



## Cable and Register the Firewall

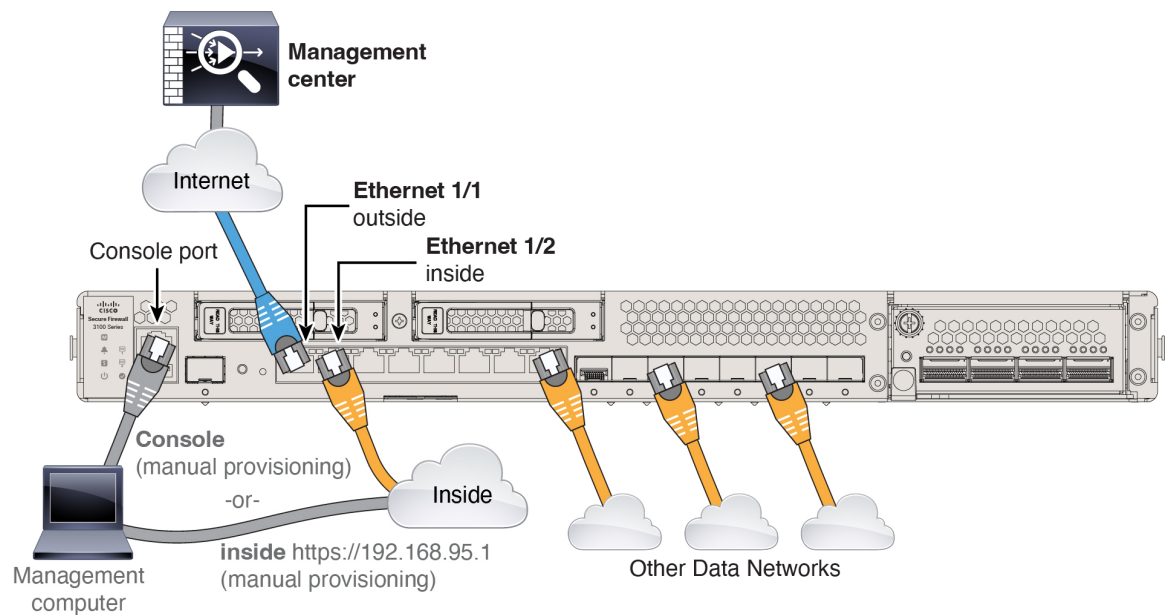
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Cable the firewall and then register the firewall to the management center.

- [Cable the Firewall, on page 1](#)
- [Perform Initial Configuration \(Manual Provisioning\), on page 2](#)
- [Register the Firewall with the Management Center, on page 11](#)

### Cable the Firewall

- (Optional) Obtain a console adapter—The firewall ships with a DB-9 to RJ-45 serial cable, so you may need to buy a third party DB-9-to-USB serial cable to make the connection.
- Install SFP/SFP+ modules into ports Ethernet 1/9 and higher.
- See the [hardware installation guide](#) for more information.
- If you use zero-touch provisioning, do not cable both the outside and the Management interface. This guide covers management on the outside interface, but you may want to use zero-touch provisioning on Management with high availability. If you use zero-touch provisioning on outside and want to use high availability, you will have to change the outside IP address to a static address after registration.



## Perform Initial Configuration (Manual Provisioning)

For manual provisioning, perform initial configuration of the firewall using the Secure Firewall device manager or using the CLI.

### Initial Configuration: Device Manager

Using this method, after you register the firewall, the following interfaces will be preconfigured in addition to the Management interface:

- Ethernet 1/1—**outside**, IP address from DHCP, IPv6 autoconfiguration
- Ethernet 1/2— **inside**, 192.168.95.1/24
- Default route—Obtained through DHCP on the outside interface
- Additional interfaces—Any interface configuration from the device manager is preserved.

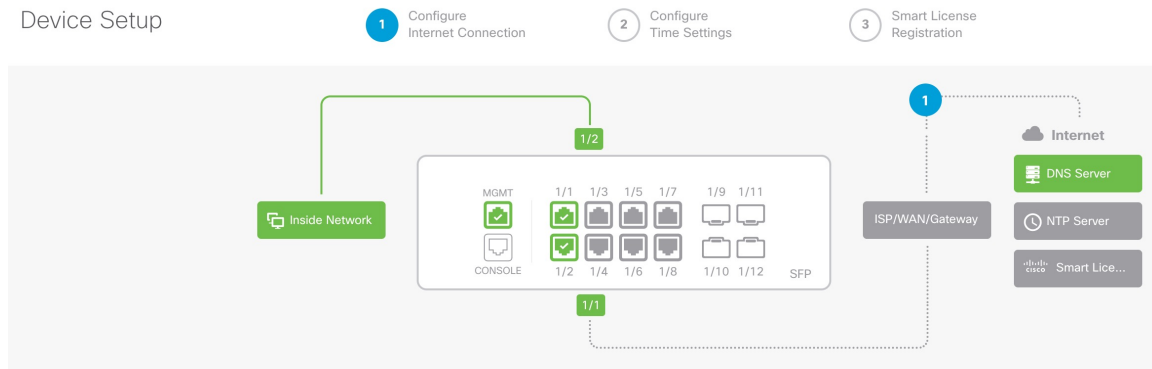
Other settings, such as the DHCP server on inside, access control policy, or security zones, are not preserved.

#### Procedure

**Step 1** Connect your computer to the inside interface (Ethernet 1/2).

**Step 2** Log into the device manager.

- Go to <https://192.168.95.1>.
- Log in with the username **admin** and the default password **Admin123**.
- You are prompted to read and accept the General Terms and change the admin password.

**Step 3** Use the setup wizard.**Figure 1: Device Setup****Note**

The exact port configuration depends on your model.

- a) Configure the outside and management interfaces.

**Figure 2: Connect firewall to internet**

### Connect firewall to Internet

The initial access control policy will enforce the following actions.  
You can edit the policy after setup.

<p>Rule 1</p> <p><b>Trust Outbound Traffic</b></p> <p>This rule allows traffic to go from inside to outside, which is needed for the Smart License configuration.</p>	<p>Default Action</p> <p><b>Block all other traffic</b></p> <p>The default action blocks all other traffic.</p>
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### Outside Interface Address

Connect Ethernet1/1 (Outside) to your ISP/WAN device, for example, your cable modem or router. Then, configure the addresses for the outside interface.

**Configure IPv4**

Using DHCP ▼

**Configure IPv6**

Using DHCP ▼

---

NEXT

Don't have internet connection?

[Skip device setup](#) ⓘ

1. **Outside Interface Address**—Use a static IP address if you plan for high availability. You cannot configure PPPoE using the setup wizard; you can configure PPPoE after you complete the wizard.

- 2. Management Interface**—The Management interface settings are used even though you are using manager access on the outside interface. For example, management traffic that is routed over the backplane through the outside interface will resolve FQDNs using these Management interface DNS servers, and not the outside interface DNS servers.

**DNS Servers**—The DNS server for the system's management address. The default is the OpenDNS public DNS servers. These will probably match the outside interface DNS servers you set later since they are both accessed from the outside interface.

### Firewall Hostname

- b) Configure the **Time Setting (NTP)** and click **Next**.

**Figure 3: Time Setting (NTP)**

Time Setting (NTP)

System Time: 11:56:20AM October 03 2024 -06:00

Time Zone for Scheduling Tasks

(UTC+00:00) UTC

NTP Time Server

Default NTP Servers

Server Name

0.sourcefire.pool.ntp.org

1.sourcefire.pool.ntp.org

2.sourcefire.pool.ntp.org

NEXT

- c) Select **Start 90 day evaluation period without registration**.

Register with Cisco Smart Software Manager

Register with Cisco Smart Software Manager to use the full functionality of this device and to apply subscription licenses.

[What is smart license? ↗](#)

☐ **Continue with evaluation period: Start 90-day evaluation period without registration**

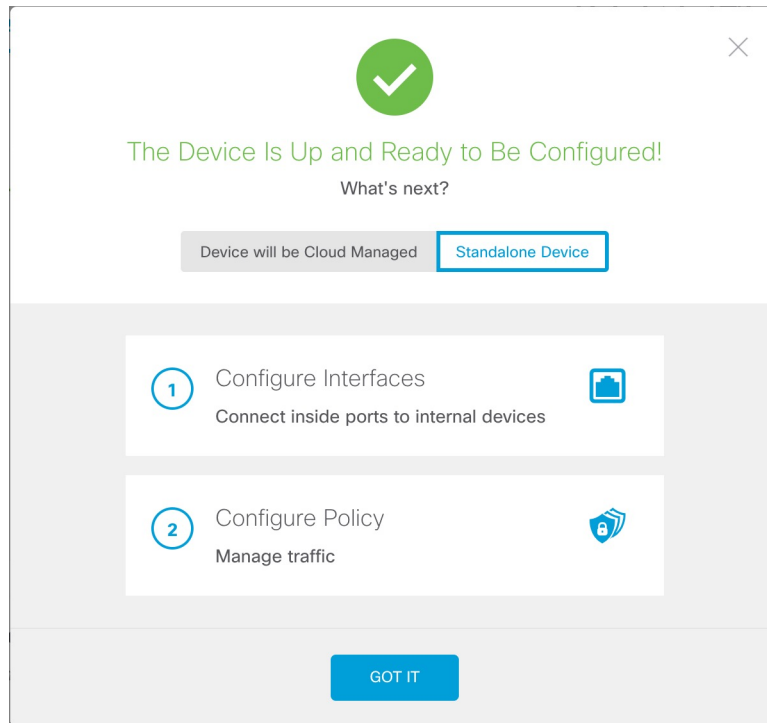
**Recommended if device will be cloud managed.** [Learn More ↗](#)

Please make sure you register with Cisco before the evaluation period ends. Otherwise you will not be able to make any changes to the device configuration.

*Do not register the threat defense with the Smart Software Manager; all licensing is performed on the management centerCDO.*

d) Click **Finish**.

**Figure 4: What's Next**



e) Choose **Standalone Device**, and then **Got It**.

**Step 4** If you want to configure additional interfaces, choose **Device**, and then click the link in the **Interfaces** summary.

**Step 5** Register with the management centerCDO by choosing **Device > System Settings > Central Management** and clicking **Proceed**

Configure the **Management Center/SCC/Details**.

**Note**


Older versions may show "CDO" instead of "SCC."

**Figure 5: Management Center/SCC Details**


### Management Center/SCC Details

Do you know the Management Center/SCC hostname or IP address?

☒ Yes ☐ No

**Threat Defense**  
  
10.89.5.4  
fe80::6a87:c6ff:fea6:5480/64


→

**Management Center/SCC**  
  
10.89.5.35

Management Center/SCC Hostname or IP Address

10.89.5.35

Management Center/SCC Registration Key

.... 

NAT ID

*Required when the management center/SCC hostname or IP address is not provided. We recommend always setting the NAT ID even when you specify the management center/SCC hostname or IP address.*

11204

### Connectivity Configuration

Threat Defense Hostname

1120-4

DNS Server Group

CustomDNSServerGroup

Management Center/SCC Access Interface

outside (Ethernet1/1)

Type: Static | IP Address: 10.89.5.6 / 255.255.255.192 [Edit](#)

**Before you connect to the management center or SCC, perform additional configuration:**

- [Add a static route](#) through the data management interface so the threat defense can reach the management center. Or [review your current static routes](#).
- Optional. [Add a Dynamic DNS \(DDNS\) method](#). Or [review your current DDNS methods](#). DDNS ensures the management center can reach the threat defense at its Fully-Qualified Domain Name (FQDN) if the threat defense's IP address changes.

CANCEL CONNECT

- For **Do you know the Management Center/SCC Hostname or IP address**, click **Yes** if you can reach the management center using an IP address or hostname or **No** if the management center is behind NAT or does not have a public IP address or hostname.
- If you chose **Yes**, enter the **Management Center/SCC Hostname/IP Address**.

- c) Specify the **Management Center/SCC Registration Key**.

This key is a one-time registration key of your choice that you will also specify on the management center when you register the firewall. The registration key must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-). This ID can be used for multiple firewalls registering to the management center.

- d) Specify a **NAT ID**.

This ID is a unique, one-time string of your choice that you will also specify on the management center. We recommend that you specify the NAT ID even if you know the IP addresses of both devices. The NAT ID must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-). This ID *cannot* be used for any other firewalls registering to the management center. The NAT ID is used in combination with the IP address to verify that the connection is coming from the correct device; only after authentication of the IP address/NAT ID will the registration key be checked.

**Step 6** Configure the **Connectivity Configuration**.

- a) Specify the **Threat Defense Hostname**.

This FQDN will be used for the outside interface.

- b) Specify the **DNS Server Group**.

Choose an existing group, or create a new one. The default DNS group is called **CiscoUmbrellaDNSServerGroup**, which includes the OpenDNS servers.

To retain the outside DNS server setting after registration, you need to re-configure the DNS Platform Settings in the management center.

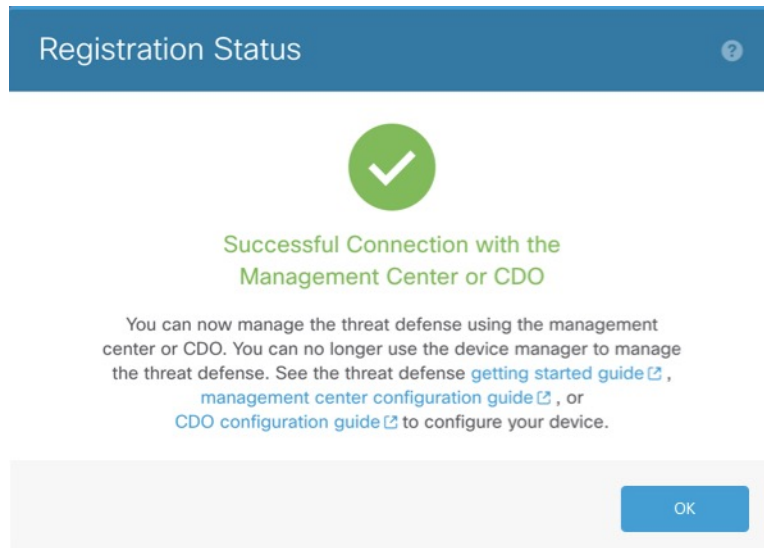
- c) For the **Management Center/SCC Access Interface**, click **Data Interface**, and then choose **outside**.

**Step 7** (Optional) Click **Add a Dynamic DNS (DDNS) method**.

DDNS ensures the management center can reach the threat defense at its FQDN if the threat defense's IP address changes.

**Step 8** Click **Connect**.

The **Registration Status** dialog box shows the current status of the management centerCDO registration.

**Figure 6: Successful Connection**

- Step 9** After the **Saving Management Center/SCC Registration Settings** step on the status screen, go to the management center CDO and add the firewall. See [Add a Device Using Manual Provisioning, on page 16](#).

## Initial Configuration: CLI

Set the dedicated Management IP address, gateway, and other basic networking settings using the CLI setup script.

### Procedure

- Step 1** Connect to the console port and access the threat defense CLI. See [Access the Threat Defense CLI](#).

- Step 2** Complete the CLI setup script for the Management interface settings.

#### Note

You cannot repeat the CLI setup script unless you clear the configuration, for example, by reimaging. However, all of these settings can be changed later at the CLI using **configure network** commands. See [Cisco Secure Firewall Threat Defense Command Reference](#).

```
You must accept the EULA to continue.
Press <ENTER> to display the EULA:
Cisco General Terms
[...]
```

```
Please enter 'YES' or press <ENTER> to AGREE to the EULA:
```

```
System initialization in progress. Please stand by.
You must configure the network to continue.
Configure at least one of IPv4 or IPv6 unless managing via data interfaces.
```



```
Do you want to configure IPv4? (y/n) [y]:
Do you want to configure IPv6? (y/n) [y]: n
```

**Guidance:** Enter **y** for at least one of these types of addresses. Although you do not plan to use the Management interface, you must set an IP address, for example, a private address.

```
Configure IPv4 via DHCP or manually? (dhcp/manual) [manual]:
```

**Guidance:** Choose **manual**. DHCP is not supported when using the outside interface for manager access. Make sure this interface is on a different subnet from the manager access interface to prevent routing issues.

```
Enter an IPv4 address for the management interface [192.168.45.61]: 10.89.5.17
Enter an IPv4 netmask for the management interface [255.255.255.0]: 255.255.255.192
Enter the IPv4 default gateway for the management interface [data-interfaces]:
```

**Guidance:** Set the gateway to be **data-interfaces**. This setting forwards management traffic over the backplane so it can be routed through the outside interface.

```
Enter a fully qualified hostname for this system [firepower]: 1010-3
Enter a comma-separated list of DNS servers or 'none' [208.67.222.222,208.67.220.220,2620:119:35::35]:
Enter a comma-separated list of search domains or 'none' []: cisco.com
If your networking information has changed, you will need to reconnect.
Disabling IPv6 configuration: management0
Setting DNS servers: 208.67.222.222,208.67.220.220,2620:119:35::35
Setting DNS domains:cisco.com
```

**Guidance:** Set the Management interface DNS servers. These will probably match the outside interface DNS servers you set later, since they are both accessed from the outside interface.

```
Setting hostname as 1010-3
Setting static IPv4: 10.89.5.17 netmask: 255.255.255.192 gateway: data on management0
Updating routing tables, please wait...
All configurations applied to the system. Took 3 Seconds.
Saving a copy of running network configuration to local disk.
For HTTP Proxy configuration, run 'configure network http-proxy'
```

```
Manage the device locally? (yes/no) [yes]: no
```

**Guidance:** Enter **no** to use the management center.

```
Setting hostname as 1010-3
Setting static IPv4: 10.89.5.17 netmask: 255.255.255.192 gateway: data on management0
Updating routing tables, please wait...
All configurations applied to the system. Took 3 Seconds.
Saving a copy of running network configuration to local disk.
For HTTP Proxy configuration, run 'configure network http-proxy'
```

**Guidance:** Enter **routed**. Outside manager access is only supported in routed firewall mode.

```
Configuring firewall mode ...
```

```
Device is in OffBox mode - disabling/removing port 443 from iptables.
Update policy deployment information
  - add device configuration
  - add network discovery
  - add system policy
```

You can register the sensor to a Firepower Management Center and use the Firepower Management Center to manage it. Note that registering the sensor to a Firepower Management Center disables on-sensor Firepower Services management capabilities.

When registering the sensor to a Firepower Management Center, a unique alphanumeric registration key is always required. In most cases, to register a sensor to a Firepower Management Center, you must provide the hostname or

the IP address along with the registration key.  
 'configure manager add [hostname | ip address ] [registration key ]'

However, if the sensor and the Firepower Management Center are separated by a NAT device, you must enter a unique NAT ID, along with the unique registration key.

'configure manager add DONTRESOLVE [registration key ] [ NAT ID ]'

Later, using the web interface on the Firepower Management Center, you must use the same registration key and, if necessary, the same NAT ID when you add this sensor to the Firepower Management Center.  
 >

### Step 3 Configure the outside interface for manager access.

#### configure network management-data-interface

You are then prompted to configure basic network settings for the outside interface.

#### Manual IP Address

```
> configure network management-data-interface
Data interface to use for management: ethernet1/1
Specify a name for the interface [outside]: internet
IP address (manual / dhcp) [dhcp]: manual
IPv4/IPv6 address: 10.10.6.7
Netmask/IPv6 Prefix: 255.255.255.0
Default Gateway: 10.10.6.1
Comma-separated list of DNS servers [none]: 208.67.222.222,208.67.220.220
```

**Guidance:** To retain the outside DNS servers after registration, you need to re-configure the DNS Platform Settings in the management center.

```
DDNS server update URL [none]:
Do you wish to clear all the device configuration before applying ? (y/n) [n]:

Configuration done with option to allow manager access from any network, if you wish to change the
manager access network
use the 'client' option in the command 'configure network management-data-interface'.

Setting IPv4 network configuration.
Network settings changed.

>
```

#### IP Address from DHCP

```
> configure network management-data-interface
Data interface to use for management: ethernet1/1
Specify a name for the interface [outside]:
IP address (manual / dhcp) [dhcp]:
DDNS server update URL [none]:
https://dwinchester:pa$$w0rd17@domains.example.com/nic/update?hostname=<h>&myip=<a>
Do you wish to clear all the device configuration before applying ? (y/n) [n]:

Configuration done with option to allow manager access from any network, if you wish to change the
manager access network
use the 'client' option in the command 'configure network management-data-interface'.

Setting IPv4 network configuration.
Network settings changed.
```

&gt;

**Step 4** Identify the management center.**configure manager add** {hostname | IPv4\_address | IPv6\_address | **DONTRESOLVE**} reg\_key nat\_id

- {hostname | IPv4\_address | IPv6\_address | **DONTRESOLVE**}—Specifies either the FQDN or IP address of the management center. If the management center is not directly addressable, use **DONTRESOLVE**, in which case the firewall must have a reachable IP address or hostname.
- reg\_key—Specifies a one-time registration key of your choice that you will also specify on the management center when you register the threat defense. The registration key must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-).
- nat\_id—Specifies a unique, one-time string of your choice that you will also specify on the management center. The NAT ID must be between 2 and 36 characters. Valid characters include alphanumerical characters (A–Z, a–z, 0–9) and the hyphen (-). This ID cannot be used for any other devices registering to the management center.

**Example:**

```
> configure manager add fmc-1.example.com regk3y78 natid56
Manager successfully configured.
```

**Step 5** Shut down the threat defense so you can send the device to the remote branch office.

It's important that you shut down your system properly. Simply unplugging the power or pressing the power switch can cause serious file system damage. Remember that there are many processes running in the background all the time, and unplugging or shutting off the power does not allow the graceful shutdown of your system.

- Enter the **shutdown** command.
- Observe the Power LED and Status LED to verify that the chassis is powered off (appear unlit).
- After the chassis has successfully powered off, you can then unplug the power to physically remove power from the chassis if necessary.

## Register the Firewall with the Management Center

Register the firewall with the management center depending on which deployment method you are using.

### Add a Device Using the Serial Number (Zero-Touch Provisioning)

Zero-Touch Provisioning lets you register devices to the management center by serial number without having to perform any initial setup on the device. The management center integrates with the Cisco Security Cloud and CDO for this functionality.



**Note** For management center version 7.4, you need to add the device using CDO; see the [7.4 guide](#) for more information. The native management center workflow was added in 7.6. Also, for cloud integration in 7.4, see the **SecureX Integration** page in the management center.

### Default Configuration

When you use zero-touch provisioning, the following interfaces are preconfigured. Note that other settings, such as the DHCP server on inside, access control policy, or security zones, are not configured.

- Ethernet 1/1—"outside", IP address from DHCP, IPv6 autoconfiguration
- Ethernet 1/2 (or for the , the VLAN1 interface)— "inside", 192.168.95.1/24
- Default route—Obtained through DHCP on the outside interface

### Requirements

Zero-Touch Provisioning is not supported with clustering or multi-instance mode.

High availability is only supported when you use the Management interface because zero-touch provisioning uses DHCP, which is not supported for data interfaces and high availability.

### Before you begin

- If the device does not have a public IP address or FQDN, set a public IP address/FQDN for the management center (for example, if it is behind NAT), so the device can initiate the management connection. See .

## Procedure

**Step 1** The first time you add a device using a serial number, integrate the management center with Cisco Security Cloud.

#### Note

For a management center high-availability pair, you also need to integrate the secondary management center with Cisco Security Cloud.

- Choose **Integration > Cisco Security Cloud**.
- Click **Enable Cisco Security Cloud** to open a separate browser tab to log you into your Cisco Security Cloud account and confirm the displayed code.

Make sure this page is not blocked by a pop-up blocker. If you do not already have a Cisco Security Cloud and CDO account, you can add one during this procedure.

For detailed information about this integration, see .

CDO onboards the on-prem management center after you integrate the management center with Cisco Security Cloud. CDO needs the management center in its inventory for zero-touch provisioning to operate. However, you do not need to use CDO directly. If you do use CDO, its management center support is limited to device onboarding, viewing its managed devices, viewing objects associated with the management center, and cross-launching the management center.

- Make sure **Enable Zero-Touch Provisioning** is checked.
- Click **Save**.

**Step 2** Choose **Devices > Device Management**.

**Step 3** From the **Add** drop-down menu, choose **Device (Wizard)**.

**Step 4** Click **Use Serial Number**, and then click **Next**.

**Figure 7: Device Registration Method**

1 Device registration method

Registration Key  
Register device using registration key

Serial Number  
Register one or more devices using the serial number (zero-touch provisioning)

Next

**Step 5** In a multi-domain environment, choose the **Domain** from the drop-down list and click **Next**.

**Figure 8: Domain**

Add Device(s)

1 Device registration method  
Device registration method Serial Number

2 Domain  
Domain \*  
Global/Pubs

3 Initial device configuration

4 Device details

Previous Next

Cancel Add Device

**Step 6** For the **Initial device configuration**, click the **Basic** radio button.

Figure 9: Initial Device Configuration Method

### Add Device (Wizard)

- Device registration method  
Device registration method **Serial Number**
- Management Center Role  
Management **Primary manager**
- Initial device configuration
 

**Choose initial device configuration method**

☒ Basic ☐ Device template

Apply basic configuration, including the access control policy.

**Access Control Policy \***

wfx\_automatio...

**Smart licensing**

Performance tier (threat defense virtual only)

FTDv50 - 10 Gbps

☒ Carrier

☒ Malware Defense

☒ IPS

☒ URL Filtering

Ensure that your smart licensing account has the required licenses.

☒ Transfer packet data as well as event data to the management center for inspection.
- Device details

Previous

- Choose an initial **Access Control Policy** to deploy to the device upon registration, or create a new policy.  
If the device is incompatible with the policy you choose, deploying will fail. This incompatibility could occur for multiple reasons, including licensing mismatches, model restrictions, passive vs inline issues, and other misconfigurations. After you resolve the issue that caused the failure, manually deploy configurations to the device.
- Choose **Smart licensing** licenses to apply to the device.  
You can also apply licenses after you add the device, from the **System > Licenses > Smart Licenses** page.
- Click **Next**.

**Step 7** Configure the **Device details**.

Figure 10: Device details

Add Device

1 Device registration method  
Device registration method **Serial Number**

2 Initial device configuration  
Access control policy **wfx\_automationPolicy123**

3 Device details

Configure the public IP address or FQDN for the Management Center, except in scenarios where the Threat Defense device is publicly reachable, running a version earlier than 7.4, and is connected to the data interface. To configure the public IP address or FQDN, go to [Configuration > Manager Remote Access](#).

Serial number  
JAD25440DW1

Display name  
FTD1

Device group  
Select...

**Set the device password**  
Enter a new password if you have not previously changed the device's default password.

New password  
.....

Confirm password  
.....

*Skip this field if you already changed the password on the device. If you provide a new password in this case, registration will fail.*

Previous

Cancel Add Device

- Enter the **Serial number**.
- Enter the **Display name** as you want it to display in the management center
- (Optional) Choose the **Device Group**.
- Set the device password**.

If this device is unconfigured or a fresh install, then you need to set a new password. If you already logged in and changed the password, then leave this field blank. Otherwise, registration will fail.

## Step 8 Click **Add Device**.

It may take up to two minutes for the management center to verify the device's heartbeat and establish communication. If the registration succeeds, the device is added to the list.

When using zero-touch provisioning on the outside interface, CDO acts as a DDNS provider and does the following:

- Enables DDNS on outside using the **FMC Only** method. This method is only supported for zero-touch provisioning devices.
- Maps the outside IP address with the following hostname: *serial-number.local*.
- Provides the IP address/hostname mapping to the management center so it can resolve the hostname to the correct IP address.
- Informs the management center if the IP address ever changes, for example, if the DHCP lease renews.

If you use zero-touch provisioning on the Management interface, DDNS is not supported. The management center must be publicly reachable so the device can initiate the management connection.

You can continue to use CDO as the DDNS provider, or you can later change the DDNS configuration in the management center to a different method.

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## Add a Device Using Manual Provisioning

Register the firewall to the management center manually using the device IP address or hostname and a registration key.

### Procedure

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- Step 1** Log into the management center.
- a) Enter the following URL.  
**`https://fmc_ip_address`**
  - b) Enter your username and password.
  - c) Click **Log In**.
- Step 2** Choose **Devices > Device Management**.
- Step 3** From the **Add** drop-down menu, choose **Device (Wizard)**.
- Step 4** Click **Registration Key**, and then click **Next**.



Figure 11: Device Registration Method

The screenshot shows the 'Add Device (Wizard)' interface. On the left, a vertical progress bar lists four steps: 1. Device registration method (highlighted with a blue circle), 2. Management Center Role, 3. Initial device configuration, and 4. Device details. The main content area is divided into two panels. The left panel, titled 'Registration Key', contains the text 'Register device using registration key'. The right panel, titled 'Serial Number', contains a message: 'Cisco Security Cloud integration is not enabled. To enable Cisco Security Cloud integration, go to [Integration > Cisco Security Cloud](#).' Below this message is a blue 'Next' button. At the bottom right of the wizard, there are 'Cancel' and 'Add Device' buttons.

**Step 5** In a multi-domain environment, choose the **Domain** from the drop-down list and click **Next**.

Figure 12: Domain

The screenshot shows the 'Add Device(s)' interface. On the left, a vertical progress bar lists four steps: 1. Device registration method, 2. Domain (highlighted with a blue circle), 3. Initial device configuration, and 4. Device details. The main content area shows the 'Device registration method' as 'Registration Key' and the 'Domain' as 'Global/Pubs' in a drop-down menu. Below the drop-down menu is a blue 'Next' button. At the bottom right of the wizard, there are 'Cancel' and 'Add Device' buttons.

**Step 6** Click **Primary manager**.

**Figure 13: Management Center Role**

The screenshot displays the 'Add Device (Wizard)' interface. At the top, the title 'Add Device (Wizard)' is followed by a help icon. A vertical progress bar on the left indicates four steps: 1. Device registration method, 2. Management Center Role (current step), 3. Initial device configuration, and 4. Device details. Under step 1, 'Device registration method', the option 'Registration Key' is selected. Under step 2, 'Management Center Role', the 'Primary manager' radio button is selected, and the 'Analytics-only manager (with Security Cloud Control)' option is also visible. A descriptive text below the radio buttons states: 'You are using this management center for all policy configuration, logging, analytics, and upgrading.' On the right side of the wizard, there are two sets of buttons: 'Previous' and 'Next' (highlighted in blue) for navigating between steps, and 'Cancel' and 'Add Device' (highlighted in blue) for completing the process.

**Step 7** For the **Initial Device Configuration**, click **Basic**.

Figure 14: Initial Device Configuration

### Add Device (Wizard)

- Device registration method  
Device registration method **Registration Key**
- Management Center Role  
Management **Primary manager**
- Initial device configuration
 

**Choose initial device configuration method**

☒ Basic ☐ Device template

Apply basic configuration, including the access control policy.

**Access Control Policy \***

wfx\_automatio... ⊙ ⌵ +

**Smart licensing**

Performance tier (threat defense virtual only)

FTDv50 - 10 Gbps ⌵

☒ Carrier

☒ Malware Defense

☒ IPS

☒ URL Filtering

Ensure that your smart licensing account has the required licenses.

☒ Transfer packet data as well as event data to the management center for inspection.
- Device details

Previous Next

Cancel Add Device

- Choose an initial **Access Control Policy** to deploy to the device at registration, or create a new policy. Unless you already have a customized policy you know you need to use, choose **Create new policy**, and choose **Block all traffic**. You can change this later to allow traffic; see [Configure an Access Control Rule](#).
- Choose **Smart Licensing** licenses to apply to the device.  
You can also apply licenses after you add the device, from the **System > Licenses > Smart Licenses** page, including the Secure Client remote access VPN license.
- Click **Next**.

**Step 8** Specify the **Device details**.

Figure 15: Device Details

**Add Device (Wizard)**

1 Device registration method  
Device registration method **Registration Key**

2 Management Center Role  
Management **Primary manager**

3 Initial device configuration  
Access control policy **wfx\_automationPolicy123**

4 Device details

Host: 10.89.5.41

Display name \*: 3110-1

Registration key \*: \*\*\*\*

Device group: Select...

Unique NAT ID: 31101

Note: Either Host or NAT ID is required.

Previous

Cancel Add Device

- For the **Host**, enter the IP address or the hostname of the device you want to add. Leave this field blank if you don't know the device IP address (for example, it's behind NAT).
- For the **Display name**, enter a name for the device as you want it to display in the management center. You cannot change this name later.
- For the **Registration Key**, enter the same registration key from your initial configuration.
- (Optional) Add the device to a **Device group**
- For the **Unique NAT ID**, enter the same ID from your initial configuration.
- Check **Transfer Packets** so that for each intrusion event, the device transfers the packet to the management center for inspection.

For each intrusion event, the device sends event information and the packet that triggered the event to the management center for inspection. If you disable it, only event information will be sent to the management center; the packet will not be sent.

## Step 9 Click **Add Device**.

It may take up to two minutes for the management center to verify the device's heartbeat and establish communication. If the registration succeeds, the device is added to the list. If it fails, you will see an error message. If the device fails to register, check the following items:

- Ping—Access the device CLI, and ping the management center IP address using the following command:

```
ping system ip_address
```

If the ping is not successful, check your network settings using the **show network** command. If you need to change the device IP address, use the **configure network {ipv4 | ipv6} manual** command.

- Registration key, NAT ID, and management center IP address—Make sure you are using the same registration key, and if used, NAT ID, on both devices. You can set the registration key and NAT ID on the device using the **configure manager add** command.

For more troubleshooting information, see <https://cisco.com/go/fmc-reg-error>.

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