Important Information

**Latest Software**

We recommend that you install the most recent software release to stay up-to-date with the latest functional improvements, stability fixes, security enhancements and protection against new and evolving attacks.

**Check Point R77.20.20**

For more about this release, see the R77.20.20 home page [http://www.supportcontent.checkpoint.com/solutions?id=sk109994](http://www.supportcontent.checkpoint.com/solutions?id=sk109994).

**Latest Version of this Document**


To learn more, visit the Check Point Support Center [http://supportcenter.checkpoint.com](http://supportcenter.checkpoint.com).

**Feedback**

Check Point is engaged in a continuous effort to improve its documentation.

Please help us by sending your comments [mailto:cp_techpub_feedback@checkpoint.com](mailto:cp_techpub_feedback@checkpoint.com)?subject=Feedback on Check Point 1430/1450 Appliance Centrally Managed R77.20.20 Administration Guide.

**Revision History**

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<tr>
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Check Point 1430/1450 Appliance Overview

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Check Point 1430/1450 Appliance supports the Check Point Software Blade architecture and provides independent, modular and centrally managed security building blocks. You can quickly enable and configure the Software Blades to meet your specific security needs.

Check Point 1430/1450 Appliance runs an embedded version of the Gaia operating system. It includes core configuration elements such as clish interface, SNMPv2/3 and routing stack implementations. In addition to the Gaia features, Embedded Gaia contains support for built-in network switches, wireless networks, 4G/LTE Internet connectivity, multiple Internet connections (more than 2) in High Availability or Load Sharing mode, Policy Based Routing, DDNS support, and quick deployment (with USB).

Use the Web user interface (WebUI) to set the appliance to be locally managed or centrally managed by a remote Security Management Server.

This guide describes all aspects that apply to central management mode. For more information on local management, see the Check Point 1430/1450 Appliance Locally Managed Administration Guide.

Review these documents before doing the procedures in this guide:
- Version’s release notes
- Known Limitations
- Resolved Issues
- Check Point 1430/1450 Appliance Getting Started Guide

See the R77.20.20 home page.

Predefining a Centrally Managed Deployment

To manage the Check Point 1430/1450 Appliance in a centrally managed deployment, you must install a Security Management Server and SmartConsole clients that operate with Check Point 1430/1450 Appliance.

The Security Management Server versions that operate with Check Point 1430/1450 Appliance are versions R77.30 and higher.

For installation instructions, see the version’s release notes.

After you install the SmartConsole clients you can define the Check Point 1430/1450 Appliance object in SmartDashboard (in small-scale deployments) and prepare the security policy.
Deployment Installation

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This chapter contains procedures for defining a gateway or a gateway cluster. Do the procedures that match your requirements, then install the policy.

Deployment Workflow

This is the suggested workflow for deployments:

1. Create the necessary gateway or cluster objects for your appliances in SmartDashboard.
2. Install the Security Policy in SmartDashboard.
3. Configure the corresponding appliances using the First Time Configuration Wizard.
   Alternatively, you can use a USB drive to quickly configure many appliances without using the First Time Configuration Wizard. For more details, see Deploying from a USB Drive (on page 37).
4. Manage the appliance settings in SmartProvisioning for the gateway or cluster objects.

Defining a Gateway Object

You can use SmartDashboard creation wizard to define a Check Point 1430/1450 Appliance before or after configuration of the appliance on site. There are two options to define a gateway object:

**Management First** - Where you define the gateway object in SmartDashboard before you configure and set up the actual appliance on site. This is commonly used for remotely deployed appliances or appliances that connect to the Security Management Server with a dynamic IP (e.g. assigned by a DHCP server or an ISP), as the IP is not known at the time of the configuration of the object in SmartDashboard. You can prepare a policy that the appliance will pull when it is configured.

**Gateway First** – Where you configure and set up the Check Point 1430/1450 Appliance first. It will then try to communicate with the Security Management Server (if this is configured) at 1 hour intervals. If connectivity with the gateway is possible during object creation in SmartDashboard, the wizard can retrieve data from the gateway (such as topology), and then help in configuration.

If an R75.46 or R76 Security Management Server is offline and not connected to the Internet, see sk92732 http://supportcontent.checkpoint.com/solutions?id=sk92732 for instructions on how to add the Check Point 1430/1450 Appliance object type to SmartConsole for these versions.
To define a single gateway object:
1. Log in to SmartDashboard with your Security Management credentials.
2. From the Network Objects tree, right click **Check Point** and select **Security Gateway/Management**.
   The Check Point Security Gateway Creation window opens.
3. Select **Wizard Mode**.
   The wizard opens to General Properties.
4. Enter a name for the Check Point 1430/1450 Appliance object and make sure that the gateway platform is set to **Check Point 1430/1450 Appliance**.
5. Set the Security Gateway **Version** to R77.20.
6. Select **Static IP address** or **Dynamic IP address** to get the gateway's IP address.

7. Click **Next**.

To configure a static IP address:
1. In the Authentication section, select **Initiate trusted communication securely by using a one-time password** or **Initiate trusted communication without authentication (less secure)**.
2. If you selected **Initiate trusted communication securely by using a one-time password**, enter a **one-time password** and confirm it. This password is only used to establish the initial trust. Once established, trust is based on security certificates.
   
   **Important** - This password must be identical to the one-time password you define for the appliance in the First Time Configuration Wizard.
3. In the Trusted Communication section, select **Initiate trusted communication automatically when the Gateway connects to the Security Management server for the first time** or **Initiate trusted communication now**.
4. Click **Connect**.
   A status window appears.
5. Click Next.

To configure a dynamic IP address:

1. In the Gateway Identifier section, select one identifier: Gateway name, MAC address or First to connect.

2. In the Authentication section, select Initiate trusted communication securely by using a one-time password or Initiate trusted communication without authentication (less secure).

3. If you select Initiate trusted communication securely by using a one-time password, enter a one-time password and confirm it. This password is only used for establishing the initial trust. Once established, trust is based on security certificates.

   **Important** - This password must be identical to the one-time password you define for the appliance in the First Time Configuration Wizard.

4. Click Next.

To configure the software blades:

In the Blade Activation page, select the software blades that you want to activate and configure.
To configure blades later:

1. Select **Activate and configure software blades later**.

2. Click **Next**.

To configure blades now:

1. Select **Activate and configure software blades now**.
2. Select the check boxes next to the blades you want to activate and configure.
3. Configure the required options:
   - **NAT** - The **Hide internal networks behind the Gateway's external IP** checkbox is selected by default.
   - **QoS** - Set the inbound and outbound bandwidth rates.
   - **IPSec VPN** - Make sure that the VPN community has been predefined. If it is a star community, Check Point 1430/1450 Appliance is added as a satellite gateway. Select a VPN community that the Gateway participates in from the **Participate in a site to site community** list.
   - **IPS** - Select a profile from the **Assign IPS Profile** list or click **Manage** to create/edit an IPS profile.
   - **User Awareness** - Complete the wizard pages that open to define the User Awareness acquisition sources. In the Active Directory Servers page of the wizard, make sure to select only AD servers that your gateway works with.

4. Click **Next**.
To hide the VPN domain:
Select **Hide VPN domain behind this gateway’s external IP**.
Select this option only if you want to hide all internal networks behind this gateway’s external IP. All outgoing traffic from networks behind this gateway to other sites that participate in VPN community will be encrypted.

With this option, connections that are initiated from other sites that are directed to hosts behind this gateway will **not be encrypted**. If you need access to hosts behind this gateway, choose other options (define VPN topology) or make sure all traffic from other sites is directed to this gateway’s external IP and define corresponding NAT port-forwarding rules, such as: Translate the destination of incoming HTTP connections that are directed to this gateway’s external IP to the IP address of a web server behind this gateway.

To create a new VPN domain group:
1. Make sure that the **Create a new VPN domain** option is selected.
2. In the **Name** field, enter a name for the group.
3. From the **Available objects** list, select the applicable objects and click **Add**. The objects are added to the VPN domain members list.

To select a predefined VPN domain:
1. Click **Select an existing VPN domain**.
2. From the **VPN Domain** list, select the domain.
3. Click **Next**.
   In the Installation Wizard Completion page, you see a summary of the configuration parameters you set.
4. If you want to configure more options of the Security Gateway, select **Edit Gateway properties for further configuration**.
5. Click **Finish**.
The General Properties window of the newly defined object opens.

Defining a Gateway Cluster Object

A Check Point 1430/1450 Appliance security gateway cluster is a group of 2 members each representing a separate Check Point 1430/1450 Appliance on which High Availability software has been installed. ClusterXL is the Check Point clustering solution. Third party OPSEC Certified clustering products are not supported.

High Availability

High Availability allows organizations to maintain a connection when there is a failure in a cluster member. Only one machine is active (Active/Standby operation) in this configuration. Load sharing is not supported on this appliance.

Prerequisites

General overview of the process - During Cluster configuration only a “Gateway First” installation path is supported. Therefore, the gateways must be configured first using their actual IPs. Only afterward should the cluster object be created in SmartDashboard or SmartProvisioning, and the following policy installation from the Security Management Server will alert the gateways to the fact that they are configured as cluster members.

Before you define a Check Point 1430/1450 Appliance cluster:

Make sure you have defined all of the network interfaces in use for each of the Check Point 1430/1450 Appliance gateways. The interfaces must be defined within the same subnet. To verify definitions, access the WebUI of the appliance.

These actions are only required to work with the Cluster Wizard in SmartDashboard:

- Make sure a cable is connected between the two LAN2/SYNC ports of both appliances. You do not need to assign them IPs as those will be created automatically later. If you do assign them, make sure the LAN2/SYNC interfaces use the same subnet.
  
  You can use a different SYNC interface other than LAN2. Refer to sk52500
  
  http://supportcontent.checkpoint.com/solutions?id=sk52500 for details [you will be able to use the Cluster Wizard in SmartDashboard but you will need to make further adjustments to the cluster object before policy installation].
• The Cluster Wizard assumes that the WAN interface will be part of the cluster. Make sure the WAN interfaces in each of the gateways are configured with a static IP of a matching subnet.

• When you configure the appliances that will be used in the cluster, make sure to set both of the appliances with the same one-time password used for authenticating and establishing trusted communication. Without this, you will not be able to use the Cluster Wizard in SmartDashboard and you will need to create the cluster object using Classic Mode. Trusted communication without authentication is not supported on Check Point 1430/1450 Appliance cluster members.

Creating a Cluster for New Gateways

To create a cluster for new gateways:
• Set up and configure the Check Point 1430/1450 Appliance gateways.
• Create and configure the cluster object in SmartDashboard that represents the gateways.

Configuring the Check Point 1430/1450 Appliance Gateways

Full instructions on setting up and connecting the Check Point 1430/1450 Appliance appear in the Check Point 1430/1450 Appliance Getting Started Guide.

This is the general workflow:
1. Connect your computer to the Check Point 1430/1450 Appliance on its LAN1 interface.
2. Configure your computer to get an IP address automatically.
3. Launch your Web browser, and connect to: http://my.firewall

When you configure two Check Point 1430/1450 Appliance gateways from your web browser, connect only one to a power source. Follow the instructions below to configure it and then disconnect it from the power source. Then do the same for the second appliance and reboot it at the end.

If you do not follow these instructions, you cannot use the http://my.firewall URL correctly and you will need to connect using the gateway’s actual IP address. (That IP address is initially 192.168.1.1 on LAN1 before you configure it with the Check Point 1430/1450 Appliance).

After you configure and connect both appliances to a power source, install a policy and renew the dynamic IP of the computer. You can then use http://my.firewall to access the active member of the cluster.

4. Follow the steps to configure the Check Point 1430/1450 Appliance with the First Time Configuration Wizard.

5. On the appliance’s local network, configure the cluster SYNC interface on the same subnet as the SYNC interface of the second cluster member (use a cross Ethernet cable for SYNC interface connection).

When you use the SmartDashboard cluster wizard, the LAN2 interface is the SYNC interface between cluster members. You do not have to configure an IP on LAN2 at any stage of the gateway side configuration. If you do not configure them, LAN2 SYNC interfaces are automatically set to 10.231.149.1 and 10.231.149.2. To set a different SYNC interface (not LAN2), refer to sk52500 http://supportcontent.checkpoint.com/solutions?id=sk52500.

Remember the one-time password. You will need it to configure the cluster in SmartDashboard. It must be the same on both clusters.
IP addresses must be configured on both cluster members before you open SmartDashboard and run the Cluster configuration wizard. To configure IPs in interfaces other than WAN and LAN1, do so in each gateway’s WebUI application with the Internet or Local Network pages. Make sure that for each interface that is part of the cluster, you configure an IP in the same subnet as the second cluster member.

**Configuring the Cluster Object in SmartDashboard**

To create a cluster for two new Check Point 1430/1450 Appliance gateways:

1. Log in to SmartDashboard with your Security Management credentials.
2. From the Network Objects tree, right click Check Point and select Security Cluster > Small Office Appliance.
   The Check Point Security Gateway Cluster Creation dialog box opens.
3. Select Wizard Mode.
   The wizard opens to General Properties.
4. Enter a name for the Check Point 1430/1450 Appliance cluster.
5. Click Next.
   The wizard opens to Cluster Members.
6. In the First Member and Second Member sections, enter a Member name and Member IP address.
   If you want to check the communication and connectivity, clear the Define the second cluster member now check box. This allows you to complete the wizard definitions for the first member only.
7. Enter and confirm the One-time password to establish initial trust.
   When trust is established, it is based on security certificates. This password must be identical to the same one-time password defined for both members in their appliances’ First Time Configuration Wizard or WebUI.
8. Click Next.
   The wizard opens to Cluster Interface Configuration.
   When you configure the WAN interface, you cannot disable High Availability. (For other configurations, edit the Cluster object later).
   If the WAN interface was not defined, edit the Cluster object in SmartDashboard with the wizard and select a correct main IP for the cluster object. (This IP is used, for example, in VPN as one of the Link selection options).
9. Enter a virtual IP Address and Net Mask for the cluster. The virtual IP will be applied in the next policy installation.
10. Click Next.
11. To enable High Availability on the interface, select the Enable High Availability on <name> interface checkbox. <name> shows the network interface defined in the Check Point 1430/1450 Appliance.
12. When High Availability is selected, enter a virtual IP Address and Net Mask for the cluster. The virtual IP will be applied in the next policy installation.
13. Click Next.
14. Repeat steps 12 - 14 for each defined interface.
15. Click Finish or select Edit Cluster in Advanced mode to further configure the cluster.
**Cluster Interface Configuration**

In the Cluster Interface Configuration window you define if a network interface on the Check Point 1430/1450 Appliance is part of the security gateway cluster. This window shows for each network interface that was configured in the Check Point 1430/1450 Appliance. The total number of interfaces configured for the gateway shows in the window title. For example, if 3 interfaces have been configured for the gateway, a total of 3 windows will require configuration. The first window displays (1 of 3 interfaces). The name of the interface you are currently configuring shows in the Interface column.

Each network interface (on both members) has a unique IP address. If High Availability is enabled on the interface, then the cluster requires an additional unique virtual IP address. This IP address is visible to the network and ensures that failover events are transparent to all hosts in the network.

When High Availability is not enabled, the interface is considered not-monitored private (i.e. it is not cluster related).

You can configure High Availability for all network interfaces except for the WAN interface. By default, the WAN interface is always part of the cluster. If you do not want the WAN interface to be part of the cluster, double-click on the Check Point 1430/1450 Appliance security gateway cluster object, and select **Topology node > Edit Topology**.

If the WAN interface was not defined, edit the Cluster object in SmartDashboard with the wizard and select a correct main IP for the cluster object. (This IP is used, for example, in VPN as one of the Link selection options).

The breadcrumb image at the top of the window shows you the interface you are currently configuring. You do not configure the LAN2 interface as it is automatically configured by the wizard and is used only for the SYNC interface. Make sure a cable is connected between the two LAN2/SYNC ports of both appliances.

The image at the bottom of the page shows if the interface is set for High Availability. When you configure High Availability, the physical IPs of both members meet at a point indicated by the cluster’s virtual IP address.

To configure more advanced options for interfaces:

1. Click **Edit Cluster in Advanced mode** at the end of the wizard.
2. Edit the topology of the cluster and make the necessary changes.

**Converting an Existing Check Point 1430/1450 Appliance to a Cluster**

Do these procedures to convert an existing Check Point 1430/1450 Appliance to a cluster.

**Note** - The procedures require some downtime.

Terms used:

- **GW** - the existing Check Point 1430/1450 Appliance gateway object that has already established trust and has an installed policy.
- **Cluster** - the new Check Point 1430/1450 Appliance cluster object that you will create.
- **GW_2** - the new cluster member object that will join the existing gateway.
To configure the new appliance **GW_2** with the First Time Configuration Wizard:

1. Make sure to configure the actual IP addresses and not the virtual IP addresses that are used by the existing gateway **GW**.
2. Clear the **Enable switch on LAN ports** checkbox.
   
   If you do not do this, the default switch configuration will be automatically removed during the cluster’s first policy installation, as it is not supported in a cluster configuration.
   
   **Note** - It is more secure to remove the switch configuration before initial policy installation.
3. Configure the **LAN2 port** (used for cluster synchronization) with an IP address that is in the same network as the other cluster member. It is recommended to assign a static IP address for the sync interface.
4. Do not fetch the policy from the Security Management Server.

To create and configure the cluster in SmartDashboard:

1. Use the wizard to create a new Check Point 1430/1450 Appliance cluster.
2. Define the IP address as the IP used by the existing gateway **GW**.
3. Define the first member with **GW_2**’s IP address.

   **Important** - Do not define the second member using the wizard.
4. Establish trusted communication.
5. Define all the IP addresses of the clustered interfaces. Use the existing gateway **GW** IP address as the virtual IP of the cluster.
6. At the end of the wizard, select the **Edit the cluster in Advanced Mode** checkbox.
7. In Advanced Mode, enter all the relevant configuration settings from the **GW** to the cluster object.

To reconfigure the existing Check Point 1430/1450 Appliance:

1. In the WebUI, go to the **GW** and connect to it.
2. Reconfigure the IP addresses of the clustered interfaces with the actual IP addresses that will be used by the gateway as a member of the cluster.

   **Important** - Downtime starts.

To configure the cluster in SmartDashboard:

1. Change the main IP and the IPs that appear in the topology table of the **GW** object.
2. Install policy on **Cluster**.

   **Important** - Downtime ends. At this point, the cluster contains only one member, **GW_2**.
3. Go to **Cluster Members > Add > Add existing gateway** and edit the **Cluster** object.
4. If **GW** does not show in the list, press **Help** and make sure **GW** doesn’t match any of the categories that prevent it from being added to a cluster.

   **Note** - Use the information on this Help page to determine if there are any configuration settings you want to copy to the new **Cluster** object.
5. Under the new GW object, click **Topology > Get Topology** to edit the topology of the **Cluster** object.
6. Install policy on **Cluster**.
Viewing Cluster Status in the WebUI

After you complete policy installation on the Check Point 1430/1450 Appliance gateway and the gateway works as a cluster member, you can view cluster status in the WebUI application (Device > High Availability).

Creating the Security Policy

Working with Security Zone Objects

A security zone object is a logical object that represents the network behind a specified interface. For example, an InternalZone object represents the internal network IPs that lie behind all of the internal gateway’s interfaces.

You can use security zone objects to create a generic Security Policy and reduce the amount of rules necessary in the Rule Base. This Security Policy can be applied to numerous Check Point 1430/1450 Appliance gateways. Resolution of the security zone is done by the actual association on the Check Point 1430/1450 Appliance gateway object in SmartDashboard.

Workflow
1. Associate a security zone object with an interface on the gateway object.
2. Use the security zone object in a rule.
3. Install policy.

To associate a security zone object with an interface on the gateway object:
1. In SmartDashboard, from the Network Objects tree double-click a Check Point 1430/1450 Appliance gateway object.
2. From Topology, select the applicable interface and click Edit. The Interface Properties window opens.
3. Select one of the predefined Security Zone options.
4. If you want to create a new zone, click New, fill in the details and click OK.
5. Click OK.
   The Check Point 1430/1450 Appliance Gateway General Properties is shown.
6. Click OK.

To create a rule with a security zone:

After you have associated a security zone object to the applicable interface on the gateway, you can use it in a rule. To create a rule with a security zone just add the security zone object to the Source or Destination cell.

For example, to create a rule that allows internal users access to any external network, create a rule with these fields:

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<td>Destination</td>
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<td>Action</td>
<td>accept</td>
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<td>Install On</td>
<td>gateway object or SmartLSM profile</td>
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1. Open the Firewall > Policy page.
2. Use the Add Rule buttons to position the rule in the Rule Base.
3. Enter a Name for the rule.
4. In the Source field, right-click the + icon, click Network Objects, select InternalZone from the list, and click OK.
5. In the Destination field, right-click the + icon, click Network Objects, select ExternalZone from the list, and click OK.
6. In the Action field, select accept.
7. Right-click the Install On field, select Add > Targets, and select the gateway object or SmartLSM profile.

Installing a Security Policy

Use this procedure to prepare the policy for automatic installation when the gateway connects.

Note - If Check Point 1430/1450 Appliance has been physically set up and configured, when you successfully complete this step, the policy will be pushed to the gateway. For a list of possible statuses, see Viewing the Policy Installation Status (on page 20).
At the end of the Install Policy process, the policy status for a Check Point 1430/1450 Appliance that has not yet been set up is “waiting for first connection.” This implies that trusted communication has not yet been established between the Security Management Server and the Check Point 1430/1450 Appliance. When the gateway connects it establishes trust and attempts to install the policy automatically.

1. Click **Policy > Install** from the menu.
   The Install Policy window opens.

2. Choose the installation targets - the Check Point 1430/1450 Appliance Security Gateways on which the policy should be installed and the policy components (such as Network Security or QoS).
   By default, all gateways that are managed by the Security Management Server are available for selection.

3. In the Installation Mode section, select how the Security Policy should be installed:
   - On each selected gateway independently
   - On all selected gateways, if it fails do not install on gateways of the same version

4. Click **OK**.
   The Installation Process window shows the status of the Network Security Policy for the selected target.

   **Important** - If the Check Point 1430/1450 Appliance object is defined by the appliance is not set up and it is in the “Waiting for first connection status”, you will see a message that says “Installation completed successfully”. This means that the policy is successfully prepared for installation.

   Continue tracking the status of the Security Policy installation with the Policy Installation and the status bar (“Viewing the Policy Installation Status” on page 20).

**Viewing the Policy Installation Status**

You can see the installation status of managed gateways with the status bar that shows at the bottom of the SmartDashboard window. The status bar shows how many gateways are in Pending or Failed mode.

- Pending - gateways that are in the waiting for first connection status or are in the pending status (see below for detailed explanations).
- Failed - gateways that have failed to install the policy.

The status bar is updated dynamically each time a gateway tries to install a policy or tries to connect to the Security Management server. The results of these actions are also shown in SmartDashboard popup notification balloons when such events occur. You can configure these notifications.

To monitor the status of the last policy installed on each gateway, you can use the Policy Installation Status window.

The window has two sections. The top section shows a list of gateways and status details regarding the installed policy. You can use the filter fields to see only policies of interest and hide other details by defining the applicable criteria for each field. After you apply the filtering criteria, only entries that match the selected criteria are shown. If the system logs trusted communication (SIC) attempts from unknown gateways, a yellow status bar opens below the filter fields.
The bottom section shows details of a row you select in the gateway list (errors that occurred, the date the policy was prepared, verification warnings). If there is a yellow status bar, clicking **Show details** shows the details of unknown gateways trying to connect to the Security Management Server.

These are the different statuses in this window:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Policy status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Green Checkmark" /></td>
<td>Succeeded</td>
<td>Policy installation succeeded.</td>
</tr>
<tr>
<td><img src="image" alt="Green Checkmark with Exclamation Mark" /></td>
<td>Succeeded</td>
<td>Policy installation succeeded but there are verification warnings.</td>
</tr>
</tbody>
</table>
| ![Information Symbol](image) | Waiting for first connection | A Check Point 1430/1450 Appliance object is configured, but the gateway is not connected to the Security Management Server (initial trust is not established).  
- If a policy is prepared, it is pulled when the gateway is connected.  
- If a policy is not prepared, the Policy Type column shows "No Policy Prepared." When the gateway is first connected, only trust is established. |
<p>| <img src="image" alt="Information Symbol with Exclamation Mark" /> | Waiting for first connection | Same as above, with warnings that attempts to establish trust failed or there are verification warnings. |</p>
<table>
<thead>
<tr>
<th>Icon</th>
<th>Policy status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Pending</td>
<td>The policy remains in the pending status until the Gateway successfully connects to the Security Management server and retrieves the policy. This status is shown only if there was at least one successful policy installation. For example, when the Security Management server has problems connecting to the Gateway (the Gateway is unavailable for receiving communication, as in behind NAT).</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Pending</td>
<td>Same as above but there are verification warnings.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Warning</td>
<td>Warning.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Information</td>
<td>Information.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Failed</td>
<td>Policy not installed due to a verification error.</td>
</tr>
<tr>
<td><img src="image" alt="Icon" /></td>
<td>Failed</td>
<td>Policy installation failed.</td>
</tr>
</tbody>
</table>

You can access the Policy Installation Status window in these ways:

- From the menu bar - Click Policy > Policy Installation Status.
- From the toolbar - Click the Policy Installation Status icon.
- From the status bar - Click Failed or Pending. The contents of the Policy Installation Status window are shown filtered according to the link clicked.
- From notification balloons - Click See Details in the balloon.

### Setting Server IP Behind a 3rd Party NAT Device

When you use the Management First deployment scenario, the policy is prepared to be fetched by appliances when they are configured.

During each appliance’s first time configuration, the routeable IP address of the Security Management Server is manually configured to create a first connection.

When SIC is established between the appliance and Security Management Server, the policy is fetched for the first time. Then, an automatic mechanism calculates the routeable IP address of the Security Management Server for the periodic policy fetch attempts. However, if the Security Management Server is located behind a 3rd party NAT device, the automatic mechanism fails.

In such cases, it is possible to manually determine the routeable IP address of the Security Management Server, not only for the first connection. It is possible to request that the appliance always attempt a connection with a manually configured IP address. You can configure this from the First Time Configuration Wizard - Security Management Server Connection page (select Always use this IP address and enter the IP address) or from the WebUI Home > Security Management page.
Creating a Gateway

Make sure you have a SmartLSM Security Profile for Small Office Appliance gateways defined in SmartDashboard before you create a gateway in SmartProvisioning.

To create a new gateway:

1. Open SmartProvisioning.
2. In the Devices page, right-click an empty row in the table, select New SmartLSM > Check Point 1430/1450 Appliance Gateway. The SmartLSM Security Gateway General Properties page opens.

General Properties

1. Enter a Name for the SmartLSM Security Gateway. It cannot contain spaces or non-alphanumeric characters.
2. Enter an optional Comment that identifies the SmartLSM Security Gateway.
3. Click Next.

More Information

1. In SmartLSM gateway, select the firmware version of the installed Small Office Appliance.
2. In Security Profile, select the relevant SmartLSM gateway profile that the SmartLSM Security Gateway is mapped to.
3. In OS, make sure the operating system selection is Small Office Appliance.
4. In Enable Provisioning, select this checkbox to enable this gateway to be managed with provisioning configurations. For more information, see Managing Device Settings (on page 31).
5. In No Provisioning Profile, select this option if you want to enable provisioning but are not yet ready to assign a specific profile.
6. In Provisioning Profile, select the provisioning profile to assign to this gateway, from the list of profiles created in SmartProvisioning.
7. Click Next.
Communication Properties

In the Communication Properties page, you define an Activation Key that is used to set up Secure Internal Communication (SIC) Trust between the SmartLSM Security Gateway and the Security Management Server. This is the same key that you should enter in the one-time password field of the Security Management Server Authentication page of the Check Point 1430/1450 Appliance, First Time Configuration Wizard.

To generate a key automatically:
1. Select **Generate Activation Key automatically**.
2. Click **Generate**.
   The Generated Activation Key window opens.
3. Click **Accept**.
   The two Activation Key fields show the new key in hidden text. You cannot view it in clear text again. If you click **Cancel**, the generated key is discarded.

To manually define an activation key:
1. Select **Activation Key**.
2. Enter your own key, a string of any length.
3. In **Confirm Activation Key**, enter the key again. You cannot copy the text from the first field.
   To clear the key, click **Clear**.

To initialize certification:
The SIC certificate must be shared between the Security Management Server and the SmartLSM Security Gateway. With this SmartLSM wizard, you create the key on the Security Management server (the SIC certificate and the IKE certificate for the selected gateway are created when you finish this wizard). The certificate will be pulled by the gateway when it first connects to the Security Management Server after it is configured with the Check Point 1430/1450 Appliance First Time Configuration Wizard.

1. If you know the IP address of the SmartLSM Security Gateway, select **This machine currently uses this IP address**, and enter the IP address.
2. If you do not know the IP address of the SmartLSM Security Gateway, select **I do not know the current IP address**.
3. Click **Next**.

VPN Properties

1. Select how to create a VPN certificate:
   - For a CA certificate from the Internal Check Point CA, select **I wish to create a VPN Certificate from the Internal CA**.
   - For a CA certificate from a third party (for example, if your organization already has certificates from an external CA for other devices), clear this checkbox and request the certificate from the appropriate CA server.
2. Click **Next**.
Finish

1. Select **Edit SmartLSM gateway properties after creation** to start working with the newly created object.
2. Click **Finish** to complete the SmartLSM Security Gateway creation.

After the SmartLSM Security Gateway object has been created:

- Update the Corporate Office Gateway.
- If the VPN option was selected in the VPN Properties page, the Certificate Authority issues a certificate to the appliance. This certificate is installed on the appliance the first time that the SmartLSM Security Gateway connects to the Security Management Server.

To update the Corporate Office Gateway:

1. Select **Update Corporate Office Gateway** from the toolbar.
2. Select the **Corporate Office Gateway** from the list.

   It is important that the Corporate Office Gateway be updated whenever SmartLSM Security Gateways are added, deleted, or modified (such as the generation of a new IKE key, a Push Policy action, or a Push Dynamic Objects action).

Creating a SmartLSM Appliance Cluster

Make sure you have a SmartLSM cluster profile defined in SmartDashboard before you create a Small Office Appliance cluster in SmartProvisioning.

To create a new SmartLSM Security Cluster:

1. Open SmartProvisioning.
2. In the **Devices** page, right-click an empty row in the table, select **New SmartLSM > Small Office Appliance Cluster**.
   The SmartLSM Security Gateway General Properties page opens.

General Properties

1. Enter a unique **Cluster Name Prefix** (Suffix is optional).
   The SmartLSM Security Cluster name will be: <prefix>cluster<suffix>.
2. In **Cluster Main IP Address**, enter the real external virtual IP address for your actual gateway cluster.

3. Click **Next**.

### Cluster Properties

1. In **Version**, select the firmware version for the Check Point 1430/1450 Appliance.
2. In **Security Profile**, select the SmartLSM Cluster Profile that was created in SmartDashboard (in the example ClusterProfile1).
3. In **Enable Provisioning**, select this checkbox to enable this gateway to be managed with provisioning configurations. For more information, see Managing Device Settings (on page 31).
4. In **No Provisioning Profile**, select this option if you want to enable provisioning but are not yet ready to assign a specific profile.
5. In **Provisioning Profile**, select the provisioning profile to assign to this gateway, from the list of profiles created in SmartProvisioning.

![Provisioning Profile screenshot]

6. Click **Next**.

**Cluster Names**

The cluster members’ names are shown with the configured prefix.

![Cluster Names screenshot]

Click **Next**.
More Information

1. Click **Edit** to override the settings of the template topology on each of the interfaces. For example, select WAN and click Edit.

![Interface Settings](image)

The interface’s window opens.

![Network Settings](image)
2. In **IP Address Override**, enter the actual network IP address to override the template Network address.

![Network Configuration](image)

3. Click **OK** and do the above steps again for all the interfaces.

4. Click **Next**.

**Communication Properties**

1. Select a member and click **Initialize**. Enter the trusted communication (SIC) details and click **OK**.

![Communication Configuration](image)

2. Do this step again for the second member.

3. Click **Next**.
VPN Properties

1. Select how to create a VPN certificate:
   - For a CA certificate from the Internal Check Point CA, select *I wish to create a VPN Certificate from the Internal CA.*
   - For a CA certificate from a third party (for example, if your organization already has certificates from an external CA for other devices), clear this checkbox and request the certificate from the appropriate CA server.

2. Click Next.

Finish

1. Click Finish. After the wizard finishes, wait until the SIC initialization completes. It can take a few minutes. When it completes, you see the cluster object and its two members. When you double-click the cluster object you can see that the topology is configured with the actual addresses.

2. On each Check Point 1430/1450 Appliance, open the WebUI Home > Security Management page and click Fetch Policy to manually pull the policy immediately. Alternatively, the appliance connects to the Security Management Server at predefined periodic intervals to pull the policy.

Defining SmartLSM Gateways Using LSM CLI

This is a sample SmartLSM CLI script that you can use to create a new gateway object and associate it with a SmartLSM profile. Optionally, you can also set a SIC password and initiate a SIC connection.

```
LSMcli <server> <user> <password> AddROBO CPSG80 <RoboName> <Profile> [-O=<ActivationKey> [-I=<IP>]]
```

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;server&gt;</td>
<td>The Security Management Server on which to create the gateway object</td>
</tr>
<tr>
<td>&lt;user&gt;</td>
<td>The username of the Security Management Server administrator</td>
</tr>
<tr>
<td>&lt;password&gt;</td>
<td>The password of the Security Management Server administrator</td>
</tr>
<tr>
<td>&lt;RoboName&gt;</td>
<td>The name for the new gateway object</td>
</tr>
</tbody>
</table>
Managing Device Settings

You can manage device settings directly on individual gateways or you can use a SmartProvisioning Profile to manage multiple gateways. For more information about provisioning profiles and creating them, see the SmartProvisioning Administration Guide http://supportcontent.checkpoint.com/documentation_download?ID=24829.

The below device settings are unique to Check Point 1430/1450 Appliance. They can be defined directly on the device or through the profile. Their tabs are:

- Firmware
- RADIUS
- Hotspot
- Configuration Script

Configuring Firmware

This section explains how to configure firmware installation settings for the provisioning profile for Check Point 1430/1450 Appliance. When you configure firmware settings on a Provisioning Profile, you give the configuration for all Check Point 1430/1450 Appliance appliances that reference this profile.

Firmware configuration lets you replace the firmware on the Security Gateway. The Security Gateway version must match its SmartLSM profile’s version as defined in SmartDashboard for correct policy behavior. As a result, after firmware upgrade, the SmartLSM profile is replaced with the default SmartLSM security profile.

In some instances, it may be necessary to define exceptions for the default SmartLSM security profile. For example, if you do not want all gateways to use the specified default SmartLSM profile after installation, you can customize different security profiles to replace known security profiles.

Let’s say you have a scenario with these details:

- The default SmartLSM profile after installation is configured to use a SmartLSM profile called "NewLSM".
- After firmware installation, you want the "NewLSM" profile to be installed on all Security Gateways except for gateways that currently use the “GroupA_LSM” profile.
- You want to replace the “GroupA_LSM” profile with a profile called “GroupA_NewLSM”.

In such a scenario, you add an exception that replaces the “GroupA_LSM” profile with the “GroupA_NewLSM” profile.
You can install the firmware with one of these options:

- **Immediately** - Installs the firmware in two steps:
  - Downloads the firmware immediately during the next synchronization with a Security Gateway that references this profile
  - Installs the firmware when the download completes

- **According to time ranges** - You can define download and installation time ranges for the firmware image. The download and installation time can be limited to a specified list of time ranges in the week. They will start at the nearest time range after firmware settings were applied. You can also define that the download will take place immediately as above and only installation will be according to specified time ranges. For example, if the firmware installation settings were applied on Sunday and there are two time ranges:
  - One range is set to Friday 00:00 to Saturday 00:00
  - One range is set to Wednesday 23:00 to Thursday 06:00
  The firmware will be installed between Wednesday 23:00 and Thursday 06:00.

  In the event that the Security Gateway did not succeed to download and/or install the firmware during the nearest time range, it will try again in the next time range.

To configure firmware installation settings on a Provisioning Profile:

1. Open the **Security Gateway Profile** window, and select the **Firmware** tab.
2. Select **Manage firmware centrally from this application**.
3. Click **Advanced**. The Profile Settings window is displayed.
4. Select one of these override profile settings:
   - **Allowed**
   - **Denied**
   - **Mandatory**
   For more information about override profile settings, see Configuring Profile Settings (on page 35).
5. In **Firmware image**, click **Select** to select a firmware image that has been uploaded through SmartUpdate.
6. In **Default SmartLSM Profile after installation**, select the new SmartLSM profile of the Security Gateway (the Security Gateway version must match its SmartLSM profile’s version as defined in SmartDashboard for correct policy behavior). The Security Gateway will replace its SmartLSM profile after successful firmware installation and only if the new firmware version is different from the version you have now.
7. If necessary, click **Exceptions** to choose a new SmartLSM profile for Security Gateways with a specified SmartLSM profile.
   - **Add/Edit** - Click **Add** or **Edit** to open the **Exceptions** window to define/change an exception for a SmartLSM profile replacement. SmartLSM profiles will not be shown unless they are from a version higher than R71.
     - **Current SmartLSM Profile** - Select a SmartLSM profile from the list. A SmartLSM profile is shown only if the version is not R71 and not the selected firmware version. Make sure you have installed policy for the SmartLSM profile in SmartDashboard.
- **SmartLSM Profile after installation** - Select a SmartLSM profile that will replace the SmartLSM profile after the firmware image installation. A SmartLSM profile is shown only if the version is the same as the selected firmware version. Make sure you have installed policy for the SmartLSM profile in SmartDashboard.

- **Remove** - Click to remove a SmartLSM profile exception setting.

8. Select one of the options to install the firmware:
   a) **Immediately** - Downloads the firmware immediately but installs it in the next synchronization with a Security Gateway that references this profile.
   b) **According to these time ranges** - Select to use the Security Gateway time or local time.
      - **Add/Edit** - Click Add or Edit to open the Time Range window to define/change the weekdays and times for downloading and installing the firmware image. Select the days and times and click **OK**.
      - **Remove** - Select a range from the list and click **Remove** to delete a time range.
      - **Download image immediately** - Click this option to download the firmware image immediately but install the image during one of the set time ranges.

9. Click **Show profile settings** - to see the settings of the Provisioning Profile that this gateway references.

10. Click **OK**.

**Configuring RADIUS**

You can configure the RADIUS server (Remote Authentication Dial In User Service) that provides authentication, authorization, and accounting for Check Point 1430/1450 Appliance gateways. By configuring RADIUS in the Provisioning Profile, you can configure it once for all gateways that reference this profile. The RADIUS server must be already defined as a SmartDashboard object.

You can configure your appliance to contact more than one RADIUS server. If the first server in the list is unreachable, the next RADIUS server in the list is contacted to authenticate with.

To configure RADIUS settings on a Provisioning Profile:

1. Open the **Security Gateway Profile** window, and select the **RADIUS** tab.
2. Select **Manage RADIUS settings centrally from this application**.
3. Click **Advanced**. The Profile Settings window is displayed.
4. Select one of these override profile settings:
   - **Allowed**
   - **Denied**
   - **Mandatory**
   For more information about override profile settings, see Configuring Profile Settings (on page 35).
5. Select **RADIUS is activated on device** to enable RADIUS on the Check Point 1430/1450 Appliance.
6. Click **Add** to add RADIUS servers that have been defined in SmartDashboard, select a RADIUS server from the list and click **OK**.
7. To remove a server, select a server in the list and click **Remove**.
8. Use **Up** and **Down** to set the priority used for contacting RADIUS servers.
9. Click **Allow administrators from specific RADIUS groups only (comma separated)** to allow authentication from specified groups as defined on the RADIUS server. Only administrators belonging to those groups can get access.

10. Click **OK**.

### Configuring Hotspot

To configure hotspot settings on a Provisioning Profile:

1. Open the **Security Gateway Profile** window, and select the **Hotspot** tab.
2. Select **Manage Hotspot settings centrally from this application**.
3. Click **Advanced**. The Profile Settings window is displayed.
4. Select one of these override profile settings:
   - **Allowed**
   - **Denied**
   - **Mandatory**
   
   For more information about override profile settings, see Configuring Profile Settings [on page 35].
5. Select **Hotspot is activated on device** to activate the hotspot.
6. Configure the fields:
   - **Portal Title** - Keep the default or enter a different title.
   - **Portal message** - Keep the default or enter a different message.
   - **Terms of use** - Select this checkbox to add an “I agree with the following terms and conditions” checkbox on the Hotspot portal page. Enter the terms and conditions text in the text box. When users will click the “terms and conditions” link, the entered text will be shown.
   - **Require Authentication** - To require user authentication, select the checkbox.
   - **Allow users from specific group** - Select to allow access to a specific user group and not all users. Enter the group’s name in the text box.
7. Click **Apply**.

### Configuring a Configuration Script

To configure a configuration script on a Provisioning Profile:

1. Open the **Security Gateway Profile** window, and select the **Configuration Script** tab.
2. Select **Manage Configuration Script centrally from this application**.
3. Click **Advanced**.
   
   The **Profile Settings** window opens.
4. Select one of these override profile settings (“**Configuring Profile Settings**” on page 35):
   - **Allowed**
   - **Denied**
   - **Mandatory**
5. In **Configuration Script**, enter a script to run on the Check Point 1430/1450 Appliance gateway.
6. Click **Apply**.
Configuring Profile Settings

For each set of configurations that can be managed with a Provisioning Profile, you can decide which settings will have preference: local (not provisioned) or central (from Smart Provisioning individual management or from Provisioning Profile).

To determine profile settings:

1. In the Profiles List, right-click a profile and select Edit Provisioning Profile.
2. In the Profile window, click any category tab (other than General).
3. Decide whether this Provisioning Profile will provide central management of the setting to gateways that reference the profile:
   - **Manage settings locally on the device**: Select this option if each gateway that references this profile should have its own settings, configured locally (not on Smart Provisioning), which cannot be overwritten by changes to the Provisioning Profile or to the Smart Provisioning gateway object. If you choose this option, the Gateway window will show: settings are defined to be managed locally on the device.
   - **Manage settings centrally from this application**: Select this option if each gateway that references this profile should get its configuration for this setting from the Provisioning Profile or from the Smart Provisioning gateway object.
4. If you select to manage settings centrally, click Advanced. The Profile Settings window opens.
5. Select an option for Overriding profile settings on device level is:
   - **Allowed**: You can override the profile settings with device-local settings, or with changes to these settings in the Smart Provisioning device window; or you can leave the profile settings as they are.
   - **Denied**: Each gateway takes the settings from the profile, with no option to override the profile settings.
   - **Mandatory**: Each gateway provides is managed without a Provisioning Profile.
6. Click OK.

The choice you make here determines the functionality of the Gateway window, for the type of device configuration for which you made this profile setting.

For example, if you set Hosts configuration to Central and Allowed: the Hosts tab on the gateway will enable you to manage the Host List of a gateway by:
   - Provisioning gateways with the Host List of the Provisioning Profile
   - Defining a new Host List (in the Gateway window) that overrides the Provisioning Profile on this gateway
   - Defining the Host List locally on the device (even if it has an assigned Provisioning Profile)
The table below maps the selections in the **Profile Settings** to the displayed options in the Gateway windows.

### Local or Central Management of Provisioned Gateways

<table>
<thead>
<tr>
<th>Profile managed</th>
<th>Profile Override</th>
<th>Gateway Window Display and options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locally</td>
<td>Not relevant</td>
<td><strong>Settings are defined to be managed locally on the device. To change this, refer to Provisioning Profile</strong> <code>profile_name</code>. (controls are unavailable)</td>
</tr>
<tr>
<td>Centrally</td>
<td>Override denied</td>
<td><strong>Data must be taken from profile</strong> (controls are Read-Only, configured by profile)</td>
</tr>
<tr>
<td>Centrally</td>
<td>Override allowed</td>
<td>Select override method:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Manage settings locally on the device</strong>: Local management; override provisioning configurations with local settings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Use profile settings</strong>: Enforce profile settings on this gateway.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Use the following settings</strong>: Manage these settings on this gateway individually with the values given here.</td>
</tr>
<tr>
<td>Centrally</td>
<td>Override mandatory</td>
<td><strong>Overriding profile settings is mandatory: configure settings here.</strong> (Each gateway is configured separately)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Manage settings locally on the device</strong>: Manage these settings on this gateway locally.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- <strong>Use the following settings</strong>: Manage these settings on this gateway individually with the values given here.</td>
</tr>
</tbody>
</table>

**Warning** - If the **Use the following settings** option is selected and no values are entered for a specific topic, the current settings on the device will be deleted.
Deploying from a USB Drive

In This Section:

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- Preparing the Configuration Files ...................................................... 38
- Deploying the Configuration File - Initial Configuration .................. 38
- Deploying the Configuration File - Existing Configuration ............... 39
- Viewing Configuration Logs ................................................................. 40
- Troubleshooting Configuration Files .................................................. 40
- Using the set property Command ....................................................... 41

You can deploy Check Point 1430/1450 Appliance configuration files using a USB drive and quickly configure many appliances without using the First Time Wizard. The configuration file lets you configure more settings and parameters than are available in the First Time Wizard.

You can deploy configuration files in these conditions:

- An appliance with default settings is not configured at all
- An appliance that already has an existing configuration

Check Point 1430/1450 Appliance starts, automatically mounts the USB drive, and checks the root directory for a configuration file.

Note - The USB drive must be formatted in FAT32.
Sample Configuration File

This is a sample Check Point 1430/1450 Appliance configuration file for USB deployment.

```bash
set time-zone GMT+01:00 (Amsterdam/Berlin/Bern/Rome/Stockholm/Vienna)
set ntp server primary 10.1.1.10
set ntp server secondary

set user admin type admin password aaaa
set interface WAN ipv4-address 10.1.1.134 subnet-mask 255.255.255.192 default-gw 10.1.1.129

delete interface LAN1_Switch

set dhcp server interface LAN1 disable
set interface LAN1 ipv4-address 10.4.6.3 subnet-mask 255.255.255.0

add interface LAN1 vlan 2
set dhcp server interface LAN1:2 disable
set interface LAN1:2 ipv4-address 10.4.3.3 subnet-mask 255.255.255.0

set dhcp server interface LAN2 disable
set interface LAN2 ipv4-address 192.168.254.254 subnet-mask 255.255.255.248
set interface LAN2 state on

set admin-access interfaces WAN access allow

set hostname DEMOgw01
set sic_init password aaaa
fetch certificate mgmt-ipv4-address 10.1.1.82 gateway-name DEMOgw01
fetch policy mgmt-ipv4-address 10.1.1.82
```

Preparing the Configuration Files

The Check Point 1430/1450 Appliance Massive Deployment configuration files are composed of CLish commands. These are the file names that can be used:

- `autoconf.clish`
- `autoconf.XX-XX-XX-XX.clish`

You can create multiple configuration files for different Check Point 1430/1450 Appliance gateways. Name each file according to the MAC address of each appliance. Check Point 1430/1450 Appliance first searches for a configuration file with the same MAC address. If there is no file that matches the MAC address of the appliance, the `autoconf.clish` configuration file is loaded.

Deploying the Configuration File - Initial Configuration

This section describes how to deploy a configuration file on a USB drive to Check Point 1430/1450 Appliance. The file must be correctly configured and formatted before being deployed. The USB drive can be inserted in the front or the rear USB port. Make sure it is formatted in FAT32.

You can deploy the configuration file to Check Point 1430/1450 Appliance when the appliance is off or when it is powered on.
Deploying from a USB Drive

**Important** - Do not remove the USB drive or insert a second USB drive while the Check Point 1430/1450 Appliance configuration script is running. Otherwise, it is possible that Check Point 1430/1450 Appliance does not configure and run correctly.

To deploy the configuration file from a USB drive for the initial configuration:

1. Insert the USB drive into Check Point 1430/1450 Appliance.
   - Check Point 1430/1450 Appliance is OFF - Turn on the appliance. The Power LED comes on and is green.
   - Check Point 1430/1450 Appliance is ON - The appliance automatically detects the USB drive.

   The USB LED comes on and is solid orange.

2. Check Point 1430/1450 Appliance locates the USB configuration file and begins running the script. The USB LED blinks green while the script is running.

3. The configuration script finishes and the Check Point 1430/1450 Appliance USB LED is solid green.

4. Remove the USB drive from Check Point 1430/1450 Appliance.

   **Note** - The USB LED is red when there is a problem running the configuration script. Turn off Check Point 1430/1450 Appliance and confirm that the configuration files are formatted correctly (“Preparing the Configuration Files” on page 38).

   For more information about errors with configuration files, see Troubleshooting Configuration Files (on page 40).

Deploying the Configuration File - Existing Configuration

This section describes how to deploy a configuration file on a USB drive to Check Point 1430/1450 Appliance to edit or update the existing configuration. Use the set property command to set the appliance to use a configuration file on a USB drive. The USB drive can be inserted in the front or the rear USB port.

You can deploy the configuration file to Check Point 1430/1450 Appliance either when the appliance is off or when it is powered on.

**Important** - Do not remove the USB drive or insert a second USB drive while the Check Point 1430/1450 Appliance configuration script is running. Otherwise, it is possible that Check Point 1430/1450 Appliance does not configure and run correctly.

To deploy the configuration file from a USB drive to a configured appliance:

1. From the CLI, enter the command: `set property USB_auto_configuration once`.
   The appliance is set to use a configuration script from a USB drive.

2. Insert the USB drive in the appliance, the appliance automatically detects the USB drive.
   The USB LED comes on and is solid orange.

3. The appliance locates the USB configuration file and begins running the script. The USB LED blinks green while the script is running.
4. The configuration script finishes.
   The USB LED is solid green and the screen displays: System Started.

5. Remove the USB drive from the appliance.
   
   **Note** - The USB LED is red when there is a problem running the configuration script.
   Turn off the appliance and confirm that the configuration files are formatted correctly
   ("Preparing the Configuration Files" on page 38).
   For more information about errors with configuration files, see Troubleshooting
   Configuration Files (on page 40).

**Viewing Configuration Logs**

After Check Point 1430/1450 Appliance is successfully configured from a USB drive, a log is
created.

- The log file is called `autonconf.<MAC>.<timestamp>.<log>
- The log file is created in the USB root directory and in `/tmp` on the appliance.

**Troubleshooting Configuration Files**

This section discusses the scenario where the configuration file fails and the Check Point
1430/1450 Appliance is not fully configured.

**Configuration File Error**

If there is an error and the configuration file fails, the appliance is not fully configured and is no
longer in the initial default condition. The commands in the configuration file that appear before
the error are applied to the appliance. You can examine the configuration log to find where the
error occurred.

When there is a not fully configured appliance, the First Time Wizard is displayed in the Web UI.
However, not all of the settings from the failed configuration file are displayed in the First Time
Wizard. Check Point recommends that you should not use the First Time Wizard to configure an
appliance when the configuration file fails.

   **Note** - You should restore the default settings to a partially configured appliance
   before using the First Time Wizard to ensure that the appliance is configured
   correctly.

**Suggested Workflow - Configuration File Error**

This section contains a suggested workflow that explains what to do if there is an error with the
configuration file on a USB drive. Use the `set property USB_auto_configuration` ("Using
the set property Command" on page 41) command when you are running a configuration file script
on a configured appliance.

1. The USB drive with the configuration file is inserted into a USB port on Check Point 1430/1450
   Appliance.
2. The USB LED on the front panel blinks red. There is a problem with the configuration file
   script.
Sample console output displaying an error
Booting Check Point RD-6281-A User Space...
INIT: Entering runlevel: 3

........sd 2:0:0:0: [sda] Assuming drive cache: write through
sd 2:0:0:0: [sda] Assuming drive cache: write through
.......................................................... System Started...
Start running autoconfiguration CLI script from USB2 ... Error.
autoconf.00-1C-7F-21-07-94.2011-07-21.1248.log was copied to USB2

3. The log file is created and contains the configuration details.
   • The log file is called autonconf.<MAC>.<timestamp>.<log>
   • The log file is created in the USB root directory and in /tmp on the appliance.

4. Analyze the log file to find the problem.

5. If you cannot repair the configuration file:
   a) Remove the USB drive.
   b) Run the CLI command: restore default-settings.
   c) Connect to the Web UI and use the First Time Wizard to configure the appliance.

6. If you understand the error and know how to repair the configuration file:
   a) Remove the USB drive.
   b) Run the CLI command: restore default-settings.
   c) Insert the USB drive and run the repaired configuration script again.

Sample Configuration Log with Error
This is a sample configuration log file for a configuration script that fails.
set hostname Demo1
set hostname: Setting hostname to 'Demo1'
OK

set interface WAN internet primary ipv4-address 66.66.66.11
Error: missing argument 'subnet-mask' for a new connection
Autoconfiguration CLI script failed, clish return code = 1

Using the set property Command
The set property CLI command controls how Check Point 1430/1450 Appliance runs
configuration scripts from a USB drive. These commands do not change how the First Time
Wizard in the Web UI configures the appliance.

• set propert USB_auto_configuration off - The appliance does not run configuration
  scripts from a USB drive.
• set propert USB_auto_configuration once - The appliance only runs the next
  configuration script from a USB drive.
• set propert USB_auto_configuration any - The appliance always runs configuration
  scripts from a USB drive.
Appliance Configuration

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This chapter contains instructions for special Check Point 1430/1450 Appliance features.

Introduction to the WebUI Application

Check Point 1430/1450 Appliance uses a web application to configure the appliance. You can also configure the appliance through the command line.

After your appliance was configured with the First Time Configuration Wizard (see the Check Point 1430/1450 Appliance Getting Started Guide), when you connect to the appliance with a browser (with the appliance’s IP or, if using the appliance as a DNS proxy or DHCP server, to “my.firewall”), it redirects the web page to a secure https site and asks for administrator credentials. When you log in, you can select the Save user name checkbox to save the administrator’s user name. The name is saved until you clear the browser’s cookies.

Logging in correctly opens the Home > System page of the WebUI application. These are the available tabs:

- Home
- Device
- Users & Objects
- Logs & Monitoring

Use the left pane in each tab to navigate between the different pages of the tab.

The Home Tab

Viewing System Information

The Home > System page shows an overview of Check Point 1430/1450 Appliance.

Check Point 1430/1450 Appliance requires only minimal user input of basic configuration elements, such as IP addresses, routing information, and blade configuration. The initial configuration of Check Point 1430/1450 Appliance can be done through a First Time Configuration Wizard. Once initial configuration has been completed, each subsequent entry using http://my.firewall shows the WebUI Home > System page.

- System Information - Shows the appliance model, installed software version, name, MAC address, system date and time (with the GMT setting), and system uptime.
• **Network** - Shows Internet information and wireless radio status. You can click the links to configure Internet and Wireless options (if applicable).

• **Statistics** - Shows live data graphs of packet rate and throughput.

---

**Viewing Blade Status and Statistics**

The **Home > Security Dashboard** page shows you the active blades.

**To view blade and license information:**

Click the information (i) icon.

**To view statistics:**

1. Click the bar graph icon.
   
   The blade statistics window opens.

2. If the blade is turned on:
   
   a) View the graph and details.

   b) To go to other blade statistics, click the arrows in the header.

3. If the blade is turned off or has no license:
   
   a) Click **View demo** to see an example of the statistics shown.

   b) Click **Close**.

---

**Setting the Management Mode**

The **Home > Security Management** page shows information for the management mode of Check Point 1430/1450 Appliance. You can also test Internet Connectivity from this page.

**To set the management type:**

Select one of the options:

- **Locally** - To manage the Check Point 1430/1450 Appliance using the local web application (WebUI). Click **Apply** and then **Yes** when asked to confirm.

- **Centrally** - To manage the Check Point 1430/1450 Appliance using the Security Management Server.

When centrally managed, it shows the trust status between Check Point 1430/1450 Appliance and the Security Management Server. Once a policy has been prepared in SmartDashboard, you can fetch the policy from this window.
Security Management Server

In this section you can view the status of the management connection, last policy installation, adjust trust settings, and initialize a connection.

1. In the Security Management Server section, click **Settings** to adjust trust settings or **Setup** to initialize a connection. The Welcome to the Security Management Server Configuration Wizard shows.

2. Click **Next**. In the One Time Password (SIC) page select an option for authenticating trusted communication:

   - Initiate trusted communication securely by using a one-time password - the one-time password is used to authenticate communication between the Check Point 1430/1450 Appliance and the Security Management Server in a secure manner. Enter a one-time password and confirm it. This password is only used for establishing the initial trust. Once established, trust is based on security certificates.

   - **Important** - This password must be identical to the Secure Communication authentication one-time password configured for the Check Point 1430/1450 Appliance object in the SmartDashboard of the Security Management Server.

   - Initiate trusted communication without authentication (not secure) - select this option only if you are sure that there is no risk of imposture (for example, when in a lab setting).

3. Click **Next**. In the Security Management Server Connection page, select a connection method:

   - To connect to the Security Management Server now, select **Connect to the Security Management Server now**, enter the Security Management Server IP or name and click **Connect**. Upon successful connection to the Security Management Server, the security policy will automatically be fetched and installed.

     If the Security Management Server is deployed behind a 3rd party NAT device, select **Always use this IP address** and manually enter the IP address the appliance should connect to in order to reach the Security Management Server. This IP address will override, from this point on, the automatic calculating mechanism that determines what is the routeable IP address of the Security Management Server for each appliance.

     If trust was established but the gateway could not fetch the policy, you can investigate the issue with the Security Management Server administrator and following resolution, attempt to fetch it by clicking the **Fetch Policy** button that appears instead of the **Connect** button.

   - To connect to the Security Management Server later, select **Connect to the Security Management Server later**.

4. Click **Finish**.

To reinitialize trusted communication with the Security Management Server:

1. In the Security Management Server section, click **Advanced** to reinitialize trusted communication.

2. Click **Reinitialize Trusted Communication**.

   A Warning message shows.

3. Click **Yes**.

   - **Note** - You need to coordinate this operation with the Security Management Server administrator, as reinitialization is necessary on both sides.
Security Policy
To obtain the security policy from the Security Management Server, click **Fetch Policy**. This option is available only if trust has been established with the Security Management Server.

Internet
To test connectivity, click **Test Connection Status**. A status message shows the results of the test. You can click **Settings** to configure Internet connections.

This guide is for centrally managed systems. For more information on working in an environment that is locally managed, see the *Check Point 1430/1450 Appliance Locally Managed Administration Guide*. 
Managing Licenses

The **Home > License** page shows the license state for the software blades. From this page, the appliance can connect to the Check Point User Center with its credentials to pull the license information and activate the appliance.

In most cases, you must first register the appliance in your Check Point User Center account or create one if you don’t already have one. A User Center account is necessary to receive support and updates for service blades such as IPS and Anti-Virus.

**If you have Internet connectivity configured:**
1. Click the **Activate License** link on this page to be directed to the registration form in the User Center.
2. If registration information is not successfully retrieved, browse to: http://smbregistration.checkpoint.com
3. Complete the applicable fields in the User Center registration.
   - Appliance MAC address
   - Appliance registration key
   - Select **Hardware Platform**
   - Select **Check Point 1430/1450 Appliance**
4. Return to this page and click **Activate License**.
   You will be notified that you successfully activated the appliance. After initial activation, the Activate License button shows **Reactivate**. If changes are made to your license, click Reactivate to get the updated license information.

**If you are working offline while configuring the appliance:**
1. Browse to https://usercenter.checkpoint.com and fill out the requested information. You will have to enter the appliance’s credentials, MAC address and registration key, that can be found on the **Home > License** page.
2. After you complete the registration wizard, you will be prompted to download the activation file. Download it to a local location. This is needed for the next step.
3. In the **Home > License** page, click **Offline**.
   The Import Activation File window opens.
4. **Browse** to the activation file you downloaded and click **Import**. The activation process starts.

If there is a proxy between your appliance and the Internet, you must configure the proxy details before you can activate your license:
1. Click **Set proxy**.
2. Select **Use proxy server** and enter the proxy server **Address** and **Port**.
3. Click **Apply**.
4. Click **Activate License**.

**Viewing the Site Map**

The **Home > Site Map** page shows a site map of the WebUI. It shows all of the tabs and the pages they contain.

You can open any of the pages directly from the Site Map page by clicking the link.
Managing Active Computers in Internal Networks

The **Active Computers** page shows a list of the devices that have been identified in internal networks. Information shown includes:

- **Object name**
- **IP/MAC address**
- **Device/User Name** - Shows a device/user name if the information is available to the Check Point 1430/1450 Appliance through DHCP or user awareness.
- **Services** - Shows incoming and outgoing services. Incoming services usually indicate servers.
- **Zone** - Shows if the appliance is connected physically or through a wireless connection.
- **Traffic** - Shows upload and download packet rates when traffic monitoring is active.

Tell me about the fields...

- **Save as** - Lets you save a selected device as a network object. When you select this option, the New Network Object window opens. Enter the information in the fields and click **Apply**. Use these objects to reserve IP addresses to MAC addresses in the DHCP server and also add this object name as a host in the local DNS service.
- **Filter** - Lets you filter the list according to servers, active devices, or known devices.
- **Details** - Select a row in the list and click Details to show additional properties of the device.
- **Refresh** - Refreshes the information in the list.
- **Start/Stop Traffic Monitor** - You can click **Start Traffic Monitoring** to gather upload and download packet rates for active computers. This information is shown in the added Traffic column in the table. This is an operation that may slightly affect performance. To stop, click **Stop Traffic Monitoring**. Note that the monitoring information is no longer available and the Traffic column not shown in the table.

**Note** - This page is available from the **Home** and **Logs & Monitoring** tabs.

Viewing Monitoring Data

The **Monitoring** page shows network, security, and troubleshooting information. Each time you enter this page, the latest data is shown. You can click **Refresh** to update information. To see a sample monitoring report, click **Demo**. To close the sample reports, click **Back**.

The number of current connections in the system is shown for **VPN Tunnels**, **Active Computers**, and **Connections**. You can click the links to open the corresponding WebUI pages.

The Monitoring page is divided into these sections:

- **Network**
- **Security**
- **Troubleshooting**

The sections can be expanded or collapsed by clicking the arrow icon in the section’s title bar.
Network

By default, network statistics are shown for the last hour. You can also see statistics for the last day. Select the applicable option Last hour or Last day from the Network section’s title bar.

The data is automatically refreshed for the time period:

- **Last hour** - At one minute intervals. For example, if you generate a report at 10:15:45 AM, the report represents data from 9:15 to 10:15 AM.
- **Last day** - At hourly intervals. For example, if you generate a report at 10:15 AM, the report represents data from the last 24 hours ending at 10:00 AM of the current day.

- **Bandwidth Usage** - The doughnut chart shows the top 10 applications or users that consumed the most bandwidth in the selected time frame (last hour or last day). Click the Applications or Users links to toggle between the statistics. To show user information the User Awareness blade must be activated.

- **Top Bandwidth Consuming** - Shows statistics for the top bandwidth consuming application, category, site, and user in percentages and the amount of traffic (MB or GB).

- **Traffic** - By default, shows the total amount of traffic received and sent in an area graph. The time axis reflects the time frame (last hour or last day) selected for the Network section. For last hour, the graph shows 5 minute intervals and for last day, hourly intervals. You can click the Received and Sent links to see only the amount of traffic received or sent. The orange area on the graph represents sent traffic. The blue area represents received traffic.

  If you hover over a time interval, a popup box shows:
  - The date and time
  - The traffic sent or received
  - The total traffic for that time interval

- **Total traffic statistics** - Next to the area graph you can see total traffic statistics for the last day or hour.

Security

- **Infected hosts** - Shows the number of:
  - Infected hosts
  - Infected servers
  - Recently active infected hosts

  You can click All Infected Hosts to open the Logs & Monitoring > Infected Hosts page.

- **High risk applications** - Shows:
  - The number of high risk applications
  - The most used high risk applications
  - The top users of high risk applications.

  You can click Applications Blade Control to open the Access Policy > Firewall Blade Control page to see Applications and URL Filtering settings.

- **Security events** - Shows the number of:
  - Anti-Bot malwares detected by the Security Gateway
  - Anti-Virus malwares detected by the Security Gateway
  - The number of IPS attacks.
Troubleshooting

- **System Resources** - Click CPU, memory and disk usage to see CPU, memory, and disk usage information.
- **Device Info** - Shows Security Gateway information.
- Links to pages that can be useful for monitoring and troubleshooting purposes.

  Note - This page is available from the **Home** and **Logs & Monitoring** tabs.

Viewing Reports

The **Reports** page shows network analysis, security analysis, and infected hosts reports by a selected time frame (monthly, weekly, daily, and hourly).

There are two elements that influence the times shown in reports:

- Rounding off of time
- System reboot

Rounding Off of Time

The times shown in generated reports are rounded down:

- For hourly reports - At one minute intervals. For example, if you generate a report at 10:15:45 AM, the report represents data from 9:15 to 10:15 AM.
- For daily reports - At hourly intervals. For example, if you generate a report at 10:15 AM, the report represents data from the last 24 hours ending at 10:00 AM of the current day.
- For weekly reports - At two hour intervals, starting with 00:00, 02:00, 04:00, 06:00 and so on. For example, if you generate a report at 09:55 AM, the report represents data from the last week ending at 08:00 AM of the current day.
- For monthly reports - At four hour intervals, starting with 00:00, 04:00, 08:00, 12:00 and so on. For example, if you generate a report at 11:15 AM, the report represents data from the last month ending at 08:00 AM of the current day.

System Reboot

In the first 24 hour cycle after an appliance starts up (after installation or an update), the system adds one more time interval to the delta of the next applicable report interval.

For example, for weekly reports that are generated at pair hour intervals, the appliance requires 2 more hours plus the delta for the first applicable pair hour.

- For an appliance that started at 00:00 AM - The first weekly report is generated at 04:00 AM. The total of 4 hours derives from the delta of the first applicable pair hour which is 02:00 and the added 2 hours. The total wait is 4 hours.
- For an appliance that started at 01:59 AM - The first weekly report is generated at 04:00 AM. The generated time derives from the delta of the first applicable pair hour which is 02:00 and the added 2 hours. The total wait is 2 hours.
After you start up an appliance, reports are generated:

- Hourly reports - 2-3 minutes from startup.
- Daily reports - 1-2 hours from startup.
- Weekly reports - 2-4 hours from startup.
- Monthly reports - 4-8 hours from startup.

**Note** - Only the last generated report for each report type is saved in the appliance. When you generate a new report, you override the last saved report for the specified type.

**To generate a report:**

Click the applicable time frame link at the top of the page (Monthly, Weekly, Daily or Hourly).

The line below the links shows the selected report and its time frame. To refresh the data shown, click **Generate**.

The report includes these sections:

- Executive Summary
- Table of Contents
- Report pages

**Executive Summary**

The first page of the report is the executive summary and shows:

- The number of Anti-Bot and Anti-Virus malwares detected by the Security Gateway and the number of IPS attacks.
- Top bandwidth consuming statistics by category, site, and user. You can click the **Top category**, **Top site**, or **Top user** link to get to the applicable report page. It also shows Bandwidth Usage by Applications statistics for the top 5 applications in a doughnut chart and total traffic received and sent.
- The number of infected hosts, servers, and recently active infected hosts.
- The number of high risk applications, the most used high risk applications, and the top users of high risk applications.
- The Security Gateway name, version, and MAC address.

**Table of Contents**

The table of contents contains links to the network analysis, security analysis, and infected hosts reports. Click a link to go directly to the selected section.

**Report Pages**

Each report page shows a detailed graph, table, and descriptions.

**Note** - This page is available from the **Home** and **Logs & Monitoring** tabs.
Using System Tools

On the **Tools** page you can:

- Monitor system resources.
- Show the routing table.
- Generate a CPInfo file.
- Ping or trace an IP address.
- Perform a DNS lookup.
- Capture packets.

To monitor system resources:

1. Click **Monitor System Resources**. The **System Resources** page opens and shows the following information:
   - **CPU Usage History** (automatically refreshed)
   - **Memory Usage History** - memory is calculated without memory that was preallocated to handle traffic and without cache memory. This gives a more accurate picture of the actual memory usage in the appliance but it may differ from figures you receive from Linux tools. The information is automatically refreshed.
   - **Disk Usage** - click the Refresh button for the most updated disk usage information.
2. Click **Close** to return to the Tools page.

To show the routing table:

1. Click **Show Routing Table**. The output appears in the Command Output window.
2. Click **Close** to return to the Tools page.

To generate a CPInfo file:

1. Click **Generate CPInfo File**. A message next to the button shows the progress.
2. Click **Download CPInfo File** to view or save the CPInfo file.

To ping or trace an IP address:

1. Enter an IP or host name in the **Host Name or IP Address** field.
2. Click **Ping** or **Trace Route**. The output appears in the Command Output window.
3. Click **Close** to return to the Tools page.

To perform a DNS lookup:

1. Enter a **Host Name or IP Address**.
2. Click **Lookup**. The output appears in the Command Output window.
3. Click **Close** to return to the Tools page.
To capture packets:

If a packet capture file exists, a note shows the date of the file and you can download it before you start a new packet capture that will overwrite the existing file.

1. Select an option from the Select Network list.
2. Click Start and then Stop when you want to stop packet capturing.
3. Click Download File to view or save the capture file.

You can activate packet capture and go to other WebUI application pages while the packet capture runs in the background. However, the packet capture stops automatically if the WebUI session ends. Make sure you return to the packet capture page, stop and download the capture result before you end the WebUI session.

**Note** - The capture utility uses tcpdump. “fw monitor” is available through the command line interface.

This page is available from the Home, Device, and Logs & Monitoring tabs.

Managing the Device

This section describes how to set up and manage your Check Point 1430/1450 Appliance.

Configuring Internet Connectivity

The Device > Internet page shows how Check Point 1430/1450 Appliance connects to the Internet. You can configure a single Internet connection or multiple connections in High Availability or Load Balancing configurations. Once multiple Internet connections are defined, the page shows them in a table, where you can add a new connection and edit, delete, or disable existing connections. When there are multiple Internet connections, you can select which mode to use - High Availability or Load Balancing.

We recommend you contact your local Internet Service Provider (ISP) to understand how to configure your specific Internet connection.

To configure Internet connectivity:

1. Click Configure Internet [if not configured at all], Add [for another Internet connection], or Edit.

The New or Edit Internet Connection window opens. Configure the fields in the tabs:

**Configuration**

**Note** - When changing the connection type, the appliance may disconnect from the Internet.

- **Connection name** - Enter a name for the connection or leave the default "InternetN" label (where N indicates an incrementing number).

- **Interface name** - Select WAN or DMZ for most types of Internet connections or USB/Serial for cellular or analog modems.
**Connection type** - Select the connection type:

- **DHCP** - Dynamic Host Configuration Protocol (DHCP) automatically issues IP addresses within a specified range to devices on a network. The device retains the assigned address for a specific administrator-defined period.
- **Static IP** - A fixed (non-dynamic) IP address.
- **PPPoE** - A network protocol for encapsulating Point-to-Point Protocol (PPP) frames inside Ethernet frames. It is used mainly with DSL services where individual users connect to the DSL modem over Ethernet and in plain Metro Ethernet networks.
- **PPTP** - The Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks. PPTP uses a control channel over TCP and a GRE tunnel operating to encapsulate PPP packets.
- **L2TP** - Layer 2 Tunneling Protocol (L2TP) is a tunneling protocol used to support virtual private networks (VPNs). It does not provide any encryption or confidentiality by itself; it relies on an encryption protocol that it passes within the tunnel to provide privacy.
- **Bridge** - Connects multiple network segments at the data link layer (Layer 2).
- **Cellular Modem** - Connect to the Internet using a cellular modem to the ISP via a 3G or 4G network. For this option select the USB/Serial option in Interface name.
- **Analog Modem** - Connect to the Internet using an analog modem through a USB or serial port. For this option select the USB/Serial option in Interface name.
- **Use connection as VLAN** - Select this checkbox to add a virtual Internet interface. Relevant for WAN or DMZ interfaces only and static, DHCP, PPPoE, PPTP, and L2TP connection types.
  - **VLAN ID** - Enter a VLAN ID between 1 and 4094.

If you select Static IP:

1. Enter information for these fields:
   - **User name**
   - **User password**
     - **Note** - If you click Show, the password characters are shown.
   - **IP address**
   - **Default gateway**
2. Enter the **DNS Server settings** (optional).
3. Click **Apply**.
   - The status is connected.
   - **Note** - You can only define one wireless connection at a time.
4. Click **Edit** or **Delete** to change the Wireless settings.

**Connection Monitoring**

- **Automatically detect loss of connectivity to the default gateway** - Select this option to detect connectivity loss by sending ARP requests (pinging) to the default gateway and expecting responses.
• **Monitor connection state by sending probe packets to one or more servers on the Internet** - Select this option to detect connectivity loss by using more methods and servers.

  • **Connection probing method** - Select one of the options.
    - **Ping addresses** - When selecting this option you can configure up to three servers by IP address or host name.
    - **Probe DNS servers** - When selecting this option the appliance probes the DNS servers as defined in the Internet connection and expects responses.

  **Advanced > For PPPoE**

  • **IP Address Assignment** - In **Local tunnel IP address**, select if the IP address is obtained automatically or manually configured. If manually configured, enter the **IP address**.

  • **Service Provider Settings** - In **Service**, enter a service name (not mandatory) and select the **Authentication method**.

  • **Connect on demand** - Select the **Connect on demand** checkbox if necessary. This is relevant only when you are in high availability mode.

  **Advanced > For PPTP and L2TP**

  • **IP Address Assignment**
    - In **Local tunnel IP address**, select if the IP address is obtained automatically or manually configured. If manually configured, enter the **IP address**.
    - In **WAN IP assignment**, select if the WAN IP address is obtained automatically or manually configured. If manually configured, enter the **IP address**, **Subnet mask**, and **Default gateway**.

  • **Service Provider Settings** - In **Service**, enter a service name (not mandatory) and select the **Authentication method**.

  • **Connect on demand** - Select the **Connect on demand** checkbox if necessary. This is relevant only when you are in high availability mode.

  **Advanced > Port Settings**

  1. If necessary, select **Use custom MTU value** and set the **MTU size**. Note that for a DMZ interface the MTU value is applied to all LAN ports.

  2. **MAC address clone** - Choosing **Override default MAC address** lets you override the default MAC address used by the Internet connection. This is useful when the appliance replaces another device and wants to mimic its MAC address.

  3. If necessary, select **Disable auto negotiation**. This lets you manually define the link speed of the Internet connection.
     a) Select the **DMZ Link Speed**.

  **Advanced > QoS Settings**

  QoS (bandwidth control) can be activated on Internet connections and can be configured with the maximum download and/or upload speeds provided by your ISP. For more information about your download and upload speeds, contact your local ISP.

  Select **Enable QoS (download)** and/or **Enable QoS (upload)** and enter the download/upload bandwidth speeds.
Advanced > ISP Redundancy

Multiple Internet connections can be configured in High Availability or Load Sharing modes. When you configure more than one Internet connection, the Device > Internet page lets you toggle between these options. The Advanced setting of each Internet connection lets you configure each connection’s priority or weights as according to the set mode.

Clear the **Route traffic through this connection by default** checkbox when you want this Internet connection to not be used as a default route for this gateway. Such a connection will be used by the device only if specific, usually service-based, routing rules will be defined for it. This is commonly used when you have a connection that is used for dedicated traffic. When clearing this option, this connection does not participate in High Availability or Load Balancing.

**High Availability - Priority** - Select the priority for the connection. Lower priority connections will only be used if higher priority connections are unavailable.

**Load Balancing - Weight** - The traffic to the Internet is divided between all available connections according to their weights.

### ISP Redundancy

<table>
<thead>
<tr>
<th>Route traffic through this connection by default</th>
</tr>
</thead>
<tbody>
<tr>
<td>In order to route traffic through this connection you need to add specific routes through it</td>
</tr>
</tbody>
</table>

**High Availability**

Upon failure of the Primary Internet Connection, traffic will be routed according to the selected priority

<table>
<thead>
<tr>
<th>Priority:</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>(The higher the value, the lower its priority)</td>
<td></td>
</tr>
</tbody>
</table>

**Load Balancing**

Traffic will be distributed automatically according to the configured load balancing weights

<table>
<thead>
<tr>
<th>Weight:</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.00% of the total weight</td>
<td></td>
</tr>
</tbody>
</table>

Configuring Wireless Network Settings

The **Device > Wireless** page shows the wireless network settings (if applicable). You can configure your main wireless network and also additional guest or standard wireless networks (VAPs - Virtual Access Points).

- **Guest** wireless network - Uses hotspot by default and is unprotected (no password required).
- **Standard** wireless network - Is a protected wireless network that requires a password and does not use a hotspot by default.

To delete the wireless network, go to **Device > Internet**.

If multiple wireless networks (VAPS) are defined, the page shows them in a table, where you can add a new guest or standard wireless network and edit, delete, or disable existing ones.

To turn the Wireless network on or off:

- Move the slider to select the **On** or **Off** option. The previous configuration is saved. If you have configured multiple VAPs, selecting Off will turn them all off.
  
  Note that if you turn off the wireless radio and then turn it back on, the VAPs will remain disabled. To enable the VAPs, you must select the relevant entries in the table and click **Enable**.

- To disable or enable the Wireless network, click **Disable/Enable**.
To edit the radio settings:

1. Click Radio settings.
2. Select the correct Operation mode, Channel, Channel width, and Transmitter power.
3. Click Advanced to set the Guard Interval and Antenna control.
4. Click Apply.

This configuration is global for all wireless networks. Some options may not be available or allowed depending on your country’s wireless standards.

The wireless client search options depend on the frequency that the appliance is set to. Check Point 1430/1450 Appliance can be configured to only one frequency at a time and is set to 2.4 GHz by default. If you change the radio settings to 802.11 ac or 802.11 n/ac, the frequency automatically changes to 5 GHz. The Home > System page shows the wireless radio status.

To customize Hotspot:

Click the Hotspot link. See the Device > Hotspot page for information.

To add or edit a wireless network:

1. Click Edit wireless network settings to edit the main wireless network.
2. To add an additional guest or standard network to the main network, click the Guest or Standard link on the page. Once defined, it shows in a table on the page where you can also create additional networks by clicking New. Editing one of the additional guest or standard networks (VAPs), can be done by selecting an entry from the table and clicking Edit.

The New/Edit Wireless Network window opens.

3. Configure the fields:

   Configuration tab

   • Network name (SSID) - Enter a name for the wireless network or use the default name. This is the name shown to clients that look for access points in the transmission area.
   • Use Hotspot - Select this checkbox to redirect users to the Hotspot portal before allowing access from this interface. Hotspot configuration is defined in the Device > Hotspot page.

   Configuration tab > Wireless Security

   • Protected network (recommended) - This is the recommended wireless security setting.
     • Security type - Select the security technology used in your wireless network. WPA/WPA2 is the most compatible option. WPA2 is the most secure.
     • Encryption type - Select the encryption method.
     • Authenticate using - Select Password or RADIUS server (Enterprise mode) to determine how the users authenticate.

       The Password option allows a single password for all users. This option is known as WPA Personal.

       The RADIUS servers (Enterprise mode) option requires defining RADIUS servers in the Users & Objects > Authentication Servers page. Each user that tries to connect to the wireless network is authenticated through the RADIUS server. This option is also known as WPA Enterprise.

   • Network password - When authenticating using a password, enter a password or click Generate for an automatically generated password.
     • Show - To see the password, select this option. To hide it, clear the checkbox.
- **Unprotected network (not recommended)** - Without a password, any wireless client can connect to this network. This option is not recommended.

*Configuration tab > Advanced Settings*

- **Hide the Network Name (SSID)** - When selected, this wireless network name is not automatically shown to users scanning for them. Connecting to the wireless network can be done manually by adding the specified network name.

- **Allow Station-to-Station Traffic** - When selected, allows wireless stations on this network to communicate with each other. When cleared, traffic between wireless stations is blocked.

- **Enable MAC address filtering** - When selected, by default, all wireless devices are not allowed to connect to the wireless network. To allow a specific device to connect, add a new MAC address to the table. Click **New**, enter the device’s **MAC address** and click **Apply**.

*Wireless Network tab > Interface Configuration*

- **Assigned to** - Select **Separate network** or one of the existing configured networks. When selecting a separate network configure this information:
  - Local IP address
  - Subnet mask

*Wireless Network tab > DHCP Server*

Select one of the options:

- **Enabled** - Enter the **IP address range** and if necessary the **IP address exclude range**. The appliance’s own IP address is automatically excluded from this range. You can also exclude or reserve specific IP addresses by defining network objects in the **Users & Objects > Network Objects** page. Reserving specific IP addresses requires the MAC address of the device.

- **Relay** - Enter the DHCP server IP address.

- **Disabled**

*Access Policy tab*

These options create automatic rules that are shown in the **Access Policy > Firewall Policy** page.

- **Allow access from this network to local networks (Wireless network is trusted)**

*DHCP Server Options tab*

The values for the DHCP options configured on this tab will be distributed by the DHCP server to the DHCP clients.

This tab is only available when the wireless network is a separate network and a DHCP server is configured on it.

*DHCP Server Options tab > DNS Server*

Select one of these options:

- **Auto** - This uses the DNS configuration of the appliance as configured in the **Device > DNS** and **Device > Internet** pages.

- **Use the following IP addresses** - Enter the IP addresses for the **First DNS server**, **Second DNS server**, and **Third DNS server**.
DHCP Server Options tab > Default Gateway
Select one of these options:
- **Use this gateway's IP address as the default gateway**
- **Use the following IP address** - Enter an IP address to use as the default gateway.

DHCP Server Options tab > WINS
Select one of these options:
- **Use the WINS servers configured for the internet connection**
- **Use the following WINS servers** - Enter the IP addresses of the **First** and **Second** WINS servers.

DHCP Server Options tab > Lease
- **Lease time** - Configure the timeout in hours for a single device to retain a dynamically acquired IP address.

DHCP Server Options tab > Other Settings
You can optionally configure these additional parameters so they will be distributed to DHCP clients:
- **Time servers**
- **Call manager**
- **TFTP server**
- **TFTP boot file**
- **X-Windows display manager**
- **Avaya IP phone**
- **Nortel IP phone**
- **Thomson IP phone**

DHCP Server Options tab > Custom Options
Lets you add custom options that are not listed above. For each custom option, you must configure the name, tag, type, and data fields.

The wireless client is shown as a link. Click **Edit Settings** to edit the settings. Click **Disable/Enable** to disable or enable the wireless client.

Configuring the Local Network
The **Device > Local Network** page lets you set and enable the local network connections, switches, bridge or wireless network (on wireless devices only).

The Network table shows all available network connections.

The page also lets you:
- Configure multiple **switches** (port based VLANs) between the available local LAN interfaces and wireless networks. Between the LAN ports of a switch, traffic is neither monitored nor inspected.
- Configure multiple **bridges** between interfaces. Traffic in a bridge is always monitored and inspected by the appliance.
• Create and configure tag based **VLANs** (802.1q) on any of the LAN interfaces or DMZ.
• Create and configure **VPN tunnels (VTI)** which can be used to create routing rules which determine which traffic will be routed through the tunnel and therefore also encrypted (Route based VPN).
• On wireless devices - Add new **wireless networks** (Virtual Access Points). This can also be done through the **Device > Wireless Network** page.

**To create any of the above options:**
Click **New** and choose the option you want.

**To edit/delete/enable/disable any of the above options:**
Select the relevant row and click **Edit/Delete/Enable/Disable**.

Note the following:
• Physical interfaces cannot be deleted.
• Editing an interface that is part of a switch or a bridge lets you remove it from the switch or bridge.
• When a LAN or DMZ interface is part of an Internet connection, it will still be visible on this page, but can be only be configured through the **Device > Internet** page.
• For each network, the table on this page shows you:
  • Name - Name of the network and interfaces that participate (if there are multiple interfaces)
  • IP Address
  • Subnet Mask
  • Status - Shows a status for physical interfaces and wireless networks:
    ▪ Physical interfaces - Shows cable connection status of each physical interface that is enabled. Otherwise, it will show disabled.
    ▪ Wireless networks - Shows if the wireless network is up or disabled.

**To create/edit a switch:**
Note: Between the LAN ports of a switch, traffic is neither monitored nor inspected.

Configure the fields in the tabs:

**Configuration tab**
1. In **Switch Configuration**, select or clear the interfaces you want to be part of the switch. The table shows you which interfaces are already part of the switch (shown with checkmarks in the table) and which interfaces are not assigned yet and can be added to the switch (empty checkboxes in the table). For example, if LAN8 is already part of another switch, it will not be shown at all in this table.

2. Choose the **IP address** and **Subnet mask** the switch uses.

3. **Enable hotspot Captive Portal** - Select this checkbox to redirect users to the Hotspot portal before allowing access from this interface. More configuration is necessary in the **Device > Hotspot** page.
4. In **DHCP Server**:

Select one of the options:

- **Enabled** - Enter the **IP address range** and if necessary the **IP address exclude range**. The appliance’s own IP address is automatically excluded from this range. You can also exclude or reserve specific IP addresses by defining network objects in the **Users & Objects > Network Objects** page. Reserving specific IP addresses requires the MAC address of the device.

- **Relay** - Enter the DHCP server IP address.

- **Disabled**

**DHCP Server Options tab**

See DHCP Server Options tab below

**To edit a physical interface:**

Configure the fields in the tabs:

**Configuration tab**

- **Assigned to** - Select the required option:
  - **Unassigned** - The physical interface is not part of any network and cannot be used.
  - One of the existing configured **switches** or **bridges**
  - **Separate network** - When selecting a separate network configure this information:
    - IP address
    - Subnet mask
    - **DHCP Server settings**
      Select one of the options:
      - **Enabled** - Enter the IP address range and if necessary the IP address exclude range. The appliance’s own IP address is automatically excluded from this range. You can also exclude or reserve specific IP addresses by defining network objects in the **Users & Objects > Network Objects** page. Reserving specific IP addresses requires the MAC address of the device.
      - **Relay** - Enter the DHCP server IP address.
      - **Disabled**

  **Note** - When creating a switch, the first interface within it cannot be removed from the switch unless the switch is deleted.

**Advanced tab**

- **MTU size** - Configure the Maximum Transmission Unit size for an interface. Note that in the Check Point 1430/1450 Appliance, the value is global for all physical LAN and DMZ ports.

- **Disable auto negotiation** - Choose this option to manually configure the link speed of the interface.

**DHCP Server Options tab**

See DHCP Server Options tab below

**To create/edit a tag based VLAN:**

You can create a new VLAN only if you have at least one physical interface that is not part of an existing network (switch or bridge).
Configure the fields in the tabs:

**Configuration tab**

- **VLAN ID** - Enter a number that is the virtual identifier.
- **Assigned to** - Select the physical interface where the new virtual network will be created.
- **IP address**
- **Subnet mask**
- **Use Hotspot** - Select this checkbox to redirect users to the Hotspot portal before allowing access from this interface. Hotspot configuration is defined in the **Device > Hotspot** page.

**DHCP Server settings**
Select one of the options:
- **Enabled** - Enter the IP address range and if necessary the IP address exclude range. The appliance’s own IP address is automatically excluded from this range. You can also exclude or reserve specific IP addresses by defining network objects in the **Users & Objects > Network Objects** page. Reserving specific IP addresses requires the MAC address of the device.
- **Relay** - Enter the DHCP server IP address.
- **Disabled**

**DHCP Server Options tab**
See DHCP Server Options tab below

To create/edit a VPN Tunnel (VTI):
Configure the fields in the tab:

**Configuration tab**

- **VPN Tunnel ID** - A number identifying the VTI.
- **Peer** - The name of the peer gateway network object.

The VPN tunnel interface can be numbered or unnumbered. Select the applicable option:

- **Numbered VTI** - You configure a local and remote IP address for a numbered VTI:
  - **Local IP address** - The IP address to be used for the local point-to-point virtual interface.
  - **Remote IP address** - The IP address to be used at the peer gateway’s point-to-point virtual interface.

- **Unnumbered VTI** - When the VTI is unnumbered, it is not necessary to configure local and remote IP addresses. You define a local interface to use as the source IP address for outbound traffic.
  - **Local interface** - Select the local interface from the list.

To create/edit a bridge:
Configure the fields in the tabs:

**Configuration tab**

- **In Bridge Configuration**, select the networks you want to be part of the bridge.
- **Enable Spanning Tree Protocol** - When Spanning Tree Protocol (STP - IEEE 802.1d) is enabled, each bridge communicates with its neighboring bridges or switches to discover how they are interconnected. This information is then used to eliminate loops, while providing optimal
routing of packets. STP also uses this information to provide fault tolerance, by re-computing the topology in the event that a bridge or a network link fails.

- Enter a **Name** for the bridge interface.
- Choose the **IP address** and **Subnet mask** the switch uses.
- **Enable hotspot Captive Portal** - Select this checkbox to redirect users to the Hotspot portal before allowing access from this interface. More configuration is necessary in the **Device > Hotspot** page.
- **Use Hotspot** - Select this checkbox to redirect users to the Hotspot portal before allowing access from this interface. Hotspot configuration is defined in the **Device > Hotspot** page.
- **DHCP Server**
  Select one of the options:
  - **Enabled** - Enter the IP address range and if necessary the IP address exclude range. The appliance’s own IP address is automatically excluded from this range. You can also exclude or reserve specific IP addresses by defining network objects in the **Users & Objects > Network Objects** page. Reserving specific IP addresses requires the MAC address of the device.
  - **Relay** - Enter the DHCP server IP address.
  - **Disabled**

*Advanced tab*

- **MTU size** - Configure the Maximum Transmission Unit size for an interface

*DHCP Server Options tab*

See DHCP Server Options tab below

**To create/edit a Virtual Access Point (VAP):**

See the **Device > Wireless Network** help page.

*DHCP Server Options tab*

The values for the DHCP options configured on this tab will be distributed by the DHCP server to the DHCP clients.

This tab is only available when the wireless network is a separate network and a DHCP server is configured on it.

*DHCP Server Options tab > DNS Server*

Select one of these options:

- **Auto** - This uses the DNS configuration of the appliance as configured in the **Device > DNS** and **Device > Internet** pages.
- **Use the following IP addresses** - Enter the IP addresses for the **First DNS server**, **Second DNS server**, and **Third DNS server**.

*DHCP Server Options tab > Default Gateway*

Select one of these options:

- **Use this gateway’s IP address as the default gateway**
- **Use the following IP address** - Enter an IP address to use as the default gateway.
DHCP Server Options tab > WINS

Select one of these options:

- **Use the WINS servers configured for the internet connection**
- **Use the following WINS servers** - Enter the IP addresses of the **First** and **Second** WINS servers.

DHCP Server Options tab > Lease

- **Lease time** - Configure the timeout in hours for a single device to retain a dynamically acquired IP address.

DHCP Server Options tab > Other Settings

You can optionally configure these additional parameters so they will be distributed to DHCP clients:

- **Time servers**
- **Call manager**
- **TFTP server**
- **TFTP boot file**
- **X-Windows display manager**
- **Avaya IP phone**
- **Nortel IP phone**
- **Thomson IP phone**

DHCP Server Options tab > Custom Options

Lets you add custom options that are not listed above. For each custom option, you must configure the name, tag, type, and data fields.
Configuring a Hotspot

In the **Device > Hotspot** page you can configure:

- **Guest access** - A session is created for an IP address when a user accepts terms or authenticates in the Hotspot portal. The session expires after the configured timeout (240 minutes by default).
- **Hotspot portal** - Customize the portal’s appearance.
- **Hotspot exceptions** - Define specified IP addresses, IP ranges or networks to exclude from the hotspot.

In the **Access** section of the page, you can configure if authentication is required and allow access to all users or to a specific user group (Active Directory, RADIUS or local).

Hotspot is automatically activated in the system. To turn it off, go to **Device > Advanced Settings**. Search for Hotspot, double-click the entry, select **Disabled** and click **Apply**.

**To configure Hotspot for an interface:**

1. Click the **Configure in Local Network** link to select the desired interface.
2. Select the **Use Hotspot** checkbox on at least one defined interface.

Any user that browses from configured interfaces will be redirected to the Check Point Hotspot portal.

**Note** - Hotspot will only work if you have a Security Policy installed.

**To configure Hotspot exceptions:**

1. Click **Manage Exceptions**.
   The Manage Hotspot Network Objects Exceptions window opens.
2. Select the objects to add as exceptions.
   The Selected Network Objects window shows the selected objects. To remove an object from the list, click the **x** next to it.
3. To filter the object list, enter the filter value. The list shows the objects that match the filter.
4. If necessary, click **New** to add new objects to the list. For information on creating a new object, see the **Users & Objects > Network Objects** page.
5. Click **Apply**.
   The added objects are excluded from the Hotspot.

**To require user authentication:**

1. Select the **Require Authentication** checkbox.
2. You can either allow access to **All users** or to a **Specific user group**.
3. If you selected Specific user group, enter the group’s name in the text box.
4. Click **Apply**.
   Any user/user group that browses from configured interfaces will be redirected to the Check Point Hotspot portal and will have to enter authentication credentials.
To configure the session timeout:
1. In **Session timeout**, enter the number of minutes that defines how long a user stays logged in to the session before it ends.
2. Click **Apply**.

To customize the portal appearance:
1. Click **Customize**.
2. Configure the fields:
   - **Portal title** - Keep the default or enter a different title.
   - **Portal message** - Keep the default or enter a different message.
   - **Users must approve terms of use** - Select this checkbox to add an "I agree with the following terms and conditions" checkbox on the Hotspot portal page. Enter the terms and conditions text in the text box. When users will click the “terms and conditions” link, this text will be shown.
3. To customize a logo for all portals shown by the appliance (Hotspot and captive portal used by User Awareness), click **Upload**, browse to the logo file and click **Apply**. If necessary, you can revert to the default logo by clicking **Use Default**.
4. Click **Apply**.

To prevent simultaneous login to the Hotspot portal:
1. Go to **Device > Advanced Settings**.
2. Select **Hotspot**.
3. Click **Edit**.
   - The **Hotspot** window opens.
4. Click the checkbox for **Prevent simultaneous login**.
5. Click **Apply**.
   - The same user cannot log in to the Hotspot portal from more than one computer at a time.

### Configuring the Routing Table

The **Device > Routing** page shows a routing table with the routes that have been added on your appliance. You can add new routes from here.

Default routes are not configured on this page. They are configured on the **Device > Internet** page, but can be viewed here. This page shows all the routing rules: manually configured on this page and defined automatically by the system. System defined routes cannot be edited.

You can create custom/new destination-based rules and policy-based routing rules, by source and by service.

**To add a new route:**
1. Click **New**.
   - The New Routing Rule window opens.
2. Click the links in the rule summary, or in the table cells, to select values for the routing rules. See the descriptions below. Note that for Service you can also create a new service or service group.
3. **Optional:** Enter a comment.
4. Enter a metric between 0 and 100. The default is 0.
5. Click **Apply**.

<table>
<thead>
<tr>
<th>Table Columns</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destination</td>
<td>The route rule applies only to traffic whose destination matches the destination IP address/network.</td>
</tr>
<tr>
<td>Source</td>
<td>The route rule applies only to traffic whose source matches the source IP address/network.</td>
</tr>
<tr>
<td>Service</td>
<td>The route rule applies only to traffic whose service matches the service IP protocol and ports or service group.</td>
</tr>
<tr>
<td>Next Hop</td>
<td>The next hop gateway for this route. There are two available options: specific IP address of the next hop gateway or a specified Internet connection from the connections configured in the appliance.</td>
</tr>
<tr>
<td>Metric</td>
<td>Determines the priority of the route. If multiple routes to the same destination exist, the route with the lowest metric is chosen.</td>
</tr>
</tbody>
</table>

The edit, delete, enable, and disable options are only available for manually defined routing rules created on this page. You cannot edit, delete, enable, and disable routing rules created by the OS for directly attached networks or rules defined by the dynamic routing protocol.

**To edit an existing route:**
Select the route and click **Edit**.

**To delete an existing route:**
Select the route and click **Delete**.

**To enable/disable an existing route:**
Select the route and click **Enable** or **Disable**.

**Important Notes**
- You cannot add a default route from this page. The default route of the system is inherited from Internet connection settings. To change the default route, edit an Internet connection. Then, set its **default gateway** (next hop) to a different IP address.
- For Internet Connection High Availability, the default route changes automatically on failover (according to the active Internet connection).
- When a network interface is disabled, all routes leading to this interface become "inactive". In such cases, the system routes traffic according to active routing rules (typically, to the default route). The route shows **inactive** in the routing page. It becomes active automatically when the interface is enabled.

When no default route is active (for example, when there is no Internet connection) this message shows: **Note** - No default route is configured. Internet connections might be down or not configured.
Configuring the DNS Server

In the Device > DNS page you can configure the DNS server configuration and define the domain name.

To configure DNS:

1. Choose whether to define up to three DNS servers which will be applied to all Internet connections or use the DNS configuration provided by the active Internet connection (Primary). If you select **Configure DNS servers**, make sure that you enter valid IP addresses.

   Use the first option if your DNS servers are located in the headquarters office. In this case, all DNS requests from this branch office will be directed to these DNS servers.

   The second option allows a more dynamic definition of DNS servers. The gateway will use the DNS settings of the currently-active Internet connection (in case of static IP – the DNS manually provided under ”Internet connection”-> Edit, in case of DHCP / Dialers – the DNS automatically provided by the ISP). If Internet Connection High Availability is enabled, the DNS servers will switch automatically upon failover.

2. By default, the Check Point 1430/1450 Appliance functions as your DNS proxy and provides DNS resolving services to internal hosts behind it (network objects). This option is global and applies to all internal networks.

   You can choose to get IP addresses directly from the DNS server[s] defined above, by clearing the **Enable DNS Proxy** checkbox.

   When DNS proxy is enabled, **Resolve Network Objects** controls whether or not the DNS proxy will treat the local network objects as a hosts list. When selected the local DNS servers will resolve network object names to their IP addresses for internal network clients.

3. Enter a **Domain Name**. There are two separate uses of the domain name:

   • Local hosts (the Security Gateway and network objects) are optionally appended with the domain name when DNS resolving is performed.

   • DNS queries that do not contain a domain name are automatically appended with the domain name.

   Note these syntax guidelines:

   • The domain name must start and end with an alphanumeric character.

   • The domain name can contain periods, hyphens, and alphanumeric characters.

4. Click **Apply**.

Configuring the Proxy Server

The Device > Proxy page must be configured when there is a proxy server between the appliance and the Internet. This proxy server is used when the appliance’s internal processes must reach a Check Point server. For example, to get updates from update and license servers or to reach the URL Filtering services.

This is not a common deployment as you usually deploy the proxy server for your organization in the internal networks.
To configure a proxy server:
1. Select **Use a proxy server**.
2. Enter a **Host name or IP address**.
3. Enter a **Port**.
4. Click **Apply**.

Backup, Restore, Upgrade, and Other System Operations

In the **Device > System Operations** page you can:

- Reboot
- Restore factory default settings
- Revert to the factory default image
- Upgrade the appliance software to the latest Check Point version
- Backup appliance settings to a file stored on your desktop computer
- Restore a backed up configuration

**To reboot the appliance:**
- Click **Reboot** and then click **OK** in the confirmation message. The appliance will reboot.

**To restore factory default settings:**
- Click **Default Settings** and then click **OK** in the confirmation message. The factory default settings will be restored. The appliance will reboot itself to complete the operation.

  **Note** - This does not change the software image. Only the settings will be restored to their default values (IP address: https://192.168.1.1:4434, the username: admin and password: admin).

**To revert to the factory default image:**
- Click **Factory Defaults** and then click **OK** in the confirmation message. The factory default settings will be restored. The appliance will reboot itself to complete the operation.

  **Note** - This restores the default software image which the appliance came with and also the default settings (IP address 192.168.1.1:4434, the username: admin and password: admin).

**To upgrade your appliance:**
1. Click **Manual Upgrade**. The Upgrade Software Wizard opens.
2. Follow the Wizard instructions.

  **Note** - The firewall remains active while the upgrade is in process. Traffic disruption can only be caused by:

  - Saving a local image before the upgrade (this causes the Firewall daemon to shut down). This may lead to disruption in VPN connections.
  - The upgrade process automatically reboots the appliance.
To back up appliance settings:

1. Click **Backup**. The Backup Settings page opens.
2. To encrypt the backup file, select the **Use File Encryption** checkbox. Set and confirm a password.
3. To back up the security policy installed on the appliance, select the **Backup Security Policy** checkbox. You can add **Comments** about the specific backup file created.
4. Click **Save Backup**. The File Download dialog box appears. The file name format is `<current software version>-<YY-Month-day>-<HH_MM_Seconds>.zip`
5. Click **Save** and select a location.

To restore a backed up configuration:

1. Click **Restore**. The Restore Settings page appears.
2. Browse to the location of the backed up file.
3. Click **Upload File**.

**Important Notes**

- To **replace** an existing appliance with another one (for example, upon hardware failure) you can restore the settings saved on your previous appliance and reactivate your license (through **Device > License**).
- To **duplicate** an existing appliance you can restore the settings of the original appliance on the new one. However, in this case, in addition to re-activating your license, you’ll also have to reinitialize trusted communication with the Management Server (in Management Server page), since you need to supply a new security certificate to the new appliance, as two appliances cannot use the same security certificate.
- Restoring settings of a different version is supported, but not automatically between every two versions. If the restore action is not supported between two versions, the gateway will not allow restoring the settings.

**Using the Software Upgrade Wizard**

Follow the instructions in each page of the Software Upgrade Wizard.

During the wizard click **Cancel** to quit the wizard.

**Welcome**

Click the **Check Point Download Center** link to download an upgrade package as directed. If you already downloaded the file, you can skip this step.

**Upload Software**

Click **Browse** to select the upgrade package file.

Click **Upload**. This may take a few minutes. Once the upload is complete, the wizard automatically validates the image. A progress indicator at the bottom of the page informs you the percentage completed. Upon successful image validation, an "Upload Finished" status appears.

**Upgrade Settings**

The system always performs an upgrade on a separate flash partition and your current-running partition is not affected. Consequently, you can always switch back to the current image in case of an immediate failure in the upgrade process. In the unexpected event that the appliance does not
come up properly from the boot, disconnect the power cable and reconnect it. The appliance will automatically revert to the previous image.

You will be able to return to a previous image by clicking the **Revert to Previous Image** button on the System Operations page. The backup contains the entire image, including the firmware, all system settings and the current security policy.

When you click **Next**, the upgrade process starts.

**Upgrading**

The Upgrading page shows an upgrade progress indicator and checks off each step as it is completed.

- Initializing upgrade process
- Installing new image

**Backing Up the System**

In the **Device > System Operations > Backup Settings** you can backup and restore system settings.

To create a backup file:

1. Click **Create Backup File**.
   
   The **Backup Settings** window opens.
2. To encrypt the file, click **Use file encryption**.
   
   If you select this option, you must enter and confirm a password.
3. Optional: add a comment about the backup file.
4. Click **Create Backup**.
   
   System settings are backed up.

The backup file includes all your system settings such as network settings and DNS configuration. The backup file also contains the Secure Internal Communication certificate and your license.

If you want to replace an existing appliance with another one, you can restore the settings of your previous appliance and re-activate your license (through **License Page > Activate License**).

If you want to duplicate an existing appliance, you can restore the settings of the original appliance on the new one. Make sure to change the IP address of the duplicated appliance (**Device > Internet** page) and generate a new license.

To configure a periodic backup to the FTP server:

1. Go to **Device > System Operations > Backup and Restore System Settings**.
2. Click **Settings**.
   
   The **Periodic Backup Settings** window opens.
3. Click **Enable scheduled backups**.
4. Configure the file storage destination (see below).
5. Optional: Select **Use file encryption**.
   
   If you select this option, you must enter and confirm a password.
6. In **Schedule Periodic Backup**, select frequency:
   - **Daily** - Select time of day (hour range).
   - **Weekly** - Select day of week and time of day.
   - **Monthly** - Select day of month and time of day. **Note** - If a month doesn’t include the selected day, the backup is executed on the last day of the month.
7. Click **Apply**.

**To configure a file storage destination:**
1. In **Device > System Operations > Backup and Restore System Settings**, click **Settings**.
   
   The **Periodic Backup Settings** window opens.
2. Click **Enable scheduled backups**.
3. Enter a **Backup server path**.
4. Enter a username and password.
5. Click **Apply**.

### Configuring Local and Remote System Administrators

The **Device > Administrators** page lists the Check Point 1430/1450 Appliance administrators and lets you create new local administrators, configure the session timeout, and limit login failure attempts. Administrators can also be defined in a remote RADIUS server and you can configure the appliance to allow them access. Authentication of those remotely defined administrators is done by the same RADIUS server.

You can create administrators with read-only privileges. Read-only administrators cannot update appliance configuration, but some other operations are still available to them. For example, they can create new read-only users or run a traffic monitoring report from the Tools page.

**To create a Check Point 1430/1450 Appliance local administrator:**
1. Click **New**. The Add administrator page appears.
2. Configure the parameters in the page that opens (name, password, and password confirmation). The hyphen (-) character is allowed in the administrator name. You cannot use these characters when you enter a password or shared secret: `}{` `~` `|` `'` `"` `#` `+`
3. To set the administrator with read-only privileges, select **Read-only Administrator**.
4. Click **Apply**.

   The name and permission information of the administrator is added to the table. When logging in to the WebUI, the administrator name and an icon that represents read or read/write permissions is shown at the top of the page.

**To edit the details of locally defined administrators:**
1. Select the administrator from the table and click **Edit**.
2. Make the relevant changes.
3. Click **Apply**.

**To delete a locally defined administrator:**
1. Select an administrator from the list.
2. Click **Delete**.
3. Click **Yes** in the confirmation message.

**Note** - You cannot delete an administrator who is currently logged in.

**To allow access for administrators defined in a remote RADIUS server:**

1. Make sure administrators are defined in the remote RADIUS server.
2. Make sure a RADIUS server is defined on the appliance. If there is no server, click the **RADIUS configuration** link at the top of this page. You will be asked to configure the IP address and shared secret used by the RADIUS server.
3. Click **edit permissions** once you have a configured RADIUS server.
4. Click the **Enable RADIUS authentication for administrators** checkbox.
5. Select which user group defined in the RADIUS server will be granted administrator permissions:
   
a) Select **All users defined on RADIUS server** (not recommended) or **Specific RADIUS groups only** and enter the RADIUS groups separated by a comma.
   
b) To enable RADIUS authentication for read-only administrators, select the **Read-only Administrators** checkbox.
6. Click **Apply**.

**To set the Session Timeout value for both local and remotely defined administrators:**

1. Click **Security Settings**.
   
The **Administrators Security Settings** window opens.
2. Configure the session timeout in the page that opens (maximum time period of inactivity in minutes). The maximum value is 999 minutes.
3. Click **Apply**.

**To limit login failure attempts for both local and remotely defined administrators:**

1. Click **Security Settings**.
2. Select **Limit administrators login failure attempts**.
3. Enter the number of **Maximum consecutive login attempts** allowed before a user is locked out.
4. In **Lock period**, enter the time (in seconds) that must pass before a locked out administrator can attempt to log in again.
5. Click **Apply**.

**Note** - This page is available from the **Device** and **Users & Objects** tabs.

**Configuring a RADIUS Server for Non-Local Check Point 1430/1450 Appliance Users**

Non-local users can be defined on a RADIUS server and not in Check Point 1430/1450 Appliance. When a non-local user logs in to Check Point 1430/1450 Appliance, the RADIUS server authenticates the user and assigns the applicable permissions. You must configure the RADIUS server to correctly authenticate and authorize non-local users.

**Note** - If you define a RADIUS user with a null password (on the RADIUS server), Check Point 1430/1450 Appliance cannot authenticate that user.
To configure a Steel-Belted RADIUS server for non-local Check Point 1430/1450 Appliance users

1. Create the dictionary file `checkpoint.dct` on the RADIUS server, in the default dictionary directory (that contains `radius.dct`). Add these lines to the file:

   ```
   @radius.dct
   MACRO CheckPoint-VSA(t,s) 26 [vid=2620 type1=%t% len1=+2 data=%s%]
   ATTRIBUTE CP-Gaia-User-Role CheckPoint-VSA(229, string) r
   ATTRIBUTE CP-Gaia-SuperUser-Access CheckPoint-VSA(230, integer) r
   ```

2. Add the following lines to the `vendor.ini` file on the RADIUS server (keep in alphabetical order with the other vendor products in this file):

   ```
   vendor-product = Check Point Check Point 1430/1450 Appliance
dictionary = nokiaipso
ignore-ports = no
port-number-usage = per-port-type
help-id = 2000
   ```

3. Add to the `dictionary.dcm` file the line:
   ```
   "@checkpoint.dct"
   ```

4. Add this Check Point Vendor-Specific Attribute to users in your RADIUS server user configuration file:
   ```
   CP-Gaia-User-Role = <group_name>
   ```
   Where `<group_name>` is the name of the RADIUS group that is defined in the Check Point 1430/1450 Appliance WebUI.

To configure a FreeRADIUS server for non-local Check Point 1430/1450 Appliance users

1. Create the dictionary file `dictionary.checkpoint` in `/etc/freeradius/` on the RADIUS server:

   ```
   # Check Point dictionary file for freeradius AAA server
   #
   VENDOR CheckPoint 2620
   ATTRIBUTE CP-Gaia-User-Role 229 string
   CheckPoint
   ATTRIBUTE CP-Gaia-SuperUser-Access 230 integer
   CheckPoint
   ```

2. Add to `/etc/freeradius/dictionary` the line:
   ```
   "$INCLUDE dictionary.checkpoint"
   ```

3. Add this Check Point Vendor-Specific Attribute to users in your RADIUS server user configuration file:
   ```
   CP-Gaia-User-Role = <group_name>
   ```
   Where `<group_name>` is the name of the RADIUS group that is defined in the Check Point 1430/1450 Appliance WebUI.
To configure a OpenRADIUS server for non-local Check Point 1430/1450 Appliance users

1. Create the dictionary file `dict.checkpoint` in `/etc/openradius/subdicts/` on the RADIUS server:

```
$add vendor 2620 CheckPoint

$set default vendor=CheckPoint
    space=RAD-VSA-STD
    len_ofs=1 len_size=1 len_adj=0
    val_ofs=2 val_size=-2 val_type=String
    nodec=0 noenc=0

$add attribute 229 CP-Gaia-User-Role
$add attribute 230 CP-Gaia-SuperUser-Access val_type=Integer
    val_size=4
```

2. Add the line

```
$include subdicts/dict.checkpoint
```

3. Add this Check Point Vendor-Specific Attribute to users in your RADIUS server user configuration file:

```
CP-Gaia-User-Role = <group_name>
```

Where `<group_name>` is the name of the RADIUS group that is defined in the Check Point 1430/1450 Appliance WebUI.

To log in as a superuser

A user with super user permissions can use the Check Point 1430/1450 Appliance shell to do system-level operations, including working with the file system.

1. Connect to the Check Point 1430/1450 Appliance platform using an SSH client or serial console client.
2. Log in to the clish shell using your user name and password.
3. Run Expert

Enter the expert password.

Configuring Administrator Access

The Device > Administrator Access page lets you configure the IP addresses and interface sources that administrators can use to access the Check Point 1430/1450 Appliance. You can also configure the Web and SSH ports.

First set the interface sources from which allowed IP addresses can access the appliance.
To set the interface sources from which administrator access is allowed:
Select one or more of the options:

4. **LAN** - All internal physical ports
5. **Secured wireless** - Wireless networks with a secure password (only in Wireless Network models)
6. **VPN** - Using encrypted traffic through VPN tunnels from a remote site or using a remote access client
7. **Internet** - Clear traffic from the Internet (not recommended to allow access from all IP addresses)

To allow administrator access from any IP address:
1. Select the **Any IP address** option. This option is less secure and not recommended. It is recommended to allow access from the Internet to specific IP addresses only.
2. Change the **WEB Port (HTTPS)** and/or **SSH port** if necessary.
3. Click **Apply**. An administrator will be able to access Check Point 1430/1450 Appliance using any IP address through the allowed interface sources.

To allow administrator access from specified IP addresses:
1. Select the **Specified IP addresses only** option.
2. Click **New**.
   The **IP Address Configuration** page shows.
3. Define the IPv4 address as either:
4. **IP address** - Manually enter the IP address or click **Get IP from My Computer**.
5. **Specific Network** - Manually enter the **Network IP** and **Subnet mask**.
6. Click **Apply**.
   The IP address is added to the table.
7. Change the **WEB Port (HTTPS)** and/or **SSH port** if necessary.
8. Click **Apply**. An administrator will be able to access Check Point 1430/1450 Appliance using the configured IP addresses through the allowed interface sources.

To allow administrator access from the Internet for specified IP addresses and from any IP address for other sources:
Select this option when it is necessary to allow administrator access from the Internet (you must define the specific IP addresses). Access from other sources is allowed from any IP address.

1. Select the **Internet** source checkbox.
2. Select the **Specified IP addresses from the internet and any IP address from other sources** option.
3. Click **New**.
   The **IP Address Configuration** page shows.
4. Define the IPv4 address as either:
5. **IP address** - Manually enter the IP address or click **Get IP from My Computer**.
6. **Specific Network** - manually enter the **Network Address** and **Subnet Mask**.
7. Click **Apply**.
   The IP address is added to the table.
8. Change the **WEB Port (HTTPS)** and/or **SSH port** if necessary.

9. Click **Apply**. An administrator will be able to access Check Point 1430/1450 Appliance using the configured IP addresses through the allowed interface sources.

**To delete administrator access from a specific IP address:**

1. Select the IP Address you want to delete from the IP Address table.
2. Click **Delete**.

**Important Notes:**

- Configuring different access permissions for LAN and Internet is not supported when your Internet Connection is configured in bridge mode (the option **Allow administration access from** does not show Internet or LAN).
- An automatic implied rule is defined to allow the access specified here. There is no need to add an explicit rule in the Security Policy in SmartDashboard to allow this access. To override this, go to **SmartDashboard > Firewall Implied Rules** section and clear the option **Accept Web and SSH connections for gateway’s administration**.

For your convenience, when you block the IP address or the interface source through which you are currently connected, you will not be disconnected immediately. The access policy is applied immediately, but your current session remains active until you log out.

**Managing Device Details**

In the **Device > Device Details** page, you can enter a name for the appliance.

- Enter an **Appliance Name** for the appliance that is used to identify the Check Point 1430/1450 Appliance.

3. The Appliance Name can only contain alphanumeric characters and the hyphen character.
4. The hyphen character should not be used as the first or last character.

- In wireless devices only - You can also configure the **Country** on this page. The allowed wireless radio settings vary according to the standard of each country.

**Important** - If the gateway’s Internet connection is assigned an IP address dynamically and the identifier option in SmartDashboard is set to Gateway name, the Appliance Name must be identical to the Check Point 1430/1450 Appliance name defined for the Check Point 1430/1450 Appliance object in SmartDashboard.

**Managing Date and Time Settings**

The **Device > Date and Time** page shows the current system time and lets you define the Check Point 1430/1450 Appliance date and time, optionally using NTP.

**To manually configure date and time:**

1. Select the **Set Date and Time Manually** option.
2. Enter the current **Date** and **Time**. Click the calendar icon to enter the date. Specify whether the time is AM or PM.
3. Click **Apply**.
To use Network Time Protocol (NTP) to synchronize the clocks of computers on the network:

1. Select the **Set Date and Time Using a Network Time Protocol (NTP) Server** option.
2. Enter the Host name or IP addresses of the **Primary NTP Server** and **Secondary NTP Server**. If the Primary NTP Server fails to respond, the Secondary NTP Server will be queried.
3. Set the **Update Interval (minutes)** field.
4. Select the **NTP Authentication** checkbox if you want to supply a **Shared Secret** and a **Shared Secret Identifier** (this is optional). You cannot use these characters when you enter a password or shared secret: { } [ ] ` ` ~ | ' " # +
5. Click **Apply**.

**Time Zone**

1. From the **Local Time Zone** list, select the correct time zone option.
2. Select the **Automatically adjust clock for daylight saving changes** checkbox to enable automatic daylight saving changes.
3. Click **Apply**.

**Configuring DDNS and Access Services**

In the **Device > DDNS & Device Access** page, you can:

- Configure DDNS account details in one of the supported providers.
- Configure a service that lets you remotely connect to the appliance in instances where it is behind NAT, a firewall, or has a dynamically assigned IP address.

**DDNS**

When you configure DDNS, the appliance will update the provider with its IP addresses. Users can then connect to the device using a host name given by the provider instead of IP addresses. This is especially important for remote access users who connect to the device to the internal network through VPN.

**To configure DDNS:**

1. Select **Connect to the appliance by name from the Internet (DDNS)** to enable this service.
2. Enter the details of your account on the page:
3. **Provider** - Select the DDNS provider that you have already set up an account with.
4. **User name** - Enter the user name of the account.
5. **Password** - Enter the password of the account. You cannot use these characters when you enter a password or shared secret: { } [ ] ` ` ~ | ' " # +
6. **Host name** - Enter your routable host name as defined in your DDNS account. For more information about these details, refer to your provider’s website.
7. Make sure **Reinitialize internal certificates** is selected. When you enable this feature or change settings, reinitialization of internal certificates is necessary for them to be valid for the new DNS.
Reach My Device

Reach My Device lets you remotely connect to the appliance from the Internet so that you can use the WebUI or CLI when necessary. This is done by tunneling the administrative UI or CLI connections through a Check Point Cloud Service. Such configuration is very useful in instances where the appliance is behind a NAT device or firewall, and cannot be reached directly. In addition, the feature makes it easier to access an appliance with a dynamically assigned IP address.

How it works
### Item | Description
--- | ---
1 | Register the Check Point 1430/1450 Appliance to the Check Point Cloud Service - When you first enter the **Device > DDNS & Device Access** page you see a link to register the appliance. Use the procedure below to register the appliance to the service.

2 | Upon successful registration - An outgoing tunnel to the Check Point Cloud Service is established with the appliance’s IP address.
   
   In the WebUI, the **Device > DDNS & Device Access** page shows:
   - **Validation token** - A token you enter to make sure the host name is valid. This token is used to verify that an existing name actually belongs to this appliance owner.
   - **Web link** - Use this URL in a browser to remotely access the appliance.
     For example: https://mygateway-web.smbrelay.checkpoint.com
     When the login page is shown, enter the applicable user name and password.
   - **Shell link** - Use this URL in a browser to open an SSH connection to the appliance in order to use CLI commands.
     For example: https://mygateway-shell.smbrelay.checkpoint.com
     Enter the administrator credentials.

3 | When an administrator requires access to the WebUI or CLI, the applicable URL is entered in a browser and gets to the Web Service in the cloud.

4 | The administrator gains access to the appliance WebUI or CLI through a pipe established by the Check Point Cloud Service to the appliance.

To register to allow connections to the appliance when it is unreachable from the Internet:

1. Click **Register**.
   
   The Reach My Device window opens.

2. In **Host name**, use the default host name or enter a name for this Check Point 1430/1450 Appliance to enable remote access to it.

3. If the host name has already been defined, select **Register with an existing home name** and enter the **Validation token** of the gateway.

4. Click **Apply**.
   
   The validation token, web link, and shell link are shown on the **DDNS & Appliance Access** page.

5. Go to the **Device > Administrator Access** page and make sure to configure **Internet** as a source for administrator access and set specified IP addresses.

### Using System Tools

See Using System Tools (on page 51).

### Configuring High Availability

The Security Gateway is not part of a Security Cluster. To define it as a cluster member, define a Security Cluster object in your Security Management Server and install a security policy.
Configuring Advanced Settings
The Device > Advanced Settings page is for advanced administrators or Check Point support. You can configure values for multiple advanced settings for the various blades.

⚠️ Important - Changing these advanced settings without fully understanding them can be harmful to the stability, security, and performance of this appliance. Continue only if you are certain that you understand the required changes.

For further details regarding the attributes, consult with Check Point support when necessary.

To filter the list of attributes:
1. Enter text in the Type to filter field.
   The search results are dynamically shown as you type.
2. To cancel the filter, click X next to the search string.

To configure the appliance attributes:
1. Select an attribute.
2. Click Edit.
   The attribute window opens.
3. Configure the settings, or click Restore Defaults to reset the attribute to the default settings.
   For more details on some of the attributes, see the below list of attributes.
4. Click Apply.
   The appliance attribute is configured.

To reset all the appliance attributes to the default settings:
1. From the Advanced Settings window, click Restore Defaults.
   The Confirm window opens.
2. Click Yes.
   All appliance attributes are reset to the default settings.

Additional Information for Attributes

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHCP relay</td>
<td>Select Use internal IP addresses as source if DHCP relay packets from the appliance will originate from internal IP addresses. This may be required if the DHCP server is located behind a remote VPN site.</td>
</tr>
<tr>
<td>Hotspot</td>
<td>Select Disabled to disable the hotspot feature entirely.</td>
</tr>
</tbody>
</table>
### Attribute Configuration

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial port</td>
<td>With the serial port parameters you can configure the console port on the back panel of the appliance. You can disable it completely (clear the Enable serial port checkbox) if necessary and configure port speed and flow control settings. Note that these settings must match the configuration of the device connected to the console port. There are three modes for working with this port: <strong>Console</strong> - This is the default mode configured. The port is used to access the appliance’s console. <strong>Active</strong> - Instead of connecting through the port to the appliance’s console, the data is relayed to a specified telnet server which can now be viewed through this port. Enter the Server TCP port of the telnet server and the IP address of the server. Two different IP server IP addresses can be configured (Primary server and Secondary server). <strong>Passive</strong> - In this mode the flow of data is reversed and the appliance connects through the serial port to the console of the connected device. This console will be accessible through a telnet connection to a configured port on the appliance. In Listen on TPC port, enter the port number. You must manually define an access rule in the Firewall rule base in SmartDashboard. Two appliances, one in active mode and the other in passive mode, can allow a client to remotely connect to a console connected to the appliance in passive mode over the internet using a telnet connection.</td>
</tr>
<tr>
<td>Flow control Mode</td>
<td></td>
</tr>
<tr>
<td>Port speed</td>
<td></td>
</tr>
</tbody>
</table>

### Managing Users and Objects

This section describes how to set up and manage local administrators, authentication servers, and network resources.

#### Configuring Local System Administrators


#### Managing Authentication Servers

In the Users & Objects > Authentication Servers page you can define and view different authentication servers where users can define both an external user database and the authentication method for users in that database.
You can define this type of authentication server:

- **RADIUS server** - Define the details of a primary and secondary RADIUS server. The Check Point 1430/1450 Appliance can connect to these servers and recognize users defined in them and authenticated by them.

**To add a RADIUS server:**

1. Click **RADIUS servers**.
2. In the Primary tab, enter this information:
   - **IP address** - Where the RADIUS server is deployed.
   - **Port** - The port number to which the RADIUS server communicates with clients. The default is 1812.
   - **Shared secret** - The secret between the RADIUS server and the Check Point 1430/1450 Appliance.
     - **Show** - Displays the shared secret.
   - **Timeout (seconds)** - A timeout value in seconds.
3. Repeat step 2 for a Secondary RADIUS server if applicable.
4. Click **Apply**.

   The primary and/or secondary servers are added to the RADIUS section on the page.

RADIUS servers can be used for defining administrators. See the **Users & Objects > Administrators** page.

### Managing System Services

The **Users & Objects > Services** page lists the system services configured in the system. In this page you can add new services, edit services, and delete services.

You use service objects to easily define the different network protocols. Usually using IP protocol and ports (used by the TCP and UDP IP protocols).

These objects can be used to define policy based routing in the **Device > Routing** page.

**To create a new service:**

1. Click **New**.
2. In the **Service** tab, enter information in the fields that apply to the type of service you select.
   - Note that not all fields may show:
3. **Name** - Enter the service’s name.
4. **Type** - Select the service type from the list:
   - **TCP**
   - **UDP**
   - **ICMP** - Choose this option if it is necessary to represent a specific option within the ICMP protocol. Note that this is an advanced option.
   - **Other** - Choose this option to represent any IP protocol other than TCP or UDP.
5. **Ports** - Enter the port(s) if you selected **Type** - TCP or UDP. Port numbers and/or ranges can be entered by separating with commas.
6. **IP Protocol** - Enter the IP protocol if you selected **Type** - Other.
7. **ICMP type** and **ICMP code** - Enter the ICMP type and code that you want the service object to represent as listed in RFC 792. This option is only relevant if you selected **Type** - ICMP.
8. **Comments** – Enter an optional comment.
9. **Disable inspection for this service** – Select this checkbox to disable deep inspection of traffic matching this service. This option is only available for built-in services.
10. Click **Apply**.

**To edit a service:**
1. Select a service from the list.
2. Click **Edit**.
3. Make the necessary changes. Note that not all fields can be edited.
4. Click **Apply**.

**To delete a service:**
1. Select the service from the list. Note that you can only delete a user defined service.
2. Click **Delete**.
3. Click **Yes** in the confirmation message.

**To filter for a specified service:**
1. In the **Type to filter** box, enter the service name or part of it.
2. As you type, the list is filtered and shows matching results.

### Managing Service Groups

The **Users & Objects > Service Groups** page lists the service groups defined in the system. In this page you can add new service groups, and edit or delete existing service groups.

There are built in service groups for common services.

**To create a new service group:**
1. Click **New**.
   - The New Service Group window opens.
2. Enter a **Name** for the group and **Comments** (optional).
3. Click **Select** to show the full list of available services and choose the relevant checkboxes.
4. Click **New** if the existing list does not contain the services you need. For information on creating a new service object, see the **Users & Objects > Services** page.
5. Click **Apply**.
   - The New Service Group window opens and shows the services you selected.
6. You can also click **New** from the New Service Group window.
7. To remove a service object from the group list, select it and click **Remove**.
8. Click **Apply**.
   - The service group is added to the list of groups.

**To edit a service group:**
1. Select a group from the list.
2. Click **Edit**.
3. Make the necessary changes.
4. Click **Apply**.
To delete a service group:
1. Select the group from the list.
2. Click Delete.
3. Click Yes in the confirmation message.

To filter for a specified service group:
1. In the Type to filter box, enter the service group name or part of it.
2. As you type, the list is filtered and shows matching results.

Managing Network Objects

The Users & Objects > Network Objects page lists the network objects defined in the system. In this page you can add new network objects, edit network objects, and delete network objects. These objects can be used as hosts for the internal DNS service and their IP addresses can be configured as fixed for the internal DHCP service.

These are the available network object types:

- **Single IP** - A network object that represents a device with a single IP address.
- **IP Range** - A network object that represents a range of IP addresses.
- **Network** - A network object that represents a network.

To create a Single IP network object:
1. Click New or the Add link.
2. In Type, select Single IP.
3. Enter an IP address and Object name.
4. Select or clear these options as necessary:
5. **Allow DNS server to resolve this object name** - When the gateway is the DNS server for your internal networks the name of the server/network object will be translated to its IP address if this option is selected.
6. **Exclude from DHCP service** - The internal DHCP service will not distribute the configured IP address of this server/network object to anyone.
   - **Reserve IP address in DHCP service for MAC** - The internal DHCP service will distribute the configured IP address only to this server/network object according to its MAC address.
   - **Enter the MAC address** - This is required for IP reservation. When you create the object from the Active Computers page, the MAC address is detected automatically.

7. Click Apply.

To create an IP Range network object:
1. Click New.
2. In Type, select IP Range.
3. In the Start IP and End IP fields, enter the IP addresses that represent the start of the IP range and end of the IP range.
4. Enter the Object name.
5. Select or clear this option as necessary:

6. **Exclude from DHCP service** - The internal DHCP service will not distribute the configured IP range to anyone.

7. Click **Apply**.

To create a Network type network object:

1. Click **New**.
   
The New Network Object window opens.

2. In **Type**, select **Network**.

3. Enter a **Network address** and **Subnet mask**.

4. Enter the **Object name**.

5. Click **Apply**.

To edit a network object:

1. Select a network object from the list.

2. Click **Edit**.

3. Make the necessary changes.

4. Click **Apply**.

To delete a network object:

1. Select the network object from the list.

2. Click **Delete**.

3. Click **Yes** in the confirmation message.

To filter for a specified network object:

1. In the **Type to filter** box, enter the name of the network object or part of it.

2. As you type, the list is filtered and shows matching results.

---

### Managing URLs Lists

The **Users & Objects > URLs Lists** page lets you override central management’s URL filtering policy in your local Check Point 1430/1450 Appliance. Use this feature to define URL blacklists and whitelists exceptions to the global policy, whose content can be edited per gateway. Before you can use this feature, the system administrator of the Security Management Server that centrally manages this gateway must complete prerequisite steps.

You can use this page to manage URLs lists:

- Add new URLs/IP addresses or regular expressions to URLs lists.
- Edit existing URLs/IP addresses or regular expressions from URLs lists.
- Delete existing entries in URLs lists.
- Enable and disable this feature.
Prerequisite steps for the system administrator of the Security Management Server:

1. Turn on the Application Control blade for the gateway object that represents this Check Point 1430/1450 Appliance.
2. Configure custom applications in SmartDashboard with these guidelines:
   a) Use the prefix: LOCAL_ (case-sensitive) when naming a custom application. For example, LOCAL_whitelist or LOCAL_blacklist.
   b) Enter at least one URL for this custom application, it can be a dummy URL. The actual list of URLs to allow or block is defined locally in the Check Point 1430/1450 Appliance.
3. Create rules in the Application Control Rule Base using the custom defined applications with the LOCAL_ prefix. Make sure to add the rules in positions that make sense in the Rule Base.
4. Install policy (on the specified gateway).

Steps for the system administrator of this Check Point 1430/1450 Appliance:

1. On this page, set Local URLs Lists Management to ON.
2. Add URLs/IP addresses or regular expressions to the predefined URLs lists (the custom applications defined in Security Management Server).
   
   **Note** - The names of the predefined URLs lists will NOT show the LOCAL_ prefix that was used to define the application in Security Management Server. For example, LOCAL_whitelist will be shown as just whitelist.

   **Important** -
   - If Application Control is turned off or no custom applications have been defined in the Security Management Server, this page is empty and shows a message that informs that local URLs can only be defined after URLs lists are predefined in the appliance’s security policy.
   - If a list was removed or renamed in the Security Management Server, a warning is shown above the table and next to the URLs List in the table.

To create a new URLs list entry:

1. Click New.
2. Select URL/IP Address or Regular Expressions.
   
The New URL/IP Address or New Regular Expressions window opens.
3. Select the applicable URLs list from the list.
4. Enter a URL/IP Address or a regular expression for the URLs list.
5. Click Apply.
   
The URL is added to the list of entries for the specified URLs list in the table.

To edit a URLs list entry:

1. Select an entry from the list.
2. Click Edit.
3. Make the necessary changes.
4. Click Apply.
To delete a URLs list entry:
1. Select an entry from the list.
2. Click Delete.
3. Click Yes in the confirmation message.

To filter for a specified URLs list:
Do one of these:
- In the All Lists box, select the URLs list.
- In the Type to filter field, enter the URLs list name to shows matching results.

Logs and Monitoring
This section describes the security and system logs. It also describes various monitoring tools.

Viewing Security Logs
The Logs & Monitoring > Security Logs page lets you browse the last 100 log records. These logs are sent to SmartView tracker, but are also available on this page, for your convenience. Note that the number of logs shown is not configurable, and is not related to the SmartDashboard setting “GW properties > Logs and alert > Max log size...” (This setting only applies to logs that are saved by the gateway when the Security Management Server cannot be reached).

To search for a security log:
Enter your query in the Enter search query box. Use this syntax:
`<IP_address>', '<column_name>:<value>', '<column_name>:<value>'`
For example:
`'203.0.113.64','action:drop','source port:22'`
For more details, click Query Syntax in the table header.

To see the security log record:
1. Select a log entry from the list.
2. Click View Details or double-click the entry.
   The log record opens.

To refresh the security log data:
Click the double arrow refresh icon.

To stop local logging:
When necessary, you can stop local logging to remove the overhead of creating and maintaining logs to improve performance. No new logs are generated until you set the resume option.
1. Select Options > Stop local logging.
2. To resume, select Options > Resume local logging.
Logs can be stored either centrally or locally. Logs can be stored locally on the appliance’s non-persistent memory or on an external SD card (persistent). When you insert an SD card, it mounts automatically then local logs are saved to it. Before ejecting an SD card, make sure to unmount it. Select Options > Eject SD card safely.

To delete logs from local log storage:
2. Click Yes to delete logs.

The logs are deleted, and the logs grid reloads automatically.

Note - Logs are deleted from either the external SD card (if inserted) or from the local logs storage. Logs are not deleted from the remote logs server. Logs can be stored either centrally or locally. For local storage, you can use an SD card.

Before ejecting an SD card, make sure to unmount it from the Options menu, select Eject SD card safely.

Viewing System Logs

The Logs & Monitoring > System Logs page shows up to 500 systems logs generated from the appliance at all levels except for the debug level. These logs should be used mainly for troubleshooting purposes and can also give the administrator notifications for events which occurred on the appliance.

These are the system logs types:
- **Info** - Informative logs such as policy change information, administrator login details, and DHCP requests.
- **Notice** - Notification logs such as changes made by administrators, date, and time changes.
- **Warning** - Logs that show a connectivity or possible configuration failure. The problem is not critical but requires your attention.
- **Error** - System errors that alert you to the fact that a specific feature is not working. This can be due to misconfiguration or connectivity loss which requires the attention of your Internet Service Provider.

To download the full log file:
1. Click Download Full Log File.
2. Click Open or Save.

To save a snapshot of the system logs to the flash disk:
1. Select Save a snapshot of system logs to flash.
2. Enter a minute value for the interval. The default is 180 minutes (3 hours). The minimum value is 30 minutes.
3. Click Apply.

This is an effort to keep system logs persistent across boot, but not 100% guaranteed.

To refresh the system logs list:
Click Refresh. The list is refreshed.
To clear the log list:
1. Click Clear Logs.
2. Click OK in the confirmation message.

Configuring External Log Servers

The Logs & Monitoring > Log Servers page lets you configure external log servers for security and system logs when necessary for additional logging storage.

Note - You cannot configure external log servers when Cloud Services is turned on.

External Security Log Server

You can use an external Check Point log server that is managed by a Security Management Server for storing additional logs.

Before you can configure an external Check Point log server from this page in the WebUI, make sure to do these steps:

- Identify the Log Server you want to send logs to
- Identify the Security Management Server that manages the Log Server
- Open SmartDashboard on this Security Management Server
- Run the Security Gateway wizard to define and create a Security Gateway object that represents this Check Point 1430/1450 Appliance with these details:

3. In the General Properties window, select:
   - Gateway platform - Check Point 1430/1450 Appliance
   - Gateway IP address - Dynamic IP address

4. In the Trusted Communication window, from Gateway Identifier select MAC address or First to connect.

   For more information on using the Security Gateway wizard for object definition, see the Check Point Check Point 1430/1450 Appliance Centrally Managed Administration Guide.

- Install the database on the Security Management Server and other related objects.
To configure an external security log server:


2. Enter the **Management Server IP address**. This IP address is used only for establishing trusted communication between the Check Point 1430/1450 Appliance and the Security Management Server.

3. In **SIC name**, enter the SIC name of the log server object that was defined in SmartDashboard. You can get this name by using one of these methods:

4. Open GuiDBedit on the Security Management Server - From the Tables tab, expand **Table > Network Objects > locate the log server object > sic_name**.

5. Run this CLI command on the log server (using SSH or running the command on the physical machine):

   ```bash
   $CPDIR/bin/cpprod_util CPPROD_GetValue SIC MySICname 0
   ```

   Copy the SIC name value and paste it into the SIC name field on this page.

6. In **Set SIC One-time Password**, enter the same password that was entered for the Security Management Server and then enter it again in the **Confirm SIC One-time Password** field. You cannot use these characters when you enter a password or shared secret: `{ } [ ] ` ` ~ | ' “ # +

7. Select the **Log server uses different IP address** checkbox if the log server is not located on the Security Management Server.

8. Enter the **Log server IP address**.

9. Click **Connect**. A notification message is shown.

   **Important** - After successful configuration of the external log server, any changes you make in the WebUI configuration on this page requires reinitialization of the SIC in SmartDashboard. If you do not reinitialize SIC in SmartDashboard, connectivity to the log server can fail.

**External System Log Server Configuration (for system logs)**

To configure an external System Log server:

1. Click **Configure** next to the External System Log Server notification. The External System Log Server window opens.

2. Select the **Send system logs to an external System Log Server** checkbox.

3. Enter the **IP address**.

4. Enter the **Port**.

5. Click **Apply**.

To edit the external System Log server:

1. Click the server’s IP address.

2. Edit the necessary information.

3. Click **Apply**.

To delete the external System Log server:

Click **Delete**.

The server is deleted.
Managing Active Computers in Internal Networks

See Managing Active Computers in Internal Networks [on page 47].

Viewing VPN Tunnels

In the **VPN Tunnels** page you can see current VPN tunnels opened between this gateway and remote sites. Some sites are configured so tunnels are established only when necessary and some are configured with permanent tunnels. When the appliance is managed by Cloud Services, this table also shows the tunnels for the gateways in the community.

This page is commonly used to see the permanent tunnels. The table shows each tunnel’s details when there is an active VPN tunnel.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>Host name or IP address of the tunnel’s source gateway.</td>
</tr>
<tr>
<td>Site Name</td>
<td>Name of the VPN site name.</td>
</tr>
<tr>
<td>Peer Address</td>
<td>Host name or IP address of the tunnel’s destination gateway.</td>
</tr>
<tr>
<td>Community Name</td>
<td>If the gateways are part of a community configured by Cloud Services, this</td>
</tr>
<tr>
<td></td>
<td>column shows the community name with which the tunnel is associated.</td>
</tr>
<tr>
<td>Status</td>
<td>VPN tunnel status indication.</td>
</tr>
</tbody>
</table>

To filter the list:

In the **Type to filter** box, enter the filter criteria.

The list is filtered accordingly.

To refresh the list:

Click **Refresh** to manually refresh this page with updated tunnel information.

*Note* - This page is available from the **VPN** and **Logs & Monitoring** tabs.

Viewing Active Connections

The **Logs & Monitoring > Connections** page shows a list of all active connections.

The list shows these fields:

- Protocol
- Source Address
- Source Port
- Destination Address
- Destination Port
To filter the list:
In the **Type to filter** box, enter the filter criteria.
The list is filtered accordingly.

To refresh the list:
Click the **Refresh** link.

**Viewing Infected Hosts**

In the **Infected Hosts** page you can see information about infected hosts and servers in the internal networks. You can also directly create an exception rule for a specified protection related to an infected or possibly infected host or server.

The Infected Hosts table shows this information for each entry:

- **Icon** - Shows icons for the different classifications of infected hosts and servers:
  - **Infected host or server** - When the Anti-Bot blade detects suspicious communication between the host or server and an external Command & Control center due to a specified triggered protection.
  - **Possibly infected host or server** - When the Anti-Virus blade detects an activity that may result in host or server infection. For example:
    - When browsing to an infected or a potentially unsafe Internet site, there is a possibility that malware was installed.
    - When downloading an infected file, there is a possibility that the file was opened or triggered and infected the host or server.

- **Object name** - Shows the object name if the host or server was configured as a network object.
- **IP/MAC address**
- **Device/User Name** - Shows a device or user name if the information is available to the Check Point 1430/1450 Appliance through DHCP or User Awareness.
- **Incident type** - Shows the detected incident type:
  - 4. Found bot activity
  - 5. Downloaded a malware
  - 6. Accessed a site known to contain malware
- **Severity** - Shows the severity of the malware:
  - 7. Low
  - 8. Medium
  - 9. High
  - 10. Critical
- **Protection name** - Shows the Anti-Bot or Anti-Virus protection name.
- **Last incident** - The date of the last incident.
- **Incidents** - Shows the total number of incidents on the host or server in the last month. If there is a large amount of records, the time frame may be shorter.
To filter the infected hosts list:
1. Click Filter.
2. Select one of the filter options:
3. **Servers only** - Shows only machines that were identified as servers (and not any machine/device). Servers are defined as server objects in the system from the Access Policy > Servers page.
4. **Possibly infected only** - Shows only hosts or servers classified as possibly infected.
5. **Infected only** - Shows only hosts or servers classified as infected.
6. **High and above severity only** - Shows hosts and servers that are infected or possibly infected with malwares that have a severity classification of high or critical.

To add a malware exception rule for a specified protection:
1. Select the list entry that contains the protection for which to create an exception.
2. Click Add Protection Exception.
3. Click the links in the rule summary or the table cells to select network objects or options that fill out the exception rule fields.
4. **Scope** - Select either Any or a specific scope from the list. If necessary, you can create a New network object, network object group, or local user. If it is necessary to negate a specified scope, select the scope and select the Any Scope except checkbox.
   For example, if the scope of the exception should include all scopes except for the DMZ network, select DMZ network and select the Any Scope except checkbox.
5. **Action** - Select the applicable action to enforce on the matching traffic: Ask, Prevent, Detect or Inactive. See the Threat Prevention > Threat Prevention Blade Control page for a description of the action types.
6. **Log** - Select the tracking option: None, Log, or Alert. Logs are shown on the Logs & Monitoring > Security Logs page. An alert is a flag on a log. You can use it to filter logs.
7. Optionally add a comment in the Write a comment field.
8. Click Apply.
   The rule is added to Malware Exceptions on the Threat Prevention > Exceptions page.

To view the logs of a specified entry:
1. Select the list entry for which to view logs.
2. Click Logs.
   The Logs & Monitoring > Security Logs page opens and shows the logs applicable to the IP/MAC address.

**Viewing Monitoring Data**

The Monitoring page shows network, security, and troubleshooting information. Each time you enter this page, the latest data is shown. You can click Refresh to update information. To see a sample monitoring report, click Demo. To close the sample reports, click Back.

The number of current connections in the system is shown for VPN Tunnels, Active Computers, and Connections. You can click the links to open the corresponding WebUI pages.
The Monitoring page is divided into these sections:

- Network
- Security
- Troubleshooting

The sections can be expanded or collapsed by clicking the arrow icon in the section’s title bar.

**Network**

By default, network statistics are shown for the last hour. You can also see statistics for the last day. Select the applicable option **Last hour** or **Last day** from the Network section’s title bar.

The data is automatically refreshed for the time period:

- **Last hour** - At one minute intervals. For example, if you generate a report at 10:15:45 AM, the report represents data from 9:15 to 10:15 AM.
- **Last day** - At hourly intervals. For example, if you generate a report at 10:15 AM, the report represents data from the last 24 hours ending at 10:00 AM of the current day.

- **Bandwidth Usage** - The doughnut chart shows the top 10 applications or users that consumed the most bandwidth in the selected time frame (last hour or last day). Click the Applications or Users links to toggle between the statistics. To show user information the User Awareness blade must be activated.

- **Top Bandwidth Consuming** - Shows statistics for the top bandwidth consuming application, category, site, and user in percentages and the amount of traffic (MB or GB).

- **Traffic** - By default, shows the total amount of traffic received and sent in an area graph. The time axis reflects the time frame (last hour or last day) selected for the Network section. For last hour, the graph shows 5 minute intervals and for last day, hourly intervals. You can click the Received and Sent links to see only the amount of traffic received or sent. The orange area on the graph represents sent traffic. The blue area represents received traffic.

If you hover over a time interval, a popup box shows:

3. The date and time
4. The traffic sent or received
5. The total traffic for that time interval

- **Total traffic statistics** - Next to the area graph you can see total traffic statistics for the last day or hour.

**Security**

- **Infected hosts** - Shows the number of:
  6. Infected hosts
  7. Infected servers
  8. Recently active infected hosts

  You can click All Infected Hosts to open the Logs & Monitoring > Infected Hosts page.

- **High risk applications** - Shows:
  9. The number of high risk applications
  10. The most used high risk applications
  11. The top users of high risk applications.

  You can click Applications Blade Control to open the Access Policy > Firewall Blade Control page to see Applications and URL Filtering settings.
• **Security events** - Shows the number of:
  12. Anti-Bot malwares detected by the Security Gateway
  13. Anti-Virus malwares detected by the Security Gateway
  14. The number of IPS attacks.

Troubleshooting

• **System Resources** - Click **CPU, memory and disk usage** to see CPU, memory, and disk usage information.

• **Device Info** - Shows Security Gateway information.

• Links to pages that can be useful for monitoring and troubleshooting purposes.

  Note - This page is available from the **Home** and **Logs & Monitoring** tabs.

Viewing Reports

The **Reports** page shows network analysis, security analysis, and infected hosts reports by a selected time frame (monthly, weekly, daily, and hourly).

There are two elements that influence the times shown in reports:

• Rounding off of time

• System reboot

**Rounding Off of Time**

The times shown in generated reports are rounded down:

• For hourly reports - At one minute intervals. For example, if you generate a report at 10:15:45 AM, the report represents data from 9:15 to 10:15 AM.

• For daily reports - At hourly intervals. For example, if you generate a report at 10:15 AM, the report represents data from the last 24 hours ending at 10:00 AM of the current day.

• For weekly reports - At two hour intervals, starting with 00:00, 02:00, 04:00, 06:00 and so on. For example, if you generate a report at 09:55 AM, the report represents data from the last week ending at 08:00 AM of the current day.

• For monthly reports - At four hour intervals, starting with 00:00, 04:00, 08:00, 12:00 and so on. For example, if you generate a report at 11:15 AM, the report represents data from the last month ending at 08:00 AM of the current day.

**System Reboot**

In the first 24 hour cycle after an appliance starts up (after installation or an update), the system adds one more time interval to the delta of the next applicable report interval.

For example, for weekly reports that are generated at pair hour intervals, the appliance requires 2 more hours plus the delta for the first applicable pair hour.

• For an appliance that started at 00:00 AM - The first weekly report is generated at 04:00 AM. The total of 4 hours derives from the delta of the first applicable pair hour which is 02:00 and the added 2 hours. The total wait is 4 hours.

• For an appliance that started at 01:59 AM - The first weekly report is generated at 04:00 AM. The generated time derives from the delta of the first applicable pair hour which is 02:00 and the added 2 hours. The total wait is 2 hours.
After you start up an appliance, reports are generated:

- Hourly reports - 2-3 minutes from startup.
- Daily reports - 1-2 hours from startup.
- Weekly reports - 2-4 hours from startup.
- Monthly reports - 4-8 hours from startup.

Note - Only the last generated report for each report type is saved in the appliance. When you generate a new report, you override the last saved report for the specified type.

To generate a report:

Click the applicable time frame link at the top of the page (Monthly, Weekly, Daily or Hourly).

The line below the links shows the selected report and its time frame. To refresh the data shown, click Generate.

The report includes these sections:

- Executive Summary
- Table of Contents
- Report pages

Executive Summary

The first page of the report is the executive summary and shows:

- The number of Anti-Bot and Anti-Virus malwares detected by the Security Gateway and the number of IPS attacks.
- Top bandwidth consuming statistics by category, site, and user. You can click the Top category, Top site, or Top user link to get to the applicable report page. It also shows Bandwidth Usage by Applications statistics for the top 5 applications in a doughnut chart and total traffic received and sent.
- The number of infected hosts, servers, and recently active infected hosts.
- The number of high risk applications, the most used high risk applications, and the top users of high risk applications.
- The Security Gateway name, version, and MAC address.

Table of Contents

The table of contents contains links to the network analysis, security analysis, and infected hosts reports. Click a link to go directly to the selected section.

Report Pages

Each report page shows a detailed graph, table, and descriptions.

Note - This page is available from the Home and Logs & Monitoring tabs.
Using System Tools

See Using System Tools (on page 51).

SNMP

In the Logs & Monitoring > SNMP page you can configure SNMP settings for this gateway.

You can do these actions:

- Turn the SNMP agent on or off
- Configure SNMP settings (system location, system contact, and community string for SNMP v1 and v2 authentication)
- Add SNMP v3 users
- Configure the settings for SNMP Trap receivers
- Enable or disable SNMP traps that are sent to the trap receivers

To turn SNMP on or off:
1. Change the SNMP On/Off slider position to **ON** or **OFF**.
2. Click **Apply**.

SNMP must be set to on to configure all SNMP settings (users, traps, and trap receivers).

To configure SNMP settings:

Click **Configure**.

The Configure SNMP General Settings window opens. You can enable SNMP traps, configure system location and contact details, and enable SNMP versions in addition to v3.

SNMP v3 Users

- To add a new SNMP v3 user, click **New**.
- To edit an existing SNMP v3 user, select the user from the list and click **Edit**.
- To delete an SNMP v3 user, select the user from the list and click **Delete**.

SNMP Traps Receivers

You can add, delete, or edit the properties of SNMP trap receivers.

- To add an SNMP trap receiver, click **New**.
  
  **Note** - To add a new SNMP v3 trap receiver, there must be an SNMP v3 user defined for it.
- To edit an existing SNMP trap receiver, select the trap receiver from the list and click **Edit**.
- To delete an SNMP trap receiver, select the trap receiver from the list and click **Delete**.

SNMP Traps

You can enable or disable specified traps from the list and for some traps set a threshold value. The enabled traps are sent to the receivers.
To edit an SNMP trap:

1. Select the trap from the list and click **Edit**.
2. Select the **Enable trap** option to enable the trap or clear it to disable the trap.
3. If the trap contains a **value**, you can edit the threshold value when necessary.
4. Click **Apply**.

**Security Management Server SNMP Traps Settings**

SNMP Traps settings can also be centrally managed using the Security Management Server of this gateway.

To centrally manage SNMP traps settings, run the thresholds_config utility on the management server Command Line Interface (the SNMP settings are applied when installing the security policy on the gateway).

**Note** - If SNMP traps are enabled on this page, the gateway ignores SNMP traps settings that are sent from the Security Management Server.
Advanced Configuration

In This Section:

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- Upgrade Using a USB Drive .............................................. 100
- Boot Loader ........................................................................ 100
- Upgrade Using Boot Loader .............................................. 101
- Restoring Factory Defaults ............................................... 102
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Dynamic Routing

Dynamic Routing is supported using Gaia networking stacks. RIP, OSPF, BGP, and PIM are supported. Note that configuration is only supported through the CLI.

This is a sample OSPF interface configuration:

```
set ospf
   area <backbone | ospf_area> range ip_prefix <on | off>
   area <backbone | ospf_area> range ip_prefix restrict <on | off>
   stub-network ip_prefix <on | off>
   stub-network ip_prefix stub-network-cost <1-677722>

set ospf interface if_name
   area <backbone | ospf_area> <on | off>
   hello-interval <1-65535>
   hello-interval default
   dead-interval <1-65535>
   dead-interval default
   retransmit-interval <1-65535>
   retransmit-interval default
   cost <1-65535>
   priority <0-255>
   passive <on | off>
   virtual-address <on | off>
   authtype none
   simple password
   md5 key authorization key id secret md5 secret
   md5 key authorization key id
```

See the Gaia Advanced Routing Administration Guide for more information.

⚠️ Note - The save config and route map commands are not supported.
Upgrade Using a USB Drive

This section explains how you can upgrade the appliance with a USB drive without a console connection to the appliance. For more information, see Upgrade Using Boot Loader (on page 101).

Installing a new firmware image from a USB drive

Check Point releases new firmware images every so often. You can reburn the appliance using the image file and a USB drive. Note that you can also upgrade using the WebUI, in which case you will not lose your previous settings if the new image supports it. When you reburn a new image with a USB drive, the appliance deletes your previous settings and creates a new factory default image to which the appliance can return.

Note - The USB drive must be formatted in FAT32.

To upgrade to a new firmware image from a USB drive:

1. Disconnect the Check Point 1430/1450 Appliance from the power source.
2. Place the firmware image file on a USB drive, in the top folder. The firmware image file is recognized by its name so do not rename it.
3. Make sure the top folder of the USB drive does not contain any previous Boot loader or Firmware images (u-boot*.bin files or fw1*.img files).
4. Connect the USB drive to the USB port on the Check Point 1430/1450 Appliance.
5. Connect the appliance to the power source. After a few seconds, the Notice LED blinks until the system boots. When the system is up, the USB LED is on. After the system boot is complete, it checks the image version on the USB. If the file is valid, the LAN LEDs start to blink until the file is uploaded. After a few seconds, all of the LAN LEDs are on and the system reboots. When the Notice LED is off, the installation is complete and the appliance awaits your output.
6. Remove the USB drive.
7. As this operation has removed your previous settings please refer to the Getting Started Guide and reconfigure your appliance with the First Time Configuration Wizard.

Note - When you upgrade with a USB drive, you also replace the saved factory defaults image of the appliance as this method reburns the appliance.

Boot Loader

The Gaia Embedded Boot Menu shows during boot and is available by pressing Ctrl+C while the appliance is booting if you have a console connection. The menu contains the available options.

1. Start in normal Mode
2. Start in debug Mode
3. Start in maintenance Mode
4. Restore to Factory Defaults (local)
5. Install/Update Image/Boot-Loader from Network
6. Restart Boot-Loader
7. Run Hardware diagnostics
8. Upload preset configuration file

Please enter your selection:
When you are in Boot Loader, all interfaces are down and you can only activate them for options that require connectivity. At this point Check Point’s services are not active.

Options 1-3 start the appliance.

- Normal mode is the default boot mode for the appliance.
- Debug mode boot gives printouts of processes that are initialized during boot.
- Maintenance mode boots the machine and gives access only to the file system (network interfaces, Check Point processes and the appliance’s services are down).

**Note** - During normal/debug boot, if there is an error and the appliance cannot boot properly, it reverts to maintenance mode and the Power LED turns solid red.

Options 4-5 are explained in the subsequent sections.

Option 6 restarts the appliance.

Option 8 uploads a preset configuration file.

### Upgrade Using Boot Loader

To upgrade the Check Point 1430/1450 Appliance using U-boot (boot loader):

1. Connect to the appliance with a console connection (use the serial console connection on the back panel of the appliance), boot the appliance and press **Ctrl+C**. The Gaia Embedded Boot Menu is shown.

2. Press 5 to select **Install/Update Image/Boot-Loader from Network**.

3. You are asked if you want to manually load the image from a TFTP server, or if you want to use automatic mode with a bootp server.

4. If you choose manual mode, you are asked to fill in the IP of the Check Point 1430/1450 Appliance, the IP of the TFTP server, and the image name.

5. If you choose automatic mode, the procedure starts automatically to search for the bootp server.

6. While in menu mode, pressing **Ctrl+C** again returns you to the Boot Loader menu.

   During the upgrade, all LAN Link and Activity LEDs blink orange and green alternately to indicate progress. This takes up to a minute.

   Upon successful completion all LAN Link and Activity LEDs will light in green, and the appliance waits for you to press a key. Error in the upgrade process is indicated by all LAN Link and Activity LEDs blinking red.
Restoring Factory Defaults

The Check Point 1430/1450 Appliance contains a default factory image. When the appliance is turned on for the first time, it loads with the default image. As part of a troubleshooting process, you can restore the Check Point 1430/1450 Appliance to its factory default settings if necessary.

You can restore a Check Point 1430/1450 Appliance to the factory default image with the WebUI, Boot Loader, or a button on the back panel.

⚠️ **Important** - When you restore factory defaults, you delete all information on the appliance and it is necessary to run the First Time Configuration Wizard.

To restore factory defaults with the WebUI:

1. In the Check Point 1430/1450 Appliance WebUI, click **Device > System Operations**. The System Operations pane opens.
2. In the Appliance section, click **Factory Defaults**.
3. In the pop-up window that opens, click **OK**.
4. While factory defaults are being restored, all LAN Link and Activity LEDs blink orange and green alternately to show progress.
   - This takes some minutes. When this completes, the appliance reboots automatically.

To restore factory defaults with the button on the back panel:

1. Press the Factory Default button with a pin and hold it for at least 12 seconds.
2. When the Power and Notice LEDs are lit red, release the button. The appliance reboots itself and starts to restore factory defaults immediately.
3. While factory defaults are being restored, all LAN Link and Activity LEDs blink orange and green alternately to show progress.
   - This takes some few minutes. When this completes, the appliance reboots automatically.

To disable the option for reset to default:

Use this CLI command:

> set additional-hw-settings reset-timeout 0

To enable the option for reset to default:

Use this CLI command:

> set additional-hw-settings reset-timeout 12
To restore the Check Point 1430/1450 Appliance to its default factory configuration using U-boot (boot loader):

1. Connect to the appliance with a console connection (using the serial console connection on the back panel of the appliance).

2. Boot the appliance and press Ctrl-C.
   The Gaia Embedded Boot Menu is shown.
   Welcome to Gaia Embedded Boot Menu:
   1. Start in normal Mode
   2. Start in debug Mode
   3. Start in maintenance Mode
   4. Restore to Factory Defaults (local)
   5. Install/Update Image/Boot-Loader from Network
   6. Restart Boot-Loader
   7. Run Hardware diagnostics
   8. Upload preset configuration file
   Please enter your selection :

3. Enter 4 to select Restore to Factory Defaults (local).

4. When you are prompted: “Are you sure? [y/n]” choose y to continue and restore the appliance to its factory defaults settings.
   While factory defaults are being restored, all LAN Link and Activity LEDs will blink orange and green alternately to indicate progress. This will take up to a few minutes. Upon completion, the appliance will boot automatically.
Front Panel

Wired Model

1

2

3

4

5

6

7

WiFi Model

1

2

3

4

5

6

7

8
<table>
<thead>
<tr>
<th>Key</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1   | Alert LED                   | • Blinking green during boot.  
• Red when the appliance has a resource problem such as memory shortage.                                                                                                                                   |
| 2   | Internet LED                | • Green when connected to the Internet.  
• Blinking red when the Internet connection is configured but fails to connect.                                                                                                                        |
| 3   | SD LED                      | Green when SD is inserted.                                                                                                                                                                                   |
| 4   | USB LED                     | Green when a USB device is connected.                                                                                                                                                                          |
| 5   | LAN1-LAN6, DMZ, WAN LEDS    | Speed Indicator  
• Orange when the port speed is 1000 Mbps.  
• Green when the port speed is 100 Mbps.  
• Not lit when the port speed is 10 Mbps.  
Activity Indicator  
• Not lit when there is no link.  
• Green when there is a link but no traffic encountered.  
• Blinking green when encountering traffic.                                                                                                                                 |
| 6   | Power LED                   | • Green when the appliance is turned on.  
• Red when there is a boot error or the appliance is in maintenance mode.                                                                                                                                 |
| 7   | USB port                    | USB port that is used for:  
• Cellular and analog modems.  
• Reinstalling the appliance with new firmware.  
• Running a first-time configuration script.                                                                                                                                                                        |
| 8   | WiFi LED                    | {Only in WiFi models}.  
• Blinking green when there is WiFi activity.  
• Green when there is no WiFi activity.                                                                                                                                                                           |
Back Panel

Wired Model

WiFi Model
<table>
<thead>
<tr>
<th>Key</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ground (Earth)</td>
<td>Functional grounding.</td>
</tr>
<tr>
<td>2</td>
<td>DMZ and WAN ports</td>
<td>Built in Ethernet ports.</td>
</tr>
<tr>
<td>3</td>
<td>Console port</td>
<td>RJ45 or Mini USB Serial connection configured to 115200 bps by default. You can also use this port to connect an analog modem. <strong>Note</strong> - When both the RJ45 and Mini USB cables are connected, the Mini USB takes precedence.</td>
</tr>
<tr>
<td>4</td>
<td>Reboot button</td>
<td>Lets you forcibly reboot the appliance. The button is recessed into the appliance chassis to prevent accidental reboot. The appliance reboots after you press the button.</td>
</tr>
<tr>
<td>5</td>
<td>PWR+12VDC</td>
<td>Connects to the power supply unit’s cable. <strong>Note</strong> - The power unit cable must be securely screwed in to the appliance.</td>
</tr>
<tr>
<td>6</td>
<td>Factory Default button</td>
<td>Lets you restore the appliance to its factory defaults. The button is recessed into the appliance chassis to prevent accidental restoring of factory default settings. See Restoring Factory Defaults (on page 102).</td>
</tr>
<tr>
<td>7</td>
<td>LAN1-LAN6 ports</td>
<td>Built in Ethernet ports.</td>
</tr>
<tr>
<td>8</td>
<td>ANT1, ANT2 and ANT3</td>
<td>Ports for attaching wireless network antennas. [Only in WiFi models].</td>
</tr>
</tbody>
</table>
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