclusions	
Excluded Paths Excluded Applications Excluded Groups	
Add	
	Close
Add Group	
Group	
Group	
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	
Sandbox Folders	E
Important Files/Folders	
Temporary Files	
Comodo One Client - Communication	
Comodo One Client - Security Manager	
Browser Plugins	
Media Players	
Exclusions for Purchase Dept Profile	· · · · · · · · · · · · · · · · · · ·

• To edit the files in the group, click the 'Edit' icon beside the file name.

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	Purchase Dept Profile	2
New File	Group Path Add	
C:\Program	Files\OpenOffice 4\program*	(*
R	ename Path	Close
Fil	le Path	
	C:\Program Files\OpenOffice 4\program*	
		οκ

- Edit the file path in the Rename Path dialog and click 'OK'.
- To remove ta file added by mistake or an unwanted file from the group, click the trash can icon beside the file name.

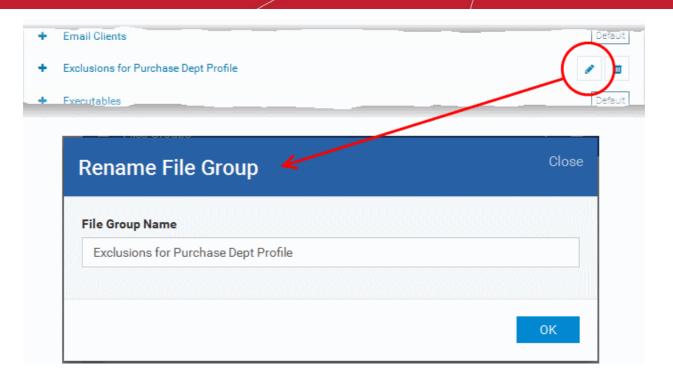
New file group patł	Add		
C:\Program Files\OpenOffic	e 4\program*		ø
etion of Path «C:\Pr	ogram Files\OpenOffice 4\program	m*»	
letion of Path «C:\Pr	ogram Files\OpenOffice 4\prograr	m*»	
	e «C:\Program Files\OpenOffice 4\program\		

A confirmation dialog will appear.

Click OK in the confirmation dialog

To edit the name of a File Group

• Click the 'Edit' icon beside the File Group



• 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
+	Email Clients	s Default
+	Exclusions f	or Purchase Dept Profile
÷	Executables	Default
	Conf	irm Group Deletion
	Are	you sure you want to delete the group «Exclusions for Purchase Dept Profile»?
	740	you sure you want to delete the group «Exclusions for Purchase Dept Prome»?

A confirmation dialog will appear.

• Click 'OK' in the confirmation dialog.

11.2. ITSM Portal Configuration

The 'Portal Set-up' tab under 'Settings' tab allows administrators to set-up and configure the ITSM portal as per their requirements. Administrators can integrate AD server(s) in their network for importing the users and devices, integrate their 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, choose ITSM extensions like RMM and Patch Management, integration with Comodo Certificate Manager (CCM) for issuance of client and

device certificates and so on.

IT & Security Manager		Portal Set-Up / APNs Certificate	.icense Options 😳 වූ Logout (coyoteewile@yahoo.cor
DASHBOARD	>		
DEVICES	>	Active Directory APNs Certificate Android Client Configuration	Windows Client Configuration Extensions Management Report
Q USERS	>	APNs Certificate	
CONFIGURATION TEMPLATES	>	Certificate Details	Additional Info
APPLICATION STORE	>		
APPLICATIONS	>	Country name India	Activation date Oct 19, 2016, 12:09:37 PM
SECURITY SUB-SYSTEMS	>	Locality name Madras	Expiry date Oct 19, 2017, 12:09:37 PM
CERTIFICATES	>	Organization name Coyote	
	~	Organization unit name ITSM	
System Templates		Common name coyoteewile@yahoo.com	
Portal Set-Up Subscriptions		Email coyoteewile@yahoo.com	
Support			

Following sections explain more about:

- Importing User Groups from LDAP
- Adding Apple Push Notification Certificate
- Configuring the ITSM Android Agent
 - Configuring General Settings
 - Configuring Android Client Antivirus Settings
 - Adding Google Cloud Messaging (GCM) Token
- Configuring ITSM Windows Client
- Managing ITSM Extensions
- Configuring ITSM Reports
- Integrating with Comodo Certificate Manager
- Setting-up Administrators Time Zone

11.2.1. Import User Groups from LDAP

In addition to adding user groups manually, ITSM allows you to import user groups from Active Directory (AD). You can configure ITSM 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 to ITSM
- Assign roles to users/user groups as required
- Synchronize LDAP with ITSM

- · The selected users/user groups will be imported and placed into respective groups in ITSM
- 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' on the left and select 'Portal Set-Up'
- Click 'Active Directory' from the top

Active	Directory	APNs Certificate	e Android Client C	onfiguration	Windows Client Config	guration Extension	s Management 🕨
Ëļ.	Ø						
Add							Ţ
	LDAP ACCO	UNT DOMAIN	COMPANY NAME	ENABLE LDAP	LDAP SERVER HO	ST AUTHOR	CREATED
	itsm-team.n	et	Dithers Constructi	Enabled	54.93.118.85	coyoteewile	2016/08/30
Result	s per page:	20 🗸				Displaying	g 1-1 of 1 results

	LDAP Accounts - Column Description					
Column Heading	Description					
LDAP Account Domain	Displays the LDAP account domain name. Clicking the AD domain name allows administrators to view the AD details, user groups in the AD, instantly import selected user groups from the AD, configure device enrollment for the imported users, configure connection between AD server and ITSM. Refer to the explanations under Managing LDAP Accounts for more details.					
Company Name	The name of the company associated with the LDAP account					
Enable LDAP	Indicates whether or not the LDAP account is active					
LDAP Server Host	Displays the LDAP server host name or IP					
Author	Name of the administrator who added the LDAP account					
Created	Displays the date and time when the LDAP account was added					

Note: ITSM communicates with Comodo servers and agents on 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 LDAP accounts

Click 'Add' at the top

The 'Login to Active Directory' dialog will be displayed.

Step 1 - Enter LDAP account details

сомодо

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Login to Active Dire	ectory	c	lose
1. SETTINOS	2. SYNCHRONIZATION	3. FINISH	
LDAP Server Host *			
LDAP Account Domain *			
Company * Sky walk			
LDAP Account Login *			
LDAP Account Password *			
		Nex	đ

- LDAP Server Host Enter the IP or host name of LDAP server
- LDAP Account Domain Enter the LDAP account domain that should be used for importing the user groups
- Company:
 - Comodo One (C1) customers Enter the first few characters of the company and select it from the drop-down.
 - Stand-alone ITSM customers Select 'Default Company' from the drop-down
- LDAP Account Login Enter the username for the LDAP account
- LDAP Account Password Enter the password for the LDAP account
- Click 'Next' after completing the settings form.

Step 2 - Configure Synchronization Settings

COMODO

Lo	gin to Active Directory	Close
	1. SETTINGS 2. SYNCHRONIZATION 3. FINISH	
	Enable Sync At Business Days Enable Sync At Weekend	
Ple	ase select the proper connection type for establishing connection to LDAP serv	/er
0	Directly - Server checks connection directly Via Device(s) - Server checks connection via enrolled device(s)	
	Back	Next

Sync Settings

- Enable Sync at Business Days ITSM will automatically sync with the LDAP server once per day Monday through Friday to check for and import new users
- Enable Sync At Weekend ITSM 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

This settings determines how ITSM will connect to the LDAP server, whether from the ITSM server directly or via the enrolled devices. If you choose the second option, then you can add multiple enrolled Windows devices. The second option is used to connect ITSM SaaS portal to AD server placed in the local network in which the enrolled endpoints are available.

Click 'Next'

Step 3 - Finish

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Lo	gin to Active	Directory	Close				
	()	(O	O				
	1. SETTINGS	2. SYNCHRONIZATION	3. FINISH				
Ser ()	Do not send any enrol	lment notifications					
0	 Send enrollment notifications to all synchronized new users Specify email addresses to send enrollment notifications for all synchronized new users 						
E	Emails For Enroll						
			Back Finish				

- · 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.
- Click 'Finish'

ITSM will connect to the LDAP server per the configuration and if successful, a summary of account settings will be displayed:

Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management
💭 Sync with LDAF	2			
Settings User	Groups Enroll	Connection Type		
Settings			8	Cancel 🖺 Save
Is active				
LDAP server host	t *			
54.93.118.85	5			
LDAP account do	main *			
itsm-team.ne	et			
Company *				
Dithers Cons	truction Company			
LDAP account log	gin *			

Click 'Save' to complete the set up process.

The synchronization task will run and the user groups will be added. You have to select the group and enable sync to import users into their respective groups. You also have to select roles for imported users.

Managing LDAP Accounts

•

Administrators can view and edit the details of integrated AD servers, synchronize the users in selected group between AD server and ITSM and more, from the 'Active Directory' interface.

• To manage an AD server click the AD domain name from the list of LDAP accounts in the Active Directory interface.

Activ	Active Directory APNs Certificate		Android Cl	ient Configuration	Windows Client Conf	figuration Exte
Add	C Sync wi LDAP					
	LDAP ACCO	OUNT DOMAIN	COMPA	NY NAME	ENABLE LDAP	LDAP SERVER
	itsm-team.n	<u>iet</u>	Dithers	Construction Co	Enabled	54.93.11 8.85
Resu	Its per page.	20 🗸				
	Settings	User Groups	Enroll	Connection Type		
-	j_			71		
	Active Di	irectory			- Edit	Delete
	Is Active Enabled LDAP Serve 54.93.118.8					
	LDAP Accou					
	Company * Dithers Con	struction Company				
	LDAP Accou					
	LDAP Accou	unt Password *				
	Sync Status Done	1				

The Active Directory details will be displayed under four tabs:

- Settings .
- **User Groups** •
- Enroll •

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Connection Type

Settings tab

The 'Settings' tab displays AD configuration details:

ettings	User Groups	Enroll	Connection Type	
Setting	ļs			Edit 🖞 Dele
Is active Enabled				
LDAP ser 10.100.66				
LDAP acc mdm.net	count domain			
Company Dithers Co	* onstruction Compa	ny		
LDAP acc Administr	rator			
LDAP acc	count password *			
Sync stat Failed	us			
	tus reason t 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 ITSM 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 ITSM

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Ac	tive Directory User Groups Enroll Co	onnection Type		
C s	iynchronization 🔒 Set Default Role ዿ Chan			
	GROUP NAME	ROLE	SYNCHRONIZED	LAST SYNC
	Active Directory Robot Autotests	Users	Enabled	2016/08/30 04:33:23 PM
	Allowed RODC Password Replication 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	Usera	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	ory User Groups Enroll (Connection Type		
Synchronizat	ion & Set Default Role & Chi	ange Role		
Enable Sync		ROLE	SYNCHRONIZED	LAST SYNC
Disable Sync	obot Autotests	Users	Enabled	2016/08/30 04:45:19 PM
Allowed R	RODC Password Replication Group	Users	Enabled	2016/08/30 04:45:19 PM
Cert Publi	ishers	Users	Enabled	2016/08/30 04:45:19 PM
Denied R	DDC Password Replication Group	Users	Disabled	Not Modified
DnsAdmir	ns	Users	Disabled	Not Modified
	teProxy	Users	Disabled	Not Modified

Select whether synchronization should be enabled or not from the drop-down. If enabled, ITSM 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 ITSM user role to the users. See Set a role as the default role if you need help with this.

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Ac	tive Directory User Groups Enroll C	connection Type		
5 s	iynchronization 🔒 Set Default Role 🔒 Cha	inge Role		T
	GROUP NAME	ROLE	SYNCHRONIZED	LAST SYNC
	Active Directory Robot Autorests	Users	Enabled	2016/08/30 04:56:02 PM
	Allowed RODC Password Replication Group	Users	Enabled	2016/08/30 04:56:02 PM
	CertPublishers	Users	Enabled	2016/08/30 04:56:02 PM
đ	Denied RODC Password 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.

The 'Assign Role' dialog will appear.

Assign Role	Close
Select Role *	
ad Administrators	
Admin_for_purchase_dept	
Cł	nange

• Select the role from the drop-down and click 'Change'.

The selected role will be displayed in the 'Role' column for the user(s)/user group(s).

• Repeat the process to apply different roles to different user(s)/user group(s).

See 'Managing Roles Assigned to a User' for more details on roles.

To import users from selected user group

Click 'Sync with LDAP'

Active Directory User Groups Enroll Connection Type Synchronization T GROUP NAME Active Directory Robot Autotests Users Enabled 2016/08/30 04:56:02 PM Allowed RODC Password Replication Group 2016/08/30 04:56:02 PM Users Enabled Cert Publishers 2016/08/30 04:56:02 PM Enabled Users Denied RODC Password Replication Group Enabled 2016/08/30 04:56:02 PM Users 2016/08/30 04:56:02 PM DnsAdmins Users Enabled **DnsUpdateProxy** Not Modified Users Disabled Not Modified Users Not Modified

• The user(s)/user group(s) in the LDAP will be synchronized ITSM and the users will be imported into ITSM. The users will be added to the 'User List'/'User Groups' interface appropriately For more details on management of users, see the section 'Users and User Groups'.

IT & Security Manager			License
DASHBOARD	>	_	
DEVICES	>	Create Group	
USERS	~		
User List			NUMBER OF USERS
User Groups		itsm-team.net/Active Direct	1
Role Management		itsm-team.net/Allowed ROD	0
CONFIGURATION TEMPLATES	>	itsm-team.net/Cert Publishe	0
APPLICATION STORE	>	itsm-team.net/Denied RODC	0
APPLICATIONS	>	itsm-team.net/DnsAdmins	1
SECURITY SUB-SYSTEMS	>	itsm-team.net/G1	3
		Lenovo Tab Users	0

Enroll tab

The 'Enroll' tab displays the current setting of enrollment notification sent to imported users.

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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

Settings	User Groups	Enroll	Connection Type	
Enroll				Cancel 🖺 Save
 Do no Send Spec 		llment notif fications to ses to send	fications all synchronized new users 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 ITSM.

Settings	User Groups	Enroll	Connection Type		
Conne	ction Type			📝 Edit	Delete
LDAP ser	er connection type rver Server checks conn				
Click	k the 'Edit' button t	to change t	ne connection type.		

If the first option is selected, ITSM will connect to the configured LDAP server directly. The second option enables the ITSM 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 i

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- 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

Apple requires an Apple Push Notification (APN) certificate installed on your ITSM portal to facilitate communication with managed iOS devices and Mac OS devices. To obtain and implement an APN certificate and corresponding private key, please follow the steps given below:

Step 1- Generate your PLIST

- · Click 'Settings' on the left and select 'Portal Set-Up'
- Click APN Certificate from the top.

IT & Security Manager	■ Portal Set-Up / APNs Certificate / Generation License C
DASHBOARD >	
DEVICES >	Active Directory APNs Certificate Android Client Configuration
<u>A</u> users >	
CONFIGURATION TEMPLATES	
APPLICATION STORE	APNs certificate is not installed.
APPLICATIONS >	Click "Create APNs Certificate" to proceed.
SECURITY SUB-SYSTEMS	
G CERTIFICATES	
SETTINGS V	
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 *	
Select country name	~
Email address *	
Email address	
State or province name *	
State or province name	
Locality name (eg, city) *	
Locality name (eg, city)	
Organization name *	
Organization name	
Organizational unit *	
Organizational unit	
Organizational Unit Name (eg, section)	
Common name *	
Common name	
(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 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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Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management
Upload AP	'Ns Certificate			🕞 Save
	ertificate for commur evices you need to:	nication between server		
	load: <u>The Apple PLIS</u>	<u>T Signed by Comodo</u> ertificate Portal with your		
regula	ar Apple ID (free acco	ount is enough).		
	ed the PLIST from ste will use this to gene	p 1 to the Apple portal. rate your certificate.		
	load your certificate t format.	from Apple. It will be in		
5. Click		certificate, and click 'Save'		
Select .PEN	A file Browse			

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

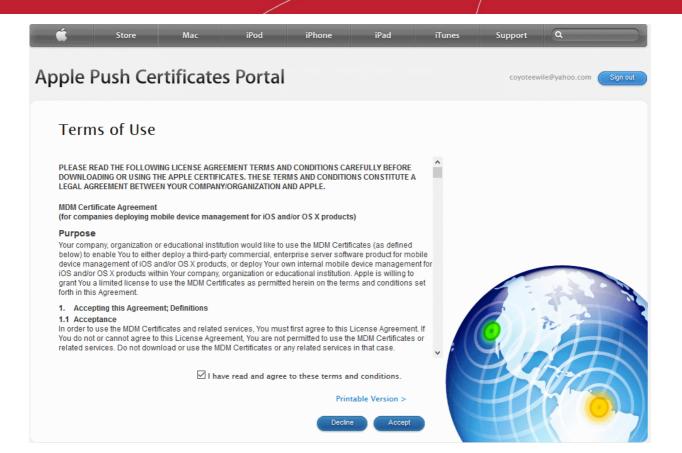
Login to the 'Apple Push Certificates Portal' with your Apple ID at https://identity.apple.com/pushcert/. •

If you do not have an Apple account then please create one at https://appleid.apple.com.

Once logged in, click 'Create a Certificate'.



You will need to agree to Apple's EULA to proceed.



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

É	Store	Mac	iPod	iPhone	iPad	iTunes	Support	٩	
Apple	Push Ce	rtificates	Portal				coyoteew	ile@yahoo.com	Sign out
		Push Cert		nird-party server					
	to create a new pi								
								-	3
Vendor-	Signed Certificate	e Signing Request						n H	R
Choose	e File COMODO_	ACSR.csr	Cancel	Upload			EA		$\left\{ \right\}$

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

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

Step 3 - Upload your certificate to ITSM

- Next, return to the ITSM interface and open the 'APNs Certificate' interface by clicking Settings > Portal Set-Up > APNs Certificate.
- · Click the 'Browse' button, locate your certificate file and select it.

Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management	Þ
Upload AF	PNs Certificate			🕞 Save	
<u> </u>	ertificate for commu levices you need to:	nication between server			
2. Logir regul 3. Uploa Apple 4. Dowr .PEM 5. Click	to the <u>Apple Push C</u> ar Apple ID (free acco ad the PLIST from ste e will use this to gene aload your certificate format. 'Browse', select your load it to ITSM	p 1 to the Apple portal.			

Click 'Save' to upload your certificate.

The APNs Certificate details interface will open:

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Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management	ŀ
APNs Certif	ficate				
Certificate	Details	Renew Delete	Additional Info		
Country Name	3		Activation Date Oct 19, 2016, 6:39:37 AM		
Locality Name Madras	1		Expiry Date Oct 19, 2017, 6:39:37 AM		
Organization M Coyote	lame				
Organization U	Jnit Name				
Common Nam coyoteewile@y					
Email coyoteewile@y	yahoo.com				

Your ITSM Portal will be now be able to communicate with iOS devices. You can enroll iOS devices and Mac OS devices for management.

The certificate is valid for 365 days. 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 devices to enable the server to communicate with them.

• To renew your APN Certificate, click 'Renew' from the iOS APNs Certificate details interface.

Active Direct	ory APNs Certificate	Android Client Configuration	Windows Client Configuration	Exte:
APNs Ce	rtificate			
Certifica	ate Details	Renew	Additional Info	
Country Na India	ame	\smile	Activation Date Oct 19, 2016, 6:39:37 AM	
Locality Na Madras	ame		Expiry Date Oct 19, 2017, 6:39:37 AM	
Organizati Coyote	on Name			
Organizati ITSM	on Unit Name			
Common N	lame			

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

11.2.3. Configure the ITSM Android Agent

ITSM uses an agent installed on enrolled Android devices for communication with the server and for running antivirus functionality. The 'Android Client Configuration' area allows admins to add a Google Cloud Messaging token for agent communication, and to configure general agent behavior and antivirus settings.

To open the 'Android Client Configuration' interface

COMODO

- Click 'Settings' on the left and select 'Portal Set-Up'
- Click 'Android Client Configuration' from the top

IT & Security Manager		E Portal Set-Up / Android Client Configuration / Client Configuration	ons
DASHBOARD	\rightarrow		
DEVICES	\rightarrow	Active Directory APNs Certificate Android Client Configuration Windows Client Configuration Exter	
	\rightarrow	Client Configuration Antivirus Android Cloud Messaging	
	>	General	
	>		
APPLICATIONS	>	Time-out for collecting basic device information 20 minutes	
SECURITY SUB-SYSTEMS	>	Time-out for collecting full device information 1 days	
	>	Interval between Antivirus database updates 1 days	
🔅 SETTINGS	~	Devices should check for new ITSM events every 5 minutes	
System Templates		ITSM should check device restrictions are active every 5 minutes	
Portal Set-Up Subscriptions		Siren playing duration 20 seconds	
Support		Enable client uninstall protection Disabled	
		Allow devices to access application repositories	

The interface contains three tabs:

- Client Configuration Allows you to configure general settings like agent and AV virus updates, polling intervals, client uninstall protection and so on. Refer to Configuring General Settings for more details.
- Antivirus Allows you to specify whether Android viruses should be dealt with automatically or manually. If 'Automatic' is chosen' you can also specify whether the AV should remove the threat or ignore it. Refer to Configuring Android Client Antivirus Settings for more details.
- Android Cloud Messaging Allows you to create a Google Cloud Messaging (GCM) token to facilitate communications between ITSM and Android devices. Refer to the section Adding Google Cloud Messaging (GCM) Token for more details.

11.2.3.1. Configure General Settings

The Android 'Client Configuration' area allows you to configure various settings related to update periods, device alarms, uninstall protection and the visibility of application repositories on the device.

To open the Android 'Client Configuration' interface:

- Click 'Settings' on the left and select 'Portal Set-Up'.
- Click 'Android Client Configuration' at the top.
- Click the 'Client Configuration' tab in the 'Android Client Configuration' interface

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nt Configuration	Antivirus And	Iroid Cloud Messaging	
General			💎 Ed
Time-out for o	collecting basic device in	oformation	
Time-out for o 1 Days	collecting full device infe	ormation	
Interval betwe 1 Days	en antivirus database u	pdates	
Devices shoul 5 Minutes	d check for new ITSM e	vents every	
ITSM should of 5 Minutes	check device restriction:	are active every	
Siren Playing 20 Seconds	Duration		
Enable Client Disabled	Uninstall Protection		
Allow devices Disabled	to access application re	positories	

The current settings for various parameters of Client Configuration will be displayed.

To change the settings, click the edit button

Edit on the top.

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ive Directory APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Managemer
nt Configuration Antivirus And	froid Cloud Messaging		
General		×	Cancel
Time-out for collecting basic device in	nformation		
20 Minutes			
Time-out for collecting full device info	ormation		
1 Days			
Interval between antivirus database u	pdates		
1 Days			
Devices should check for new ITSM e	vents every		
5 Minutes			
ITSM should check device restrictions	s are active every		
5 Minutes			
Siren Playing Duration			
20 Seconds			
Enable Client Uninstall Protect	tion		
0000			
			^

	Android Client Configuration Settings			
Parameter	Description			
Time-out for collecting basic device information	The update time interval for device information such as battery level, CPU usage, location of the device (GPS) and current WiFI SSID.			
Time-out for collecting full device information	The update time interval for complete device information such as memory status, name of the device, IMEI number, roaming state, MAC address of bluetooth and MAC address of WiFi.			
Interval between antivirus database update	The time intervals at which the antivirus database should be updated on the device.			
Devices should check for new ITSM events every	The time interval at which the device should check ITSM for new push notifications.			
ITSM should check device restrictions are active every	The time interval at which the client checks that its device restrictions are in place.			
Siren Playing Duration	Length of time that the siren will sound for when administrators remotely activate a			

	device alarm.
Enable client uninstall protection	Specify whether or not a password is required in order to remove the agent from a device.
	• Select the 'Enable client uninstall protection' check box and specify a password in the text box.
	The ITSM agent can be uninstalled from any enrolled device only after entering the password.
Allow devices to access application repositories	If enabled, an 'Applications' bar will be visible on Android devices which will open a list of Android apps in the 'App Catalog'.

• Click 'Save' to apply your changes.

11.2.3.2. Configure Android Client Antivirus Settings

The Android Client Antivirus provides real-time protection against malware and malicious apps on Android devices. Administrators can also launch 'on-demand' scans from the ITSM administrative console on selected devices.

The antivirus settings area allows administrators to configure whether threats identified by the antivirus should be automatically removed or handled manually.

- If 'Automatic Control' is chosen, you should next choose your 'Automatic Action'. You have the choice to automatically uninstall the threat, or ignore it.
- If 'Manual Control' is chosen, the device status will change to 'Infected' in the console if a virus is found. A
 notification will also be shown on the device. The user can respond to the notification to manually remove
 the virus. Refer to the section Running On-demand AV Scan on Android Devices for more details.

To configure antivirus settings

- Click 'Settings' on the left and select 'Portal Set-Up'.
- Click 'Android Client Configuration' at the top.
- Click the 'Antivirus' tab:

Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management 🕨
Client Configuration	Antivirus A	ndroid Cloud Messaging		
Android Ant Virus Reaction Manual Control Automatic Resp				🔊 Edit
Disabled	Milae			

The current antivirus settings will be displayed.

To change the settings, click the edit button Edit at the top.

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Active Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions Management)
Client Configuration	Antivirus And	droid Cloud Messaging		
Android An	tivirus		×	Cancel 🕞 Save
Virus Reaction Manual Co				
Manual Con	trol			
Uninstall	tesponse	~		
Automatic R				

Android Client Antivirus Settings - Table of Parameters			
Parameter	Description		
Virus Reaction	Choose the type of action to be taken if malware is discovered on the device. The options are:		
	Manual control		
	Automatic response		
	If Manual Control is chosen, the administrators can take appropriate action on threats detected, from the AV Scan interface. Refer to the section Running On-demand AV Scan on Android Devices for more details.		
Automatic Response	If 'Automatic Response' is chosen from the 'Virus Reaction' drop-down, select the action to be taken on the app identified as infected by ITSM. The options available are:		
	Uninstall		
	• Ignore		

Click 'Save' for your settings to take effect.

11.2.3.3. Add Google Cloud Messaging (GCM) Token

Comodo IT and Security Manager requires a Google Cloud Messaging (GCM) token in order to communicate with Android devices. ITSM ships with a default API token. However, you can also generate a unique Android GCM token for your ITSM 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

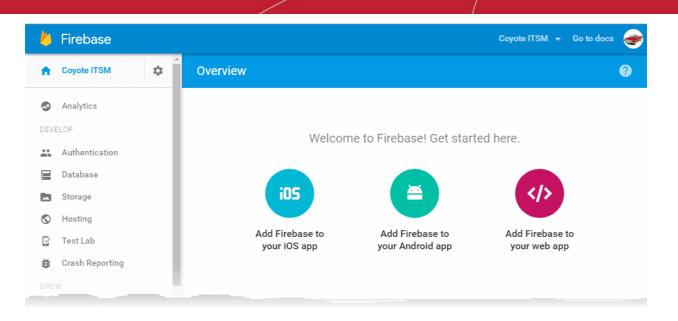
Login to the Google Firebase API Console at https://console.firebase.google.com, using your Google account.

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🎽 Firebase			Go to docs 🛭 🕳
Welcome to Firebase Tools from Google for developing gre engaging with your users, and earning mobile ads. Learn more			Constant
or Incode project Create Project nar Coyote Country/re	ITSM	×	
features and data is shar By proceedi	our Firebase Analytics data will en d Google products. You can control ed in your settings at anytime. Lea ng and clicking the button below, y rvices in your app and agree to the CANCEL	l how your Firebase Analytics m more you agree that you are using	

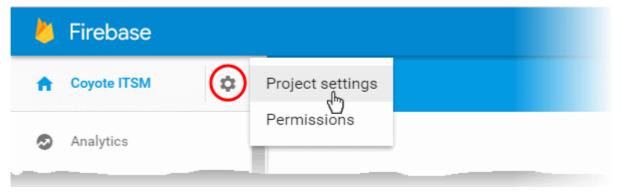
- Click 'Create Project'
- Type a name for the new project in the 'Project Name' field
- Select your country from the 'Country/region' drop-down
- Click 'Create Project'.

Your project will be created and the project dashboard will be displayed.



Step 2 - Obtain GCM Token and Project number

• Click the gear icon beside the project name at the left and choose Project Settings from the options.



The 'Settings' screen for the project will appear.

• Click the 'Cloud Messaging' tab from the top.

Settings 2 CLOUD MESSAGING GENERAL ANALYTICS ACCOUNT LINKING SERVICE ACCOUNTS Project credentials ADD SERVER KEY Key Token AAAA5smXzi4:APA91bFl54RH7fgZQ8TjkZSVNiWd5YsbKYdXSWNE9oh LNiyORVq0tJnf4A1t8ZvF0i0gMmwQHT9C2KZGyO3XxFNZiD4wwPPpW Server key MBvpVfN8_Smu2Aw3pmXZ_ZpsVXpk6jcOj3RBtRR0Fs0 AlzaSyAVKUfE95XhfEjDiMZLH4yg1Kq7WXzWtLg Legacy server key 🕥 Sender ID ⑦ 991224647214 iOS app configuration You don't have an iOS app.

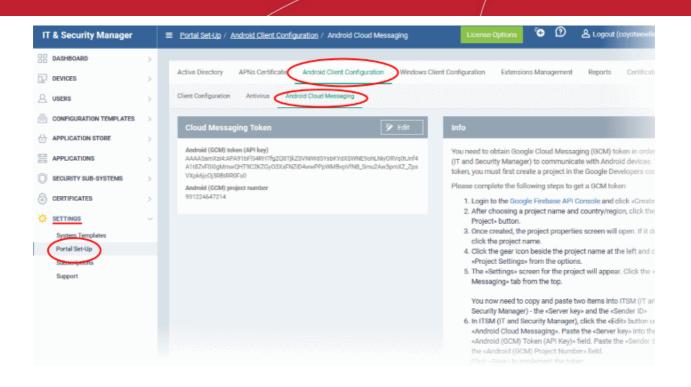
• Note down the 'Server key' and 'Sender ID' in a safe place

Step 3 - Enter GCM Token and Project number

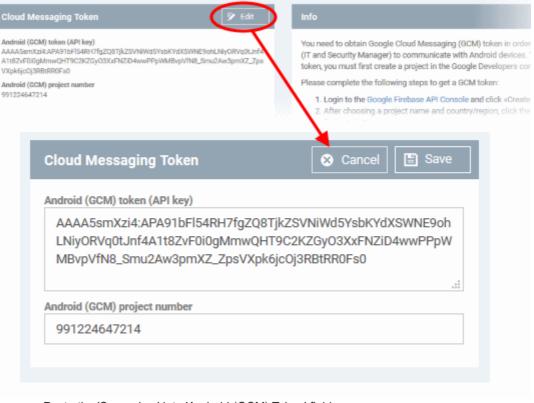
- Login to ITSM.
- Click 'Settings' > 'Portal Set-Up' > 'Android Client Configuration' and choose 'Android Cloud Messaging' tab

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



Paste the 'Server key' into 'Android (GCM) Token' field.

.

Paste the 'Sender ID' into 'Android (GCM) Project Number' field.

Cloud Messaging Token		🙁 C	ancel	🖺 Save
Android (GCM) token (API key)				
AAAA5smXzi4:APA91bFl54F LNiyORVq0tJnf4A1t8ZvF0i0 MBvpVfN8_Smu2Aw3pmXZ	JMmwQHT9C2	KZGy03X	xFNZiD	
Android (GCM) project number				

Click 'Save'.

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

Your ITSM Portal will be now be able to communicate with Android devices using the unique token generated for your ITSM portal.

11.2.4. Configure ITSM Windows Client

The 'Windows Agent Configuration' area allows you to configure time intervals for device information updates, and polling intervals for the agent to obtain commands from ITSM.

To configure the windows agent

- · Click 'Settings' on the left and select 'Portal Set-Up'
- Click 'Windows Client Configuration' at the top

APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions N 🕨
Client Configuratio	n		💎 Edit
device information utes			
levice commands utes			
ice online status confirm utes	ations		
	Client Configuration device information utes levice commands utes ce online status confirm	Client Configuration device information utes levice commands utes ce online status confirmations	Client Configuration device information utes levice commands utes ce online status confirmations

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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ive Directory	APNs Certificate	Android Client Configuration	Windows Client Configuration	Extensions N 🕨
Windows C	lient Configuratio	n	X Cancel	🕞 Save
Updating full d	levice information			
15 Minutes				
Requesting de	vice commands			
15 Minutes				
Sending devic	e online status confirma	ations		
15 Minutes				

Windows Agent Configuration Settings				
Parameter	Description			
Updating full device information	Determines how often the device should provide ITSM 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 time interval at which the agent on the device should poll the ITSM 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 time period during which the agent on the device should send a message confirming that it is online and connected. If ITSM 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 ITSM Extensions

ITSM Extensions are additional software modules which administrators can add to ITSM to expand its functionality. Once added, each extension can be controlled and managed from the ITSM interface. The 'Extensions Management' interface allows administrators to 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.
Refer to the section Remotely Installing Packages onto Windows Devices for more details. Once
installed, CCS can be configured for optimal security by applying configuration profiles. Refer to the section
Profiles for Windows Devices for more details.

- Comodo Remote Control Comodo Remote Control allows you to take control of managed endpoints through remote desktop connection. This allows you to solve issues, install third party software, run system maintenance and more. You can take remote control in two ways:
 - Comodo Remote Control Viewer (recommended) Install the client viewer software on your 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 device from the Device List interface. For more details, refer to the section **Remote Management of Windows Devices**.

To access the 'Extensions Management' interface

- Click 'Settings' on the left and select 'Portal Set-Up'
- Click 'Extensions Management' at the top

Active Directory APNs Certificate Android Client Configuration Windows Client Configuration Extensions Mana	ement Reports
Comodo Client - Security ON ON ON	

- Use the toggle switch in a tile to enable or disable an extension. Only extensions which are enabled will be available in the 'Device List' interface.
- Refer to 'Remotely Installing Packages onto Windows Devices' and Remote Management of Windows Devices for more details.

11.2.6. Configure ITSM Reports

ITSM undergoes rigorous Quality Assurance testing before release to ensure that the software is as stable and reliable as possible. However, in rare situations, ITSM 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 ITSM 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' on the left and select 'Portal Set-Up'.
- Click the 'Reports' tab

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Active Directory APNs Certificate Android Client Configuration Windows Client Configuration Extensions Management	Reports	Certificates Activation
Send Exception Reports to IT and Security Manager Team		🌮 Edit
Allow sending of exception reports Disabled		
• To edit the settings click the edit button Edit at the top right.		
Client Configuration Windows Client Configuration Extensions Management Repor	ts Cer	tificates Activation
Send Exception Reports to IT and Security Manager Team	< Cancel	Save
Allow Sending Of Exception Reports		
These reports do not contain any confidential information about your company, your users or your		
devices. They just point to the line of code that failed and include information about circumstances of the		
exception. These reports are valuable to the ITSM team for troubleshooting and product improvement.		

- Select the 'Allow sending of exception reports' to allow the ITSM to send the error reports to 'Comodo'.
- Click 'Save' for your settings to take effect.

11.2.7. Integrate with Comodo Certificate Manager

ITSM allows administrators to integrate their Comodo Certificate Manager (CCM) account with ITSM 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 CCM accounts from different CCM servers for different organizations. Certificates will be issued to end-users/devices by the CCM server with which the organization is associated.

Note 1: Please contact your Comodo Account Manager should you need a CCM account.

Note 2:: ITSM communicates with Comodo servers and agents 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 a CCM account is added, a new component will be added to your profiles called 'CCM Certificates'.

Administrators 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 CCM. CCM obtains the certificate and sends it to ITSM which in turn pushes it to the agent on the device. The agent 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 CCM account to ITSM.

Prerequisites:

- The organization whose end-users/devices require certificates is added as an organization in CCM. •
- The email domains used by end-users have been delegated to the organization in CCM. .
- SMIME certificate enrollment through Web API has been enabled for the CCM organization, and a secret key has been set for Web API enrollment.

For help to add an organization to CCM and configure it for enrollment of client certificates through Web API, please see the following section in the CCM admin guide: https://help.comodo.com/topic-286-1-606-7511-Comodo-Certificate-Manager-MRAO.html.

To add a CCM Account

- Click 'Settings' on the left and select 'Portal Set-Up'
- Click the 'Certificate Activation' tab at the top
- Click 'Add Comodo Certificate Account'

The 'Add Account' dialog will open.

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			Add Comodo Certificate Account	\triangleright	
	If your o	organization needs root certif	ates from a trusted authority, ap Contact Comodo Sales	ply to Comodo Certification	Authority
A	dd Acc	ount			Close
Lo	ogin *				
Pa	assword *				
	ogin URI *				
	- gin on				
Se	ecret key *				
	rganization ID '				
C	ertificate serve	r *			
	cert-manag	er.com			~
					Add

Add Account Dialog - Description of form parameters				
Field	Description			
Login/Password Enter the login credentials for the CCM MRAO Administrator account. This will access CCM.				
Login URI	Enter the customer URI of the CCM account which you wish to add to ITSM.			
	Tip : The customer URI is the suffix of the URL used to access CCM. CCM 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 certificates. Tip: You can find the secret identifier in CCM 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 Te Self Enrollment 📝 1234 Access Code* Web AP Secret Key* | 123456 Allow Key Recovery by Master Admin For more details, see the following section of the CCM 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 CCM account. Tip: You can identify the organization id in CCM from the 'General' tab of the 'Edit Organization' dialog of the organization: Edit Organization: Dithers Organization **Client Certificate** SSL Certificate EV Details Code Signing Certificate General *-required fields Organization Name* Dithers Organization Address1* Mount Road Address2 Address3 City* Chennai State/Province* ΤN Postal Code* 600032 Country* India Validation Status Not Validated Anchor certificate OrgID 3267 Access Control List Edit Cancel For more details, see https://help.comodo.com/topic-286-1-606-7511-Comodo-Certificate-Manager-MRAO.html. Certificate Server Choose the CCM server at which you have your CCM account subscription:

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5660	
Certificate server *	
cert-manager.com	~
cert-manager.com	
hard.cert-manager.com	
	Add
	Add
	Certificate server * cert-manager.com cert-manager.com

• Click 'Add' after completing the form.

The CCM account will be added to ITSM. ITSM will now be able to issue client certificates to users of Windows devices. You can also issue device certificates by applying a suitably enabled profile to the device.

The CCM account will be listed in the interface as follows:

Active	Directory	APNs Certificate	Android Client Config	uration Windows Clier	nt Configuration Exter	isions Management
	dd Account	🕐 Help				T
	LOGIN	LOGIN URI	CERTIFICATE SERVER	CREATED	CHECKED AT	API ENABLED
	itsm_dithers	dithers	cert-manager.com	2017/02/01 04:00:02 PM	2017/02/01 04:00:02 PM	Enabled
Result	s per page:	20 🗸			Displ	aying 1 of 1 results

Certificates Activation - Column Descriptions					
Column Heading Description					
Login	The username of the MRAO Administrator account for ITSM to login to CCM. Clicking the username displays 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 CCM account.				
Certificate Server	The CCM 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 CCM account was added to ITSM by the administrator.				
Checked at	The precise date and time at which the ITSM logged-in to the CCM account.				
API Enabled	Indicates whether the organization is enabled for procuring client and device certificates from CCM through API integration				

• To add more CCM accounts, click Add Account at the top left and repeat the process as explained above.

11.2.8. Set-up Administrator's Time Zone

Administrators can set their time zone so that ITSM interfaces and logs will be displayed to each administrator using

their local time.

Note. Administrators added through Comodo One must set their time zone in the C1 console. Only administrators added through the ITSM console and who login using the dedicated ITSM URL can set their time zone in the ITSM console.

To set your time zone

- · Click 'Settings' on the left and select 'Portal Set-Up'
- Click the 'Time Zone' tab at the top

Note: The 'Time Zone' tab will be available only if you have logged-in to ITSM through the dedicated URL for the ITSM console and will not be available if you have logged-in through the Comodo One console.

•	Configuration	Windows Client Configuration	Extensions Management	Reports	Certificates Activation	Time Zone
	Time Zone					🌮 Edit
	Time zone Not set					

Click 'Edit' at the top right

Configuration	Windows Client Configuration	Extensions Ma	nagement	Reports	Certificates Activation	Time Zo
Time Zone					🙁 Cancel	🖺 Save
Time zone						
Use default ti	me zone	~				
Use default t (-11:00) Midw (-11:00) Niue (-11:00) Pago (-10:00) Hono (-10:00) John (-10:00) Raro (-10:00) Tahit (-09:30) Maro (-09:00) Adak (-09:00) Gam (-08:00) Anch (-08:00) Metl (-08:00) Nom (-08:00) Pitca	vay p Pago plulu iston tonga ti guesas c bier horage tau akatla e					

Choose your time zone from the 'Time Zone' drop-down and click 'Save'.

Your time zone will be updated. All logs and time indications in the ITSM interface will be displayed based on the set time zone. You can change the time zone settings at anytime following the same process.

11.3. View and Manage Licenses

The 'Subscriptions' interface displays details about licenses purchased, their type and validity status and the number of users and devices allowed on each. The 'Subscriptions' screen also allows the administrator to add new licenses.

• To open the 'Subscription' interface, choose 'Settings' from the left and select 'Subscription'.

It contains two tabs:

•

• License Summary - Displays a summary of details of your currently active license(s). An example is shown above.

IT & Security Manager		P D Logout (
DASHBOARD >		
DEVICES >	License Summary List of Licenses	
Q USERS >	License Summary	
CONFIGURATION TEMPLATES	Active license	
APPLICATION STORE	none Maximum licenses available	
APPLICATIONS >	0	
SECURITY SUB-SYSTEMS	Number of used licenses 0	
G CERTIFICATES >	Expires 1970/01/01 05:30:00 AM	
	Time check 1970/01/01 05:30:00 AM	
System Templates		
Portal Set-Up		
Subscriptions		
Support		

List of Licenses - Displays a list of licenses purchased so far with their details.

License Summary	List of Licenses				
Add New License	e 🗍 Remove Licens	se			
	LICENSE KEY	ACTIVE	PREMIUM	OWNER	EXPIRATION DATE
Valkyrie Free	esta Materia.	Yes	No	coyoteewile@y	2017/06/30 10:43:3
T and Security		Yes	No	coyoteewile@y	2017/03/04 11:01:3
Results per page:	20 🗸			ſ)isplaying 1-2 of 2 results.

Clicking on the license key will display the details of the license.

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License details

Advanced **Main License Details** Valid From License Key 2016/03/04 11:03:31 AM License type Expires 2017/03/04 11:01:36 AM IT and Security Manager **Time Check** Maximum Licenses Available 2016/10/20 06:19:46 AM Unlimited Licensed To License Registered At 2016/03/04 11:01:36 AM coyoteewile@yahoo.com Free Yes Active Yes

The next section **Upgrading or Adding the License** provides more details on upgrading your license for adding more number of users and renewing your license.

Removing Licenses

You can remove expired or the licenses that you do not want to use, from the list

To remove a license

- · Select 'Settings' from the left and select 'Subscriptions'
- · Click on 'List Of Licenses' tab to open the 'Subscriptions/List of Licenses interface
- Select the license to be removed
- Click 'Remove License' from the top of the 'List of Licenses' interface

Licen	ise Summary Lis	t of Licenses				
Ę	Add New License 🤇	Remove Licens	ie			
	LICENSE TYPE	LICENS E KEY	ACTIVE	PREMIUM	OWNER	EXPIRATION DATE
	Valkyrie Free	eds.Net-Ma	Yes	No	coyoteewile@y	2017/06/30 10:43:3
	IT and Security	83586 (b b-3.	Yes	No	coyoteewile@y	2017/03/04 11:01:3
	And The Contract of Contract o			annarth	Month	Displayie
	Remove Lice	nse				Close
	Do you really wa	ant to delete Valkyr	rie Free Licer	nse?		
					Confirm	Cancel

• Click 'Confirm' that appears in the Remove License dialog.

The license will be removed from the list.

11.3.1. Upgrade or Add a License

Administrators can add more users to their account by upgrading their license in the Comodo account management portal.

To upgrade a license

- Log in at https://accounts.comodo.com with your Comodo username and password
- Select 'IT and Security 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 ITSM interface

Đ $\textcircled{\blue}{2}$ Logout (coyoteewile@yahoo.com) Welcome Get Started with IT and Security Manager (ITSM) Start to manage devices with a few simple steps. Add Users **Enroll Devices** Open User Open User List Click Upgrade × Core Platinum Premium free Advanced Endpoint Protection (AEP) 7-layer Advanced Endpoint Protection with Default Deny security posture https://enterprise.comodo.com/advancedendpoint-protection including World's best Containment 30 days technology Valkyrie - File intelligence service 30 (automated artificial intelligence analysis) 30 days Valkyrie - File intelligence service (manual analysis by human experts) 30 days Patch management Monitoring - Proactive monitoring Procedures - Standalone instruction scripts Remote Access - Remote Desktop connection \odot Full MDM (Mobile Device Management) Full MAM (Mobile Application Management) Full MSM (Mobile Security Management) BYOD support (Bring Your Own Device support) Community support × ۲ 24/7 professional support UPGRADE NOW One platinum / premium license covers up to 5 mobile devices or 1 computer per user

The 'Upgrade' screen will be displayed which lists the features of 'Premium' and 'Platinum' licenses.

• Click 'Upgrade Now'

You will be directed to the C1 management portal to complete the purchase process.

Once you have obtained a new license, you need to register it in the interface.

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To add a new license

- · Select 'Settings' from the left and select 'Subscriptions'
- · Click the 'List of Licenses' tab to open the 'Subscriptions/List of Licenses' interface
- Click 'Add New License' at the top left.

License Su	immary Li	ist of Licenses				
Add Ne	ew License	Remove License				
	INSE TYPE	LICENSE KEY	ACTIVE	PREMIUM	OWNER	EXPIRATION DATE
ІТ ал	nd Security Ma	02b58e2b-2e33-4	Yes	No	coyoteewile@yah	2017/03/04 12:01:36 PM
Valky	yrie Free	as5c70c	Yes	No	coyoteewile@yah	2017/06/30 10:43:32 AM
	License k	ey *				
	License					
	Paste a lic	cense key in the spac	e above to ac	ld it to your ITSN	A account.	
						Add

- Enter the license key from your license confirmation email.
- Click 'Add'.

Your new license will be activated. The license key will be displayed under the 'License Key' column.

To view the license details and activation status, click on the license key.

New License

Please ensure to validate your license within 10 days of registration and to start using ITSM. Otherwise, access to ITSM may be blocked.

Renewal

Make sure to renew your license before expiry and activate it. If the license is not renewed, admins will have access to the ITSM management portal for 30 days only after the expiry of the license. After this grace period, access to the ITSM will be blocked.

11.4. View Version and Support Information

The 'Support' panel shows support contact information, the current product version number, and a list of platforms supported by this version of ITSM.

Click 'Settings' on the left then 'Support' to access this interface.

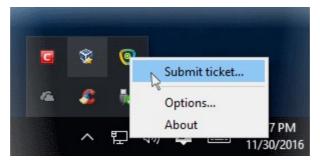
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COMODO		≣ Support		•	🦸 🛛 🔒 Lo	gout (John Smith
DASHBOARD	>	Support				
A. USERS	>	Contact Information	Supported Device Platforms	Latest Comodo Plat	form and Client Ve	rsions
CONFIGURATION TEMPLATES APPLICATION STORE	>	Support Inlephones Enterprise: +1 (973) 396-1236 MSP: +1 (973) 396-1232	Android 4.x 4.x (01008)	ITSM Server version	6.19.12451.18060	2018/05/25
APPLICATIONS	5	Support ensail cdmsupport@comode.com Online support	5.x 5.x (10108) 6.x (10108) 7.x	Windows Client - Dommunication	6.19.12464.18060	2018/05/26
SECURITY SUB-SYSTEMS	° v	support.comodo.com Please register to submit ticketa	7.s (IONDX) IOS	Client - Security Remote Control	10.6.0.6721 6 19.12406 18060	2018/05/25 2018/05/25
System Templates		Enlerprise forum cittorum.comodo.com	7.s. 0.z	macOS		
Portal Set-Up Subscriptions		MSP forum forum.mspconsortium.com/Yorum/products/other-comedo- products/comodo-device-management	9.8 10 x 11.8	Client - Communication Client - Security Remote Control	6.19.12274.18051 2.4.0.235 6.19.12434.18060	2018/05/25 2018/05/25 2018/06/25
Sepport		Help guide help.comodo.com./product-399-Comodo-IT-and-Security- Manager.html	macOS 10,11,x 10,12,x 10,18,x	IDS Mobile Agent.	1.1.22	2015/10/04
		Certificative support enforprise convoltact us php	Windows (workstation edition) Windows XP (SP3 or higher) x86 windows 7 x86	Android		
				Mobile Agent	6 12 42.4	

- · Contact Information Support telephone numbers and email addresses
- Supported Device Platforms The devices and operating systems supported by this version of ITSM.
- Latest Comodo Platform and Client Versions Version numbers of the ITSM server and agents.

Users also can create a support ticket from the Comodo Client - Communication (ITSM agent) tray icon on Windows and Mac OS devices. A ticket will be created in Service Desk and assigned to the selected department.

• To submit a support ticket, right click the ITSM agent tray icon and click 'Submit ticket...'



The 'Submit ticket' dialog will be displayed

COMODO ONE Client - Communication Submit ticket						
Please fill in the fields below and describe details of your issue:						
Issue Summary						
PC performance is very slow						
Department						
Support Department 👻						
Priority Level						
High 👻						
Issue Details						
The performance has become very slow after adding some applications. Please arrange to rectify the problem as soon as possible.						
Include device data (brand, model, serial number, logged on user, domain/workgroup) Note: Company, Device Name and Owner are included by default.						
Submit Cancel						

Tip: The 'UI Settings' component of a configuration profile lets you rebrand the client with your own company logo and details. See **CCC and CCS Application UI Settings** in **Creating 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 account and assigned to the selected department.

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Appendix 1a: ITSM 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.

- ITSM communicates with Comodo servers, agents and security software on managed devices to monitor activity, provision updates, submit files for analysis 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:
 - Comodo Client Communication (CCC)
 - Comodo Client Security (CCS)
 - ITSM Server (on premise installations)
 - Comodo Remote Control sessions
 - Comodo Remote Control Direct connection
 - Comodo Remote Control Peer to Peer connection
 - Comodo Remote Control Relay connection
 - All settings grouped by port

Comodo Client - Communication (CCC)

	Comodo Client - Communication (CCC)									
Service	Purpose	Hostname IP		Port	Criticality and notes					
000	Communication between device and ITSM 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					

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LDAP synchronizati on	Synchronization with LDAP via device	User's LDAP server host	User's LDAP server IP	389 636 (LDAPS)	Optional 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.	download.comodo.co m cdn.download.comod o.com	178.255.82.5 104.16.61.31 104.16.60.31	443, 80 443, 80	Optional For CCS installation/upgrade only
	com are redirected to cdn.download.com odo.com which is managed by The CDN provider, and those IP addresses can change				
OCSP	Client certificate revocation checking	http://ocsp.comodoca .com/	Dynamic load balancing	80	Optional For mobile devices only. Windows CCC do not perform CRL checking yet
CRL	Client certificate revocation checking	http://crl.comodoca.c om/	Dynamic load balancing	80	Optional For mobile devices only. Windows CCC do not perform CRL checking yet
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 not											
FLS	FLS lookup	fls.security.co	199.66.201.16	4447	UDP	Mandatory - choose					

		modo.com		(optional), 53		*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.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	Update/upgrade. Requests to	download.com odo.com	178.255.82.5	80	HTTP	Mandatory
o.com	download.comodo. com are redirected to	download.com odo.com	178.255.82.5	443	HTTPS	
	cdn.download.com odo.com which is managed by					
	The CDN provider, and those IP addresses can change					
LVS	Download the ITSM verdicts	s3-eu-west- 1.amazonaws.	Dynamic (Amazon	443	HTTPS	Mandatory

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	database	com	load balancing)			
	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

ITSM Server (on premise installation)

		ITSM Server (on prem	ise)	
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	ITSM server hostname	ITSM server IP	443

Comodo Remote Control

	Comodo 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 CRC host and target device		

STUN server	To receive possible network configuration, external ip etc.	stun.l.google. com	Dynamic	19302	UDP	Mandatory for both CRC host and target device for peer-to-peer and relay connections.
Direct connection	Establish direct connection between CRC and target device.	-	IP of the CRC 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 CRC host and target device
Peer-to-peer connection	Establish peer- to-peer connection CRC and target device.	-	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	UDP	Mandatory for both CRC host and target device for peer-to-peer connections.
Relay connection	Establish relay connection between CRC 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 CRC host and target device for relay connections.

Comodo 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	Destination			

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IP IP Port Port Protocol Local IP 2 local port range specified in profile Local IP 1 UDP local port range specified in (Win7+/MacOS default port range: profile(Win7+/MacOS default 49152 - 65535) port range: 49152 - 65535) (WinXP/2003 default port range: 1025-(WinXP/2003 default port range: 1025-5000) 5000)

* - applicable to both sides - CRC and target

Comodo 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						
Source	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)			

* - applicable to both sides - CRC and target.

Comodo 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	18.196.107.208 52.29.123.206	3478, 49152 - 65535	UDP		

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	range: 49152 - 65535)(WinXP/2003 default port range: 1025-5000)	34.232.133.48 18.208.23.45	
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			Protocol			
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)			

* - applicable to both sides - CRC 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 I	by Port		
Port	Service	IP	URL / Hostname	Protocol	Component
443	000	Dynamic (Amazon load balancing)	subdomain. cmdm.como do.com	HTTPS	Comodo Client Communication
	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	
3rd party patch managemen t	23.229.69.170	patchportal. one.comod o.com	HTTPS	
Client Security installation	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	ITSM server (on premise)
Google cloud messaging	Dynamic	android.goo gleapis.com /gcm/send	HTTPS	
Apple push	Dynamic	gateway.pu	HTTPS	

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	notifications		sh.apple.co m		
	Local Verdict Server	ITSM server IP	ITSM server hostname	HTTPS	
	XMPP	18.196.72.222 18.196.138.4 18.197.8.210	xmpp.cmdm .comodo.co m	HTTPS	Comodo Remote Control
80	Client Security	178.255.82.5	download.c omodo.com	HTTPS	Comodo Client Communication
	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. Requests to download.co modo.com are redirected to	178.255.82.5	download.c omodo.com	HTTPS	
	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 m	HTTPS	ITSM server (on premise)
25	Email	SMTP server IP	SMTP server hostname	SMTP	ITSM 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	-	Comodo Client Communication
	LDAP synchronizat ion	User's LDAP server IP	User's LDAP server IP	-	ITSM server (on premise)
636	LDAP synchronizat ion	User's LDAP server IP	User's LDAP server IP	-	Comodo Client Communication
	LDAP synchronizat ion	User's LDAP server IP	User's LDAP server IP	-	ITSM server (on premise)
2195	Apple push notifications	Dynamic	gateway.pu sh.apple.co m	-	ITSM server (on premise)
2196	Apple push notifications	Dynamic	gateway.pu sh.apple.co m	-	ITSM server (on premise)
19302	STUN server	Dynamic (Amazon load balancing)	stun.l.googl e.com	UDP	Comodo Remote Control
Win7+/MacOS. Default port range = 49152 - 65535Direct connectionIP of the CRC host AND target hostWinXP/2003. Default port range = 1025-IP of the connectionIP of the CRC host AND target host		N/A	UDP		
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	-	UDP	

34.232.133.48

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18.208.23.45	

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Appendix 1b: ITSM 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.

- ITSM communicates with Comodo servers, agents and security software on managed devices to monitor activity, provision updates, submit files for analysis 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:
 - Comodo Client Communication (CCC)
 - Comodo Client Security (CCS)
 - ITSM Server (on premise installations)
 - Comodo Remote Control sessions
 - Comodo Remote Control Direct connection
 - Comodo Remote Control Peer to Peer connection
 - Comodo Remote Control Relay connection
 - All settings grouped by port

Comodo Client - Communication (CCC)

	Comodo Client - Communication (CCC)									
Service Purpose Hostname		Hostname	IP	Port	Criticality and notes					
CCC	Communication between device and ITSM server	subdomain.itsm- us1.comodo.com	Dynamic (Amazon load balancing)	443	Mandatory					
Enrollment	To get client certificates	mdmsupport.comodo.co m	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	Dynamic (Amazon load balancing)	443	Mandatory					
LDAP	Synchronization	User's LDAP server host	User's LDAP	389	Optional					

synchronizati on	with LDAP via device		server IP	636 (LDAPS)	For LDAP sync via device only. Related to
					Device to LDAP server connections only
SSO	Single Sign On	one-us.comodo.com	Dynamic (Amazon load balancing)	443	Mandatory
Client Security	Download and install/upgrade	download.comodo.com	178.255.82.5	443, 80	Optional
installation	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.c	104.16.61.31 104.16.60.31		For CCS installation/upgrade only
OCSP	Client certificate revocation checking	http://ocsp.comodoca.co m/	Dynamic load balancing	80	Optional For mobile devices only. Windows CCC do not perform CRL checking yet
CRL	Client certificate revocation checking	http://crl.comodoca.com/	Dynamic load balancing	80	Optional For mobile devices only. Windows CCC do not perform CRL checking yet
3rd Party Patch Management	3rd party applications updates	patchportal.one.comodo .com	23.229.69.170	443	Optional For 3rd party software updates only
Telemetry	Sending telemetry data for analysis	cescollector.cwatchapi.c om	Dynamic (Amazon load balancing)	443	Optional

Comodo Client - Security (CCS)

	Comodo Client - Security (CCS)								
Service	Purpose	Hostname	IP	Port	Protocol	Criticality and notes			

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					1	
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

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LVS	Download the ITSM 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

ITSM Server (on premise installation)

	ITSM 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 Notification		pple.com		2196						
Server				80						
				443						
Local Verdict Server	File rating management	ITSM server hostname	ITSM server IP	443						

Comodo Remote Control

	Comodo Remote Control									
Service	Purpose	Hostname	IP	Port	Protocol	Criticality and notes				
XMPP	Remote Control Session (with	xmpp.itsm- us1.comodo.c	Dynamic (Amazon load	443	HTTPS	Mandatory for both CRC host and				

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	new version of Comodo RC*	om	balancing)			target device
STUN server	To receive possible network configuration, external ip etc.	stun.l.google. com	Dynamic	19302	UDP	Mandatory for both CRC host and target device for peer-to-peer and relay connections.
Direct connection	To establish direct or relay connection between CRC and target device.	-		1025 - 65535	UDP	Mandatory for both CRC host and target device
Direct connection	Establish direct connection between CRC and target device.	-	IP of the CRC 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 CRC host and target device
Peer-to-peer connection	Establish peer- to-peer connection CRC and target device.	-	18.196.107.208 52.29.123.206 34.232.133.48 18.208.23.45	3478	UDP	Mandatory for both CRC host and target device for peer-to-peer connections.
Relay connection	Establish relay connection between CRC 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 CRC host and target device for relay connections.

Comodo 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	UDP							

range: 1025-5000)

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			

 * - applicable to both sides - CRC and target

Comodo Remote Control - Peer to Peer Connection by traffic direction *

Outgoing Traffic						
	Source Destination			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		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)			

* - applicable to both sides - CRC and target.

Comodo Remote Control - Relay Connection by traffic direction*

Outgoing Traffic

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Source		Destination		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, 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 Port		Protocol	
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	

* - applicable to both sides - CRC 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	CCC	Dynamic (Amazon load balancing)	subdomain.itsm- us1.comodo.com	HTTPS	Comodo Client Communication		
	Enrollment	54.93.214.133	mdmsupport.comodo.co m	HTTPS			

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Monitoring and alerts	Dynamic (Amazon load balancing)	plugins.itsm- us1.comodo.com	HTTPS	
File rating management	Dynamic (Amazon load balancing)	subdomain.itsm- us1.comodo.com	HTTPS	
Windows push service (XMPP)	Dynamic (Amazon load balancing)	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	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	Security
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	ITSM 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	ITSM server IP	ITSM server hostname	HTTPS	

	XMPP	Dynamic (Amazon load balancing)	xmpp.itsm- us1.comodo.com	HTTPS	Comodo Remote Control
80	Client Security installation	178.255.82.5	download.comodo.com	HTTPS	Comodo Client Communication
	Installation	104.16.61.31 104.16.60.31	cdn.download.comodo.c om	HTTPS	Communication
	OCSP	Dynamic load balancing	http://ocsp.comodoca.co m/	HTTPS	
	CRL	Dynamic load balancing	http://crl.comodoca.com/	HTTPS	-
	FLS Lookup	199.66.201.16	fls.security.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	
	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	ITSM server (on premise)
25	Email	SMTP server IP	SMTP server hostname	SMTP	ITSM 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		Comodo Client Communication
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	LDAP synchronization	User's LDAP server IP	User's LDAP server IP		ITSM server (on premise)
636	LDAP synchronization	User's LDAP server IP	User's LDAP server IP		Comodo Client Communication
	LDAP synchronization	User's LDAP server IP	User's LDAP server IP		ITSM server (on premise)
2195	Apple push notifications	Dynamic	gateway.push.apple.com		ITSM server (on premise)
2196	Apple push notifications	Dynamic	gateway.push.apple.com		ITSM server (on premise)
19302	STUN server	Dynamic (Amazon load balancing)	stun.l.google.com	UDP	Comodo Remote Control
Win7+/MacO S. Default port range = 49152 - 65535	Direct connection	IP of the CRC host AND target host	N/A	Win7+/Mac OS. Default port range = 49152 - 65535	Comodo Remote Control
WinXP/2003. Default port range = 1025-5000				WinXP/200 3. 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	-	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	

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Appendix 2: Pre-configured Profiles

ITSM ships with the following pre-configured configuration profiles:

- Optimum Windows Profile for ITSM (default profile)
- Standard Windows Profile for ITSM
- Hardened Windows Profile for ITSM
- Optimum Mac OS Profile for ITSM (default profile)
- Optimum IOS Profile for ITSM (default profile)
- Optimum Android Profile for ITSM (default profile)

Windows Profile Settings

Section	Optimum	Standard	Hardened
Containme nt Rule	All malicious files are blocked and quarantined All files in suspicious and	All malicious files are blocked and quarantined All files in suspicious and	All malicious files are blocked and quarantined All files in suspicious
	containment folders are blocked Metro apps are not contained All unrecognized files are contained	 containment folders are blocked Metro apps are not contained Unrecognized files less than 2 days old are contained. Older unrecognized files run normally. The following exceptions apply: All unrecognized files in user and program shared folders are contained. Unrecognized files from the internet, intranet and removable media are contained Unrecognized processes 	and containment folders are blocked All unrecognized files are contained.
		created by web browsers, mail clients and other major application types are contained	
HIPS	Disabled	Disabled	Enabled (Safe mode, Block - default action, Enabled Enhanced Protection Mode)
Firewall	Enabled (Safe mode, Block - default action)	Enabled (Safe mode, Allow - default action)	Enabled (Safe mode, Block by default)
VirusScop e	Enabled (Contained applications only)	Enabled (Contained applications only)	Enabled (All applications)
File Rating	Enabled Detect potentially unwanted applications	Enabled Detect potentially unwanted applications	Enabled Detect potentially unwanted applications

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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