



Revert or Uninstall

If an upgrade or patch succeeds but the system does not function to your expectations, you may be able to revert or uninstall.

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About Revert and Uninstall

Whether you revert or uninstall depends on the platform and release type.

Table 1: Revert vs Uninstall

	Revert	Uninstall
Platforms	Threat defense only.	Management center and threat defense.
Releases	Major and maintenance upgrades to Version 7.1+.	Patches.
Details	Returns the software to its state just before the last major or maintenance upgrade (a <i>snapshot</i>). For details, see Reverted Configurations, on page 3 .	Returns the software to the version you patched from. Does not change configurations.
Restrictions	Not supported for container instances. For more scenarios that prevent revert, see Revert Guidelines, on page 2 .	For scenarios where uninstall is not supported or recommended, see Uninstall Guidelines, on page 5 .
Revert/Uninstall From	Use Devices > Device Management to revert threat defense upgrades.	Use System (⚙️) > Product Upgrades to uninstall management center patches. Use expert mode (CLI) on the device to uninstall threat defense patches.

Example: Revert vs Uninstall

Reverting after patching (or hotfixing) removes those updates as well. Consider this example:

1. Upgrade threat defense from Version 7.2.0 → 7.2.5.
2. Patch from Version 7.2.5 → 7.2.5.2.
3. You can now either:
 - Uninstall the patch to go back to Version 7.2.5.
This removes the patch only.
 - Revert the upgrade to go back to Version 7.2.0.
This removes the patch and the maintenance release.

Revert Threat Defense Upgrades

Revert Guidelines

This section discusses general guidelines for revert. To check for version-specific revert issues, see the upgrade guidelines in the release notes: <https://cisco.com/go/fmc-ftd-release-notes-74>.

Reverting High Availability or Clustered Devices

When you use the management center web interface to revert threat defense, you cannot select individual high availability units or clustered nodes.

Revert is more successful when all units/nodes are reverted simultaneously. When you initiate revert from the management center, the system automatically does this. If you need to use the device CLI, do this manually—open sessions with all units/nodes, verify that revert is possible on each, then start the processes at the same time. Simultaneous revert means that interruptions to traffic flow and inspection depend on interface configurations only, as if every device were standalone.

Note that revert is supported for fully and partially upgraded groups. In the case of a partially upgraded group, the system removes the upgrade from the upgraded units/nodes only. Revert will not break high availability or clusters, but you can break a group and revert its newly standalone devices.

Reverting the Firepower 4100/9300

Reverting does not downgrade FXOS.

For the Firepower 4100/9300, major threat defense versions have a specially qualified and recommended companion FXOS version. After you return to the earlier version of threat defense, you may be running a non-recommended version of FXOS (too new).

Although newer versions of FXOS are backwards compatible with older threat defense versions, we do perform enhanced testing for the recommended combinations. You cannot manually downgrade FXOS, so if you find yourself in this situation and you want to run a recommended combination, you will need a full reimage.

Scenarios Preventing Revert

If you attempt to revert in any of these situations, the system displays an error.

Table 2: Scenarios Preventing Revert

Scenario	Solution
Revert snapshot is not available because: <ul style="list-style-type: none"> • You did not enable revert when you upgraded the device. • You deleted the snapshot from either the management center or the device, or it expired. • You upgraded the device with a different management center. • You reverted to the version you are running now (you are trying to perform multiple reverts in succession). 	None. The revert snapshot is saved on the management center <i>and</i> the device for thirty days, after which it is automatically deleted and you can no longer revert. You can manually delete the snapshot from either appliance to save disk space, but this removes your ability to revert. The system only saves one snapshot. You cannot revert more than once, that is: <ul style="list-style-type: none"> • Supported: A → B → C → B • Not supported: A → B → C → B → A
Last upgrade failed.	Return the device to its pre-upgrade state by canceling the upgrade. Or, fix the issues and try again. Revert is for situations where the upgrade succeeds, but the upgraded device does not function to your expectations. Reverting is not the same as canceling a failed or in-progress upgrade. If you cannot revert or cancel, you will have to reimage.
Management access interface changed since the upgrade.	Switch it back and try again.
Clusters where the units were upgraded from different versions.	Remove units until all match, reconcile cluster members, then revert the smaller cluster. You may also be able to revert the newly standalone units.
Clusters where one or more units were added to the cluster after upgrade.	Remove the new units, reconcile cluster members, then revert the smaller cluster. You may also be able to revert the newly standalone units.
Clusters where the management center and FXOS identify a different number of cluster units.	Reconcile cluster members and try again, although you may not be able to revert all units.

Reverted Configurations

Reverted Configurations

Configurations that are reverted include:

- Snort version.
- Device-specific configurations.

General device settings, routing, interfaces, inline sets, DHCP, SNMP — anything you configure on the **Devices > Device Management** page.

- Objects used by your device-specific configurations.

These include access list, AS path, key chain, interface, network, port, route map, and SLA monitor objects. If you edited these objects after you upgraded the device, the system creates new objects or configure object overrides for the reverted device to use. This allows your other devices to continue handling traffic according to their current configuration.

After a successful revert, we recommend you examine the objects used by the reverted device and make any necessary adjustments.

Configurations Not Reverted

Configurations that are not reverted include:

- Shared policies that can be used by multiple devices; for example, platform settings or access control policies.
A successfully reverted device is marked out-of-date and you should redeploy configurations.
- For the Firepower 4100/9300, interface changes made using the Secure Firewall chassis manager or the FXOS CLI.
Sync interface changes after a successful revert.
- For the Firepower 4100/9300, FXOS and firmware.

If you are required to run the recommended combination of FXOS and threat defense, you may need a full reimage; see [Revert Guidelines, on page 2](#).

Revert a Threat Defense Upgrade

You must use the management center to revert the device, unless communications between the management center and device are disrupted. In those cases, you can use the **upgrade revert** CLI command on the device. To see what version the system will revert to, use **show upgrade revert-info**.



Caution Reverting from the CLI can cause configurations between the device and the management center to go out of sync, depending on what you changed post-upgrade. This can cause further communication and deployment issues.

Before you begin

- Make sure revert is supported. Read and understand the guidelines.
- Revisit the [Planning Your Upgrade](#) chapter. In general, prepare for reverting an upgrade in the same way you prepared for installing it. It is especially important that you back up to a secure external location. A failed revert may require a reimage, which returns most settings to factory defaults.

Step 1 Choose **Devices > Device Management**.

- Step 2** Next to the device you want to revert, click **More** (⋮) and select **Revert Upgrade**.
With the exception of high availability pairs and clusters, you cannot select multiple devices to revert.
- Step 3** Confirm that you want to revert and reboot.
Interruptions to traffic flow and inspection during revert depend on interface configurations only, as if every device were standalone. This is because even in high availability/clustered deployments, the system reverts all units simultaneously.
- Step 4** Monitor revert progress.
In high availability/clustered deployments, traffic flow and inspection resume when the first unit comes back online. If the system shows no progress for several minutes or indicates that the revert has failed, contact Cisco TAC.
- Step 5** Verify revert success.
After the revert completes, choose **Devices > Device Management** and confirm that the devices you reverted have the correct software version.
- Step 6** (Firepower 4100/9300) Sync any interface changes you made to threat defense logical devices using the chassis manager or the FXOS CLI.
On the management center, choose **Devices > Device Management**, edit the device, and click **Sync**.
- Step 7** Complete any other necessary post-revert configuration changes.
For example, if you edited objects used by device-specific configurations after you upgraded the device, the system creates new objects or configures object overrides for the reverted device to use. We recommend you examine the objects used by the reverted device and make any necessary adjustments.
- Step 8** Redeploy configurations to the devices you just reverted.
A successfully reverted device is marked out-of-date. Because the device will be running an older version, newer configurations may not be supported even after a successful deploy.
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Uninstall Threat Defense and Management Center Patches

This guide describes how to uninstall management center and threat defense patches. To uninstall patches from older ASA FirePOWER or NGIPSv devices, see the [Cisco Firepower Management Center Upgrade Guide, Version 6.0–7.0](#).

Uninstall Guidelines

This section discusses general guidelines for uninstall. To check for version-specific uninstall issues, see the upgrade guidelines in the release notes: <https://cisco.com/go/fmc-ftd-release-notes-74>.

Maintaining Compatibility

Because the management center should run the same or newer version as its managed devices, uninstall patches from devices first.

Uninstalling in Security Certifications Compliance (CC/UCAPL) Mode

If a patch updates the operating system and security certifications compliance is enabled, FSIC (file system integrity check) fails when the appliance reboots. The software does not start, remote SSH access is disabled, and you can access the appliance only via local console.

Uninstall is not recommended in security certifications compliance mode. If you need to do this, contact Cisco TAC.

Uninstalling Hotfixes and Hotfixed Patches

You must uninstall hotfixes and patches in the exact reverse order from their installation (last in, first out). For example:

- Install: Patch A → Hotfix B → Hotfix C → Patch D → Hotfix E
- Uninstall: Hotfix E → Patch D → Hotfix C → Hotfix B → Patch A

For management center patches and hotfixes, the web interface enforces the correct order. For threat defense, where you use expert mode to uninstall, you must do it yourself. To view your update history, use expert mode: `cat /etc/sf/patch_history`.

Uninstall is not recommended for hotfixes and hotfixed patches. If you need to do this, contact Cisco TAC.

Uninstalling from High Availability Management Centers

Minimize disruption by uninstalling from one management center at a time. Wait until the patch has fully uninstalled from one unit before you move on to the next.

Table 3: Uninstall Order for Management Center High Availability

Management Center Configuration	Uninstall Order
High availability	<p>With synchronization paused, which is a state called <i>split-brain</i>, uninstall from peers one at a time. Do not make or deploy configuration changes while the pair is split-brain.</p> <ol style="list-style-type: none"> 1. Pause synchronization (enter split-brain). 2. Uninstall from the standby. 3. Uninstall from the active. 4. Restart synchronization (exit split-brain).

Uninstalling from High Availability or Clustered Devices

Minimize disruption by uninstalling from one device at a time. Unlike upgrade, the system does not do this for you. Wait until the patch has fully uninstalled from one unit before you move on to the next.

Table 4: Uninstall Order for Threat Defense High Availability and Clusters

Threat Defense Configuration	Uninstall Order
High availability	<p>You cannot uninstall a patch from devices configured for high availability. You must break high availability first.</p> <ol style="list-style-type: none"> 1. Break high availability. 2. Uninstall from the former standby. 3. Uninstall from the former active. 4. Reestablish high availability.
Cluster	<p>Uninstall from one unit at a time, leaving the control unit for last. Clustered units operate in maintenance mode while the patch uninstalls.</p> <ol style="list-style-type: none"> 1. Uninstall from the data modules one at a time. 2. Make one of the data modules the new control module. 3. Uninstall from the former control.

Uninstall a Threat Defense Patch

Use the Linux shell (*expert mode*) to uninstall patches. You must have access to the device shell as the `admin` user for the device, or as another local user with CLI configuration access. You cannot use a management center user account. If you disabled shell access, contact Cisco TAC to reverse the lockdown.



Caution Do not make or deploy configuration changes during uninstall. Even if the system appears inactive, do not manually reboot, shut down, or restart an uninstall in progress. You could place the system in an unusable state and require a reimage. If you encounter issues with the uninstall, including a failed uninstall or unresponsive appliance, contact Cisco TAC.

Before you begin

- Make sure uninstall is supported. Read and understand the guidelines.
- Revisit the [Planning Your Upgrade](#) chapter. In general, you should prepare for uninstalling a patch in the same way you prepared for installing it.
- Break high availability pairs.

Step 1

If the device's configurations are out of date, deploy now from the management center.

Deploying before you uninstall reduces the chance of failure. Make sure the deployment and other essential tasks complete. Tasks running when the uninstall begins are stopped, become failed tasks, and cannot be resumed. You can manually delete failed status messages later.

Step 2 Access the threat defense CLI on the device. Log in as `admin` or another CLI user with configuration access.

You can either SSH to the device's management interface (hostname or IP address) or use the console. If you use the console, some devices default to the operating system CLI and require an extra step to access the threat defense CLI, as follows.

Firepower 1000	<code>connect ftd</code>
Firepower 2100	
Secure Firewall 3100	
Secure Firewall 4200	
Firepower 4100/9300	<code>connect module slot_number console, then connect ftd (first login only)</code>
ASA 5500-X series	—
ISA 3000	
Threat defense virtual	—

Step 3 Use the `expert` command to access the Linux shell.

Step 4 Verify the uninstall package is in the upgrade directory.

```
ls /var/sf/updates
```

Patch uninstallers are named like upgrade packages, but have `Patch_Uninstaller` instead of `Patch` in the file name. When you patch a device, the uninstaller for that patch is automatically created in the upgrade directory. If the uninstaller is not there, contact Cisco TAC.

Step 5 Run the uninstall command, entering your password when prompted.

```
sudo install_update.pl --detach /var/sf/updates/uninstaller_name
```

Caution The system does *not* ask you to confirm. Entering this command starts the uninstall, which includes a device reboot. Interruptions in traffic flow and inspection during an uninstall are the same as the interruptions that occur during an upgrade. Make sure you are ready. Note that using the `--detach` option ensures the uninstall process is not killed if your SSH session times out, which can leave the device in an unstable state.

Step 6 Monitor the uninstall until you are logged out.

For a detached uninstall, use `tail` or `tailf` to display logs:

```
tail /ngfw/var/log/sf/update.status
```

Otherwise, monitor progress in the console or terminal.

Step 7 Verify uninstall success.

After the uninstall completes, confirm that the device has the correct software version. On the management center, choose **Devices > Device Management**.

Step 8 In high availability and clustered deployments, repeat steps 2 through 7 for each unit.

For clusters, never uninstall from the control unit. After you uninstall from all the data units, make one of them the new control, then uninstall from the former control.

Step 9 Redeploy configurations.

Exception: Do not deploy to mixed-version high availability pairs or device clusters. Deploy before you uninstall from the first device, but not again until you have uninstalled the patch from all group members.

What to do next

- For high availability, reestablish high availability.
- For clusters, if you have preferred roles for specific devices, make those changes now.

Uninstall a Management Center Patch: Standalone

We recommend you use the web interface to uninstall management center patches. If you cannot use the web interface, you can use the Linux shell as either the `admin` user for the shell, or as an external user with shell access. If you disabled shell access, contact Cisco TAC to reverse the lockdown.



Caution

Do not make or deploy configuration changes during uninstall. Even if the system appears inactive, do not manually reboot, shut down, or restart an uninstall in progress. You could place the system in an unusable state and require a reimage. If you encounter issues with the uninstall, including a failed uninstall or unresponsive appliance, contact Cisco TAC.

Before you begin

- Make sure uninstall is supported. Read and understand the guidelines.
- Revisit the [Planning Your Upgrade](#) chapter. In general, prepare for uninstalling a patch in the same way you prepared for installing it.
- If uninstalling will put the management center at a lower patch level than its managed devices, uninstall patches from the devices first.

Step 1 Deploy to managed devices whose configurations are out of date.

Deploying before you uninstall reduces the chance of failure.

Step 2 Choose **System** (⚙) > **Product Upgrades**.

Step 3 In the System Overview, where it displays the last upgrade performed for the management center, click **Uninstall** and confirm your choice.

You can monitor uninstall progress in the Message Center. If the patch reboots the management center, you will be logged out. Log back in when you can.

Step 4 Verify uninstall success.

If the system does not notify you of the uninstall's success, choose **Help** (?) > **About** to display current software version information.

Step 5 Redeploy configurations to all managed devices.

Uninstall a Management Center Patch: High Availability

We recommend you use the web interface to uninstall management center patches. If you cannot use the web interface, you can use the Linux shell as either the `admin` user for the shell, or as an external user with shell access. If you disabled shell access, contact Cisco TAC to reverse the lockdown.

Uninstall from high availability peers one at a time. With synchronization paused, first uninstall from the standby, then the active. When the standby starts the uninstall, its status switches from standby to active, so that both peers are active. This temporary state is called *split-brain* and is *not* supported except during upgrade and uninstall.



Caution Do not make or deploy configuration changes while the pair is split-brain. Your changes will be lost after you restart synchronization. Do not make or deploy configuration changes during uninstall. Even if the system appears inactive, do not manually reboot, shut down, or restart an uninstall in progress. You could place the system in an unusable state and require a reimage. If you encounter issues with the uninstall, including a failed uninstall or unresponsive appliance, contact Cisco TAC.

Before you begin

- Make sure uninstall is supported. Read and understand the guidelines.
- Revisit the [Planning Your Upgrade](#) chapter. In general, prepare for uninstalling a patch in the same way you prepared for installing it.
- If uninstalling will put the management centers at a lower patch level than their managed devices, uninstall patches from the devices first.

Step 1 On the active management center, deploy to managed devices whose configurations are out of date.

Deploying before you uninstall reduces the chance of failure.

Step 2 On the active management center, pause synchronization.

- a) Choose **Integration > Other Integrations**.
- b) On the **High Availability** tab, click **Pause Synchronization**.

Step 3 Uninstall the patch from peers one at a time — first the standby, then the active.

Follow the instructions in [Uninstall a Management Center Patch: Standalone, on page 9](#), but omit the initial deploy, stopping after you verify uninstall success on each peer. In summary, for each peer:

- a) On **System** (⚙) > **Product Upgrades**, uninstall the patch.
- b) Monitor progress until you are logged out, then log back in when you can.
- c) Verify uninstall success.

Step 4 On the management center you want to make the active peer, restart synchronization.

- a) Choose **Integration > Other Integrations**.
- b) On the **High Availability** tab, click **Make-Me-Active**.

c) Wait until synchronization restarts and the other management center switches to standby mode.

Step 5 Redeploy configurations to all managed devices.
