



Comodo Dome Firewall Central Manager

Software Version 1.5

Administrator Guide

Guide Version 1.5.071619



Table of Contents

1 Introduction to Dome Firewall Central Manager	4
1.1 Sign-up for Firewall Central Manager License	5
1.2 Setup Dome Firewall Central Manager	
1.3 Integrate Central Manager with Comodo One / Comodo Dragon / ITarian	
1.4 Login to the Admin Console	22
1.5 Change Password	23
1.6 Add Organizations	24
1.7 Enroll Dome Firewall Devices	25
2 The Main Interface	29
3 The Dashboard	30
3.1 View Details of a Firewall Device	33
3.2 Quick Actions on a Firewall Device	37
3.2.1 Backup/Restore a Firewall Device	37
3.2.2 Configure SSH Access for a Firewall Device	41
3.2.3 Network Configuration	43
3.3 Access Admin Console of a Firewall Device	46
4 Manage System Status and General Configuration	48
4.1 Update Firmware Version	48
4.2 View and Upgrade Central Manager License	50
4.3 View Management Tasks	51
5 Customer Management	55
5.1 Manage Organizations	56
5.2 Activate Firewall Licenses	58
6 Approve Firewall Device Enrollment	59
7 Add Interfaces	62
8 Firewall Management	73
8.1 Configure Firewall Policy Rules	74
8.2 Manage Firewall Address Objects	81
8.3 Manage Firewall Object Groups	84
8.4 Configure Destination Network Address Translation Rules	85
8.5 Configure Source Network Address Translation Rules	88
8.6 Configure System Access Rules	91
9 Configure Virtual Private Network Settings	93
9.1 Configure IPSec/L2TP Users	94
9.2 IPSec Configuration	95
9.3 Configure L2TP Server	99
10 Manage Advanced Threat Protection Profile	101
11 Manage URL and Content Filtering Profiles	102
12 Intrusion Prevention.	106
12.1 Configure the Intrusion Prevention System	107
12.2 Manage IPS Rulesets	108



12.3 Manage Application Identification Rulesets	11	(
About Comodo Security Solutions	11	3



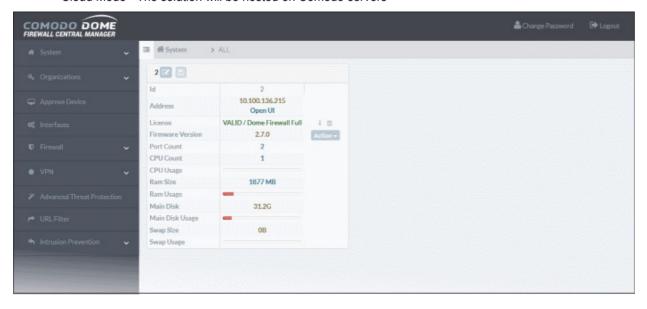
Introduction to Dome Firewall Central Manager

Comodo Dome Firewall Central Manager allows network admins to remotely manage multiple firewall devices from a single, centralized console.

- Import firewall devices belonging to different organizations for collective management.
- Connects to firewall devices even if they are behind Network Address Translation (NAT).
- Configure network zone interfaces, port connections, firewall rules, SNAT/DNAT rules and more for managed devices.
- Rules and profiles can be applied to individual devices or to all devices belonging to an organization.

The central manager is available in two modes:

- Virtual Appliance Install firewall central manager as a VM on your network
- Cloud Mode The solution will be hosted on Comodo servers



Guide Structure

This guide will take you through the configuration and use of Comodo Dome Firewall Central Manager.

- **Introduction to Dome Firewall Central Manager**
 - Sign-up for Firewall Central Manager License
 - **Setup Dome Firewall Central Manager**
 - Integrate Central Manager with Comodo One / Comodo Dragon / ITarian
 - Log- in to the Administrative Console
 - **Change Password**
 - **Add Organizations**
 - **Enroll Dome Firewall Devices**
- The Main Interface
- The Dashboard
 - View Details of a Firewall Device



- **Quick Actions on a Firewall Device**
 - Backup/Restore a Firewall Device
 - **Configure SSH Access for a Firewall Device**
 - **Network Configuration**
- **Access Admin Console of a Firewall Device**
- **Manage System Status and General Configuration**
 - **Update Firmware Version**
 - **View and Upgrade Central Manager License**
 - **View Management Tasks**
- **Customer Management**
 - **Manage Organizations**
 - **Activate Firewall Licenses**
- **Approve Firewall Device Enrollment**
- **Add Interfaces**
- **Firewall Management**
 - **Configure Firewall Policy Rules**
 - **Manage Firewall Address Objects**
 - **Manage Firewall Object Groups**
 - **Configure Destination Network Address Translation Rules**
 - **Configure Source Network Address Translation Rules**
 - **Configure System Access Rules**
- **Configure Virtual Private Network Settings**
 - Configure IPSec / L2TP Users
 - **IPSec Configuration**
 - **Configure L2TP Server**
- **Manage Advanced Threat Protection Profile**
- **Manage URL and Content Filtering Profiles**
- **Manage URL and Content Filtering Profiles**
 - **Configure the Intrusion Prevention System**
 - Manage IPS Rulesets
 - **Manage Application Identification Rulesets**

1.1 Sign-up for Firewall Central Manager License

The trial license is free and covers unlimited users for one year. The license can be upgraded at anytime for continued usage.

There are two ways you can sign up for Firewall Central Manager:

- **Get Central Manager as a standalone application**
 - Login to your Comodo account at https://accounts.comodo.com/login. Register for free if you don't yet have an account
 - Click 'My Account' > 'Sign up to Comodo Dome'.
 - Select 'Dome Firewall Central Manager (Free)' in the product drop-down.



- Complete the application form. You will receive your license key via email.
- Comodo One / Comodo Dragon / ITarian customers
 - Login to your Comodo One / Comodo Dragon / ITarian account
 - Click 'Store' then go to the firewall central manager tile.
 - Click the 'Free' button to begin setup.
 - After adding to your portal account, you can open it by clicking 'Applications' > 'Dome Firewall Central Manager'. See Integrate Central Manager with Comodo One / Comodo Dragon / ITarian for more details.

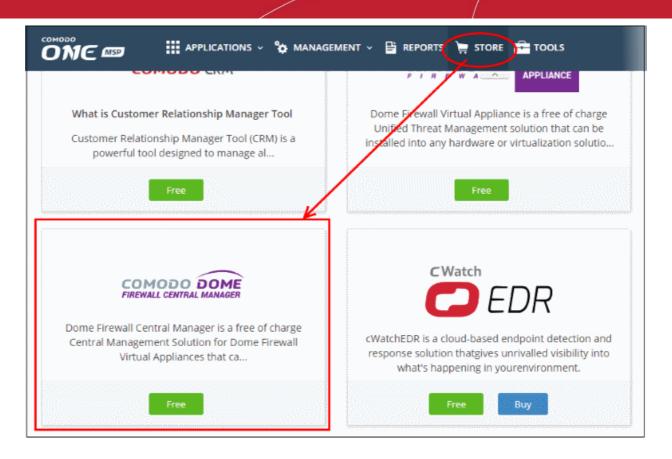
Dome Firewall Central Manager Stand-alone Customers

- Visit https://accounts.comodo.com/login
- Login if you have an account or create new Comodo account
- Click 'Sign Up to Comodo Dome Service'
- Select 'Dome Firewall Central Manager' in the 'Comodo Sign-up Page' section
- In the 'Customer Information' section, select whether you are an existing Comodo customer or not and complete the form.
- Read the EULA fully, select 'I accept the Terms and Conditions' check box and click 'Continue'
- The product purchase confirmation page will be shown.
- You will receive an order acknowledgment mail which also contains subscription ID and license key.
- Next, see Setup Dome Firewall Central Manager' to download the setup file and install it.

Comodo One / Comodo Dragon / ITarian MSP and Enterprise Customers

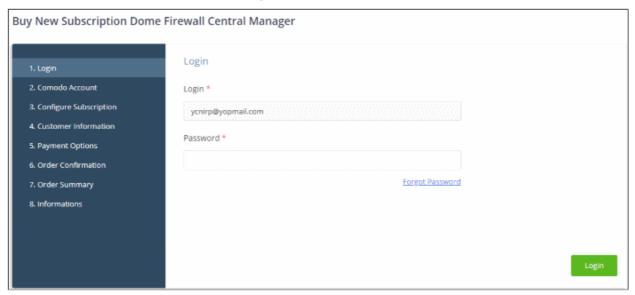
- Login to your Comodo One / Comodo Dragon / ITarian account.
 - The process of adding is same for Comodo One, Comodo Dragon and ITarian platforms. The following tutorial explains how to add Firewall Central Manager to Comodo One platform.
- Click the 'Store' link on the top-navigation





Locate the 'Dome Firewall Central Manager' tile and click the 'Free' button.

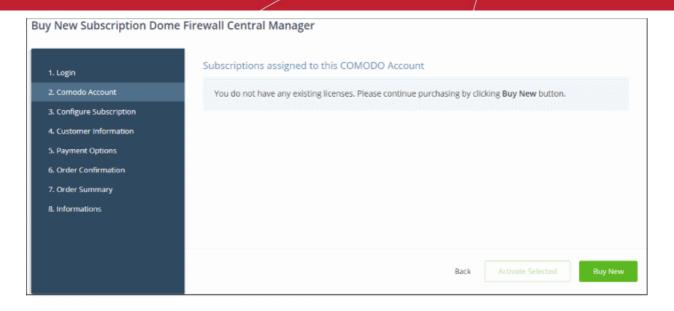
You will be taken to the product subscription page:



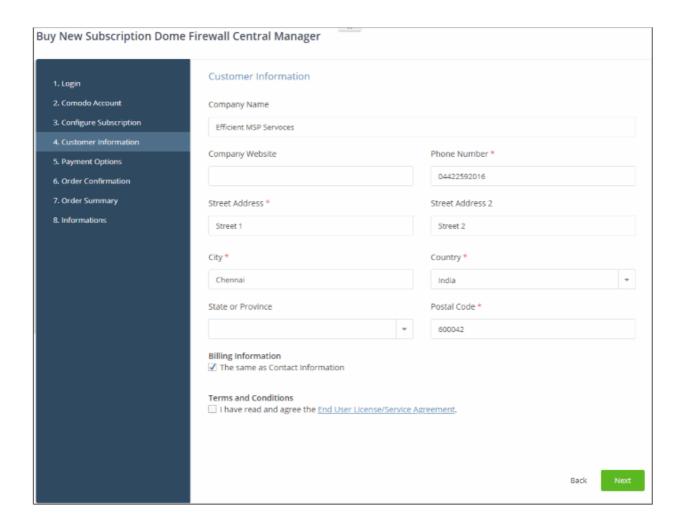
Your login username will be pre-populated and cannot be changed.

- Enter your Comodo One account password and click 'Login'.
- The next step allows you purchase a new license or activate an existing license:





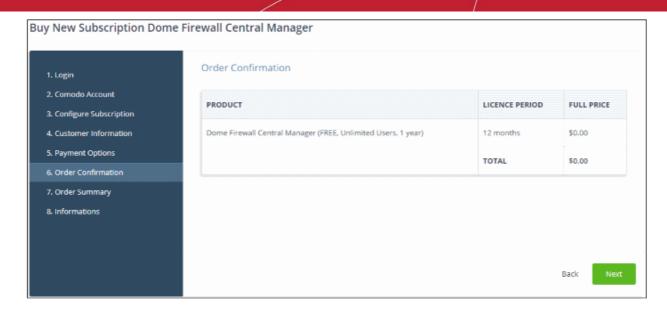
Click 'Buy Now' to purchase a new license



Enter your company name, website and address details in the 'Customer Information' section. Read the EULA fully, agree to the terms & conditions and click 'Next':

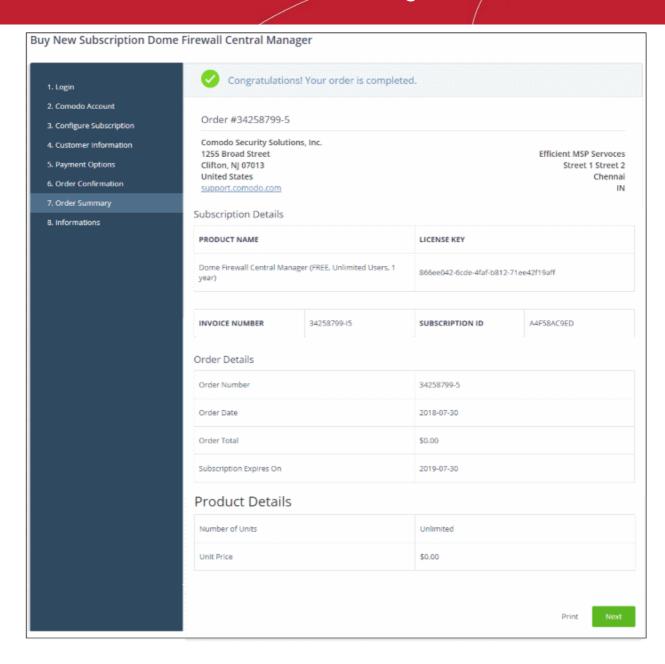
Next, review your order details and click 'Next to confirm:





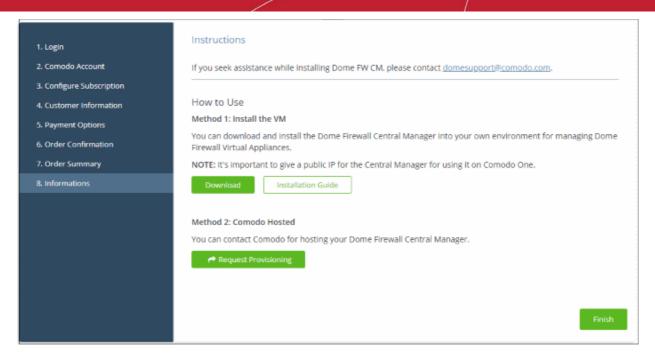
You will see a order confirmation screen after your order has been successfully processed:





Click 'Next' to move onto the instructions page. This provides help to setup Comodo Dome Firewall Central Manager on your network.





- There are two ways that you can setup Dome Firewall Central Manager:
 - On premises Download the .ova setup file and install as explained in the next section. After installing CM in your environment, you can integrate it with your portal platform if required. Click here for help to integrate CM with C1 / Comodo Dragon (CD) / ITarian.
 - Hosted Comodo will host Central Manager for you. Click 'Request Provisioning'. You will receive an email from Comodo containing the URL of your instance. This hosted service URL has to be configured in 'C1 / CD / ITarian' > 'Management' > 'Applications' > 'Dome Firewall Central Manager' and entered in the 'Settings' tab. Click here for more details.
- Click 'Finish' to return to the C1 Dashboard.
- Your license will be activated. You will also receive a confirmation email for your order.

1.2 Setup Dome Firewall Central Manager

There are two ways to set up Comodo Dome Firewall Central Manager:

- Virtual Appliance
- **Cloud Mode**

Virtual Appliance

- The virtual appliance setup file is available in two formats:
 - .OVA File
 - JSO File

Installation from OVA File

- Download the .ova file for Comodo Dome Firewall Central Manager from https://download.comodo.com/dome-repo/dome-fw-image/domefirewallcm.ova or from the final instructions dialog while adding CM to your C1 / Comodo Dragon / ITarian account.
- Import the virtual appliance into VMs such as Virtualbox and Vmware.
- Assign a public IP address to the virtual appliance
- Once installed, you can access the central manager console at https://<IP address of the virtual appliance>
 - UN = 'admin', password = 'comodo' (both without quotes). You should change these credentials



after first login.

You will be asked to enter a license key after first login:

Central Manager License Activation	
Please Enter a License Number:	
Flease Effet a License Number.	
Submit	

Enter your license key and click 'Submit'.

Tip: Comodo One / Comodo Dragon / ITarian customers can integrate the central manager appliance with their portal accounts. See Integrate Central Manager with Comodo One / Comodo Dragon / ITarian for more details.

Installation from ISO File

Central manager is available as an .iso which can be copied to usb and installed on bare-metal appliances.

- Download the .iso file from https://download.comodo.com/dome-repo/dome-fwimage/domefirewallcm.iso.
- Create a Ubuntu virtual machine and start installation of the virtual appliance from the .iso file
 - Follow the installation wizard, select your installation language, country and keyboard layout



- Enter the root password as 'comodo' (without quotes) when asked and continue.
- Choose 'Guided use entire disk and setup LVM' in the partition step



[!!] Partition disks

The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.

If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.

Partitioning method:

Guided – use entire disk use entire disk and set up LVM Guided – use entire disk and set up encrypted LVM Manual

<Go Back>

Select the disk to be partitioned

├ [!!] Partition disks ├

Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes.

Select disk to partition:

SCSI3 (0,0,0) (sda) – 8.6 GB ATA VBOX HARDDISK

KGn Back>

Select 'Yes' to 'Write the changes to disks and configure LVM'

[!!] Partition disks

Before the Logical Volume Manager can be configured, the current partitioning scheme has to be written to disk. These changes cannot be undone.

After the Logical Volume Manager is configured, no additional changes to the partitioning scheme of disks containing physical volumes are allowed during the installation. Please decide if you are satisfied with the current partitioning scheme before continuing.

The partition tables of the following devices are changed: SCSI3 (0,0,0) (sda)

Write the changes to disks and configure LVM?

<Nn>

Select the disk partition size



[!] Partition disks

You may use the whole volume group for guided partitioning, or part of it. If you use only part of it, or if you add more disks later, then you will be able to grow logical volumes later using the LVM tools, so using a smaller part of the volume group at installation time may offer more flexibility.

The minimum size of the selected partitioning recipe is 2.0 GB (or 23%); please note that the packages you choose to install may require more space than this. The maximum available size is 8.3 GB.

Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percentage (e.g. "20%") to use that percentage of the maximum size.

Amount of volume group to use for guided partitioning:



<Go Back>

<Continue>

Select 'Yes' for 'Write the changes to disks?':

🕇 [!!] Partition disks 🛏

If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed:

LVM VG ubuntu–vg, LV root LVM VG ubuntu-vg, LV swap_1 SCSI3 (0,0,0) (sda)

The following partitions are going to be formatted:

LVM VG ubuntu-vg, LV root as ext4 LVM VG ubuntu-vg, LV swap_1 as swap partition #1 of SCSI3 (0,0,0) (sda) as ext2

Write the changes to disks?



<No>

- Continue the setup
- Enter the IP address of your proxy server if you are using one on your network. If not, leave the field blank and choose 'Continue':

🕇 [!] Configure the package manager 📙

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user][:pass]@]host[:port]/".

HTTP proxy information (blank for none):

<Go Back>

<Continue>

The installation will begin. Once complete, please choose how you wish to handle updates:



[!] Configuring libssl1.0.0:amd64		
Applying updates on a frequent basis is an important part of keeping your system secure.		
By default, updates need to be applied manually using package management tools. Alternatively, you can choose to have this system automatically download and install security updates, or you can choose to manage this system over the web as part of a group of systems using Canonical's Landscape service.		
How do you want to manage upgrades on this system?		
No automatic updates Install security updates automatically Manage system with Landscape		

Select your preferred option and continue onto the package selection screen:

[!] Software selection			
At the moment, only the core of the system is installed. To tune the system to your needs, you can choose to install one or more of the following predefined collections of software. Choose software to install:			
[] OpenSSH server [] DNS server [] LAMP server [] Mail server [] PostgreSQL database [] Print server [] Samba file server [] Tomcat Java server [] Virtual Machine host [] Manual package selection			

- Select 'OpenSSH Server' then continue. Use the Space bar to select the option.
- The appliance will restart when installation is complete...
- Assign a public IP address to the virtual appliance
- Once installed, you can access the Dome Firewall Central Manager console at the URL https://<IP Address of the virtual appliance>
 - UN = 'admin', password = 'comodo' (both without quotes). You should change these credentials after first login.
- You will be asked to enter the license key on your first login:

Central Manager License Activation	
Please Enter a License Number:	
Trade Enter a Election Training	
Submit	

Enter your license key and click 'Submit'.



Tip: Comodo One / Comodo Dragon / ITarian customers can integrate the central manager appliance with their portal accounts. See **Integrate Central Manager with Comodo One / Comodo Dragon / ITarian** for more details.

Cloud Version

- Contact Comodo at provisiondome@comodo.com with your license key to setup the service.
- After setup, we will inform you of the IP address or domain on which the service is hosted
- The way you login to the console depends on how you purchased your license:
 - Stand-alone Customers You can access your central manager instance at the address provided to you. For example, https://<given I P address>
 - UN = 'admin', password = 'comodo' (both without quotes). You should change these credentials after first login.
 - Comodo One, Comodo Dragon and ITarian MSP/Enterprise Customers you can integrate
 your central manager appliance to your portal account. You can access the central manager
 administrative console directly from your portal. See Integrate Central Manager with Comodo
 One / Comodo Dragon / ITarian for more details.

1.3 Integrate Central Manager with Comodo One / Comodo Dragon / ITarian

Comodo Dome Firewall Central Manager can be integrated with your Comodo One / Comodo Dragon (CD) / ITarian account. Once integrated, you can access CM from portal by clicking 'Applications' > 'Dome Central Manager'.

The following sections explain how to integrate different versions of CM to C1 / CD / ITarian:

- Dome Firewall Central Manager Virtual Appliance
- Dome Firewall Central Manager Cloud Mode

Dome Firewall Central Manager Virtual Appliance

Single Sign-on (SSO) from C1, CD and ITarian is not enabled by default in the virtual appliance version. Integrating CM virtual appliance with your portal involves two steps:

- Step 1 Enable SSO in the virtual appliance
- Step 2 Add the IP Address of your CM installation as Dome Service URL for Dome Firewall Central Manager to your Comodo One / CD / ITarian account.

Step 1 - Enable SSO in the virtual appliance

Note: Ensure that you have assigned a public IP address to the virtual appliance

Login to the root account of the linux virtual machine with default credentials:

```
username = root
password = comodo
```

- Open the settings file of the central manager at /home/ubuntu/central-manager/centralmgr/settings.py using an editor.
- Scroll down to the 'cONE SSO settings' area



```
rest_framework.authentication.SessionAuthentication',
       )
# Honor the 'X-Forwarded-Proto' header for request.is_secure()
SECURE_PROXY_SSL_HEADER = ('HTTP_X_FORWARDED_PROTO', 'https')
# Allow all host headers
ALLOWED_HOSTS = ['*']
#AUTH_USER_MODEL = 'authentication.Account'
#License
wBlechsol
WEB_API_LOGIN = "utm_web_api"
CAM_PATH_TO_CONNECT = "accounts.comodo.com"
CAM_PORT_TO_CONNECT = 443
CAM_SERVICE_PATH = "/signup_service/check_license_key"
SECRET_PHASE = "cwrcxdvgamknndmo"
# cOne SSO
SSO = 0 # 0 for casual login
SSO_TOKEN_CHECK_IP = 'one.comodo.com'
SSO_TOKEN_CHECK_PORT = 80
SSO_TOKEN_CHECK_SSL_PORT = 443
SSO_TOKEN_CHECK_URI = '/ir'
SSO_EMAIL_CHECK_IP = 'one.comodo.com'
SSO_EMAIL_CHECK_URI = '/app/auth'
SSO_EMAIL_CHECK_PORT = 80
SSO_EMAIL_CHECK_SSL_PORT = 443
SSO_REDIRECT_PREFIX = 'https://one.comodo.com/app/?token='
SSO_REDIRECT_POSTFIX = '#/licensed-applications/dome_firewall_central_manager'
SSO_TOKENLESS_REDIRECT_URL = 'https://one.comodo.com/app/#/licensed-applications/dome_firewall_centr
al_manager'
SSO_API_KEY = 'DOMEFWCMAK'
SSO_SSL_ENABLED = 1
SSO_TOKEN_PATH = '/etc/cm_sso_token.txt'
```

- Set the SSO flag to1
- Save the 'Settings' file
- Restart the apache service using the Sudo command: sudo apache2ctl restart

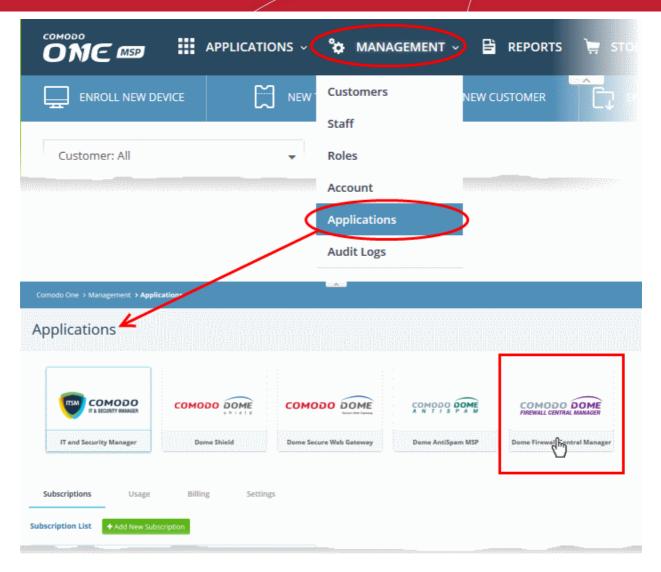
SSO with your portal is enabled in your Central Manager appliance.

Step 2 - Add Dome Service URL for Dome Firewall Central Manager to your Comodo One / CD / ITarian account

You need to add the IP Address of your appliance as Dome Service URL for Dome Firewall Central Manager to your portal account.

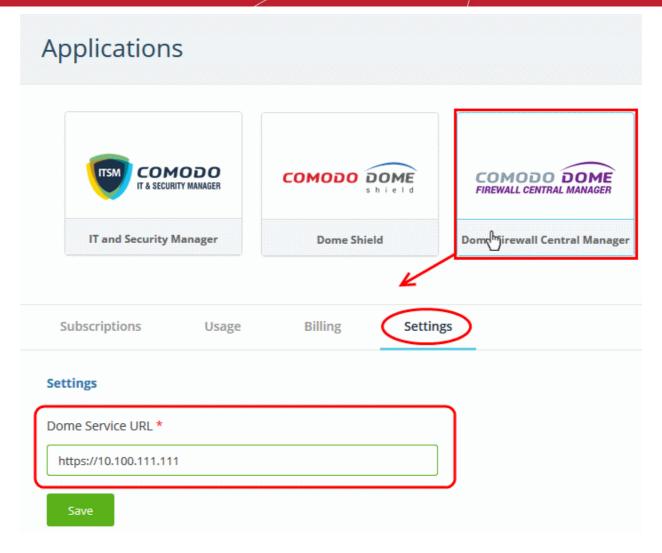
- Login to your Comodo One / Comodo Dragon / ITarian account
- Click 'Manage' > 'Applications' from the top to open the Application Management screen. (Comodo One portal is shown below as an example)





- · Click the 'Dome Firewall Central Manager' tile
- · Select the 'Settings' tab in the bottom pane





Enter the IP address of your appliance (in the form https://<given IP Address>) in the Dome Service URL text box and click 'Save'.

Your Firewall Central Manager appliance is now integrated with your Comodo One / CD / ITarian account. You can login to your Central Manager console from your portal.

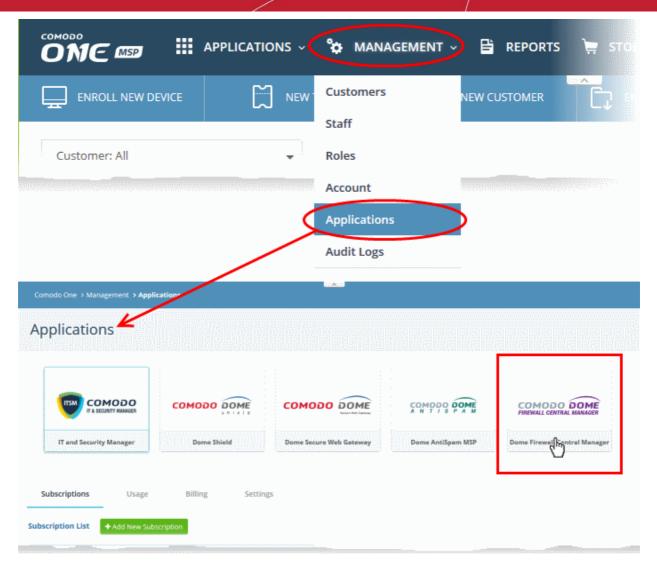
Dome Firewall Central Manager Cloud Mode

Single Sign-on (SSO) is enabled by default in the cloud version. You need to add your CM access URL or the IP address as Dome Service URL for Dome Firewall Central Manager to your portal account.

To integrate your Cloud CM to Comodo One, Comodo Dragon or ITarian account

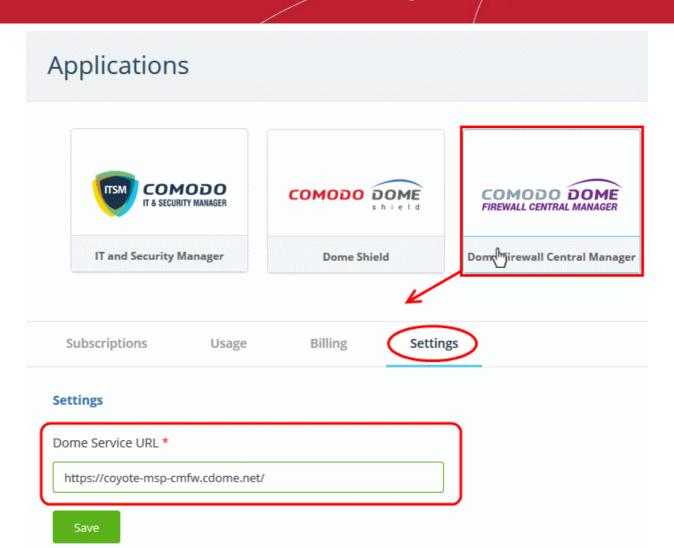
- Login to your Comodo One / Comodo Dragon / ITarian account
- Click 'Manage' > 'Applications' to open the 'Application Management' screen. (Comodo One portal is shown below as an example)





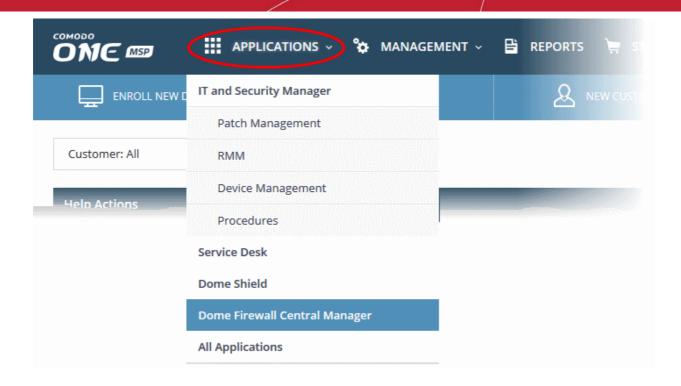
- · Click the 'Dome Firewall Central Manager' tile
- · Select the 'Settings' tab in the bottom pane





- Enter the given domain or IP address (Format = https://<given IP Address>) in the Dome Service URL text box and click 'Save'.
- Dome Firewall Central Manager is now integrated with your portal account.
- You can access CM from your portal as follows:
 - Login to your Comodo One / Comodo Dragon / ITarian account
 - Click 'Applications' > 'Dome Firewall Central Manager'





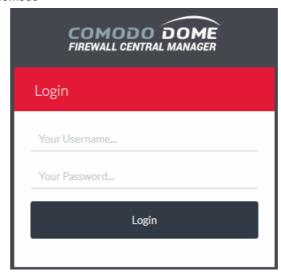
Central manager will open at the dashboard in a new tab.

1.4 Login to the Admin Console

Dome Firewall Stand-alone Customers

Once setup, you can login to the central manager admin console using any web browser.

- Paste the IP address of your instance into any browser. Format = https://<given IP address>.
- Login with the following default credentials:
 - Username = admin
 - Password = comodo



 You can change the default password after first login. Choose a strong password that contains a mix of upper and lower case letters, numbers and special characters. We also recommend regularly changing your



password as a best security practice. See Change Password for more details.

Comodo One / Comodo Dragon / ITarian MSP and Enterprise Customers

You can login to the administrative console in two ways:

- Login to stand-alone Central Manager Console
 - Enter the given URL or https://<given ip address of the central manager> in the address bar of the
 - Use the default credentials:

Username = admin

Password = comodo

- You can change these credentials anytime after your first login. See Change Password for more
- Comodo One/ CD / ITarian Console You can integrate your Dome Firewall Central Manager to your portal and access the administrative console from it. See Integrate Central Manager with Comodo One / Comodo Dragon / ITarian for more details.
 - After integration, you can access the administrative console at anytime by clicking 'Applications' > 'Dome Firewall Central Manager' from your portal console.



Change Password 1.5

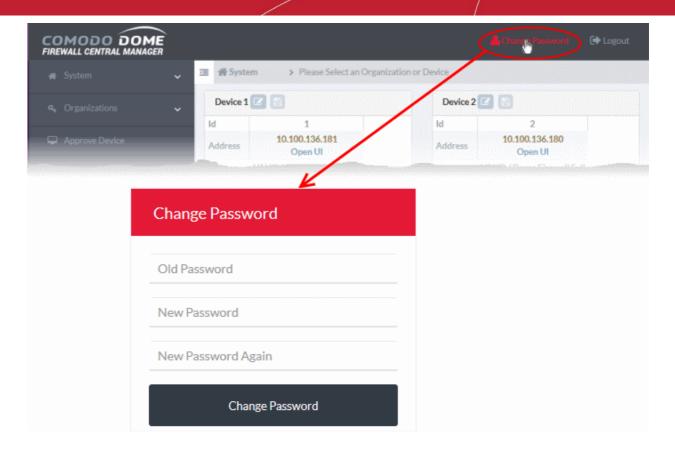
The 'Change Password' option at the top right allows you to change your login password at any time.

Note: The change password option will be available only for stand-alone Central Manager Console. You cannot change the password for central manager console accessed through C1 / CD / ITarian portal.

To change your login password for Dome Firewall Central Manager

Click 'Change Password' at the top right





The 'Change Password' dialog will appear.

- Enter your existing password in the 'Old Password' field
- Enter a new password in the 'New Password' field and re-enter it for confirmation n the 'New Password Again' field. The new password should be of minimum eight characters length. Choose a strong password that contains a mix of upper and lower case letters, numbers and special characters

Tip: We also recommend regularly changing your password as a best security practice.

Click 'Change Password'

Your password will be changed. You should use your new password from your net login.

1.6 Add Organizations

• Each firewall device you enroll to the central manager needs to be assigned to an organization. Doing so will allow you to collectively manage and apply policies to all devices in the organization.

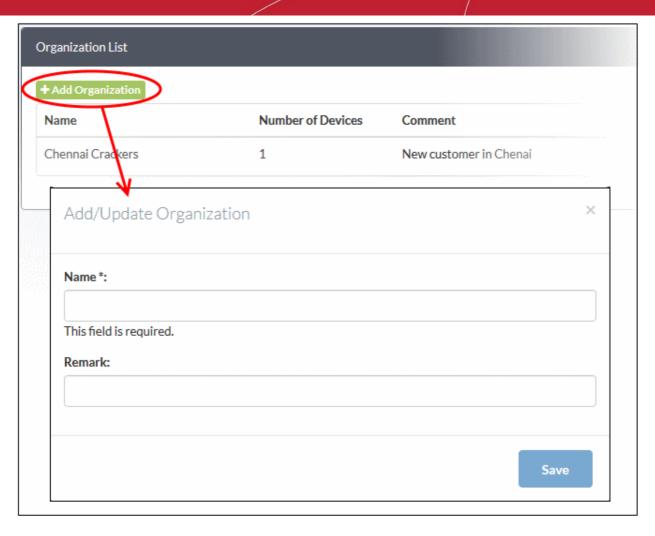
Notes:

- Your C1 / CD / ITarian 'Organizations' are NOT imported into Comodo firewall central manager.
- You must add organizations separately in firewall central manager. You may, of course, use the same organization names for identification purposes.

To add organizations

- Click 'Organizations' > 'Organizations' on the left
- Click 'Add Organization' at the top-left of the interface





Complete the following items in the add organizations dialog:

- Name The name of the customer organization you want add. You can make this match the name of a C1 / CD / ITarian organization if you prefer.
- Remark Description of, or comments about, the organization
- Click 'Save' to add the organization.

The new organization will be shown in the organization list. You can now assign devices to the organization.

Repeat the process to add more organizations.

Enroll Dome Firewall Devices 1.7

- Dome Firewall devices have a built-in client which communicates with the central manager. This allows the device to receive commands from the manager and apply them to the firewall.
- Dome Firewall virtual appliances behind Network Address Translation (NAT) can also be enrolled to the central manager. The manager will communicate with the appliance through the NAT IP address.
- Note Existing configurations (policies, objects etc) will not be imported with the FW device. We recommend you remove these from the device before importing then configure them again in central manager.

Enrolling firewall devices to Central Manager takes two steps:

- **Connect the device to Dome Firewall Central Manager**
- Approve the device and assign it to an organization

See the following for more details:

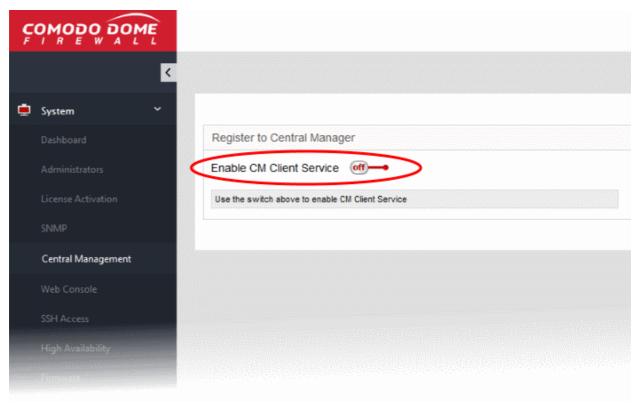


Step1: Connect the firewall device to Dome firewall Central Manager

Login to the firewall device at https://<ip address of the Dome firewall device>:10443

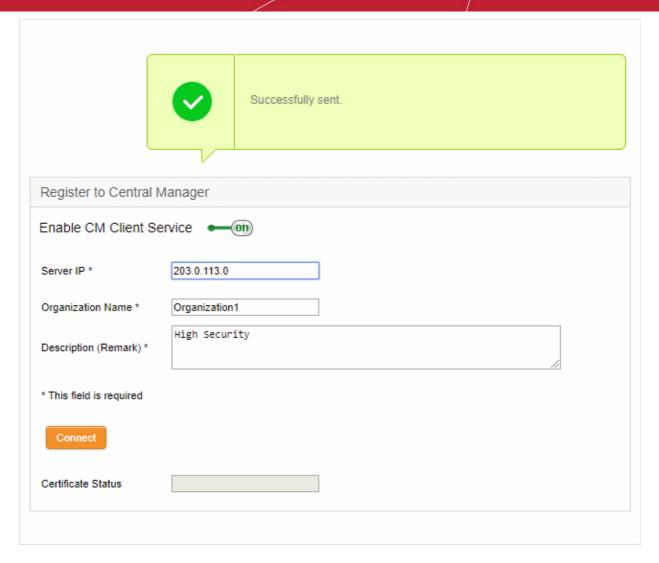
The 'Comodo Dome Firewall' interface will open.

- Click 'System' > 'Central Management'
- Switch 'Enable CM Client Service' to 'ON':



- Enter the parameters required to connect the firewall to Dome central manager
 - Server IP Enter the IP address of the DFW Central Manager interface
 - Organization Name Enter the name of the organization to which you want the device to belong. You can create organizations by logging into the central manager and clicking 'Organizations' > 'Organizations' > 'Add Organization'.
 - Description (Remark)* Enter any comments you wish to leave about the device
- Click 'Connect'





The device will be successfully connected to Dome Firewall Central Manager.

Next, the administrator needs to approve the device in order to complete the import process.

Step 2 : Approve the Dome Firewall Device

- Newly enrolled devices must be approved by the central manager admin before they can be imported. These devices are listed in the 'Approve Device' interface.
- The 'Approve Device' interface lets you approve devices and assign them to an organization

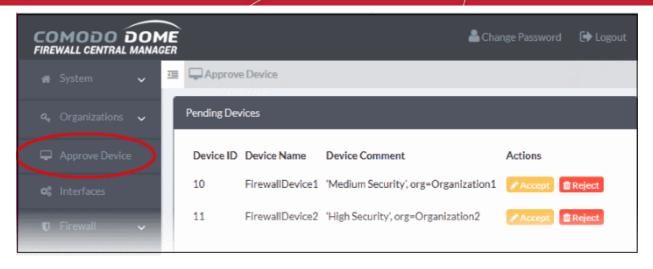
To approve a device:

- Make sure you have connected the device as explained in step 1 above.
- Login to the DFW Central Manager console.

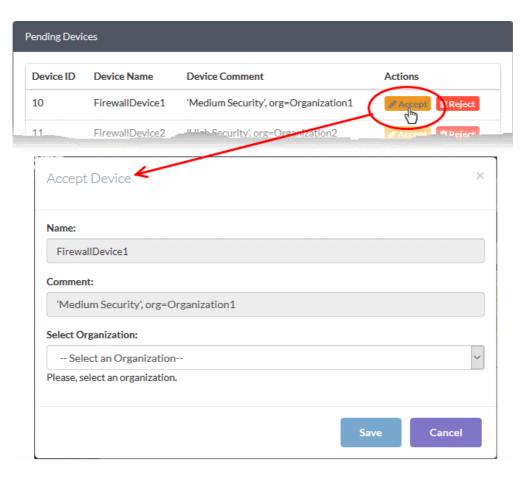
After logging in,

Click 'Approve Device' on the left.





- The 'Pending Device' interface shows all devices awaiting approval.
- Click 'Accept' next to the device you wish to approve. This will open the 'Accept Device' dialog.
- You have the option to change the device organization if required.
- Click 'Save' to approve the device and assign it to an organization.
- Repeat the process to approve and import more devices.

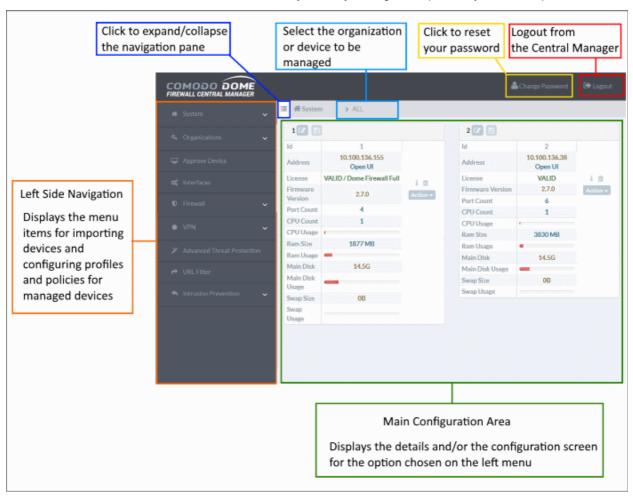


- Name The device label. The name is pre-populated and cannot be edited. Please note that you can change the name of a device from the dashboard after device enrollment.
- Comment Brief description and organization details entered when enrolling the device. This field is pre-populated and not editable
- Select Organization Choose the organization to which the device should be assigned. See Add Organizations if you have not yet added an organization.



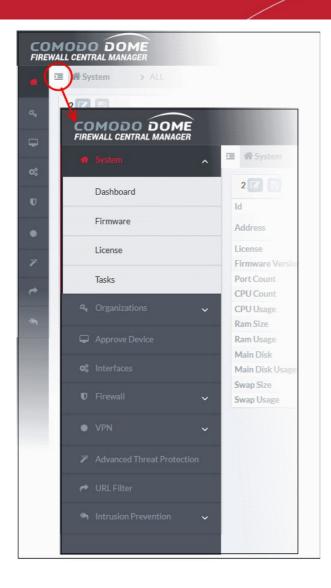
The Main Interface

The admin console has a modular interface which lets you easily manage all aspects of your firewall policies:



All modules can be accessed using the links in the left-hand menu. The following table is a quick overview of the modules:





- System View dashboard, manage enrolled firewall devices, update firmware, activate CM license, view and re-apply management tasks and more.
- Organizations View and manage customer organizations for whom you manage firewall devices and activate firewall device licenses.
- Approve Device Accept and import enrolled new devices and assign them respective organizations.
- Interfaces Configure network zone interfaces for connection to different ports of managed firewall devices.
- Firewall Configure firewall policy rules for managed devices, create security profiles for use in policy rules and more.
- VPN Configure IPsec-based VPN tunnels and L2TP servers. Manage IPSec / L2TP users.
- Advanced Threat Protection Configure default ATP profiles for managed organizations and devices for use in firewall policy rules applied to them.
- URL Filter Configure web filtering profiles for use in firewall policy rules for managed organizations and devices.
- Intrusion Prevention Configure default profiles for Intrusion Prevention and application detection for use in firewall rules applied to managed organizations and devices.

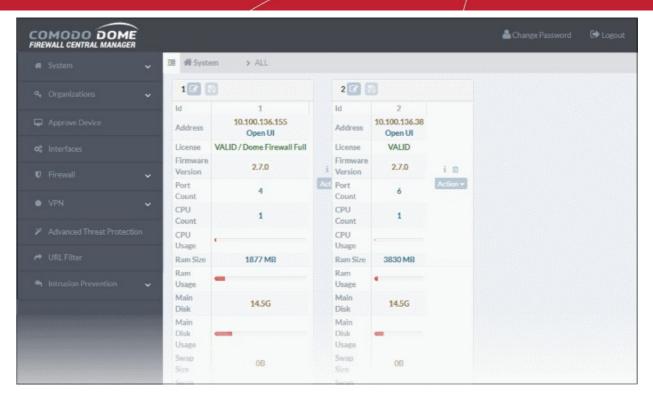
3 The Dashboard

The dashboard shows information about firewall devices which have been added to the central manager.

- Click 'System' > 'Dashboard' on the left to access the dashboard
- Each tile contains info about a specific device.
- The 'Open UI' link lets you login to the firewall directly. You can perform actions like backup data, edit network configuration and configure SSH access.
- You can also edit the name of the device and remove a device.

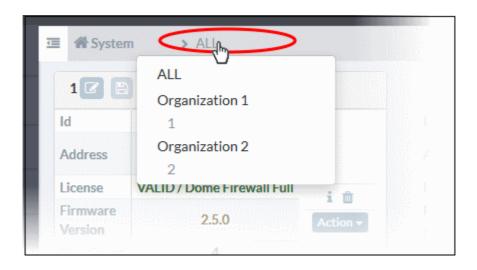
The dashboard is shown by default whenever you login to the admin interface.





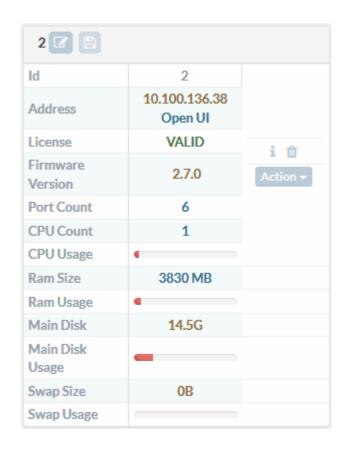
The dashboard shows the last viewed firewall devices after logging in. Use the filter at the top to view only devices which belong to a specific organization.

Click the filter at the header and select an organization.



Each tile shows device identification/location/license and hardware/software details. There are also shortcuts to view complete details on various parameters, execute device tasks and more.





Device Details - Table of Parameters		
Parameter	Description	
ID	The identification number assigned to the firewall device by the central manager	
Address	The IP address of the device.	
	 If the device is behind Network Address Translation (NAT), the NAT address of the device is shown. 	
	Click 'Open UI' to login to the firewall console	
	See Access Admin Console of a Firewall Device for more details.	
License	Displays the license type of the device and its status, whether valid or expired.	
Firmware Version	The firmware version number of the firewall device, You can update the firmware from the central manager if required. See Update Firmware Version for more details.	
Port Count	Number of network interfaces connected to the firewall.	
CPU Count	Number of processor resources in the firewall device	
CPU Usage	The usage of the CPU resources. In a multi-processor device, the cumulative load on all CPU's is indicated.	
RAM size	The size of the system memory in the firewall device.	
RAM Usage	Shows the amount of system memory currently used.	
Main Disk	Shows the size of root partition of the disk drive in the firewall appliance.	



Main Disk Usage	Shows the current usage of the root partition of the hard disk in the firewall device. The disk usage should not exceed 95%.			
Swap Size	Shows the size of memory dedicated for swapping services/processes in the firewall evice.			
Swap Usage	Shows the current usage of the swap memory. The average swap usage will be below 20%, if not all the services are used all the time.			
	Control Buttons			
Edit and Save	Allow you to change the name of the device as identified in the dashboard. • Click the 'Edit' button to open the edit field			
	Id 2			
	2			
	Id 2 10.100.136.38 Open UI			
	License VALID			
	Firmware Version 2.5.1			
	 Enter a new name for the device Click the 'Save' button for the new name to take effect 			
Information i	Shows the details on currently running services and disk usage on the firewall device. See View Details of a Firewall Device for more details.			
Trash Can III	Removes the firewall device from management.			
Action Action -	Contains options to execute important configuration changes in the firewall device. See Quick Actions on a Firewall Device for more details.			

3.1 View Details of a Firewall Device

The dashboard lets you view a list of currently running services, disk usage and the kernel version of a managed firewall device.

To view the details

- Click 'System' on the left then select 'Dashboard'
- Click the information icon i on the tile of the device





The details pane contains three areas:

Services - Shows a list of services that are currently loaded to the firewall device and their current running status. A service may be stopped if the corresponding daemon or script is not enabled. An example is shown below:



Services	
CRON Server	RUNNING
Cwatch Analyser	STOPPED
Cwatch Ces	STOPPED
DHCP Server	STOPPED
DNS Proxy Server	RUNNING
Intrusion Prevention System	STOPPED
Logging Server	RUNNING
NTP Server	RUNNING
SSLVPN Server	STOPPED
Secure Shell Server	STOPPED
URL Filter	STOPPED
VPN IPSec	STOPPED
Virus Scanner	STOPPED
Web Proxy	STOPPED
Web Server	RUNNING

Disk Usage - Shows the hard disk drives/ partitions mounted on the firewall device, their mount path and the space of each disk partition similar to the output of Linux Disk Free (df) command. An example is shown below:



Doubles	Mounted on	C:	Head	Fee-	Dorossta
Device	Mounted on	Size	Used	Free	Percentage
/dev/sda2	/	53G	2.1G	48G	
					5%
/dev/sda1	/boot	126M	26M	94M	
					22%
tmpfs	/dev/shm	1.6G	0	1.6 G	
					0%
tmpfs	/tmp	537M	25k	537M	
					1%
tmpfs	/var/cache	537M	2.0M	535M	
					1%
tmpfs	/var/lib/collectd	68M	14M	54M	
					21%
tmpfs	/var/tmp	537M	0	537M	
					0%

Kernel Version - Shows the version number of the kernel currently used by the firewall device. An example is shown below:

Kernel Version	
2.6.32-504.el6.x86_64	



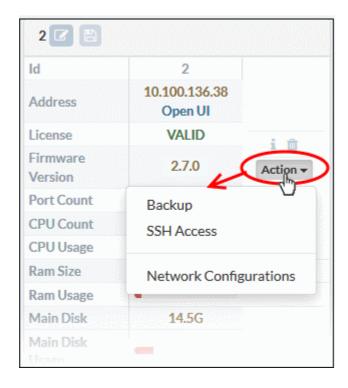
Quick Actions on a Firewall Device 32

The 'Action' button on a device tile contains links to important configuration interfaces for the device.

To perform quick actions on a device

- Click 'System' on the left then select 'Dashboard'
- Click the 'Actions' button on the tile of a device

You can configure the following from this menu:



- Backup Make a copy of the firewall configuration and logs. Restore the device from a saved backup. See Backup/Restore a Firewall Device for more details.
- SSH Access Configure secure shell access to the device. See Configure SSH Access for more details.
- Network Configurations Setup network zone connections to different ports of the device. See Network Configuration for more details

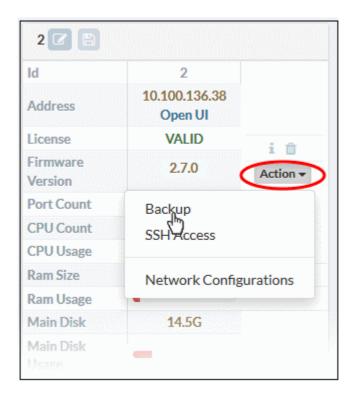
3.2.1 Backup/Restore a Firewall Device

- Dome Central Manager allows you to backup the current state of a firewall device at any time. Each backup includes device configuration settings and database dumps.
- The backups are stored on the firewall device itself.
- You can restore the firewall from any saved backup by clicking the 'Restore' button.

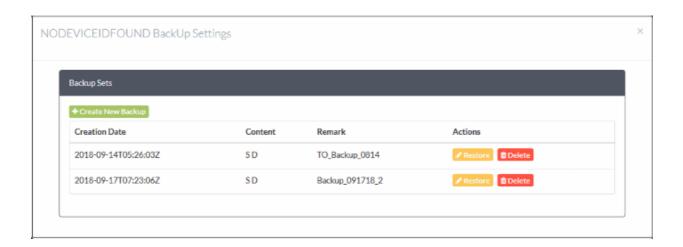
To manage backup and restore operations of a device

- Click 'System' on the left then select 'Dashboard'
- Click the 'Actions' button on the tile of the device





Select 'Backup' from the options



The backup settings interface lists any previously created backups and allows you to create a new backup.

The list only shows backup sets created via the central manager interface. Backups created on the firewall device itself are not listed.

Backup Sets - Column Descriptions				
Column Header		Description		
Creation date	Date and tin	Date and time at which the backup was created.		
Content	Shows the d	Shows the components of the backup		
Character Expansion Desc		Description		
	D	Database dumps	Contains database dumps	



	S	Settings	Contains configurations and settings
Remark	Comments	entered by the administ	trator during backup creation
Actions		- Restores the firewall - Deletes the backup	using this backup

The following sections explain backup tasks in more detail:

- Create a backup
- Rollback a firewall device to a previous time point

Create a Backup

- You can backup the configuration and database dumps of a managed firewall at any time.
- For example, you may wish to do this before making a critical configuration change.
- Backups are stored locally on the firewall device. You can restore devices from a backup as required.

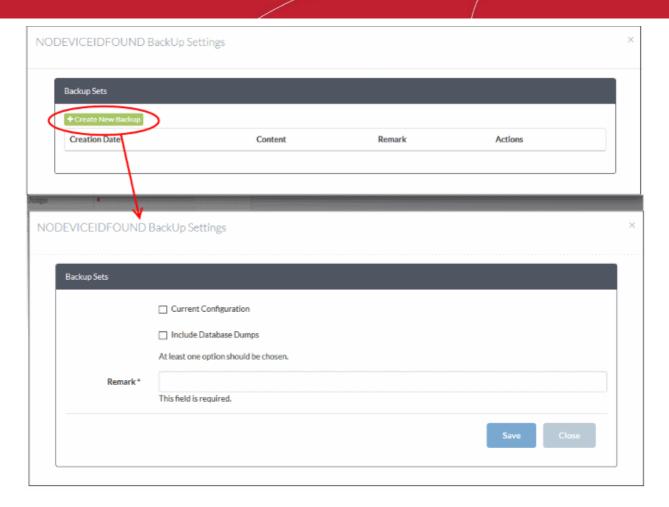
To create a backup of a device

- Click 'System' on the left then select 'Dashboard'
- Click the 'Actions' button on the tile of the device and choose 'Backup'

The backup settings interface will open.

Click the 'Create New Backup' button





- Choose the components you want to include in the backup:
 - Current configuration Will backup all current firewall settings.
 - Include database dumps Adds firewall database content and logs to the backup.
- Enter a short description or comment for the backup in the text box. This description will appear in the 'Remark' column in the list of backup archives.
- Click 'Save'.

A command to create the backup will be sent to the device. Once the backup has been created and stored on the device, it will be listed in the 'Backup Sets' interface.

Rollback a Firewall Device to a Previous Time Point

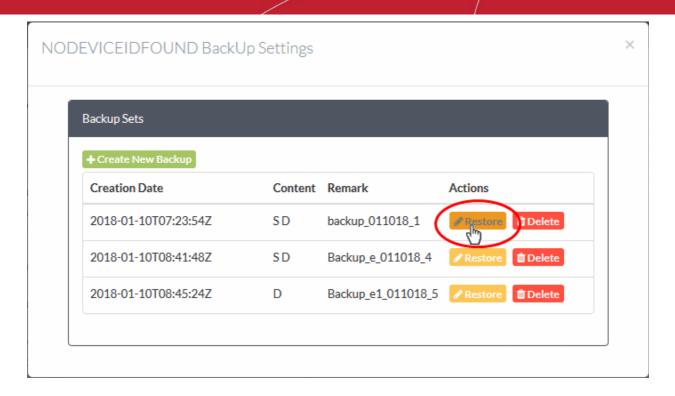
Backup archives allow you to rollback a firewall to a previous state if you encounter issues with your current configuration. The firewall will automatically restart after you have restored from a backup.

To restore a backup

- Click 'System' on the left then select 'Dashboard'
- Click the 'Actions' button on the tile of the device and choose 'Backup'

The backup settings interface will open with a list of available archives:





- Click the 'Restore' button Restore in the row of the required backup archive.
- After the restore operation is complete, the device will restart with the configuration as per the backup contents.

3.2.2 Configure SSH Access for a Firewall Device

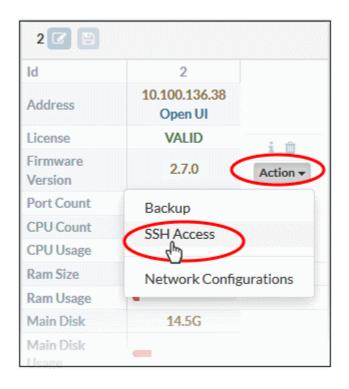
SSH connections let you provide access to managed firewalls from clients in external networks.

Note: SSH grants access to important information and configuration data which are inaccessible via Dome Firewall's GUI interfaces. Administrators should provide SSH access and authorization with caution.

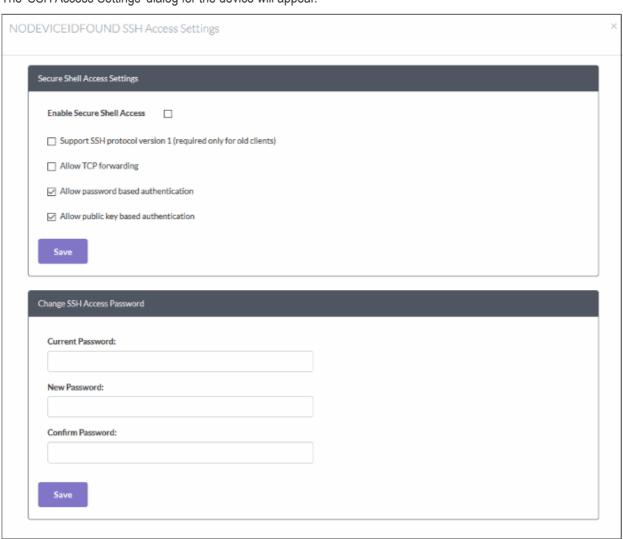
To enable and configure SSH access for a firewall device

- Click 'System' on the left then select 'Dashboard'
- Click the 'Actions' button on the tile of the device
- Choose 'SSH Access' from the options





The 'SSH Access Settings' dialog for the device will appear.





Secure Shell Access Settings - Table of Parameters		
Forrn Element	Description	
Enable Secure Shell Access	Allow or deny SSH access to the firewall device.	
Support SSH protocol version 1 (required only for old clients)	Select this option only if you are using old SSH client that do not support the newer versions of the SSH protocol.	
Allow TCP forwarding	Select this option to allow other protocols like TCP to tunnel through SSH.	
Allow password based authentication	Select this option if you plan to use password authentication for admins who login to the management console over SSH.	
Allow public key based authentication	Select this option if you plan to use public key type authentication for admins who login to the management console over SSH As a prerequisite, The public keys need to be added to the file /root/.ssh/authorized_keys.	

Select the required options and click 'Save' for your settings to be applied to the device.

Change SSH Access Password - Table of Parameters			
Forrn Element	Description		
You can change the password for S	You can change the password for SSH access from external network.		
Current Password	Enter the currently used password for the administrator account to login to the shell for administration.		
New Password: and Confirm Password	Enter the new password to replace the current password and re-enter the same in the 'Confirm Password' field.		
	Note : The new password should be at least eight characters long and could not be easily guessed. They should contain a mixture of upper and lower case letters, numbers and special characters.		

Enter the old and new passwords and click 'Save'.

Your settings will be applied to the device.

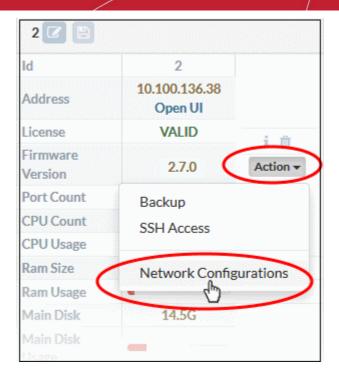
3.2.3 **Network Configuration**

- A firewall device should have network adapter ports to connect to different network zones.
- By default, port 1 on the FW device is automatically configured for LAN with IP 192.168.0.15.
- The number of ports shown in the configuration screen depends on the number of adapters on the FW device. These ports will be shown as Port 2, Port 3, Port 4 etc.
- The central manager console lets you view and manage the connection used by each device port.
 - For help to add interfaces, see **Add Interfaces**.

To view and manage the network connections

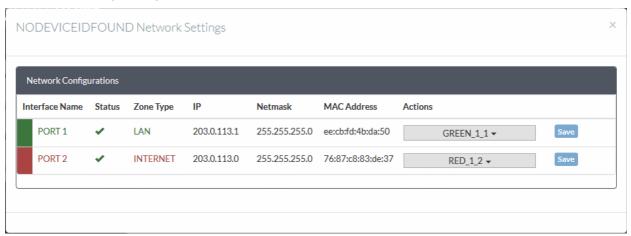
- Click 'System' on the left then select 'Dashboard'
- Click the 'Actions' button on the tile of the device





Choose 'Network Configurations' from the options

The 'Network Settings' dialog for the device will appear.



Network Configurations - Column Descriptions		
Column Header	Description	
Interface Name	Name of the Dome Firewall port. The font color indicates the type of network zone to which the port is connected.	
	Red - External networks, like WAN, for internet connection	
	Yellow - DMZ zone	
	Green - Local Area Network to which workstations are connected	
	Blue - Wi-Fi network	
Status	Link status of the network zone interface. The status can be one of the following:	
	Green Tick - Link is active	
	Red Cross - The link is not active	
	Question Mark - No information about the link from the device driver	



	Network Configurations - Column Descriptions		
Column Header	Description		
Zone Type	The network zone type of the interface. The network zone can be one of the following: Internet LAN Wi-Fi DMZ		
IP	The IP address of the network zone interface connected to the port.		
Netmask	The netmask of the network zone connected through the interface		
MAC Address	The Media Access Control (MAC) address of the interface		
Actions	Displays the name of the network zone interface currently connected to the port. You can change the interface by selecting an option from the drop-down.		
	Actions		
	GREEN_10_1 ▼		
	None D - RED_10_2 D - GREEN_10_1 O - Alt Internet O - Wireless Local Network O - High Security Zone D - Secure DMZ The drop-down will display the interfaces defined at the firewall device and the central manager.		
	 Select the interface and click 'Save' Notes: The interfaces can be added for organizations/devices to the central manager from the 'Interfaces' screen. See Add Interfaces for more details. The interfaces defined for an organization will be available for all devices of that organization (with a prefix 'O' in the interface name) The interfaces defined for an individual firewall device will be available only for that device. (with a prefix 'D' in the interface name) 		



Access Admin Console of a Firewall Device 3.3

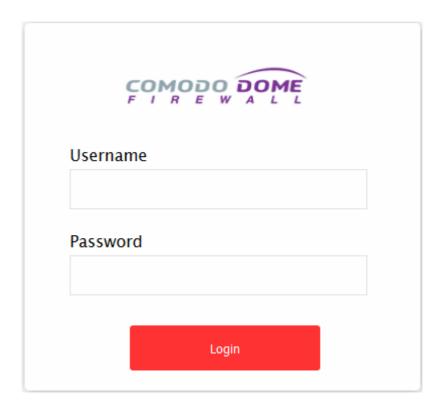
You can remotely access the admin console of a managed firewall from the central manager interface.

To open the administrative web console of a managed firewall device

- Click 'System' in the left-hand menu then select 'Dashboard'
- Click the 'Open UI' link in the 'Address' field on the tile of the device



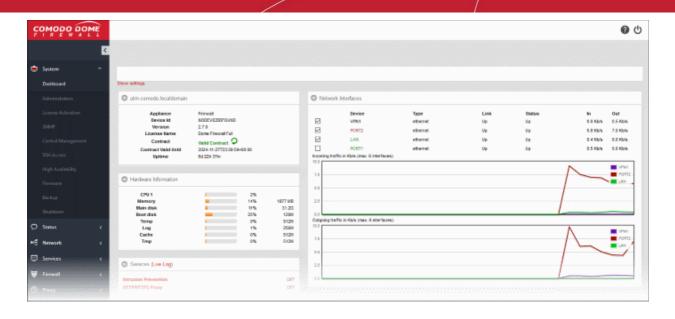
Enter the username and password for the firewall device :



The device admin console will open:

Comodo Dome Firewall Central Manager - Admin Guide



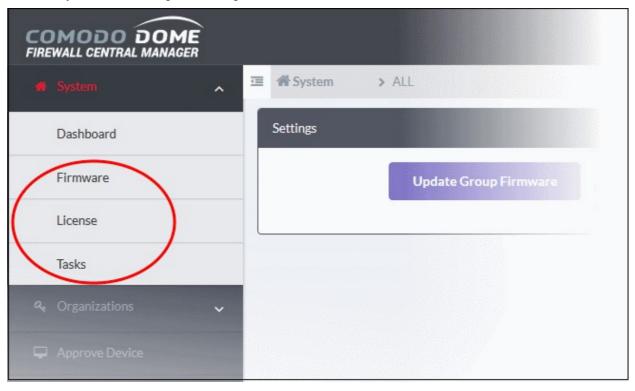


- You can configure the remote firewall as required.
- See Dome Firewall guide at https://help.comodo.com/topic-451-1-936-12755-Introduction-to-Comodo-Dome-Firewall---Virtual-Appliance.html for help to configure and manage a firewall device.



Manage System Status and General Configuration

The 'System' menu lets you update the firmware of managed firewalls, view and upgrade licenses, and view tasks executed by the central manager on managed firewalls.



See the following sections for more details:

- **Update Firmware Version**
- **View and Upgrade Central Manager License**
- **View Management Tasks**

4.1 **Update Firmware Version**

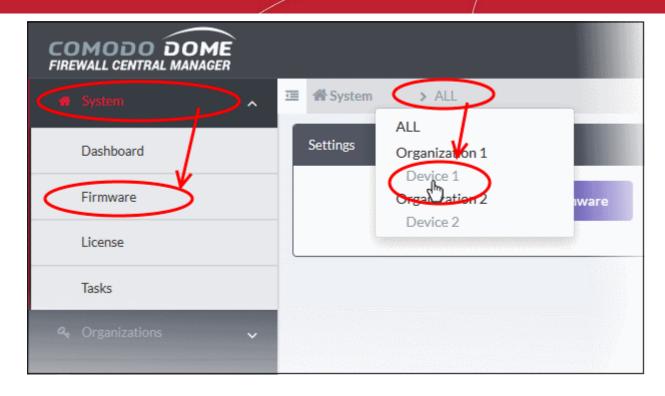
The firmware settings interface allows you to:

- View firmware version installed on each firewall device and update the firmware if required.
- Send an update command to every device, or only to devices associated with a specific organization. All devices with older firmware versions will be updated.

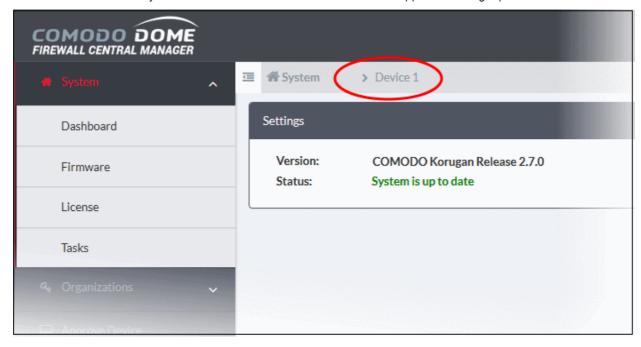
To view and update firmware on individual devices

- Click 'System' on the left then select 'Firmware'
- Select the 'Device' under the required 'Organization' from the drop-down at the title bar





The details of the currently installed firmware on the selected device will appear in the right pane.



- Version Shows the version number of the Comodo Dome Firewall Firmware installed on the selected device.
- Status Indicates whether your firmware is up-to-date. If it indicates 'System must be updated', you can initiate the update process by clicking the 'Update Firmware' button. The firmware will be automatically downloaded and installed.

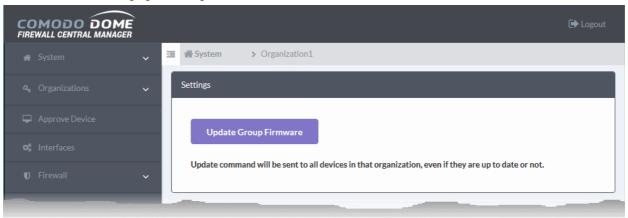
To upgrade the firmware version on a group of firewall devices

- Click 'System' on the left then select 'Firmware'
- Select the group of devices to be updated
 - Select 'ALL' from the drop-down at the title bar to update firmware on all managed devices atonce.

Comodo Dome Firewall Central Manager - Admin Guide



 Select the 'Organization' from the drop-down at the title bar to update only group of devices belonging to the organization.



- Click the 'Update Group Firmware' button
- The command can be sent to all devices in the group at once.
- On receiving the command, devices with an older version of Dome Firewall firmware will automatically download and install the latest version.

4.2 View and Upgrade Central Manager License

You can view and upgrade your license when it is nearing expiry from the 'Central Manager License Activation' interface.

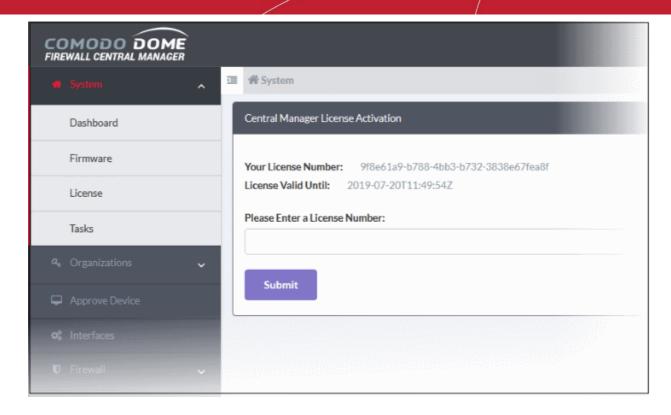
Note: New licenses can be purchased from the Comodo One / Comodo Dragon / ITarian console or Comodo Accounts Manager. For more details, see **Sign-up for Firewall Central Manager License**.

To view and manage licenses

Click 'System' on the left then select 'License'

The 'Central Manager License Activation' interface will open, with your existing license details.





The right pane shows your current Dome Firewall CM license key and its expiry date.

- To upgrade or renew you license, paste the new license key in the text box under 'Please Enter a License Number' and click 'Submit'.
- The license will be verified and if found valid, it will be activated.

View Management Tasks 4.3

The 'Tasks List' interface shows configuration and management actions executed by the central manager on managed devices.

- Central Manager first executes a test (or dry run) of each action on target devices.
- The action is only committed to a device if the test run is successful.
- You can view error messages in the information dialog of the action.

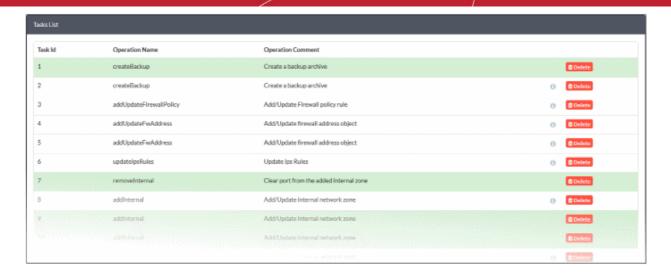
To view the list of actions

Click 'System' on the left then select 'Tasks'

The 'Tasks List' will open on the right pane.

Comodo Dome Firewall Central Manager - Admin Guide





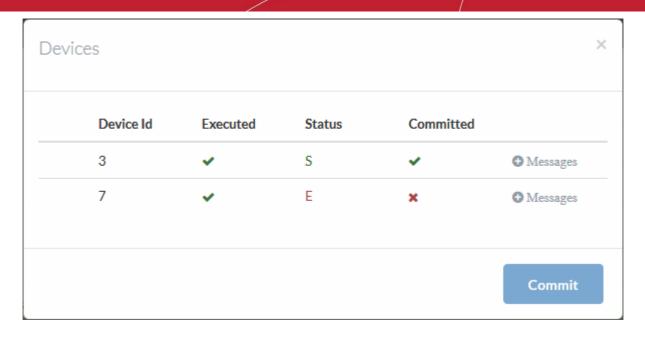
- Green background Actions that passed the test run on all target devices and successfully committed on those devices.
- White background Actions that failed the test run on some of the target devices and hence not committed
 on those devices. You can recommit these actions to be applied on those devices bypassing the test run.
 See Manually Committing Actions on Selected Devices for more details.

Tasks List - Column Descriptions		
Column	Header	Description
Task ID		The identification number assigned to the action by Central Manager
Operation Na	ime	Indicates the action executed
Operation Comment		A short description of the action
Controls	Info 🗓	Clicking the Info icon opens the list of devices on which the action was applied and executed. You can view the status of execution and recommit the action pending on some devices. See View Details of an Action for more details.
	Delete	Removes the entry from the list. See Remove Tasks from Tasks List for more details.

View Details of an Action

• Click the information icon to open the list of devices on which the action was applied and their statuses





	Devices List - Column Descriptions				
Column Header		Description			
Device Id		The identification number assigned to the firewall device by the central manager			
Executed		Indicates whether the action was executed a test run on the device			
Status		Indicates whether the action passed/failed the test run on the device • S - Successfully executed • E - An error occurred during test run. You can view the error message by clicking the Messages link at the right end of the row.			
Committed		Indicates whether the action was successfully applied and completed on the device			
Controls Messages		Click the 'Messages' link to view the error/success messages generated during the test run and the commitment of the action.			
		Device Id Executed Status Committed 3 S Messages Execution finished - Dryrun Execution finished - Commit 7 S Messages			

Manually Committing Actions on Selected Devices

The actions that were not completed on all/some devices are displayed with white background in the 'Tasks List' interface. You can reapply the action to those device(s).

- You should first read and analyze the error message generated at the end of the test run
- If the error occurred can be ignored and the action can be applied, you can recommit the action



To re-apply an action on a device

- Click the information icon in the row of an action with white background to open the list of devices
- Click the 'Messages' link in the row of device on which the action was not completed



- Analyze message to check the status/error occurred
- Click 'Commit' to re-apply the action

The action will be completed on the device without executing the test run again.

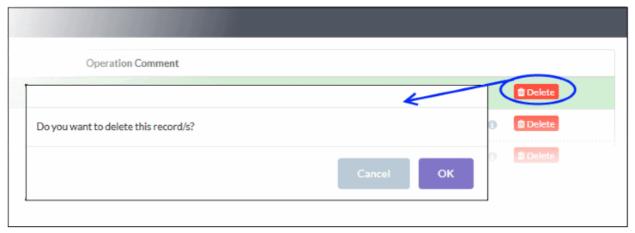
Remove Tasks from Tasks List

You can remove the unwanted and completed action entries from the tasks list.

To remove individual entries

Click the 'Delete' button at the right end of a row

A confirmation dialog will appear.



Click 'OK'

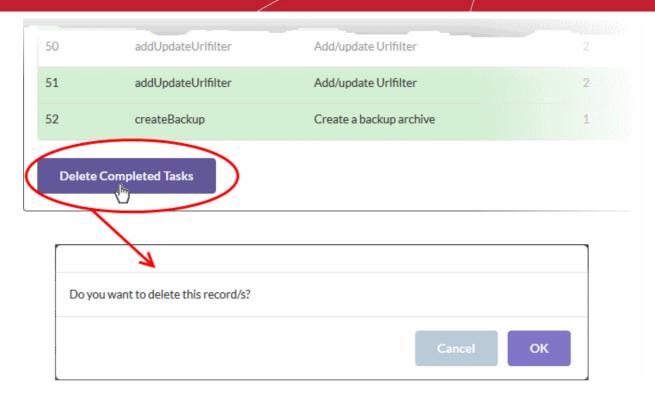
The entry will be removed from the list

Repeat the process to remove more entries

To remove all completed actions at-once

Click the 'Delete Completed Tasks' button at the bottom of the 'Tasks List'





Click 'OK' in the confirmation dialog

All completed actions will be removed from the list.

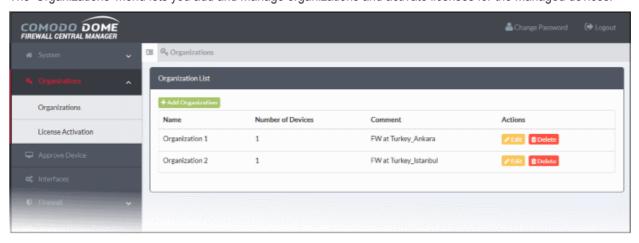
Customer Management

An organization is a customer entity, usually a company or business for whom you manage firewall devices.

You can add organizations to the central manager and enroll firewall devices for them.

- Firewall devices can be enrolled by specifying the central manager server address in the firewall's management console. See Enroll Dome Firewall Devices for more details.
- Once enrolled, a firewall device has to be approved and assigned to an organization from the central manager console. See Approve Firewall Device Enrollment for more details.
- Devices assigned to an organization can be managed as a device group. You can configure firewall policies, Advanced Threat Protection (ATP), URL filters and more for each device/device group.

The 'Organizations' menu lets you add and manage organizations and activate licenses for the managed devices.





See the following sections for more details:

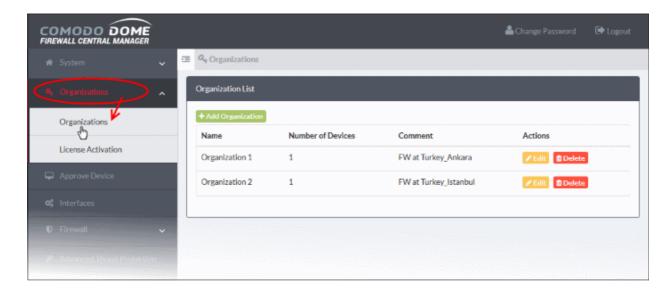
- **Manage Organizations**
- **Activate Firewall Licenses**

Manage Organizations 5.1

- Click 'Organizations' on the left then select 'Organizations'
- This area lets you add and update customer organizations for whom you manage firewall devices.
- After adding an organization, you can assign devices to it in the 'Approve Device' interface.

Note:

- Comodo One / Comodo Dragon / ITarian organizations are NOT imported into Comodo firewall central manager.
- You must add organizations separately to the firewall central manager. You may, of course, use the same organization names to make identification easier.



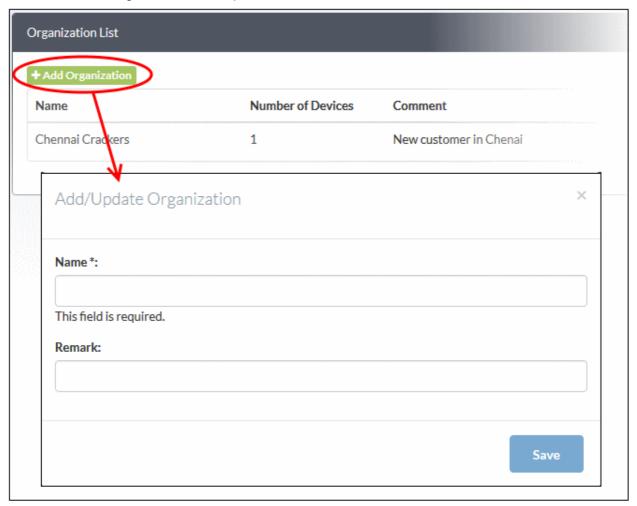
Organization List - Column Descriptions		
Colun	nn Header	Description
Name		The name of the organization / company
Number of	Devices	The number of devices enrolled and assigned to the organization.
Comment		A brief description of the organization entered as remark when creating/editing the organization.
Actions	Edit	Modify organization details.
	Delete	Remove an organization from central manager

Add Organizations

Click 'Organizations' > 'Organizations' on the left



Click 'Add Organization' on the top left of the interface



Complete the following items:

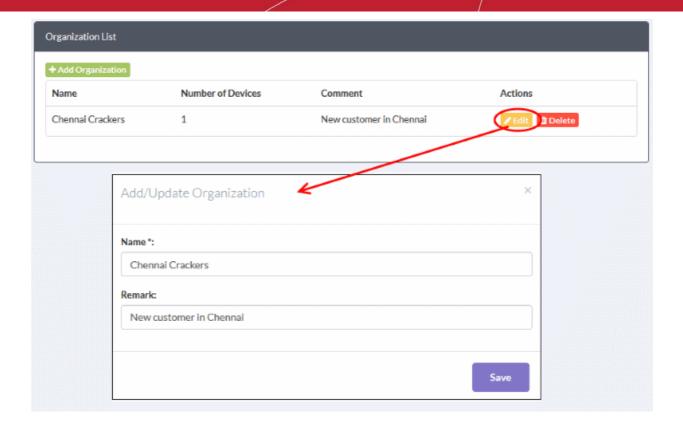
- Name Name of the customer organization you want to enroll
- Remark Short description of, or comments about, the organization
- Click 'Save' to add the organization.

You can now assign devices to the organization.

Edit an Organization

Click the 'Edit' button in the row of an organization to edit its name and description





Update as required and click 'Save'.

Remove an Organization

Click the 'Delete' button in the row of an organization

The organization will be removed from the list. Please note that any devices under the organization will also be removed.

Activate Firewall Licenses 5.2

Dome Firewall Central Manager lets you activate licenses for firewall devices belonging to different organizations.

- You need to purchase and activate a Dome Firewall (DFW) license for each device you wish to manage.
- Licenses can be purchased from Comodo Accounts Manager (CAM) at https://accounts.comodo.com or from your Comodo One / Comodo Dragon / ITarian account.

Comodo Account Manager

- Sign in to your Comodo Accounts Manager (CAM) account at https://accounts.comdoo.com. Please create an account if you do not yet have one.
- Click 'Sign up to Comodo Dome', choose a DFW license type and complete the purchase process.
- An order confirmation mail with DFW license details will be sent to your registered email address.

Comodo One / Comodo Dragon / ITarian Console

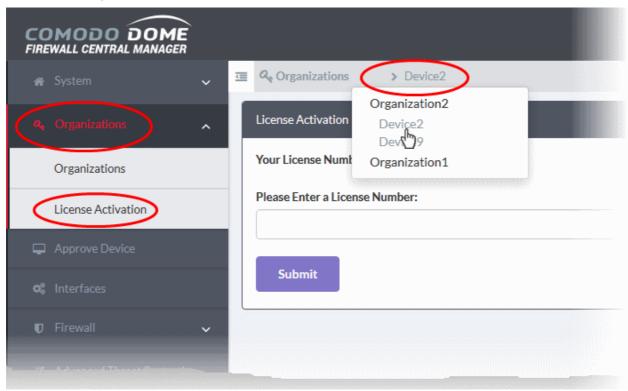
- Login to your Comodo One / Comodo Dragon / ITarian account
- Click 'Store' then go to the firewall central manager tile.
- Click the 'Free' button to begin setup.
- After adding to your portal account, you can open it by clicking 'Applications' > 'Dome Firewall Central



Manager'. See Integrate Central Manager with Comodo One / Comodo Dragon / ITarian for more details.

To activate firewall licenses

Click 'Organizations' on the left then choose 'License Activation'



Select the device from the drop-down on the title bar

If the device already has an active license, the license key will be displayed.

Enter the new license key in the text box under 'Please Enter a License Number' and click 'Submit' After the license key has been verified, your DFW license will be activated.

Approve Firewall Device Enrollment 6

- Firewall devices must be approved by an admin before they can be imported
 - See Enroll Dome Firewall Devices if you need help to add a firewall.
- The 'Approve Device' interface lets you approve devices and assign them to organizations.

Note: You must have added an organization before you can assign devices to it. See Manage Organizations for help with this.

Click 'Approve Device' on the left

Comodo Dome Firewall Central Manager - Admin Guide





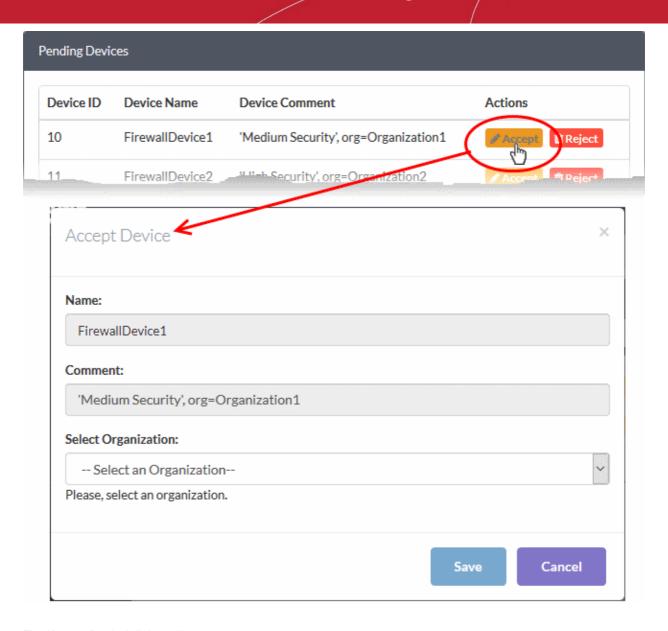
The interface lists all devices which are pending approval.

Pending Devices - Column Descriptions		
Colur	nn Header	Description
Device ID		The identification number assigned to the firewall device by Dome Firewall Central Manager
Device Name		The device label
Device Comment		A brief description of the device and details of its organization. This can be written when enrolling or editing the device.
Actions	Accept	Authorize the device enrollment. See To approve a device enrollment for more details.
	Reject	Decline the device enrollment.

To approve a device enrollment

· Click the 'Accept' button in the row of the device to be approved





The 'Accept Device' dialog will appear.

- Name The device label. The name is pre-populated and cannot be edited from this dialog. You can, however, change the name of a device from the dashboard after it has been enrolled. See The Dashboard for more details.
- Comment Brief description and organization details entered when enrolling the device. This field is pre-populated and cannot be edited.
- Select Organization Choose the customer to which the device should be assigned. See Manage Organizations if you need help to add an organization to CM.
- Click 'Save' to approve the device and assign it to an organization.

The device will be imported to the central manager and become available for management.

Repeat the process to approve and add more devices.



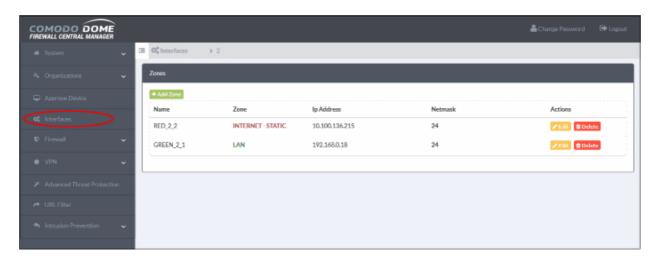
Add Interfaces

The 'Interfaces' area lets you add and edit interfaces which connect to different network zones. You can also add failover uplinks for groups of devices or individual devices.

- The 'Interfaces' screen is the only place you can add network zone interfaces to organizations and individual devices.
- Network and interface configurations are also imported when you add a firewall to central manager.
 - Click 'Dashboard' > select the device > Click 'Actions' > 'Network Configuration' in the device tile to view its network settings
- Central manager interfaces can be assigned to the ports of a device from the dashboard.
 - Click 'Actions' > 'Network Configurations' in the device tile
 - Select the interface from the 'Actions' drop-down in the row of the port
 - See Network Configuration if you need more details
- Interfaces added to an organization will be available for all devices assigned to that organization. (These device names will have a prefix 'O' in the 'Actions' drop-down).
- Interfaces added to an individual device will be available only for that specific device. (These device names will have a prefix 'D' in the 'Actions' drop-down)

To add and manage network zone interfaces

- Click 'Interfaces' on the left
- Select the organization/device from the drop-down in the title bar
 - Select an organization to manage the interfaces for all of devices belonging to the organization
 - Select an individual device under an organization to manage the interfaces for a specific device



The screen shows a list of network zone interfaces configured for the selected organization or device.

Zones - Column Descriptions		
Column Header	Description	
Name	The label of the network zone interface.	
Zone	The type of network zone interface. The network zone can be one of the following: • Internet • LAN	



		Wi-FiDMZ
Ip Address		The address of the interface.
Netmask The		The netmask of the network zone connected through the interface.
Actions	Edit	Edit the connection settings of the interface.
	Delete	Disconnects the interface and clears the port.

The following sections explain how to configure network zone interfaces:

- Add untrusted external network zones like WAN for connecting to the internet
- Add trusted internal network zones like LAN, DMZ and Wi-Fi interfaces

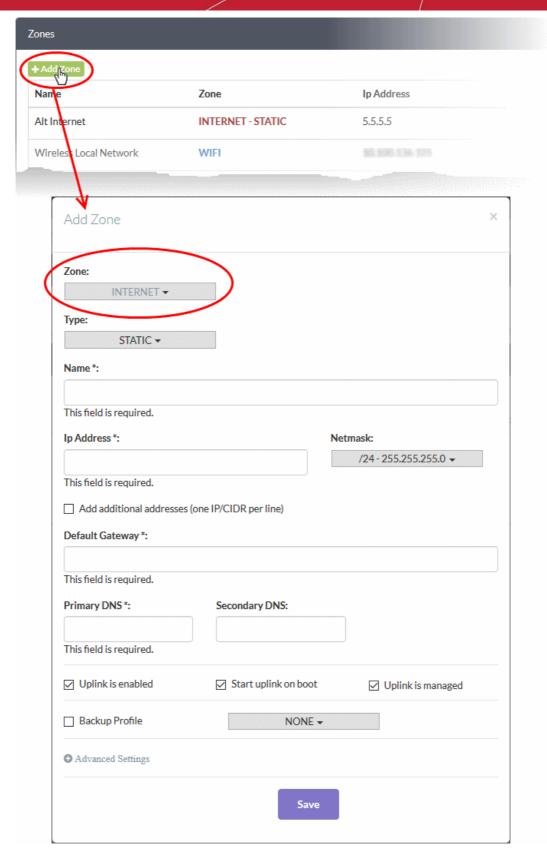
Add untrusted external network zones like WAN for connecting to the internet

Click 'Add Zone' at the top-left of the 'Zones' screen

The 'Add Zone' dialog will appear.

Select 'Internet' from the 'Zone' drop-down





- Type Choose the interface type through which the FW device will connect to the internet. The available options are:
 - STATIC The external network interface is in a LAN and has a fixed IP address and netmask. An example is a router in which the DFW device is assigned a fixed IP address.
 - DHCP The external network interface receives its network configuration through dynamic host control protocol (DHCP) from a local server, router, or modem.

Comodo Dome Firewall Central Manager - Admin Guide



• PPPoE - The external interface is connected to an ADSL modem through an ethernet cable. Select this option only if the modem uses the Point-to-Point Protocol over Ethernet (PPPoE) to connect to the service provider.

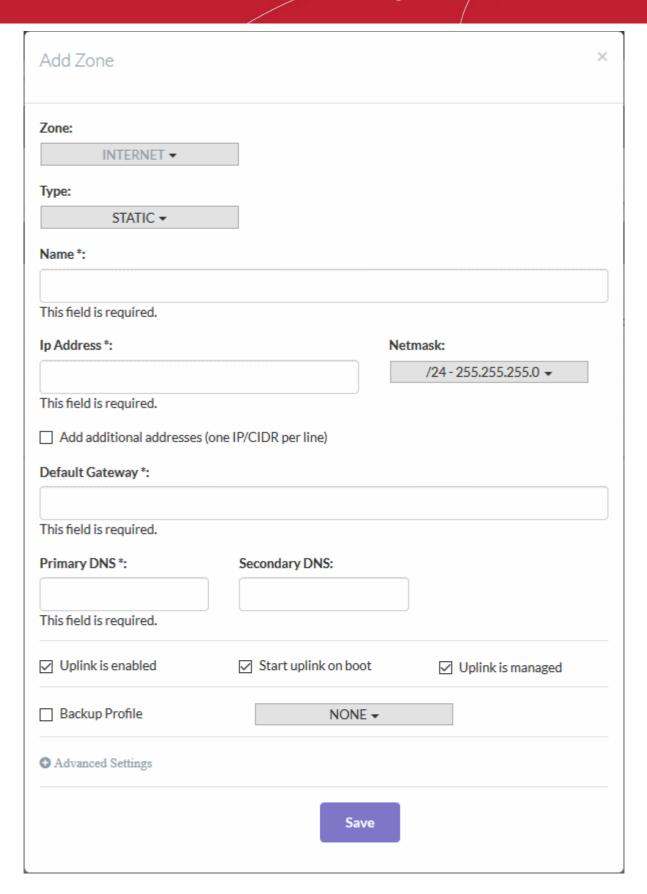
The following sections explain configuration of each interface type:

- STATIC
- PPPoE
- DHCP

STATIC

- Select 'STATIC' from the 'Type' drop-down
- · Configure the following for the external network zone





Device Settings

- Name Enter a label to identify the interface
- IP Address The address that will be assigned to the interface
- Netmask Choose the network mask containing the possible masks from the drop-down (e.g. /24 -255.255.255.0)

Comodo Dome Firewall Central Manager - Admin Guide



- Add additional addresses Enable this box if you wish to add additional IP address(es)/netmask(s) to the interface.
- Default gateway Enter the IP address of the gateway through which the firewall connects to the internet
- DNS Settings Enter the IP addresses/hostnames of the primary and secondary DNS servers you
 wish to use.

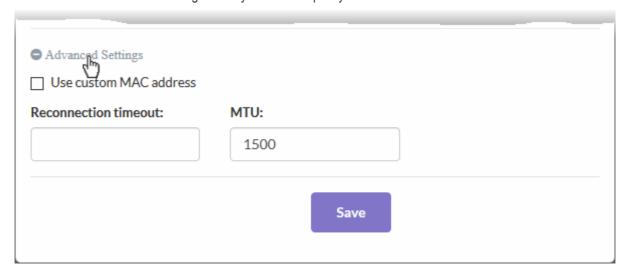
Uplink Settings

- Uplink is Enabled The uplink will be activated after you click 'Save'. Deselect this if you don't want
 to enable the uplink device at this time. You can enable the uplink later by editing the interface
 from the dashboard of the firewall device console.
- Start uplink on boot The uplink will start automatically on every restart of the DFW device. Deselect this checkbox if you want to manually start the uplink when required.
- Uplink is managed The uplink will be managed by Dome Firewall and its details displayed in the
 firewall dashboard. Deselect this option if you do not want the uplink details to be shown in the
 dashboard. You can change the uplink to managed at any time by enabling the 'Managed'
 checkbox beside the uplink in the dashboard.
- Backup Profile Select if you want to specify an alternate uplink connection which will become active in the event this one fails. Choose the alternative uplink from the drop-down.

Advanced Settings:

The 'Advanced Settings' pane lets you specify the MAC address and the Maximum Transmission Unit (MTU) of data packets for the interface. These settings are optional.

• Click the 'Advanced Settings' link if you need to specify custom values for these fields



- Use custom MAC address The firewall will automatically detect the MAC address of the network
 adapter port and will populate it in the MAC address column. Enable 'Use custom MAC address' if
 you need to override and replace the default MAC address of the external interface. Enter the
 MAC address in the text box that appears below the checkbox.
- Reconnection timeout Specify the maximum period in seconds that the uplink should attempt to reconnect in the event of a connection failure. The connection timeout period depends on the ISP configuration. If you are unsure, leave this field blank.
- MTU Enter the Maximum Transmission Unit (MTU) of the data packets that can be sent over the network.
- · Click 'Save'.

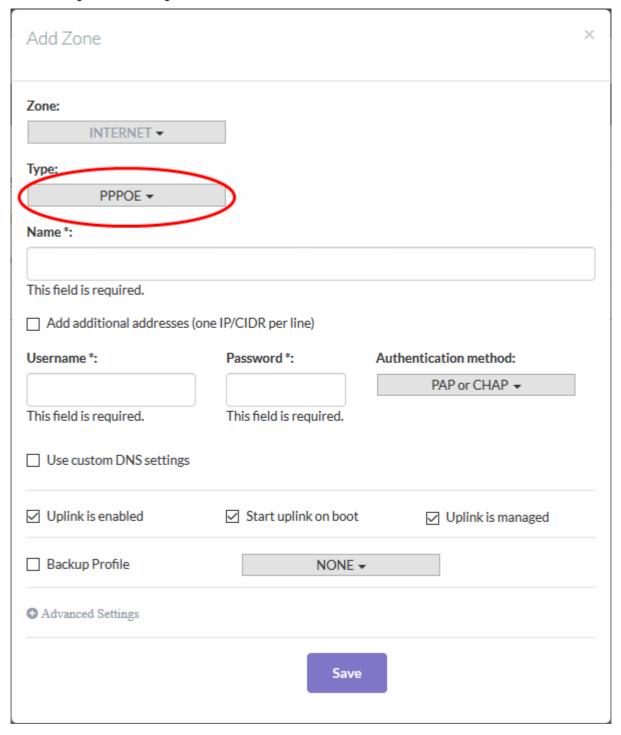
The interface will be added to the list.

Tip: You can edit a network zone interface at any time by click the 'Edit' button in the row of the interface.



PPPoE

- Select 'PPPoE' from the 'Type' drop-down
- Configure the following for the external network zone with PPPoE interface



Device Settings

- Name Enter a label to identify the interface.
- Add additional addresses Enable to add additional IP address(es)/netmask(s) to the interface. Enter the additional address(es)/netmask(s) one per line in the text box that appears.
- Username Enter the login username for the internet connection as provided by the Internet Service Provider (ISP)
- Password Enter the login password as provided by the ISP
- Authentication Method Choose the method of authentication used by your ISP for your device to



connect to internet. The options available are: Password Authentication Protocol (PAP); Challenge Handshake Authentication Protocol (CHAP); or both. If you are not sure, choose 'PAP or CHAP' (Default).

Use Custom DNS Settings - Specify your preferred DNS servers. Enable this checkbox and enter the IP address/hostname of your primary and secondary DNS servers. DNS servers will be automatically assigned if you do not enable this option.

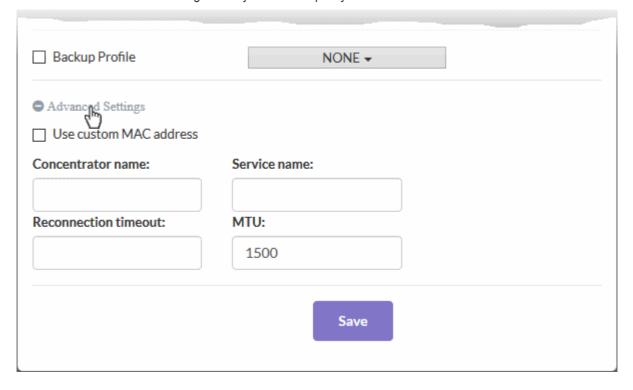
Uplink Settings

- Uplink is Enabled The uplink will be activated immediately after it is created. Deselect this if you don't want to enable the uplink device at this time. You can enable the uplink later by editing the interface or from the dashboard of the firewall device console.
- Start uplink on boot The uplink will start automatically after every restart of the firewall device. Deselect this checkbox if you want to manually start the uplink only when required.
- Uplink is managed The uplink will be managed by Dome Firewall and its details displayed in the firewall console dashboard. Deselect this option if you do not want uplink details to be shown in the dashboard. You can switch the uplink to managed state at any time by selecting the 'Managed' checkbox beside the uplink in the dashboard.
- Backup Profile Select if you want to specify an alternate uplink connection to be activated in the event this uplink fails. Choose the alternative device from the drop-down.
- Additional Link check hosts In the event of a connection failure, the uplink will attempt to reconnect after a time period set by your ISP. If you want the virtual appliance to check whether the uplink has connected successfully, you can try to ping known hosts in an external network. Enabling this option will reveal a text field where you should enter a list of one or more perpetually reachable IP addresses or hostnames. One of the hosts could be your ISP's DNS server or gateway.

Advanced Settings:

The 'Advanced Settings' pane lets you specify the MAC address and the Maximum Transmission Unit (MTU) of the data packets for the interface. These settings are optional.

Click the 'Advanced Settings' link if you need to specify custom values for these fields.



Use custom MAC address - The firewall will automatically detect the MAC address of the network adapter port and will populate it in the MAC address column. Enable 'Use custom MAC address' if you need to override and replace the default MAC address of the external interface. Enter the



MAC address in the text box that appears below the checkbox.

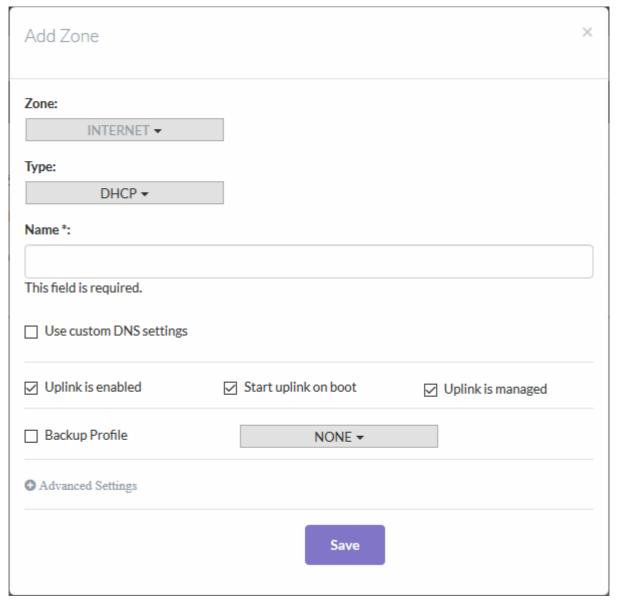
- Concentrator name Enter the identifier of the remote access concentrator setup by your service provider (Optional, usually not needed).
- Service Name Enter the name of your ISP (Optional, usually not needed).
- Reconnection timeout Specify the maximum period in seconds that the uplink should attempt to reconnect in the event of a connection failure. The connection timeout depends on the ISP configuration. If you are unsure, leave this field blank.
- MTU Enter the Maximum Transmission Unit (MTU) of the data packets that can be sent over the
- Click 'Save'.

The interface will be added to the list.

Tip: You can edit the network zone interface e.g. for changing selected parameters like network range of a zone, at any time depending on changes in the network. Click the 'Edit' button in the row of the device, make the changes and save the changes.

DHCP

Select 'DHCP' from the 'Type' drop-down



Comodo Dome Firewall Central Manager - Admin Guide



Configure the following for the external network zone with Ethernet DHCP interface

Device Settings

- Name Enter a label to identify the interface.
- Use Custom DNS Settings Specify your preferred DNS servers. Enable this checkbox and enter
 the IP address/hostname of your primary and secondary DNS servers. DNS servers will be
 automatically assigned if you do not enable this option.

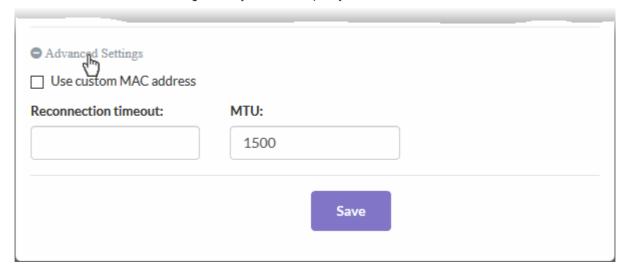
Uplink Settings

- Uplink is Enabled The uplink will be activated immediately after it is created. Deselect this if you
 don't want to enable the uplink device at this time. You can enable the uplink later by editing the
 interface or from the dashboard of the firewall device console.
- Start uplink on boot The uplink will start automatically after every restart of the firewall device. Deselect this checkbox if you want to manually start the uplink only when required.
- Uplink is managed The uplink will be managed by Dome Firewall and its details displayed in the
 firewall console dashboard. Deselect this option if you do not want uplink details to be shown in
 the dashboard. You can switch the uplink to managed state at any time by selecting the 'Managed'
 checkbox beside the uplink in the dashboard.
- Backup Profile Select if you want to specify an alternate uplink connection to be activated in the event this uplink fails. Choose the alternative device from the drop-down.
- Additional Link check hosts In the event of a connection failure, the uplink will attempt to
 reconnect after a time period set by your ISP. If you want the virtual appliance to check whether
 the uplink has connected successfully, you can try to ping known hosts in an external network.
 Enabling this option will reveal a text field where you should enter a list of one or more perpetually
 reachable IP addresses or hostnames. One of the hosts could be your ISP's DNS server or
 gateway.

Advanced Settings:

The 'Advanced Settings' pane lets you specify the MAC address and the Maximum Transmission Unit (MTU) of data packets for the interface. These settings are optional.

Click the 'Advanced Settings' link if you need to specify custom values for these fields



- Use custom MAC address The firewall will automatically detect the MAC address of the network
 adapter port and will populate it in the MAC address column. Enable 'Use custom MAC address' if
 you need to override and replace the default MAC address of the external interface. Enter the
 MAC address in the text box that appears below the checkbox.
- Reconnection timeout Specify the maximum period in seconds that the uplink should attempt to reconnect in the event of a connection failure. The connection timeout period depends on the ISP configuration. If you are unsure, leave this field blank.
- MTU Enter the Maximum Transmission Unit (MTU) of the data packets that can be sent over the



network.

Click 'Save'.

The interface will be added to the list.

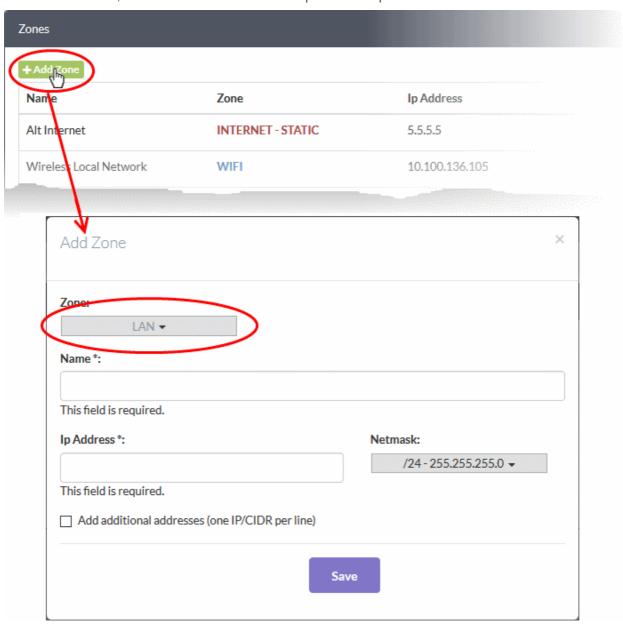
Tip: You can edit a network zone interface at any time by click the 'Edit' button in the row of the interface.

Add trusted internal network zones like LAN, DMZ and Wi-Fi interfaces

Click 'Add Zone' at the top-left of the 'Zones' screen.

The 'Add Zone' dialog will appear.

Select 'LAN', 'WIFI' or 'DMZ' from the 'Zone' drop-down as required.



- Configure the following for the internal network zone:
 - Name Enter a label to identify the interface.
 - IP Address Enter the IP address of the interface as pre-configured in the network
 - Netmask Choose the network mask containing the possible masks from the drop-down (e.g. /24 -255.255.255.0)



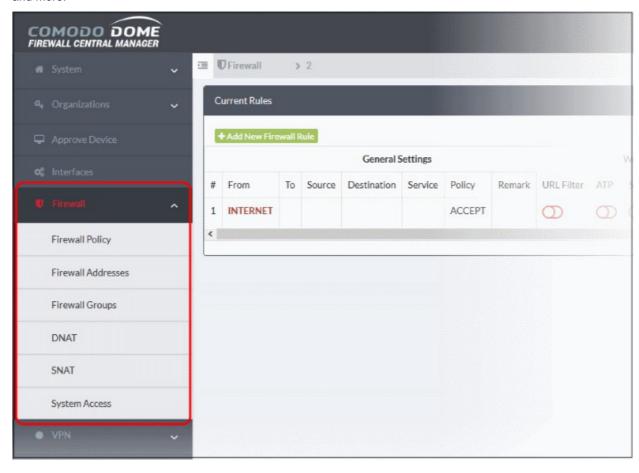
- Add additional addresses Enable to add additional IP address(es)/netmask(s) to the interface.
 Enter the additional address(es)/netmask(s) one per line in the text box that appears.
- · Click 'Save'.

The interface will be added to the list.

Tip: You can edit a network zone interface at any time by click the 'Edit' button in the row of the interface.

8 Firewall Management

The 'Firewall' menu lets you configure firewall policies for organizations and individual devices. You can also create rules for source network address translation (SNAT), destination network address translation (DNAT), system access and more.



The menu contains the following options:

- Firewall Policy Add and manage firewall rules for polices applied to a device or organization. See
 Configure Firewall Policy Rules for more details.
- Firewall Addresses Create firewall address objects covering specific IP addresses, IP ranges or network
 masks. Once created, these objects can be called as the source and destination addresses when creating
 firewall rules, DNAT rules, SNAT rules and system access rules. See Manage Firewall Address Objects
 for more details.
- **Firewall Groups** Create groups of firewall address objects to further streamline policy and rule creation. See **Manage Firewall Object Groups** for more details.
- DNAT Create rules for Destination Network Address Translation (DNAT) on incoming traffic. DNAT rules



can be used to limit access from untrusted external networks to the hosts in the network infrastructure. See **Configure Destination Network Address Translation Rules** for more details.

- SNAT Create Source Network Address Translation (SNAT) rules for outbound traffic. SNAT rules can be
 used to configure the source IP address in the outgoing packets from a host/server in a network. See
 Configure Source Network Address Translation Rules for more details.
- System Access Create rules to regulate access to the firewall device by hosts in internal and external networks. See Configure System Access Rules for more details.

8.1 Configure Firewall Policy Rules

Each Comodo Dome Firewall has a policy which manages traffic flowing in and out of the network. The policy is constructed from a series of firewall rules that are created and imposed for different types of data traffic.

- Incoming traffic Traffic from external network zones to specified hosts in the internal network zone
- Outgoing traffic Traffic from hosts to the external network zone
- Inter-zone traffic Traffic between network zones connected to the firewall device
- VPN traffic Traffic from users connected to internal zones via virtual private network (VPN).

The 'Firewall Policy' interface lets you create and manage rules for policies which are applied to organizations and individual firewall devices. An organization policy will apply to all firewall devices belonging to that organization.

Note - Existing FW policies will not be imported with the device. We recommend you remove these from the
device before importing then configure them again from central manager.

To configure firewall policy

- Click 'Firewall' on the left and choose 'Firewall Policy'
- Select the organization/device from the drop-down in the title bar
 - Select an organization to manage policy/rules for all devices in that organization
 - Select an individual device under an organization to manage policy/rules for a single device.



The 'Current Rules' pane shows all rules which constitute the policy. You can edit these rules and create/remove rules.

Policy Firewall Rules Table - Column Descriptions		
Category	Column	Description
General Settings	#	Serial number of the rule.
	From	The interface or network zone from which the traffic originates.
	То	The interface or network zone to which the traffic is directed.
	Source	The firewall object or object group which contains the addresses of the host(s) from which traffic originates.



	Destination	The firewall object or object group which contains the addresses of the host(s) to which traffic is sent.
	Service	Protocol and port that will be used by traffic affected by this rule.
	Policy	Indicates the action taken on the data packets intercepted by the rule
	Remark	A short description of the rule
Web Protection	URL Filter	Whether or not the 'Web Filter' security profile is enabled for the rule. If enabled you will see the name of the profile.
	Advanced Threat Protection	Whether or not the 'Advanced Threat Protection' component is enabled for the rule.
	SSL Intercept	Whether or not the 'HTTPS Intercept Web Filter security profile' is enabled for the rule. If enabled you will see the name of the profile.
Intrusion Prevention	IPS	Whether or not the 'Intrusion Protection System (IPS)' security profile is enabled for the rule.
	ApplD	Whether or not the the 'Application Filter' rule is enabled for the policy.
	Rule ID	Identity number of the rule. This is determined by the order in which the rules were created for the device/organization. Traffic is allowed or denied based on the first matching rule in ascending order of ID numbers. This is regardless of the order of the rules as shown in the table.
	Actions	Controls for managing the rule. - Enable or disable the rule - Edit - Modify the rule. The 'Edit' interface is similar to the 'Policy Firewall Rule Editor' interface used to create new rules. See Add Firewall Rules for more details. - Removes the rule.

Add Firewall Rules

Firewall rules contain three components:

- General Settings Specify source and destination addresses and the service/protocol of packets to be intercepted by the rule. You can specify the firewall address objects and object groups as source and destination addresses. See Manage Firewall Address Objects for more details on adding firewall address objects.
- Web Protection Enable or disable URL filtering, Advanced Threat Protection (ATP) and SSL Interception. You can also choose pre-configured profiles for them. See Manage Advanced Threat Protection Profiles and Manage URL and Content Filtering Profiles for help to create these profiles.
- Content Flow Check Enable or disable Intrusion Prevention and Application Detection settings for the rule.

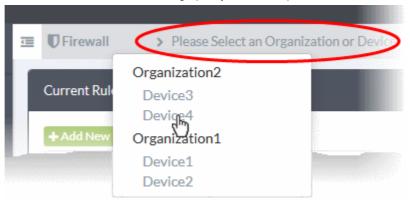
You can create different rules for different configurations for each of these components. The rules will be applied to the inbound and outbound packets in order.

To add a rule to an existing organization a device policy

- Click 'Firewall' on the left and choose 'Firewall Policy'
- Select the organization/device from the drop-down in the title bar

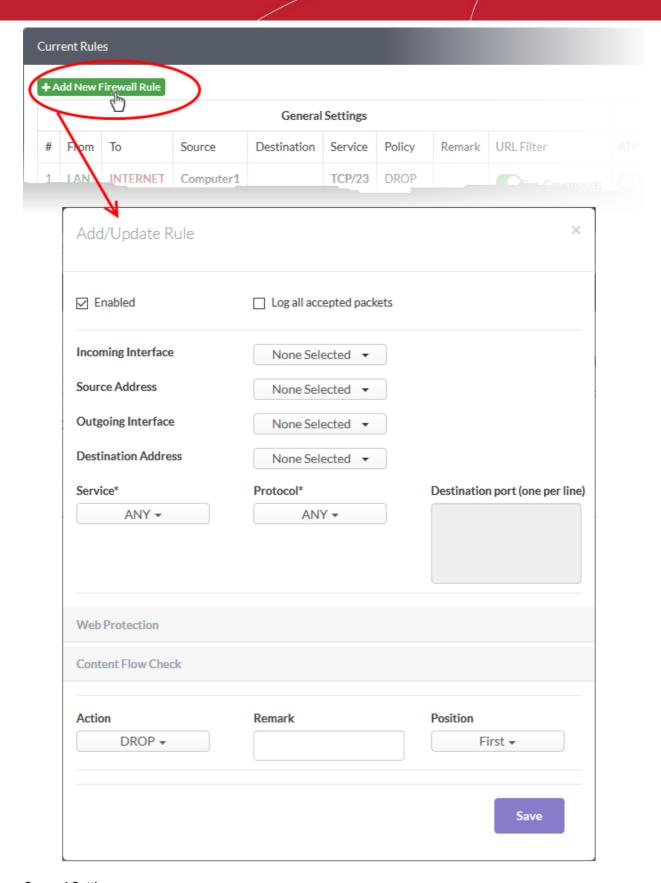


- · Select an organization if you wish to manage policy rules for all devices in the organization
- Select an individual device to manage policy rules for a particular device



· Click 'Add New Firewall Rule' at the top-left of the 'Current Rules' interface





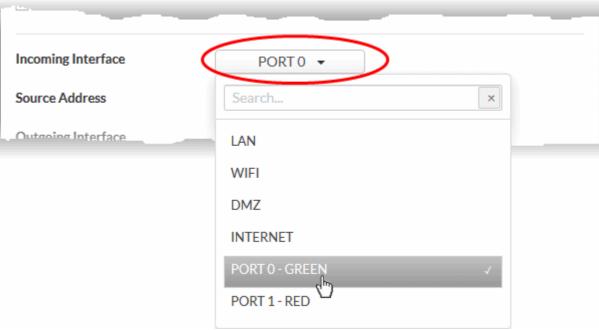
General Settings:

- Enabled Enable or disable the firewall rule. You can also enable/disable the rule from the 'Current Rules'
- Log all accepted packets Enable to create a record of all packets allowed by the rule. You can view the logs from the respective firewall administrative console. See https://help.comodo.com/topic-451-1-936-



12765-View-Logs.html for more details.

• **Incoming Interface** - Choose the interface through which traffic is received from the drop-down. The drop-down shows the common and custom interfaces created for the selected organization or device.

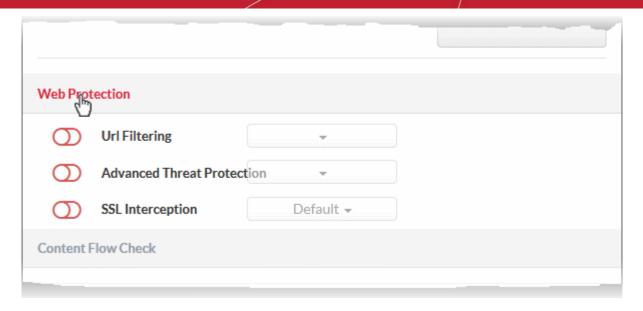


- You can select more than one interface for the rule
- Use the 'Search' box to search for a specific interface
- Source Address Choose the firewall address object or group from which traffic originates. Please note
 that only the firewall address objects and object groups created for the selected organization/device will be
 available in the drop-down. See Manage Firewall Address Objects for guidance on creating firewall
 address objects.
- Outgoing Interface Choose the interface through which the traffic is sent. The drop-down shows the common interfaces and the custom interfaces created for the selected organization or the device.
- **Destination Address** Choose the firewall address object or group to which traffic is sent. Please note that only the firewall address objects and object groups created for the selected organization/device will be available in the drop-down.
- Service Choose the type of service hosted by the source from the drop-down
- Protocol Choose the protocol used by the service
- **Destination port** Specify the destination port number(s) used by the service, one by one.

Web Protection Settings

• Click 'Web Protection' to open the security features for web protection:

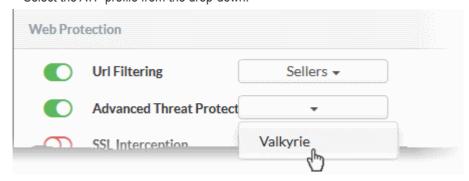




- URL Filtering Enable or disable URL filtering profiles on traffic intercepted by the rule.
 - · Move the switch to ON position to enable URL filtering
 - Select the profile which specifies the sites you wish to block or allow from the drop-down:



- URL filtering profiles can be added for organizations/devices from the 'URL Filter' interface.
 See Manage URL and Content Filtering Profiles for more details.
- Profiles defined for an organization can only be applied to devices which belong to the
 organization. If you apply it to the organization itself, the profile will pertain to every device in
 the organization.
- Profiles defined for an individual device will be available only for that device.
- Advanced Threat Protection Enable or disable advanced threat protection (ATP) settings on traffic intercepted by the rule. You can choose the ATP profile you want to apply from the drop-down menu.
 - Move the switch to ON to enable ATP.
 - Select the ATP profile from the drop-down.

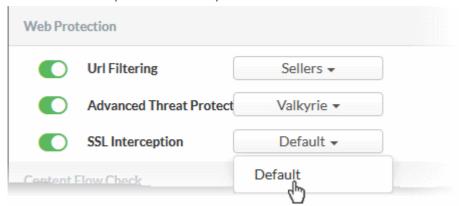


The ATP default profile can be managed for the organization/device from the 'Advanced



Threat Protection' > 'Profiles' interface. See **Manage Advanced Threat Protection Profile** for guidance on this.

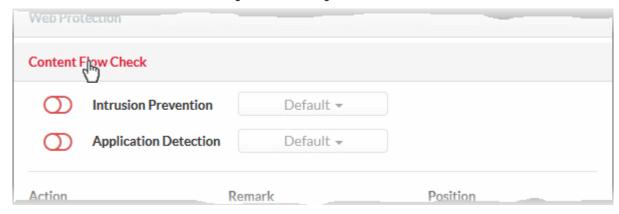
- SSL Interception Enable or disable analysis of encrypted traffic which is intercepted by the rule.
 - Move the switch to ON to enable SSL interception.
 - Select the default profile from the drop-down.



Selecting 'Default' will apply the HTTPS exceptions settings as configured in the firewall device. See the online help page https://help.comodo.com/topic-436-1-912-12058-HTTPS-Proxy.html for more details.

Content Flow Check Settings:

Click 'Content Flow Check' to configure these settings:



- Intrusion Prevention Enable/disable Snort intrusion detection technology on traffic intercepted by the rule. See 'Intrusion Prevention' for more details.
 - Move the switch to ON to enable intrusion prevention.
 - Select the default profile from the drop-down.



Selecting 'Default' will apply the rule settings configured in the 'Intrusion Prevention' interface. See 'Intrusion Prevention' for more details.

Application Detection - Enable or disable application identification rules on traffic intercepted by the rule.
 Application ID rules allow you to track the activities of applications on your network, allowing you to attribute IPS events to applications.



- Move the switch to ON to enable application detection.
- Select the default profile from the drop-down.



Selecting 'Default' will apply the settings configured for the organization/device in the 'Intrusion Prevention > 'Application Identification' interface. See 'Manage Application Identification Rulesets' for more details.

Actions

- Action Specify whether packets matching the rule should be allowed or denied. The available options are:
 - Accept The data packets will be allowed without filtering
 - Drop The packets will be denied.
 - Reject The packets will be rejected, and error packets will be sent in response
- Remark Enter a short description of the rule. The description will appear in the 'Remark' column of the 'Rules' table.
- Position Set the priority of the rule in the list of rules. The rules will be applied on the inbound and outbound traffic in the order they appear on the list.
- Click 'Save' to add the rule to central manager.

The rule will be applied to all target devices. You can view the view the application status and re-apply the rule if required from the 'Dashboard' > 'Tasks' interface. See View Management Tasks for more details.

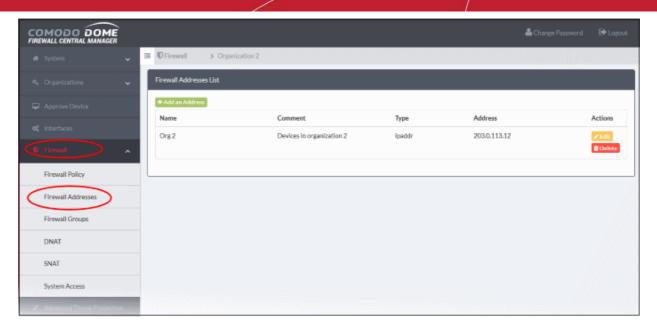
8.2 Manage Firewall Address Objects

- An address object is reference to a set of IP addresses in a specific organization / device. These objects ca be used in firewall rules.
- An object is specific to an organization or firewall device.
 - Address objects added to an organization will be available for that organization's 'Source' and 'Destination' IP address drop down, which includes all devices assigned to that organization.
 - Address objects added for an individual device will be available only for that specific device's 'Source' and 'Destination' IP address drop down.
- You can also create firewall object groups to create rules for larger networks.
- You can create a wide range of rules for each firewall device.
- Note Existing FW address objects will not be imported with the device. We recommend you remove these from the device before importing then configure them again from central manager.

To create and manage firewall address objects

- Click 'Firewall' > 'Firewall Addresses' on the left hand menu
- Select the organization to which the firewall device belongs, or the name of firewall device
 - Select an organization object to manage addresses for all devices in the organization
 - Select an individual object under an organization to manage addresses for a single device





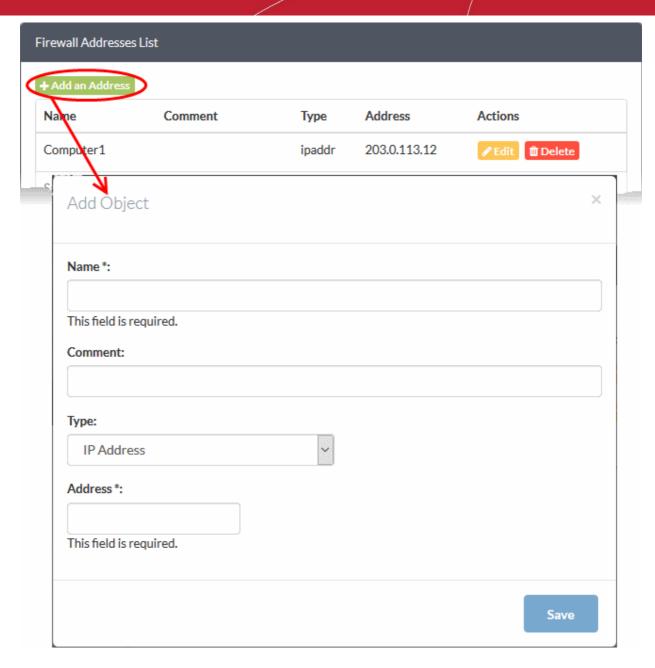
The 'Firewall Addresses' interface lists all firewall address objects added to Comodo Dome Firewall Central Manager. The objects can be added to specific devices or all devices that belong to a particular organization. The interface lets admins view, create and manage address objects.

Firewall Address List Table - Column Descriptions		
Column	Description	
Name	Label of the firewall address object. The object name will become available for selection in the 'source' and 'destination' address fields when creating a 'Firewall Policy'.	
Comment	A short description of the object	
Туре	Category of address. Can be IP address, IP address range, Subnet	
Address	IP addresse(s) the host computer(s) contained in the object.	
Actions	Displays controls for managing the object.	
	- Opens the 'Edit' interface so you can modify the parameters of the object. The edit interface is similar to the 'Add Object' interface	
	Delete - Removes the object.	
	Note : Objects which are currently referenced in a firewall rule or in a group cannot be removed. To delete an object, you must first remove it from all rules or groups in which it is included.	

To create a new object

- · Click 'Firewall' > 'Firewall Addresses' on the left
- · Select the organization/device from the drop-down in the title bar
 - Select an organization to manage FW address objects for all devices in that organization
 - Select an individual device under an organization to manage FW address objects for a single device.
- · Click 'Add an address' at the top-left
- The 'Add Object' dialog will open:





- Enter the parameters for the new object as shown below:
 - Name Specify a label for the object (15 characters max) representing the host(s) included in the object.
 - Comment Enter a short description of the object.
 - Type Select the type by which the hosts are to be referred in the object. The available options are:
 - Subnet Select this if a sub network of computers is to be covered by the object and enter the sub network address
 - IP address Select this if a single host is to be covered by the object and enter the IP address
 - IP range Select this if more than one host is to be covered by the object and enter the IP address range of the hosts
- Click 'Save'. The new address object will be added to the list.

The object will be available for selection as a source or destination when creating a firewall rule. You can search for the object by typing the first few letters of the object name.



Manage Firewall Object Groups 8.3

- Firewall object groups consist of one or more IP address objects. Object groups can be created for organizations or devices.
- Administrators can reference object groups when creating and managing firewall rules.
- Object groups can be edited to change member objects. The change will be applied to all firewall rules which include the object group.
- Similar to address objects, object groups are specific to an organization or device.
- Address objects added for an individual device will be available only for that device's 'Source' and 'Destination' IP address drop down.
- Note Existing FW group objects will not be imported with the device. We recommend you remove these from the device before importing then configure them again from central manager.

To create and manage firewall objects groups

- Click 'Firewall' > 'Firewall Groups' in the left-hand menu
- Select the organization/device on the top left of the interface
 - Select an organization to manage group objects for all devices in the organization
 - Select an individual device under an organization to manage group objects for a single device



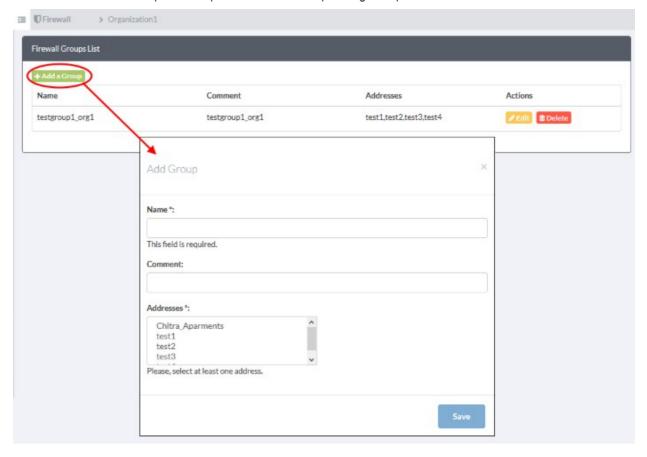
The 'Firewall Groups' list shows object groups added to specific devices / organizations. The interface allows you to view, create and manage objects groups. Groups in this list will be available when creating/managing new firewall policy.

Firewall Group List Table - Column Descriptions		
Column	Description	
Name	Label for the firewall group. The group name will become available for selection in the 'source' and 'destination' address fields when creating a 'Firewall Policy'.	
Comment	A short description of the object	
Address	IP address(es) of host computer(s) contained in the object.	
Actions	Controls for managing the group. - Modify object settings. The Edit interface is similar to 'Add Group' interface. - Removes the object. Note: Objects which are currently referenced in a firewall rule or in a group cannot be removed. To delete an group, you must first remove it from all rules or groups in which it is included.	



To create a new group

- Click 'Firewall' > 'Firewall Groups' in the left-hand navigation
- Select the organization/device on the drop-down of the interface
- Click 'Add a Group' at the top-left. The 'Add Group' dialog will open:



- Enter the parameters for the new object as shown below:
 - Name Specify a label for the group (15 characters max)
 - Comment Enter a short description of the group.
 - Address Select the address objects that should be included in the group.
- Click 'Save'. The new group will be added to the list.

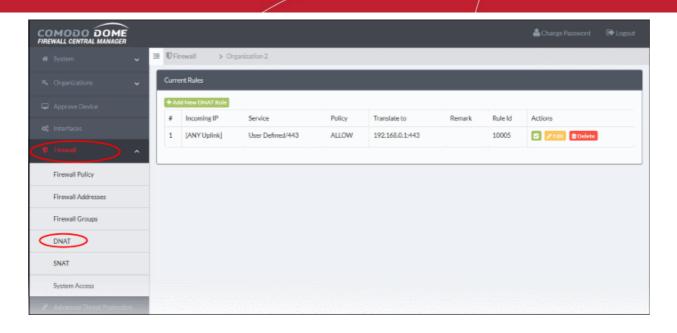
8.4 Configure Destination Network Address Translation Rules

- Destination Network Address Translation (DNAT) is used to provide access to internal applications/devices from outside of the network.
 - For example, you can provide access to web, ftp, mail and other services that are located inside the network.
- The common use of DNAT is to redirect traffic sent to a public-facing IP to an internal IP / port.
- DNAT rules can be added for a device / organization
- Note Existing FW DNAT rules will not be imported with the device. We recommend you remove these from the device before importing then configure them again from central manager.

To create and manage DNAT rules:

Click 'Firewall' > 'DNAT' in the left-hand menu.





DNAT Table - Column Descriptions		
Column	Description	
#	Serial number of the rule	
Incoming IP	The address that receives the traffic. This can be an internal network zone or an external network.	
Service	The protocol and destination port used by the traffic	
Policy	Whether traffic matching the rule should be allowed, denied or rejected	
Translate to	The internal IP and port that the traffic should be forwarded to	
Remark	Comments about the DNAT rule	
Rule ID	ID number of the rule. Translation is applied by the first rule which meets the conditions of the traffic, regardless of any matching rules that follow.	
Actions	Displays control buttons for managing the rule.	
	- Enable or disable the rule.	
	- Modify the rule. The edit interface is similar to 'Add / Update DNAT Rule' interface.	
	Delete - Removes the rule.	

To create a DNAT rule

- Click 'Firewall' > 'DNAT' on the left
- Select the organization to which the device belongs or, alternatively, select an individual device.
- · Click the 'Add New DNAT Rule' link at the top left.
- The 'Add / Update DNAT Rule' dialog will open.





- Incoming IP Select the type of incoming source and specify the source in the text box below it. The options available are:
 - Zone/ VPN/ Uplink The interfaces configured in the 'Interface Configuration' screen will be available for selection. Select this option if the incoming source is a network zone or an Interface connected to the virtual appliance. Choose the network zone and/or the interface from the options listed in the text box. Press and hold the Ctrl key in the keyboard to choose multiple zones/interfaces.
 - Network/ IP/ Range Select this option if the rule is to be applied to incoming traffic from a network IP or from a specific IP address or address range. Enter the IP address of the network(s) in CIDR notation or the specific IP address(es) or address range in the text box, as one entry per line.
 - SSL VPN User Select this option if the rule is to be applied to traffic from VPN user(s) added to the network. Choose user(s) from the list of pre-registered users displayed in the textbox. Press and hold the Ctrl key in the keyboard to choose VPN users.
- Incoming Service / Port Specify the service, protocol and incoming destination port for the rule.



- Service Select the service type.
- Incoming port Select the destination port for the service. Usually this field will be auto selected based on the service selected.
- Protocol Select the protocol for the service. Usually this field will be auto selected based on the service selected.
- **Translate to** Specify to which IP and port the incoming traffic should be forwarded to. Select whether network address translation should be performed or not.
 - Insert IP Enter the IP to which the traffic should be forwarded to. Note You have to specify a single IP only.
 - Port Enter the port number / port range to which the incoming traffic should be forwarded to.
 - NAT Select whether network address translation should be done or not. If you select 'Do not NAT', destination address translation will not be performed.
- Advanced Mode Allow traffic from specific sources and choose whether traffic for a matching DNAT rule should be allowed, dropped or rejected.
 - Select the type of incoming source from the drop-down. Press and hold the Ctrl key in the keyboard to choose multiple sources.
 - Filter Policy Select whether network packets from a matching rule should be allowed, dropped or rejected from the drop-down.
- **General Settings** Configure the general settings to enable/disable, enter a short description and select a position for the rule in the list.
 - Enabled Leave this checkbox selected if you want the rule to be activated upon creation.
 - Remark Enter a short description for the rule. The description will appear in the remark column of the respective rules interface
 - Position Set the priority for the rule in the list of rules in the respective rules interface. The rules are processed in the order they appear on the list.
 - Log Select this checkbox if you want the packets allowed by the rule are to be logged.
- Click 'Save'. The new DNAT rule will be created and applied to the selected organization or device.

DNAT rule management activities are logged in System > Tasks. See 'View Management Tasks' for more details.

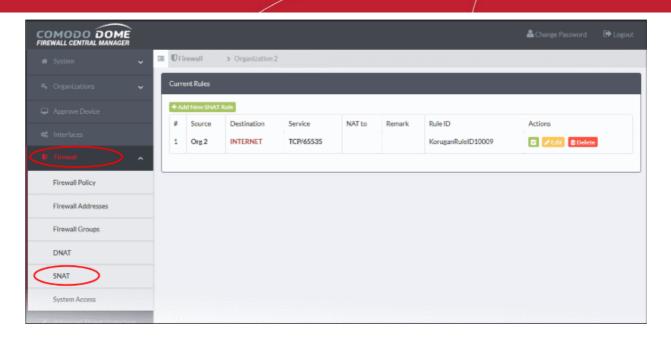
8.5 Configure Source Network Address Translation Rules

- Source Network Address Translation (SNAT) is used when a private / internal host needs to connect to an public / external host.
 - For example, when an internal host is running a web or mail service and the outgoing packets should be from a public facing IP address.
- SNAT rules can be added for a device / organization
- Note Existing SNAT rules will not be imported when you add a device. We recommend you remove them from the device before importing then configure them again from central manager.

To create and manage SNAT rules:

Click 'Firewall' > 'SNAT' in the left-hand menu.



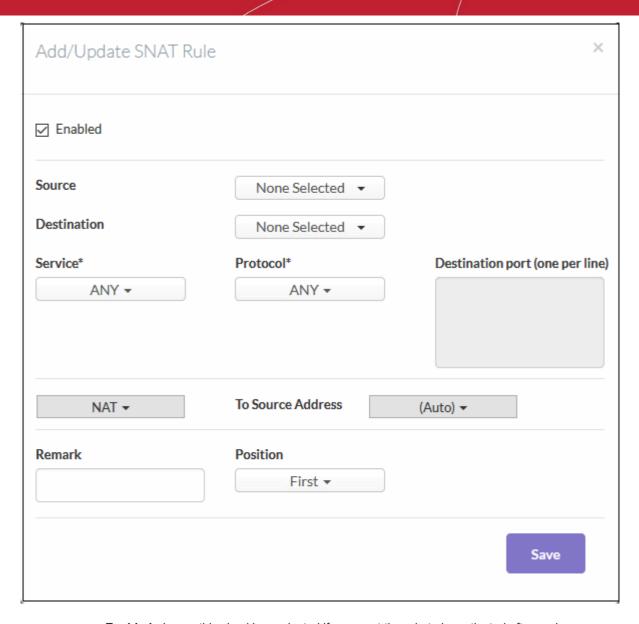


SNAT Table - Column Descriptions		
Column	Description	
#	ID number of the rule. Translation is applied based on the first matching rule in the list, regardless of other matching rules that follow.	
Source	The firewall object containing the IP address, IP address range or subnet of the host(s) from which the traffic originates	
Destination	The interface through which traffic is directed to the external network	
Service	The protocol and port used by the traffic	
NAT to	The address to which this traffic should be redirected	
Remark	A short description of the rule	
Rule ID	A unique identifier for the SNAT rule. This helps identify the rule in the back-end of the console.	
Actions	Controls for managing the rule.	
	- Enable or disable the rule.	
	- Edit rule parameters. The 'Edit' interface is similar to the 'Add/Update Rule' interface.	
	- Removes the rule.	

To create an SNAT rule

- Click 'Firewall' > 'SNAT' on the left menu
- Click 'Add New SNAT Rule'. The 'Add/Update Rule' dialog will open:





- **Enabled** Leave this checkbox selected if you want the rule to be activated after saving.
- Source Firewall Address object/object group from which traffic originates. Select the required object from the drop-down menu.
- **Destination** Specify the interface / firewall address object / object group to which traffic is sent. See 'Manage Firewall Address Objects' to find out how to create address objects.
- Service / Protocol / Destination Port Select the type of service hosted by the source, its protocol and ports.
- **NAT** Choose whether or not to apply network address translation. The options available are:
 - No NAT Network Address Translation will not be applied
 - Map Network All IPs from the source subnet will be statically mapped to another network of the same size. Specify the subnet to which the IPs are to be mapped in the textbox at the right.
 - NAT (to Source Address) Traffic will be directed to the address you select from the 'To source address' drop-down.

General Settings:

- **Remark** Enter a short description of the rule (optional). The description will appear in the 'Remark' column of the respective rule
- **Position** Set the priority of the rule among the rules listed in the rules interface. The rules are

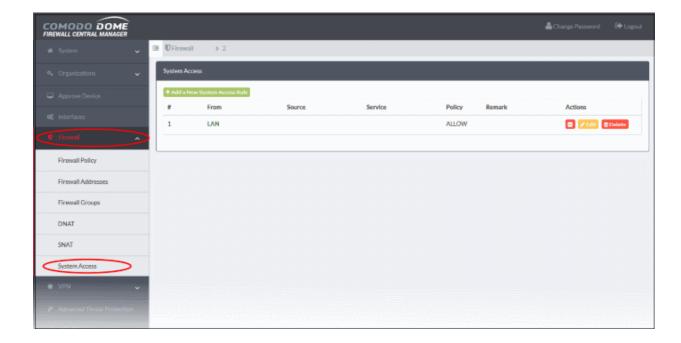


processed in the order they appear on the list.

Click 'Save'. The new SNAT rule will be created and applied to the selected organization or device.

Configure System Access Rules 8.6

- System access rules govern the rights that various hosts and zones have to access a firewall device.
- Click 'Firewall' > 'System Access' on the left to open the rules interface.
- Select a firewall device or organization from the gray bar above the table.
- The system access table shows all existing access rules for the organization or device, and allows you to add new rules.



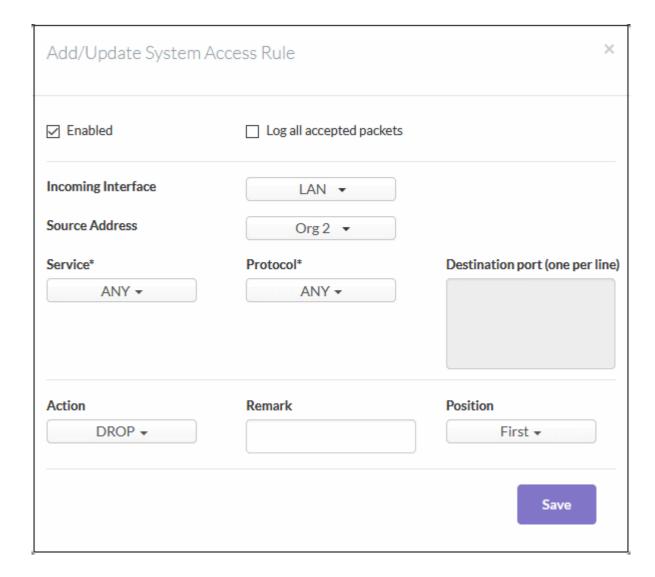
System Access Rules Table - Column Descriptions		
Column	Description	
#	ID number of the rule. A packet is allowed or denied based on the first matching rule in the list, regardless of other matching rules that follow.	
From	The interface over which traffic is received. E.g. 'LAN', 'Internet', 'WiFi'.	
Source	The firewall address object/object group from which traffic originates.	
Service	The port and protocol used by traffic which will be affected by this rule.	
Policy	Action taken on traffic affected by this rule.	
Remark	A short description of the rule	
Actions	Controls for managing the rule.	
	- Edit rule parameters. The 'Edit' interface is similar to the 'Add/Update System Access Rule' interface.	



- Removes the rule.

To create a new rule

- Click 'Firewall' > 'System Access' on the left
- Select a firewall device or organization from the gray bar above the table.
- Click the 'Add a New System Access Rule' link button. The rule configuration screen will open:



- Enabled Leave selected if you want the rule to be activated immediately after saving. You can enable or disable the rule later in the rules list if required.
- Log all accepted packets Enable to create a record of all data packets accepted by the rule.
- **Incoming Interface** Select the interface from which traffic is received
- **Source Address** The firewall address object/object group from which traffic originates.
- Service/Protocol/Port-
 - **Service** Choose the service over which the traffic is sent. Selecting a service will auto-populate the 'Protocol' and 'Destination Port' fields. You can, of course, edit the port fields if required.
 - Protocol Choose the protocol used by the service. Selecting a protocol will change the 'Service' to 'User defined'. Assuming a match on incoming interface and source address, the rule will affect all traffic using the chosen protocol regardless of service type.
 - **Destination port** Specify the destination port(s) of the service one by one.

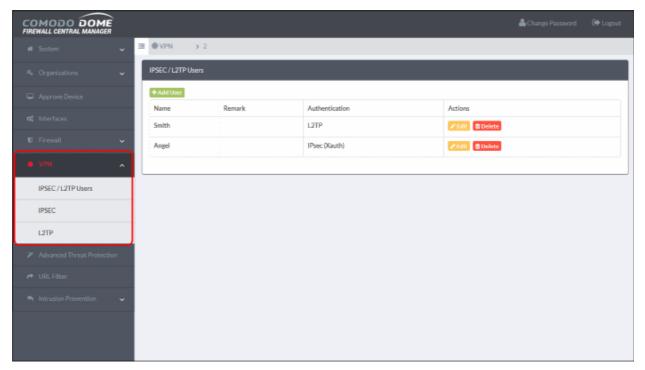


- Action Specify whether packets matching the rule should be allowed or denied. The options available are:
 - **Accept** The data packets will be allowed without filtering
 - Drop The packets will be denied
 - Reject The packets will be rejected, and error packets will be sent in response
 - **Remark** Enter a short description of the rule (optional)
 - Position Set the priority for the rule in the list of rules in the respective rules interface. The rules in the IP tables are processed in the order that appears on the list.
- Click 'Save'. The new system access rule will be created and applied to the selected organization or device.

Configure Virtual Private Network Settings

The VPN section lets you configure IPSec and L2TP settings, and add IPSec / L2TP end-users for managed firewalls.

- IPSec / L2TP Users Add and manage end-users.
- IPsec Configure and connect network and clients to Dome Firewall.
- L2TP Server DFW acts as a L2TP server to connect remote L2TP clients to local zones via IPSec VPN tunnel.



The following sections provide detailed descriptions of different VPN services and their configuration:

- **IPsec / L2TP Users Configuration**
- **IPsec Configuration**
- **L2TP Server Configuration**

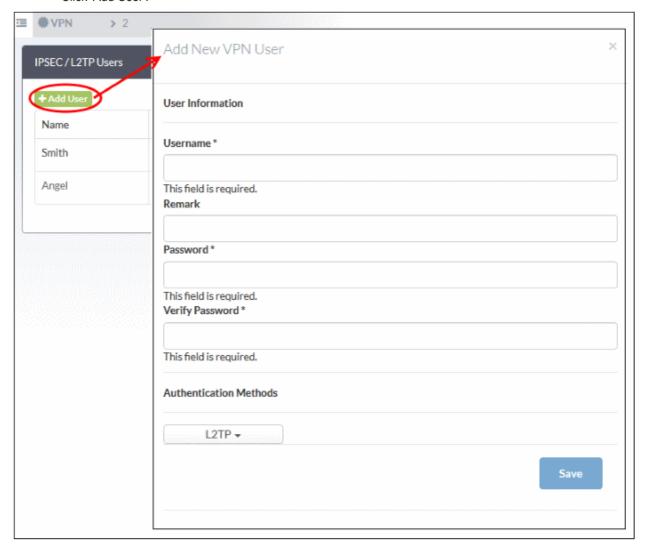


Configure IPSec/L2TP Users 9.1

- Click 'VPN' > 'IPSec / L2TP Users' in the left-hand menu
- This area lets you add users for managed organizations that need to connect to the internal network via IPSec VPN tunnel
 - Note 1 You need to configure IPSec and L2TP servers before the users you add can connect.
 - Note 2 Existing users are not imported when you add a device to central manager. We recommend you remove them from the device before importing then configure them again in central manager.

Add a new user account

- Click 'VPN' > 'IPSec / L2TP Users' on the left
- Select a target device or organization from the gray bar above the table
- Click 'Add User':



- Username / Password Specify the credentials that the user will use to log into the IPSec VPN.
- Remark Add comments about the account that may be important for other admins to know.
- Authentication Method The method by which this user will authenticate themselves to the VPN.

Choose from:

- IPsec (Xauth) Used for net-to-net connections between sites.
- IPsec (EAP) Used for net-to-net connections between sites.



L2TP – Useful for authenticating mobile devices to the firewall Note – You have to choose at least one type of authentication.

Click 'Save' The user will be added to the list.

9.2 **IPSec Configuration**

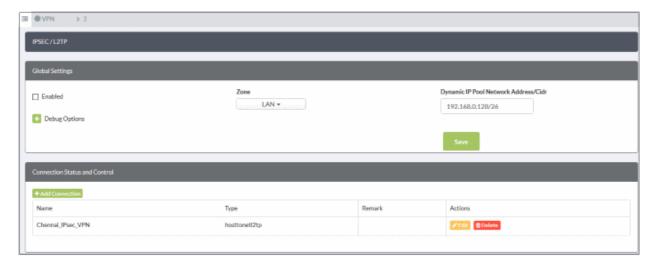
Click 'VPN' on the left then 'IPSec'

The IPSec area lets you configure tunnels between different networks and sites for managed organizations.

- Dome Firewall supports two types of VPN protocols:
 - 'Net-to-Net' VPN connections (aka 'Site-to-Site VPN') Connect network to network via IPSec
 - L2TP Host to Net VPN Connect external devices with L2TP clients to internal networks through an IPsec VPN.
- Note Existing IPsec connections are not imported when you add a device. We recommend you remove them from the device before importing, then configure them again in central manager.
- Once configured, the IPSec connection type is available as a firewall object. This can be used in the source and destination address fields of a FW rule.

Configure IPSec settings and add tunnels

- Select a firewall device or organization from the gray bar above the table
- Click 'VPN' on the left then select 'IPSec'



Use this interface to create, configure and monitor IPsec connections, and to configure authentication preferences. You can implement authentication between IPsec connected devices by pre-shared key.

The interface contains two areas:

- **Global Settings**
- **Connection Status and Control**

Global Settings

The 'Global Settings' area allows you to:

- Enable or disable the IPsec VPN service
- Configure which internal network zones can be accessed over IPsec



Specify the dynamic IP address pool that should be used when assigning addresses to external clients.

The 'Debug Options' area allows you to choose how much information is included in IPsec events in debugging logs.



- Enabled Activate or deactivate the IPsec VPN service
- **Zone** Choose the internal network to which external clients/networks will connect over the VPN.
- Dynamic IP pool network address/cidr The range of addresses from which IPs are drawn and dynamically assigned to external clients.
- Debug options The level of detail that should be logged about an IPsec event such as a connection failure. The log file is stored at /var/log/messages on the virtual appliance. Click the '+' button to view further options.
- Click 'Save' for your settings to take effect

Connection Status and Control

- Select a firewall device or organization from the gray bar above the table
- Click 'VPN' on the left then select 'IPSec'
- The 'Connection Status and Control' area of the page lets you view, edit and add IPsec tunnels.

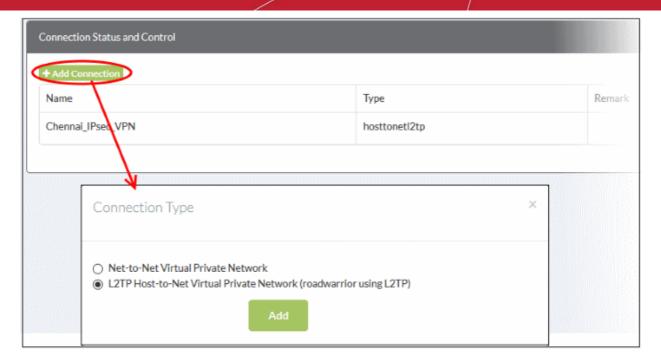


- Name Label to identify the connection.
- Type The type of tunnel site-to-site or host-to-net.
- Remark A short description of the tunnel.
- Actions Edit or delete a VPN connection. Editing a connection is similar to adding a new connection explained below.

Add a New Tunnel Configuration

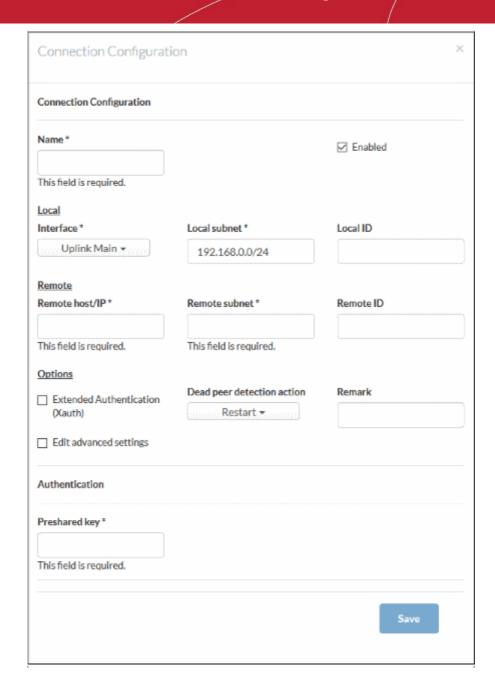
- Select a firewall device or organization from the gray bar above the table
- Click 'VPN' on the left then select 'IPSec'
- Click 'Add Connection' in the 'Connection Status and Control' area





- Choose the connection type and click 'Add'
 - You next have to configure the connection.
 - The interface is the same for both types of connection, except that 'Net to Net' connections have an additional parameter - 'Remote subnet'.





Connection Configuration

- Name Create a label to identify the tunnel
- Enabled The tunnel will be activated after you click 'Save'. Do not select this if you just want to configure the connection and enable it later.

Local

- Interface The uplink interface on the DFW virtual appliance through which the external client should connect to the local network.
- Local Subnet This field is auto-populated with the local sub-net of the LAN. If you want to specify a different subnet, enter the address in CIDR format.
- **Local ID** Enter an identification string for the local network.

Remote

- Remote host/IP IP address or hostname of the external host or network
- Remote subnet The option is available only if you are creating 'Net to Net' connection type. Specify the sub-net of the external network that can connect through the tunnel



Remote ID - Enter an identification string for the local network.

Options

- Extended Authentication (Xauth) Select if you want to enable additional, certificate based
 authentication for the remote client. You must install the client certificate on to the external client if
 you select this option.
- **Dead peer detection action** Choose the action the firewall should take if the peer disconnects. The options available are:
 - Clear Disconnect
 - Hold Wait for the peer to reconnect
 - Restart Reboot the peer
- Remark Enter a short description of the connection
- Edit advanced settings Advanced parameters can be edited only after saving the tunnel configuration. See edit advanced parameters of IPsec tunnel configuration for more details.

Authentication

- Use a pre-shared key Select this option if you wish to apply PSK type authentication for the remote client. Enter the password to be used for authentication by the remote client.
- · Click 'Save' for your configuration to take effect.

The connection will be added to the **Connection status and control** area.

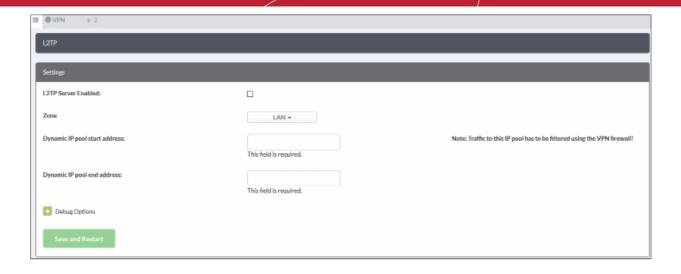
9.3 Configure L2TP Server

- Click 'VPN' > 'L2TP' in the left-hand menu to open the L2TP server interface
- Dome Firewall allows remote clients using Layer 2 Tunneling Protocol (L2TP) to connect to an IPsec VPN tunnel.
- You need to enable L2TP server on the appliance in order to allow L2TP clients.
- Note Existing L2TP server configurations are not imported when you add a device. We recommend you
 remove them from the device before importing, then configure them again in central manager.

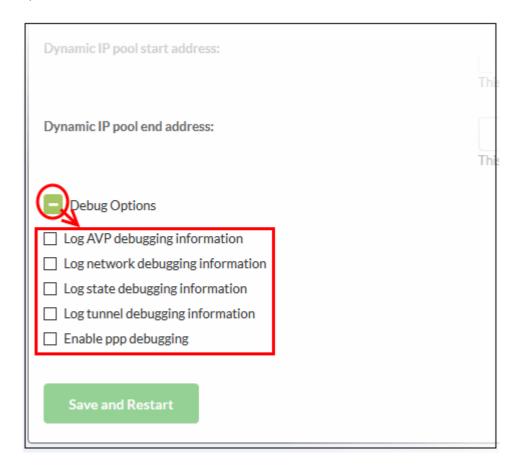
To configure L2TP server

- Select a firewall device or organization from the gray bar above the table
- Click 'VPN' on the left then select 'L2TP'





- **L2TP Server Enabled** Activate the L2TP service
- Zone Choose the internal zone which external clients/networks will access over the IPsec VPN
- Dynamic IP pool start address/end address The IP range from which addresses are assigned to external clients connecting over L2TP
- **Debug options** Configure the level of detail logged for L2TP events in the event of connection failures. The log file is stored at /var/log/messages on the appliance. Click the '+' button to view further options.



Click 'Save and restart'. The VPN server will be restarted for your configuration to take effect.

In order to allow several L2TP users to connect through the IPsec tunnel, the end users have to be created for the service. See 'Configure IPSec / L2TP Users' for more details.



10 Manage Advanced Threat Protection **Profile**

- Click 'Advanced Threat Protection' on the left to open this interface.
- Advanced Threat Protection (ATP) safeguards networks against malware, hack attempts, data breaches and other attacks.
- ATP scans internet downloads and email attachments with a combination of antivirus scans, behavior analysis and blacklist checks.
- This interface lets you configure ATP profiles for organizations and devices.
- You can then select these profiles when creating firewall rules for organizations and devices.

ATP uses the following techniques to analyze files:

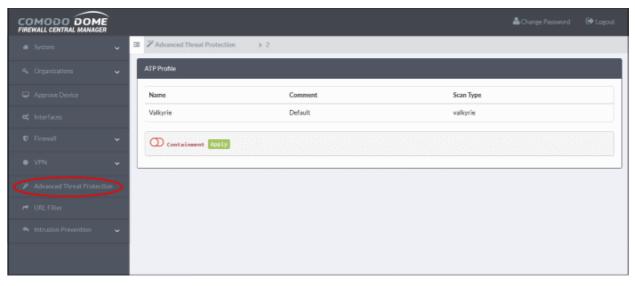
- Comodo Antivirus Continuously updated antivirus scanner which provides dependable protection against known malicious files.
- Comodo Valkyrie A cloud based behavior analysis service which improves detection of zero-day threats by rigorously testing the run-time actions of unknown files.

The antivirus and Valkyrie tests provide a trust verdict for each file. There are three possible verdicts:

- Safe Trusted files. These are allowed to run on the endpoint.
- Threats Malicious files. These are automatically blocked and a warning shown on the endpoint.
- Unknown Files that could not be identified as safe or threatening are classified as 'Unknown'. Users are not allowed to download these files directly. Instead, they are are wrapped in Comodo's containment technology and forwarded to the endpoint. When executed, the file runs in a secure virtual environment and is not allowed to access other processes or user data.

The ATP Profile

Click 'Advanced Threat Protection' on the left to open the interface.



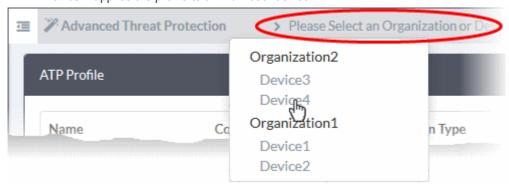
The ATP profile defines types of scan applied to files downloaded by end-users. You can also choose whether or not to apply containment to unknown files.

By default, a profile with Valkyrie analysis is available. You can configure whether or not auto-containment is also enabled on the profile.

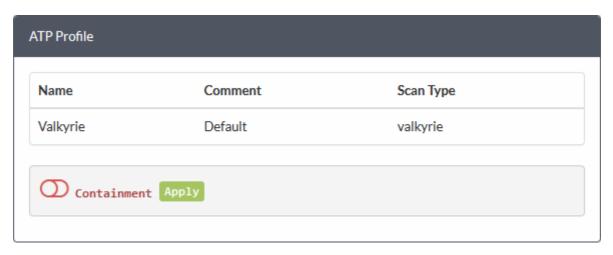
To configure an ATP profile for an organization or device



- Click 'Advanced Threat Protection' on the left.
- Select a target organization/device by clicking the link in the gray bar.
 - Organization applies the profile to all devices in the organization
 - Device applies the profile to an individual device



This opens the ATP profile for the target org/device:



- Use the switch beside 'Containment' to enable or disable the auto-containment of unknown files at the endpoints.
- Click 'Apply'

The profile can be applied for web protection settings when configuring firewall policies. See the explanation of Web Protection in the section Configure Firewall Policy Rules for more details.

Manage URL and Content Filtering **Profiles**

- Click 'URL Filter' in the left-hand menu to open the filter configuration screen.
- The web filter allows you to control which websites your end-users can access.
- You need to create a URL/content filter profile to implement this feature. The profile can then be added to a firewall rule.

There are two elements of a URL profile:



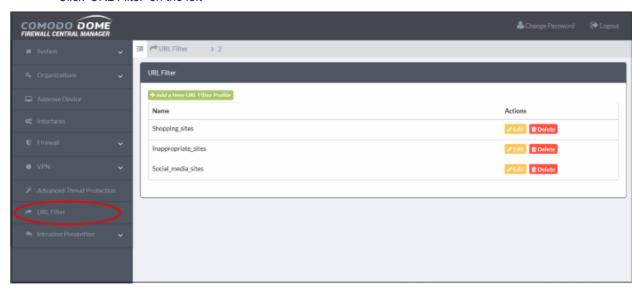
- A website category filter.
- A whitelist / blacklist of specific websites.

Once created, URL profiles can be activated in the 'Web Protection' section of a firewall rule. See Web Protection **Settings** for help with this.

- Profiles created for an organization are available to all devices in that organization.
- Profiles created for an individual device are only be available for that device.

Open the URL filter interface

Click 'URL Filter' on the left



URL Filter - Column Descriptions			
Column		Description	
Name		Profile label.	
Actions	Edit	Opens the profile editor so you can modify the profile. The editor interface is similar to the interface for adding a profile. See Create a URL Filter Profile for more details.	
	Delete	Removes the profile.	

Create a URL Filter Profile

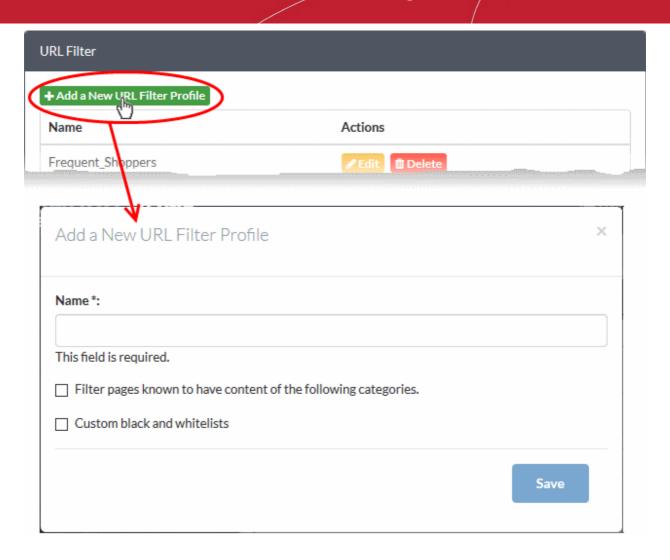
URL filter profiles are constructed from the following two items:

- Content categories Web pages with content which falls into a chosen category will be automatically blocked
- URL Whitelist/Blacklist Users can access whitelisted addresses. Blacklisted addresses are blocked. These lists are often used to create exceptions for sites blocked (or allowed) by content categories.

To create a URL filtering profile

- Click 'URL Filter' on the left
- Select an organization/device from the drop-down in the title bar
- Click the 'Add a New URL Filter Profile' button at the top-left of the interface.

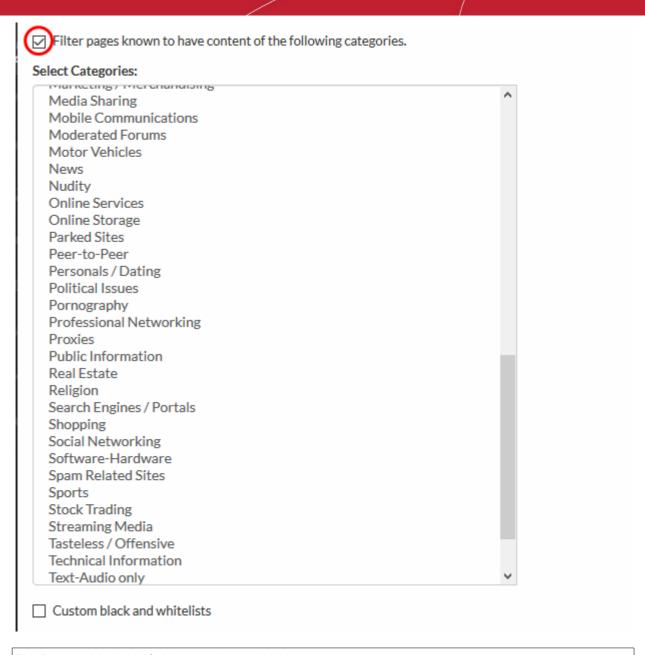




Complete the following details in the form:

- Name Friendly label to identify the purpose of the profile.
- 'Filter pages known to have...' Choose website categories that you want to block:





Tip: Press and hold the 'Ctrl' key to select multiple items.

'Custom black and whitelists' - Specify URLs you want to allow or block. Black and whitelists are usually created to provide exceptions to the categories you have allowed/blocked.



Add a New URL Filter Profile			×
Name *:			
This field is required. Filter pages known to have content of the follow Custom black and whitelists	ing categories.		
Allow the following sites	Blo	ock the following sites	
			Save

- 'Allow the following sites' Whitelisted websites. Users are allowed to access the sites you type
- 'Block the following sites' Blacklisted websites. Users are not allowed to access sites you type here.

Note:

- Type URLs in the format www.example.com (without http:// or https://)
- Wildcard characters are allowed. For example, *.example.com will block all sub-domains of example.com
 - Click 'Save'.

The profile is now available in the 'URL Filter' drop-down when creating/editing a firewall rule.

Repeat the process to add more filter profiles.

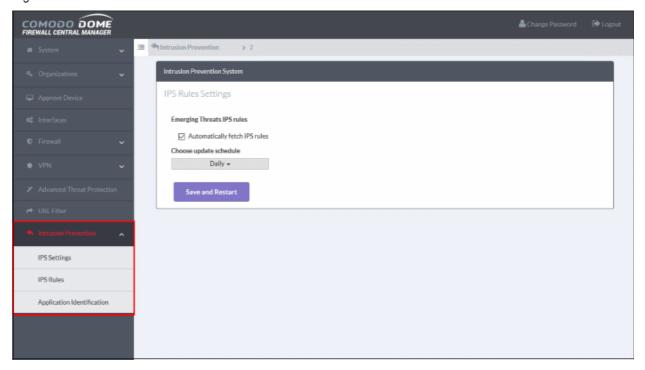
Intrusion Prevention

- Click 'Intrusion Prevention' in the left-hand menu
- Comodo Dome Firewall uses 'Snort', a state-of-the-art network intrusion prevention and detection system (IDS/IPS) directly built-in to its IP tables.
- Snort employs signature, protocol, and anomaly-based inspection of incoming traffic to detect and block intrusion attempts.
- Snort uses IPS 'rulesets'. Each ruleset contains a number of rules to identify applications generating traffic
- All rule sets are constantly updated to confront emerging network intrusion techniques.

The intrusion prevention menu lets you configure Snort rule updates and enable IPS/application rule sets for



organizations and devices



See the following sections for more details:

- Configure the Intrusion Prevention System
- Manage IPS Rulesets
- Manage Application Identification Rulesets

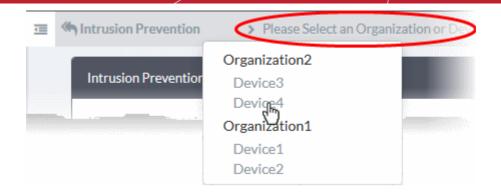
12.1 Configure the Intrusion Prevention System

- Click 'Intrusion Prevention' > 'IPS Settings' in the left-hand menu
- The 'IPS Settings' interface lets you configure ruleset updates for Snort. Updates can be scheduled to run automatically at specific intervals.
- These settings will be applied to devices when you choose the 'default' intrusion prevention profile in the 'Content Flow Check' section of a firewall rule.
 - See Content Flow Check Settings if you want more advice on this.

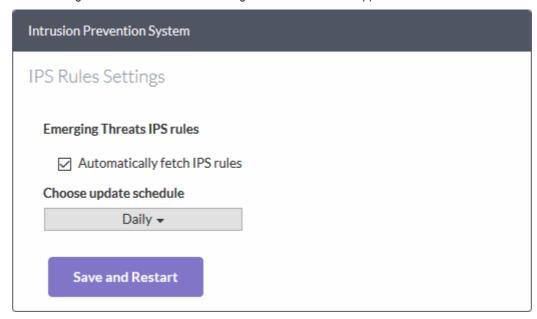
To configure the IPS ruleset update schedule for default profile

- Click 'Intrusion Prevention' > 'IPS Settings'
- Select the organization/device from the drop-down in the title bar
 - A default profile applied to an organization will apply to all devices in the organization.
 - A default profile applied to an individual device will apply only to the device in question.





The 'IPS Rules Settings' interface for the selected organization/device will appear.



- Automatically fetch IPS rules If enabled, Dome Firewall will download and install ruleset updates at the schedule you choose.
- Choose update schedule Select the interval for automatic updates. The available options are:
 - Hourly
 - Daily (**Default**)
 - Weekly
 - Monthly
- Click 'Save and Restart'

Your settings will be saved. The devices in which the profile is already in effect will be restarted for the changes to take effect.

12.2 Manage IPS Rulesets

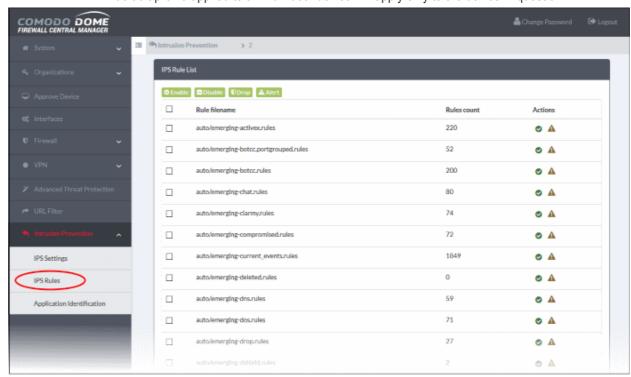
- Click 'Intrusion Prevention' > 'IPS Rules' in the left-hand menu
- The 'IPS Rules' interface displays a list of currently loaded IPS rulesets for the selected organization or device.
- You can enable/disable rulesets and configure them to allow/block packets as required.
- These settings will be applied to devices when you choose the 'default' IPS profile in the 'Content Flow Check' section of a firewall rule.



See Content Flow Check Settings if you want more advice on this.

To configure IPS Rulesets

- Click 'Intrusion Prevention' > 'IPS Rules'
- Select the organization/device from the drop-down in the title bar
 - A default profile applied to an organization will apply to all devices in the organization.
 - A default profile applied to an individual device will apply only to the device in question.



IPS Rule List - Column Descriptions		
Column	Description	
Rule filename	The label of the ruleset	
Rules count	The number of constituent rules in the rule set	
Actions	 ✓ / □ - Indicates whether the ruleset is enabled or disabled. Click on the icon to switch states. See Enable/Disable rulesets for more details. ⚠ / Ū - Rule action. Can be 'Alert' or 'Drop'. Click the icon to switch between 'Alert' and 'Drop' actions. See Change application policy of rulesets for more details. 	

Enable/Disable rulesets

Rulesets can be enabled or disabled individually or collectively:

- Enable a single ruleset Click the oicon in the 'Actions' column
- Disable a single ruleset Click the icon in the 'Actions' column
- Multiple rulesets Select rulesets using the check-boxes on the left. Click the 'Enable' or 'Disable' button as



required.

 Any changes will be saved to the default profile and immediately applied to devices on which the profile is active.

Rule actions

Rule actions are the responses you want the firewall to take if the conditions of a rule are met. There are two options:

- Alert Will allow the packet to pass and will generate an alert. An alert policy is indicated by a yellow triangle in the 'Actions' column ▲
- Drop Will block the data packet without generating an alert. A drop policy is indicated by a shield icon in the 'Actions' column - ■

Any changes will be saved to the default profile and immediately applied to devices on which the profile is active.

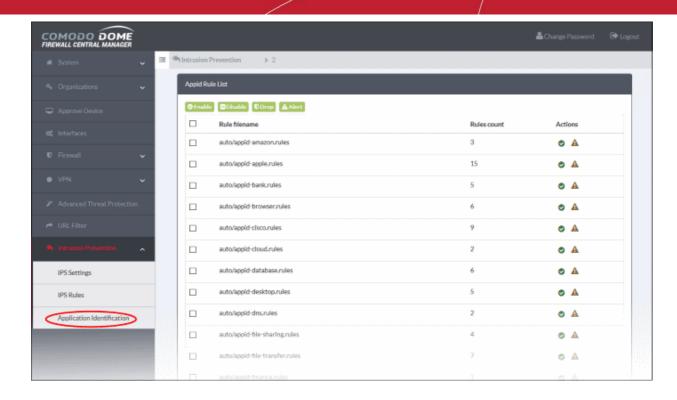
12.3 Manage Application Identification Rulesets

- Click 'Intrusion Prevention' > 'Application Identification' in the left-hand menu.
- Application identification rules intercept traffic from specific apps and allow or block that traffic according to your preference.
- The interface shows rules that are currently in the default profile for the selected organization or device.

To configure Application Identification Rulesets

- Click 'Intrusion Prevention' >'Application Identification'
- Select the organization/device from the drop-down in the title bar
 - Organization Configure rulesets that can be applied to all devices in the organization.
 - Device Configure rulesets that can be applied to a specific device.





Appld Rule List - Column Descriptions			
Column	Description		
Rule filename	The file that contains the constituent rules of the ruleset		
Rules count	Indicates the number of constituent rules in the rule set		
Actions	Displays control buttons for the ruleset. ✓ / — Indicates whether the ruleset is currently enabled or disabled. • Click on the icon to toggle the enabled/disabled status • See Enable/Disable rulesets for more details. ✓ / □ - Indicates the application policy of the ruleset. • Click on the icon to toggle the application policy between 'Alert' and 'Drop' policies. • See Change application policy of rulesets for more details.		

Enable/Disable rulesets

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About Comodo Security Solutions

Comodo Security Solutions is a global innovator of cybersecurity solutions, protecting critical information across the digital landscape. Comodo provides complete, end-to-end security solutions across the boundary, internal network and endpoint with innovative technologies solving the most advanced malware threats. With over 80 million installations of its threat prevention products, Comodo provides an extensive suite of endpoint, website and network security products for MSPs, enterprises and consumers.

Continual innovation and a commitment to reversing the growth of zero-day malware, ransomware, data-breaches and internet-crime distinguish Comodo Security Solutions as a vital player in today's enterprise and home security

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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