



Freshly Install the Software

If you cannot or do not want to upgrade, you can freshly install major releases.

We do not provide installation packages for patches. To run a particular patch, install the appropriate major release, then apply the patch.

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Deciding to Freshly Install

Use this table to identify scenarios where you need to freshly install (also called *reimaging*). Note that for Firepower devices, in all of these scenarios—including switching device management between local and remote—you will lose device configurations.



Note Address licensing concerns before you reimage or switch management. If you are using Cisco Smart Licensing, you may need to unregister from the Cisco Smart Software Manager (CSSM) to avoid accruing orphan entitlements. These can prevent you from reregistering.

Table 1: Scenarios: Do You Need a Fresh Install?

Scenario	Solution	Cisco Smart Licensing
Upgrade FMC-managed devices from a much older Firepower version.	<p>The upgrade path from older versions can include intermediate versions. Especially in larger deployments where you must alternate FMC and device upgrade, this multi-step process can be time consuming.</p> <p>To save time, you can reimage older devices instead of upgrading:</p> <ol style="list-style-type: none"> 1. Remove the devices from the FMC. 2. Upgrade the FMC only to its target version. 3. Reimage the devices. 4. Re-add the devices to the FMC. 	Removing devices from the FMC unregisters them. Reassign licenses after you re-add the devices.
Change FTD management from FDM to FMC (local to remote).	Use the configure manager CLI command; see Cisco Firepower Threat Defense Command Reference .	Unregister the device before you switch management. Reassign its license after you add it to the FMC.
Change FTD management from FMC to FDM (remote to local).	<p>Use the configure manager CLI command; see Cisco Firepower Threat Defense Command Reference.</p> <p>Exception: The device is running or was upgraded from Version 6.0.1. In this case, reimage.</p>	Remove the device from the FMC to unregister it. Reregister using FDM.
Change ASA FirePOWER management between ASDM and FMC.	Start using the other management method.	Contact Sales for new Classic licenses. ASA FirePOWER licenses are associated with a specific manager.
Replace ASA FirePOWER with FTD on the <i>same</i> physical device.	Reimage.	Convert Classic to Smart licenses; see the Firepower Management Center Configuration Guide .
Replace NGIPSv with FTDv.	Reimage.	Contact Sales for new Smart licenses.
Uninstall an FTD patch with FDM.	<p>Reimage.</p> <p>You cannot uninstall patches in FDM deployments.</p>	Unregister the device before you reimage. Reregister after.
Return to a previous major release.	<p>Reimage.</p> <p>You cannot uninstall major upgrades. If possible, restore from backup.</p>	<p>Do not unregister before you reimage, and do not remove devices from the FMC. If you do, you must unregister again after you restore, then re-register.</p> <p>Instead, revert any licensing changes made since you took the backup. After the restore completes, reconfigure licensing. If you notice licensing conflicts or orphan entitlements, contact Cisco TAC.</p>

Scenario	Solution	Cisco Smart Licensing
Restore a failed FMC from backup.	In an RMA scenario, the replacement will arrive configured with factory defaults. However, if the replacement is already configured, we recommend you reimage before you restore.	Do not unregister before you reimage, and do not remove devices from the FMC. If you do, you must unregister again after you restore, then re-register. Instead, revert any licensing changes made since you took the backup. After the restore completes, reconfigure licensing. If you notice licensing conflicts or orphan entitlements, contact Cisco TAC.

Guidelines and Limitations for Fresh Installs

These general guidelines and warnings apply to reimages.

Reimaging Firepower 2100 Series Devices to Earlier Major Versions

We recommend that you perform complete reimages of Firepower 2100 series devices. If you use the erase configuration method, FXOS may not revert along with the Firepower Threat Defense software. This can cause failures, especially in high availability deployments.

For more information, see the reimage procedures in the [Cisco FXOS Troubleshooting Guide for the Firepower 1000/2100 Series Running Firepower Threat Defense](#).

Reimage Checklist

Reimaging returns most settings to factory defaults, including the system password. This checklist highlights actions that can prevent common reimage issues. However, this list is *not* comprehensive. Refer to the appropriate installation guide for full instructions: [Installation Instructions, on page 6](#).

Table 2: Firepower Reimage Checklist

✓	Action	Details
	Verify appliance access.	<p>If you do not have physical access to an appliance, the reimage process lets you keep management network settings. This allows you to connect to the appliance after you reimage to perform the initial configuration. If you delete network settings, you <i>must</i> have physical or Lights-Out Management (LOM) access to the appliance. Note that LOM is only supported on select appliances and must be already configured.</p> <p>Note Reimaging to an earlier major version automatically deletes network settings. In this rare case, you must have physical or LOM access.</p> <p>For devices, make sure traffic from your location does not have to traverse the device itself to access the device's management interface. In FMC deployments, you should also be able to access the FMC management interface without traversing the device.</p>

✓	Action	Details
	Perform backups.	<p>Back up Firepower appliances before reimage, when supported.</p> <p>Note that if you are reimaging so that you don't have to upgrade, due to version restrictions you cannot use a backup to import your old configurations. You must recreate your configurations manually.</p> <p>Caution We <i>strongly</i> recommend you back up Firepower appliances to a secure remote location and verify transfer success. Reimaging returns most settings to factory defaults, including the system password. It deletes any backups left on the appliance. And especially because backup files are unencrypted, do <i>not</i> allow unauthorized access. If backup files are modified, the restore process will fail.</p> <p>Backup and restore can be a complex process. You do not want to skip any steps or ignore security or licensing concerns. Careful planning and preparation can help you avoid missteps. For detailed information on requirements, guidelines, limitations, and best practices for backup and restore, see the configuration guide for your Firepower product.</p>
	Remove devices from FMC management.	<p>If you plan to manually configure the reimaged appliance, remove devices from remote management before you reimage:</p> <ul style="list-style-type: none"> • If you are reimaging the FMC, remove all its devices from management. • If you are reimaging a single device or switching from remote to local management, remove that one device. <p>Note that if you plan to restore from backup after reimaging the FMC or FTD device, you do not need to remove devices from remote management.</p>
	Address licensing concerns.	<p>Before you reimage <i>any</i> Firepower appliance, address licensing concerns. You may need to unregister from the Cisco Smart Software Manager, or you may need to contact Sales for new licenses. See Deciding to Freshly Install to determine what you need to do, depending on your scenario.</p> <p>For more information on licensing, see:</p> <ul style="list-style-type: none"> • Cisco Firepower System Feature Licenses Guide • Frequently Asked Questions (FAQ) about Firepower Licensing • The licensing chapter in your <i>Configuration Guide</i>.

Unregistering Smart Licenses

Firepower Threat Defense devices, whether locally (Firepower Device Manager) or remotely (Firepower Management Center) managed, use Cisco Smart Licensing. To use licensed features, you must register with Cisco Smart Software Manager (CSSM). If you later decide to reimage or switch management, you must unregister to avoid accruing orphan entitlements. These can prevent you from reregistering.



Note If you need to restore an FMC from backup, do *not* unregister before you reimage, and do not remove devices from the FMC. Instead, revert any licensing changes made since you took the backup. After the restore completes, reconfigure licensing. If you notice licensing conflicts or orphan entitlements, contact Cisco TAC.

Unregistering removes an appliance from your virtual account and releases associated licenses so they can be reassigned. When you unregister an appliance, it enters Enforcement mode. Its current configuration and policies continue to work as-is, but you cannot make or deploy any changes.

Manually unregister from CSSM before you:

- Reimage a Firepower Management Center that manages FTD devices.
- Reimage a Firepower Threat Defense device that is locally managed by FDM.
- Switch a Firepower Threat Defense device from FDM to FMC management.

Automatically unregister from CSSM when you remove a device from the FMC so you can:

- Reimage an Firepower Threat Defense device that is managed by an FMC.
- Switch a Firepower Threat Defense device from FMC to FDM management.

Note that in these two cases, removing the device from the FMC is what automatically unregisters the device. You do not have to unregister manually as long as you remove the device from the FMC.



Tip Classic licenses for NGIPS devices are associated with a specific manager (ASDM/FMC), and are not controlled using CSSM. If you are switching management of a Classic device, or if you are migrating from an NGIPS deployment to an FTD deployment, contact Sales.

Unregister a Firepower Management Center

Unless you plan to restore from backup, unregister a Firepower Management Center from CSSM before you reimage. This also unregisters any managed Firepower Threat Defense devices.

If the FMC is configured for high availability, licensing changes are automatically synchronized. You do not need to unregister the other FMC.

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- Step 1** Log into the Firepower Management Center.
- Step 2** Choose **System > Licenses > Smart Licenses**.
- Step 3** Next to Smart License Status, click **Stop Sign** (🛑).
- Step 4** Read the warning and confirm that you want to unregister.
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Unregister an FTD Device Using FDM

Unregister locally managed Firepower Threat Defense devices from the Cisco Smart Software Manager before you either reimage or switch to remote (FMC) management.

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- Step 1** Log into the Firepower Device Manager.
- Step 2** Click **Device**, then click **View Configuration** in the Smart License summary.
- Step 3** Select **Unregister Device** from the gear drop-down list.
- Step 4** Read the warning and confirm that you want to unregister.
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Installation Instructions

The release notes do not contain installation instructions. Instead, see one of the following documents. Installation packages are available on the Cisco Support & Download site.

Table 3: Firepower Management Center Installation Instructions

FMC Platform	Guide
FMC 1000, 2500, 4500	Cisco Firepower Management Center 1000, 2500, and 4500 Getting Started Guide
FMC 750, 1500, 3500 FMC 2000, 4000	Cisco Firepower Management Center 750, 1500, 2000, 3500 and 4000 Getting Started Guide
FMCv	Cisco Firepower Management Center Virtual Getting Started Guide

Table 4: Firepower Threat Defense Installation Instructions

FTD Platform	Guide
Firepower 2100 series	Cisco ASA and Firepower Threat Defense Reimage Guide Cisco FXOS Troubleshooting Guide for the Firepower 1000/2100 Series Running Firepower Threat Defense
Firepower 4100/9300 chassis	Cisco Firepower 4100/9300 FXOS Configuration Guides: <i>Image Management</i> chapters Cisco Firepower 4100 Getting Started Guide Cisco Firepower 9300 Getting Started Guide
ASA 5500-X series	Cisco ASA and Firepower Threat Defense Reimage Guide
ISA 3000	Cisco ASA and Firepower Threat Defense Reimage Guide
FTDv: VMware	Cisco Firepower Threat Defense Virtual for VMware Getting Started Guide

FTD Platform	Guide
FTDv: KVM	Cisco Firepower Threat Defense Virtual for KVM Getting Started Guide
FTDv: AWS	Cisco Firepower Threat Defense Virtual for the AWS Cloud Getting Started Guide
FTDv: Azure	Cisco Firepower Threat Defense Virtual for the Microsoft Azure Cloud Quick Start Guide

Table 5: Firepower 7000/8000 Series, NGIPSv, and ASA FirePOWER Installation Instructions

NGIPS Platform	Guide
Firepower 7000 series	Cisco Firepower 7000 Series Getting Started Guide: Restoring a Device to Factory Defaults
Firepower 8000 series	Cisco Firepower 8000 Series Getting Started Guide: Restoring a Device to Factory Defaults
NGIPSv	Cisco Firepower NGIPSv Quick Start Guide for VMware
ASA FirePOWER	Cisco ASA and Firepower Threat Defense Reimage Guide ASDM Book 2: Cisco ASA Series Firewall ASDM Configuration Guide: Managing the ASA FirePOWER Module

