

# Cisco Secure Firewall Management Center Compatibility Guide

**First Published:** 2022-05-05 **Last Modified:** 2024-09-17

# **Cisco Secure Firewall Management Center Compatibility Guide**

This guide provides software and hardware compatibility for the Cisco Secure Firewall Management Center. For related compatibility guides, see the following table.



Note

Not all software versions, especially patches, apply to all platforms. A quick way to tell if a version is supported is that its upgrade/installation packages are posted on the Cisco Support & Download site. If the site is "missing" an upgrade or installation package, that version is not supported. You can also check the release notes and End-of-Life Announcements, on page 26. If you feel a version is missing in error, contact Cisco TAC.

#### **Table 1: Additional Resources**

| Description  | Resources   |
|--|---|
| Sustaining bulletins provide support timelines for<br>the Cisco Next Generation Firewall product line,<br>including management platforms and operating<br>systems.                                       | Cisco NGFW Product Line Software Release and<br>Sustaining Bulletin   |
| Compatibility guides provide detailed compatibility information for supported hardware models and software versions, including bundled components and integrated products.                               | Cisco Secure Firewall Threat Defense Compatibility<br>Guide<br>Cisco Firepower Classic Device Compatibility Guide |
| <b>Release notes</b> provide critical and release-specific information, including upgrade warnings and behavior changes. Release notes also contain quicklinks to upgrade and installation instructions. | Cisco Secure Firewall Threat Defense Release Notes  |
| <i>New Feature guides</i> provide information on new and deprecated features by release.   | Cisco Secure Firewall Management Center New<br>Features by Release  |
| <b>Documentation roadmaps</b> provide links to currently available and legacy documentation. Try the roadmaps if what you are looking for is not listed above.   | Navigating the Cisco Secure Firewall Threat Defense Documentation   |

# **Suggested Release: Version 7.2.8**

To take advantage of new features and resolved issues, we recommend you upgrade all eligible appliances to at least the suggested release, including the latest patch. On the Cisco Support & Download site, the suggested release is marked with a gold star. In Version 7.2.6+/7.4.1+, the management center notifies you when a new suggested release is available, and indicates suggested releases on its product upgrades page.

#### **Suggested Releases for Older Appliances**

If an appliance is too old to run the suggested release and you do not plan to refresh the hardware right now, choose a major version then patch as far as possible. Some major versions are designated *long-term* or *extra long-term*, so consider one of those. For an explanation of these terms, see Cisco NGFW Product Line Software Release and Sustaining Bulletin.

If you are interested in a hardware refresh, contact your Cisco representative or partner contact.

# **Management Center Hardware**

The Version 7.0+ management center virtual uses the FXOS operating system. Upgrading the management center virtual software automatically upgrades FXOS. For information on bundled FXOS versions, see Bundled Components, on page 11.

Table 2: Management Center Hardware Compatibility

| Management<br>Center | Secure<br>Firewall<br>Management<br>Center | Firepowe             | Firepower Management Center |              |                     |                     |  |
|----------------------|--|----------------------|-----------------------------|--------------|---------------------|---------------------|--|
|                      | 1700<br>2700<br>4700                       | 1600<br>2600<br>4600 | 1000<br>2500<br>4500        | 2000<br>4000 | 750<br>1500<br>3500 | 500<br>1000<br>3000 |  |
| 7.6                  | YES  | YES                  | _                           | _            | _                   | _                   |  |
| 7.4                  | YES  | YES                  | _                           | _            | _                   | _                   |  |
| 7.3                  | _  | YES                  | _                           | _            | _                   | _                   |  |
| 7.2                  | _  | YES                  | _                           | _            | _                   | _                   |  |
| 7.1                  | _  | YES                  | _                           | _            | _                   | _                   |  |
| 7.0                  | _  | YES                  | YES                         | _            | _                   | _                   |  |
| 6.7                  | _  | YES                  | YES                         | _            | _                   | _                   |  |
| 6.6                  | _  | YES                  | YES                         | YES          | _                   | _                   |  |
| 6.5                  | _  | YES                  | YES                         | YES          | _                   | _                   |  |
| 6.4                  | _  | YES                  | YES                         | YES          | YES                 | _                   |  |
| 6.3                  |  | YES                  | YES                         | YES          | YES                 | _                   |  |

| Management<br>Center | Secure<br>Firewall<br>Management<br>Center | Firepowe | Defense<br>Center |      |      |      |
|----------------------|--|----------|-------------------|------|------|------|
|                      | 1700                                       | 1600     | 1000              | 2000 | 750  | 500  |
|                      | 2700                                       | 2600     | 2500              | 4000 | 1500 | 1000 |
|                      | 4700                                       | 4600     | 4500              |      | 3500 | 3000 |
| 6.2.3                | _  | _        | YES               | YES  | YES  | _    |
| 6.2.2                | _  | _        | YES               | YES  | YES  | _    |
| 6.2.1                | _  |          | YES               | YES  | YES  | _    |
| 6.2.0                | _  | _        | YES               | YES  | YES  | _    |
| 6.1                  | _  | _        | _                 | YES  | YES  | _    |
| 6.0.1                | _  | _        | _                 | YES  | YES  | _    |
| 6.0.0                | _  | _        | _                 | YES  | YES  | _    |
| 5.4 *                | _  | _        | _                 | YES  | YES  | YES  |

<sup>\*</sup> Use 5.4.1.x Defense Centers to manage 5.4.x devices.

# **BIOS and Firmware for Management Center Hardware**

We provide updates for BIOS and RAID controller firmware on management center hardware. If your management center does not meet the requirements, apply the appropriate hotfix. If your management center model and version are not listed and you think you need to update, contact Cisco TAC.

**Table 3: BIOS and Firmware Minimum Requirements** 

| Platform                 | Version | Hotfix                   | BIOS            | RAID Controller<br>Firmware | CIMC Firmware |
|--------------------------|---------|--------------------------|-----------------|-----------------------------|---------------|
| FMC 1700, 2700,<br>4700  | 7.4     | BIOS Update<br>Hotfix EZ | C225M6.4.3.2c.0 | 52.20.0-4523                | 4.3(2.240009) |
| FMC 1600, 2600,          | 7.4     | BIOS Update              | C220M5.4.3.2a.0 | 51.10.0-3612                | 4.3(2.240009) |
| 4600                     | 7.3     | Hotfix EZ                |                 |                             |               |
|                          | 7.2     |                          |                 |                             |               |
| 7.0<br>7.1<br>6.7<br>6.6 | 7.0     |                          |                 |                             |               |
|                          | 7.1     | BIOS Update<br>Hotfix EN | C220M5.4.2.3b.0 | 51.10.0-3612                | 4.2(3b)       |
|                          | 6.7     |                          |                 |                             |               |
|                          | 6.6     |                          |                 |                             |               |
|                          | 6.4     |                          |                 |                             |               |

| Platform             | Version             | Hotfix                   | BIOS            | RAID Controller<br>Firmware | CIMC Firmware |
|----------------------|---------------------|--------------------------|-----------------|-----------------------------|---------------|
| FMC 1000, 2500, 4500 | 7.0<br>6.7<br>6.6   | BIOS Update<br>Hotfix EN | C220M5.4.2.3b.0 | 51.10.0-3612                | 4.2(3b)       |
|                      | 6.2.3               | BIOS Update<br>Hotfix EL | C220M4.4.1.2c.0 | 24.12.1-0456                | 4.1(2g)       |
| FMC 2000, 4000       | 6.6<br>6.4<br>6.2.3 | BIOS Update<br>Hotfix EI | C220M3.3.0.4e.0 | 23.33.1-0060                | 3.0(4s)       |
| FMC 750, 1500, 3500  | 6.4 6.2.3           | BIOS Update<br>Hotfix EI | C220M3.3.0.4e.0 | 23.33.1-0060                | 3.0(4s)       |

Hotfixing is the only way to update the BIOS and RAID controller firmware. Upgrading the software does not accomplish this task, nor does reimaging to a later version. If the management center is already up to date, the hotfix has no effect.



Tip

These hotfixes also update the CIMC firmware; for resolved issues see Release Notes for Cisco UCS Rack Server Software. Note that in general, we do not support changing configurations on the management center using CIMC. However, to enable logging of invalid CIMC usernames, apply the latest hotfix, then follow the instructions in the *Viewing Faults and Logs* chapter in the Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide, Version 4.0 or later.

Use the regular upgrade process to apply hotfixes. For hotfix release notes, which include quicklinks to the Cisco Support & Download site, see the Cisco Secure Firewall Threat Defense/Firepower Hotfix Release Notes.



Note

The management center web interface may display these hotfixes with a version that is different from (usually later than) the current software version. This is expected behavior and the hotfixes are safe to apply.

#### **Determining BIOS and Firmware Versions**

To determine the current versions on the management center, run these commands from the Linux shell/expert mode:

- BIOS: sudo dmidecode -t bios -q
- RAID controller firmware (FMC 4500): sudo MegaCLI -AdpAllInfo -aALL | grep "FW Package"
- RAID controller firmware (all other models): sudo storcli /c0 show | grep "FW Package"

# **Management Center Virtual**

With the management center virtual, you can purchase licenses that enable you to manage 2, 10, 25, or 300 devices. For full details on supported instances, see the Cisco Secure Firewall Management Center Virtual Getting Started Guide.

The Version 7.0+ management center virtual uses the FXOS operating system. Upgrading the management center virtual software automatically upgrades FXOS. For information on bundled FXOS versions, see Bundled Components, on page 11.

## **Management Center Virtual: Public Cloud**

Table 4: Management Center Virtual 300 Compatibility: Public Cloud

| Management Center 300 | Amazon Web Services (AWS) | Microsoft Azure (Azure) | Oracle Cloud<br>Infrastructure (OCI) |
|-----------------------|---------------------------|-------------------------|--------------------------------------|
| 7.6                   | YES                       | YES                     | YES                                  |
| 7.4                   | YES                       | YES Requires 7.4.2+     | YES                                  |
| 7.3                   | YES                       | _                       | YES                                  |
| 7.2                   | YES                       | _                       | YES                                  |
| 7.1                   | YES                       | _                       | YES                                  |

Table 5: Management Center Virtual 2, 10, 25 Compatibility: Public Cloud

| Management Center 2, 10, 25 | Amazon Web<br>Services (AWS) | Microsoft Azure (Azure) | Google Cloud<br>Platform (GCP) | Oracle Cloud<br>Infrastructure (OCI) |
|-----------------------------|------------------------------|-------------------------|--------------------------------|--------------------------------------|
| 7.6                         | YES                          | YES                     | YES                            | YES                                  |
| 7.4                         | YES                          | YES                     | YES                            | YES                                  |
| 7.3                         | YES                          | YES                     | YES                            | YES                                  |
| 7.2                         | YES                          | YES                     | YES                            | YES                                  |
| 7.1                         | YES                          | YES                     | YES                            | YES                                  |
| 7.0                         | YES                          | YES                     | YES                            | YES                                  |
| 6.7                         | YES                          | YES                     | YES                            | YES                                  |
| 6.6                         | YES                          | YES                     | _                              | _                                    |
| 6.5                         | YES                          | YES                     | _                              | _                                    |
| 6.4                         | YES                          | YES                     | _                              | _                                    |
| 6.3                         | YES                          | _                       | _                              | _                                    |

| Management Center 2, 10, 25 | Amazon Web<br>Services (AWS) | Microsoft Azure<br>(Azure) | Google Cloud<br>Platform (GCP) | Oracle Cloud<br>Infrastructure (OCI) |
|-----------------------------|------------------------------|----------------------------|--------------------------------|--------------------------------------|
| 6.2.3                       | YES                          | _                          | _                              | _                                    |
| 6.2.2                       | YES                          | _                          | _                              | _                                    |
| 6.2.1                       | YES                          | _                          | _                              | _                                    |
| 6.2.0                       | YES                          | _                          | _                              | _                                    |
| 6.1                         | YES                          | _                          | _                              | _                                    |
| 6.0.1                       | YES                          | _                          | _                              | _                                    |

# **Management Center Virtual: On-Prem/Private Cloud**

Table 6: Management Center Virtual 300 Compatibility: On-Prem/Private Cloud

| Management Center 300 | VMware vSphere/VMware ESXi | Kernel-Based Virtual Machine (KVM) |
|-----------------------|----------------------------|------------------------------------|
| 7.6                   | YES                        | YES                                |
|                       | VMware 6.5, 6.7, 7.0, 8.0  |                                    |
| 7.4                   | YES                        | YES                                |
|                       | VMware 6.5, 6.7, 7.0       |                                    |
| 7.3                   | YES                        | YES                                |
|                       | VMware 6.5, 6.7, 7.0       |                                    |
| 7.2                   | YES                        | _                                  |
|                       | VMware 6.5, 6.7, 7.0       |                                    |
| 7.1                   | YES                        | _                                  |
|                       | VMware 6.5, 6.7, 7.0       |                                    |
| 7.0                   | YES                        | _                                  |
|                       | VMware 6.5, 6.7, 7.0       |                                    |
| 6.7                   | YES                        | _                                  |
|                       | VMware 6.0, 6.5, 6.7       |                                    |
| 6.6                   | YES                        | _                                  |
|                       | VMware 6.0, 6.5, 6.7       |                                    |
| 6.5                   | YES                        | _                                  |
|                       | VMware 6.0, 6.5, 6.7       |                                    |

Table 7: Management Center Virtual 2, 10, 25 Compatibility: On-Prem/Private Cloud

| Management<br>Center 2, 10 25 |                      | Cisco<br>HyperFlex<br>(HyperFlex) | Microsoft<br>Hyper-V<br>(Hyper-V) | Kernel-Based<br>Virtual<br>Machine<br>(KVM) | Nutanix<br>Enterprise<br>Cloud<br>(Nutanix) | OpenStack |
|-------------------------------|----------------------|-----------------------------------|-----------------------------------|---|---|-----------|
| 7.6                           | YES VMware 6.5,      | YES                               | YES                               | YES   | YES   | YES       |
|                               | 6.7, 7.0, 8.0        |                                   |                                   |   |   |           |
| 7.4                           | YES                  | YES                               | YES                               | YES   | YES   | YES       |
|                               | VMware 6.5, 6.7, 7.0 |                                   |                                   |   |   |           |
| 7.3                           | YES                  | YES                               | _                                 | YES   | YES   | YES       |
|                               | VMware 6.5, 6.7, 7.0 |                                   |                                   |   |   |           |
| 7.2                           | YES                  | YES                               | _                                 | YES   | YES   | YES       |
|                               | VMware 6.5, 6.7, 7.0 |                                   |                                   |   |   |           |
| 7.1                           | YES                  | YES                               | _                                 | YES   | YES   | YES       |
|                               | VMware 6.5, 6.7, 7.0 |                                   |                                   |   |   |           |
| 7.0                           | YES                  | YES                               | _                                 | YES   | YES   | YES       |
|                               | VMware 6.5, 6.7, 7.0 |                                   |                                   |   |   |           |
| 6.7                           | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 6.0, 6.5, 6.7 |                                   |                                   |   |   |           |
| 6.6                           | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 6.0, 6.5, 6.7 |                                   |                                   |   |   |           |
| 6.5                           | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 6.0, 6.5, 6.7 |                                   |                                   |   |   |           |
| 6.4                           | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 6.0, 6.5      |                                   |                                   |   |   |           |

| Management<br>Center 2, 10 25 |                      | Cisco<br>HyperFlex<br>(HyperFlex) | Microsoft<br>Hyper-V<br>(Hyper-V) | Kernel-Based<br>Virtual<br>Machine<br>(KVM) | Nutanix<br>Enterprise<br>Cloud<br>(Nutanix) | OpenStack |
|-------------------------------|----------------------|-----------------------------------|-----------------------------------|---|---|-----------|
| 6.3                           | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 6.0, 6.5      |                                   |                                   |   |   |           |
| 6.2.3                         | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 5.5, 6.0, 6.5 |                                   |                                   |   |   |           |
| 6.2.2                         | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 5.5, 6.0      |                                   |                                   |   |   |           |
| 6.2.1                         | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 5.5, 6.0      |                                   |                                   |   |   |           |
| 6.2.0                         | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 5.5, 6.0      |                                   |                                   |   |   |           |
| 6.1                           | YES                  | _                                 | _                                 | YES   | _   | _         |
|                               | VMware 5.5, 6.0      |                                   |                                   |   |   |           |
| 6.0.1                         | YES                  | _                                 | _                                 | _   | _   | _         |
|                               | VMware 5.1, 5.5      |                                   |                                   |   |   |           |
| 6.0.0                         | YES                  | _                                 | _                                 | _   | _   | _         |
|                               | VMware 5.1, 5.5      |                                   |                                   |   |   |           |
| 5.4 *                         | YES                  | _                                 | _                                 | _   | _   | _         |
|                               | VMware 5.0, 5.1, 5.5 |                                   |                                   |   |   |           |

<sup>\*</sup> Use 5.4.1.x Defense Centers to manage 5.4.x devices.

# **Management Center High Availability**

# **Cloud-delivered Firewall Management Center**

The cloud-delivered Firewall Management Center does not support high availability.

# **Management Center Hardware**

All currently supported hardware management centers support high availability.

#### **Management Center Virtual**

Table 8: Management Center Virtual: High Availability Support

| Platform                           | High Availability |  |
|------------------------------------|-------------------|--|
| Public Cloud                       |                   |  |
| Amazon Web Services (AWS)          | 7.1+              |  |
| Google Cloud Platform (GCP)        | _                 |  |
| Microsoft Azure                    | 7.4.2+            |  |
| Oracle Cloud Infrastructure (OCI)  | 7.1+              |  |
| On-Prem/Private Cloud              |                   |  |
| Cisco HyperFlex                    | 7.0+              |  |
| Kernel-based virtual machine (KVM) | 7.3+              |  |
| Microsoft Hyper-V                  | 7.4+              |  |
| Nutanix Enterprise Cloud           | _                 |  |
| OpenStack                          | _                 |  |
| VMware vSphere/VMware ESXi         | 6.7+              |  |

# **Device Management**

# **On-Prem Management Center**

All devices support remote management with a customer-deployed (*on-prem*) management center, which must run the same or newer version as its managed devices. This means:

- You *can* manage older devices with a newer management center, usually a few major versions back. However, we recommend you always update your entire deployment. New features and resolved issues often require the latest release on both the management center and its managed devices.
- You *cannot* upgrade a device past the management center. Even for maintenance (third-digit) releases, you must upgrade the management center first.

Note that in most cases you can upgrade an older device directly to the management center's major or maintenance version. However, sometimes you can manage an older device that you cannot directly upgrade, even though the target version is supported on the device. And rarely, there are issues with specific management center-device combinations. For release-specific requirements, see the release notes.

Table 9: On-Prem Management Center-Device Compatibility

| Management Center Version                 | Oldest Device Version You Can Manage   |  |  |
|---|--|--|--|
| 7.6                                       | 7.1  |  |  |
| 7.4                                       | 7.0  |  |  |
| Last support for NGIPS device management. |  |  |  |
| 7.3                                       | 6.7  |  |  |
| 7.2                                       | 6.6  |  |  |
| 7.1                                       | 6.5  |  |  |
| 7.0                                       | 6.4  |  |  |
| 6.7                                       | 6.3  |  |  |
| 6.6                                       | 6.2.3  |  |  |
| 6.5                                       | 6.2.3  |  |  |
| 6.4                                       | 6.1  |  |  |
| 6.3                                       | 6.1  |  |  |
| 6.2.3                                     | 6.1  |  |  |
| 6.2.2                                     | 6.1  |  |  |
| 6.2.1                                     | 6.1  |  |  |
| 6.2                                       | 6.1  |  |  |
| 6.1                                       | 5.4.0.2/5.4.1.1  |  |  |
| 6.0.1                                     | 5.4.0.2/5.4.1.1  |  |  |
| 6.0                                       | 5.4.0.2/5.4.1.1  |  |  |
| 5.4.1                                     | 5.4.1 for ASA FirePOWER on the ASA-5506-X series, ASA5508-X, and ASA5516-X.                                  |  |  |
|   | 5.3.1 for ASA FirePOWER on the ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X, and ASA-5585-X series. |  |  |
|   | 5.3.0 for Firepower 7000/8000 series and legacy devices.   |  |  |

# **Cloud-delivered Firewall Management Center**

The cloud-delivered Firewall Management Center can manage threat defense devices running **Version 7.0.3 to 7.6.0** (except Version 7.1).

You can co-manage a cloud-managed device with a Version 7.2+ on-prem management center for event logging and analytics purposes only. Or, you can send security events to the Cisco cloud with Security Analytics and Logging (SaaS).

## **Co-managing Devices with an Analytics Management Center**

The cloud-delivered Firewall Management Center supports a wider range of managed device versions than on-prem management centers. This can cause issues if you use an on-prem management center for analytics because devices can be "too old" or "too new" to co-manage.

You can be prevented from:

- Registering newer devices to the analytics management center because older devices are blocking the required management center upgrade.
- Upgrading co-managed devices to the latest release, because the analytics management center is "stuck" at an older release.
- Reverting device upgrade, if revert would take the device out of compatibility with the analytics management center.

For example, consider a scenario where you want to add co-managed Version 7.6.0 devices to a deployment that currently includes co-managed Version 7.0.x devices. The cloud-delivered Firewall Management Center can manage this full range of devices, but the on-prem analytics management center cannot.

In order of preference, you can:

- Upgrade the Version 7.0.x devices to at least Version 7.2.0, upgrade the analytics management center to Version 7.6.0, then add the Version 7.6.0 devices to both management centers.
- Remove the Version 7.0.x devices from the analytics management center, upgrade the analytics management center to Version 7.6.0, then add the Version 7.6.0 devices to both management centers.
- Leave the analytics management center as it is and do not add your Version 7.6.0 devices.

That is, your choices are:

- To get events from all devices, upgrade (or replace) the analytics management center and your older devices.
- To forgo events from older devices, upgrade (or replace) the analytics management center only.
- To forgo events from newer devices, leave the analytics management center at an older release.

# **Bundled Components**

These tables list the versions of various components bundled with the management center. Use this information to identify open or resolved bugs in bundled components that may affect your deployment.

Note that sometimes we release updated builds for select releases. If bundled components change from build to build, we list the components in the *latest* build. (In most cases, only the latest build is available for download.) For details on new builds and the issues they resolve, see the release notes for your version.

#### **Operating System**

The Version 7.0+ management center uses the FXOS operating system.

# Table 10:

| Management Center | FXOS        |
|-------------------|-------------|
| 7.6.0             | 2.16.0.128  |
| 7.4.2             | 2.14.1.167  |
| 7.4.1.1           | 2.14.1.131  |
| 7.4.1             | 2.14.1.131  |
| 7.4.0             | 2.14.0.475  |
| 7.3.1.1           | 2.13.0.1022 |
| 7.3.1             | 2.13.0.1022 |
| 7.3.0             | 2.13.0.198  |
| 7.2.8.1           | 2.12.1.1703 |
| 7.2.8             | 2.12.1.73   |
| 7.2.7             | 2.12.1.73   |
| 7.2.6             | 2.12.1.73   |
| 7.2.5.2           | 2.12.0.530  |
| 7.2.5.1           | 2.12.0.530  |
| 7.2.5             | 2.12.0.519  |
| 7.2.4.1           | 2.12.0.519  |
| 7.2.4             | 2.12.0.499  |
| 7.2.3.1           | 2.12.0.1030 |
| 7.2.3             | 2.12.0.1030 |
| 7.2.2             | 2.12.0.1104 |
| 7.2.1             | 2.12.0.442  |
| 7.2.0.1           | 2.12.0.31   |
| 7.2.0             | 2.12.0.31   |
| 7.1.0.3           | 2.11.1.191  |
| 7.1.0.2           | 2.11.1.1300 |
| 7.1.0.1           | 2.11.1.154  |
| 7.1.0             | 2.11.1.154  |
|                   |             |

| Management Center | FX0S        |
|-------------------|-------------|
| 7.0.6.3           | 2.10.1.1633 |
| 7.0.6.2           | 2.10.1.1625 |
| 7.0.6.1           | 2.10.1.1614 |
| 7.0.6             | 2.10.1.1603 |
| 7.0.5.1           | _           |
| 7.0.5             | 2.10.1.1400 |
| 7.0.4             | 2.10.1.208  |
| 7.0.3             | 2.10.1.1200 |
| 7.0.2.1           | 2.10.1.192  |
| 7.0.2             | 2.10.1.192  |
| 7.0.1.1           | 2.10.1.175  |
| 7.0.1             | 2.10.1.175  |
| 7.0.0.1           | 2.10.1.159  |
| 7.0.0             | 2.10.1.159  |

# Snort

Snort is the main inspection engine. Snort 3 requires threat defense.

Table 11:

| Management Center | Snort 2     | Snort 3        |
|-------------------|-------------|----------------|
| 7.6.0             | 2.9.23-227  | 3.1.79.1-121   |
| 7.4.2             | 2.9.22-2000 | 3.1.53.220-107 |
| 7.4.1.1           | 2.9.22-1103 | 3.1.53.100-56  |
| 7.4.1             | 2.9.22-1009 | 3.1.53.100-56  |
| 7.4.0             | 2.9.22-181  | 3.1.53.1-40    |
| 7.3.1.1           | 2.9.21-1109 | 3.1.36.101-2   |
| 7.3.1             | 2.9.21-1000 | 3.1.36.100-2   |
| 7.3.0             | 2.9.21-105  | 3.1.36.1-101   |
| 7.2.8.1           | 2.9.20-8101 | 3.1.21.800-2   |

| Management Center | Snort 2     | Snort 3       |
|-------------------|-------------|---------------|
| 7.2.8             | 2.9.20-8005 | 3.1.21.800-2  |
| 7.2.7             | 2.9.20-6102 | 3.1.21.600-26 |
| 7.2.6             | 2.9.20-6102 | 3.1.21.600-26 |
| 7.2.5.2           | 2.9.20-5201 | 3.1.21.501-27 |
| 7.2.5.1           | 2.9.20-5100 | 3.1.21.501-26 |
| 7.2.5             | 2.9.20-5002 | 3.1.21.500-21 |
| 7.2.4.1           | 2.9.20-4103 | 3.1.21.401-6  |
| 7.2.4             | 2.9.20-4004 | 3.1.21.400-24 |
| 7.2.3.1           | 2.9.20-3100 | 3.1.21.100-7  |
| 7.2.3             | 2.9.20-3010 | 3.1.21.100-7  |
| 7.2.2             | 2.9.20-2001 | 3.1.21.100-7  |
| 7.2.1             | 2.9.20-1000 | 3.1.21.100-7  |
| 7.2.0.1           | 2.9.20-108  | 3.1.21.1-126  |
| 7.2.0             | 2.9.20-107  | 3.1.21.1-126  |
| 7.1.0.3           | 2.9.19-3000 | 3.1.7.3-210   |
| 7.1.0.2           | 2.9.19-2000 | 3.1.7.2-200   |
| 7.1.0.1           | 2.9.19-1013 | 3.1.7.2-200   |
| 7.1.0             | 2.9.19-92   | 3.1.7.1-108   |
| 7.0.6.3           | 2.9.18-6306 | 3.1.0.603-31  |
| 7.0.6.2           | 2.9.18-6201 | 3.1.0.602-26  |
| 7.0.6.1           | 2.9.18-6008 | 3.1.0.600-20  |
| 7.0.6             | 2.9.18-6008 | 3.1.0.600-20  |
| 7.0.5.1           | 2.9.18-5100 | _             |
| 7.0.5             | 2.9.18-5002 | 3.1.0.500-7   |
| 7.0.4             | 2.9.18-4002 | 3.1.0.400-12  |
| 7.0.3             | 2.9.18-3005 | 3.1.0.300-3   |
| 7.0.2.1           | 2.9.18-2101 | 3.1.0.200-16  |
| 7.0.2             | 2.9.18-2022 | 3.1.0.200-16  |

| Management Center | Snort 2      | Snort 3      |
|-------------------|--------------|--------------|
| 7.0.1.1           | 2.9.18-1026  | 3.1.0.100-11 |
| 7.0.1             | 2.9.18-1026  | 3.1.0.100-11 |
| 7.0.0.1           | 2.9.18-1001  | 3.1.0.1-174  |
| 7.0.0             | 2.9.18-174   | 3.1.0.1-174  |
| 6.7.0.3           | 2.9.17-3014  | _            |
| 6.7.0.2           | 2.9.17-2003  | _            |
| 6.7.0.1           | 2.9.17-1006  | _            |
| 6.7.0             | 2.9.17-200   | _            |
| 6.6.7.2           | 2.9.16-7101  | _            |
| 6.6.7.1           | 2.9.16-7100  | _            |
| 6.6.7             | 2.9.16-7017  | _            |
| 6.6.5.2           | 2.9.16-5204  | _            |
| 6.6.5.1           | 2.9.16-5107  | _            |
| 6.6.5             | 2.9.16-5034  | _            |
| 6.6.4             | 2.9.16-4022  | _            |
| 6.6.3             | 2.9.16-3033  | _            |
| 6.6.1             | 2.9.16-1025  | _            |
| 6.6.0.1           | 2.9.16-140   | _            |
| 6.6.0             | 2.9.16-140   | _            |
| 6.5.0.5           | 2.9.15-15510 | _            |
| 6.5.0.4           | 2.9.15-15201 | _            |
| 6.5.0.3           | 2.9.15-15201 | _            |
| 6.5.0.2           | 2.9.15-15101 | _            |
| 6.5.0.1           | 2.9.15-15101 | _            |
| 6.5.0             | 2.9.15-7     | _            |
| 6.4.0.18          | 2.9.14-28000 | _            |
| 6.4.0.17          | 2.9.14-27005 | _            |
| 6.4.0.16          | 2.9.14-26002 | _            |

| Management Center | Snort 2      | Snort 3 |
|-------------------|--------------|---------|
| 6.4.0.15          | 2.9.14-25006 | _       |
| 6.4.0.14          | 2.9.14-24000 | _       |
| 6.4.0.13          | 2.9.14-19008 | _       |
| 6.4.0.12          | 2.9.14-18011 | _       |
| 6.4.0.11          | 2.9.14-17005 | _       |
| 6.4.0.10          | 2.9.14-16023 | _       |
| 6.4.0.9           | 2.9.14-15906 | _       |
| 6.4.0.8           | 2.9.14-15707 | _       |
| 6.4.0.7           | 2.9.14-15605 | _       |
| 6.4.0.6           | 2.9.14-15605 | _       |
| 6.4.0.5           | 2.9.14-15507 | _       |
| 6.4.0.4           | 2.9.12-15301 | _       |
| 6.4.0.3           | 2.9.14-15301 | _       |
| 6.4.0.2           | 2.9.14-15209 | _       |
| 6.4.0.1           | 2.9.14-15100 | _       |
| 6.4.0             | 2.9.14-15003 | _       |
| 6.3.0.5           | 2.9.13-15503 | _       |
| 6.3.0.4           | 2.9.13-15409 | _       |
| 6.3.0.3           | 2.9.13-15307 | _       |
| 6.3.0.2           | 2.9.13-15211 | _       |
| 6.3.0.1           | 2.9.13-15101 | _       |
| 6.3.0             | 2.9.13-15013 | _       |
| 6.2.3.18          | 2.9.12-1813  | _       |
| 6.2.3.17          | 2.9.12-1605  | _       |
| 6.2.3.16          | 2.9.12-1605  | _       |
| 6.2.3.15          | 2.9.12-1513  | _       |
| 6.2.3.14          | 2.9.12-1401  | _       |
| 6.2.3.13          | 2.9.12-1306  | _       |
|                   |              |         |

| Management Center | Snort 2     | Snort 3 |
|-------------------|-------------|---------|
| 6.2.3.12          | 2.9.12-1207 | _       |
| 6.2.3.11          | 2.9.12-1102 | _       |
| 6.2.3.10          | 2.9.12-902  | _       |
| 6.2.3.9           | 2.9.12-806  | _       |
| 6.2.3.8           | 2.9.12-804  | _       |
| 6.2.3.7           | 2.9.12-704  | _       |
| 6.2.3.6           | 2.9.12-607  | _       |
| 6.2.3.5           | 2.9.12-506  | _       |
| 6.2.3.4           | 2.9.12-383  | _       |
| 6.2.3.3           | 2.9.12-325  | _       |
| 6.2.3.2           | 2.9.12-270  | _       |
| 6.2.3.1           | 2.9.12-204  | _       |
| 6.2.3             | 2.9.12-136  | _       |
| 6.2.2.5           | 2.9.11-430  | _       |
| 6.2.2.4           | 2.9.11-371  | _       |
| 6.2.2.3           | 2.9.11-303  | _       |
| 6.2.2.2           | 2.9.11-273  | _       |
| 6.2.2.1           | 2.9.11-207  | _       |
| 6.2.2             | 2.9.11-125  | _       |
| 6.2.1             | 2.9.11-101  | _       |
| 6.2.0.6           | 2.9.10-301  | _       |
| 6.2.0.5           | 2.9.10-255  | _       |
| 6.2.0.4           | 2.9.10-205  | _       |
| 6.2.0.3           | 2.9.10-160  | _       |
| 6.2.0.2           | 2.9.10-126  | _       |
| 6.2.0.1           | 2.9.10-98   | _       |
| 6.2.0             | 2.9.10-42   | _       |
| 6.1.0.7           | 2.9.9-312   | _       |

| Management Center | Snort 2   | Snort 3 |  |
|-------------------|-----------|---------|--|
| 6.1.0.6           | 2.9.9-258 | _       |  |
| 6.1.0.5           | 2.9.9-225 | _       |  |
| 6.1.0.4           | 2.9.9-191 | _       |  |
| 6.1.0.3           | 2.9.9-159 | _       |  |
| 6.1.0.2           | 2.9.9-125 | _       |  |
| 6.1.0.1           | 2.9.9-92  | _       |  |
| 6.1.0             | 2.9.9-330 | _       |  |
| 6.0.1.4           | 2.9.8-490 | _       |  |
| 6.0.1.3           | 2.9.8-461 | _       |  |
| 6.0.1.2           | 2.9.8-426 | _       |  |
| 6.0.1.1           | 2.9.8-383 | _       |  |
| 6.0.1             | 2.9.8-224 | _       |  |
| 6.0.0.1           | 2.9.8-235 | _       |  |
| 6.0.0             | 2.9.8-229 | _       |  |

# **System Databases**

The vulnerability database (VDB) is a database of known vulnerabilities to which hosts may be susceptible, as well as fingerprints for operating systems, clients, and applications. The system uses the VDB to help determine whether a particular host increases your risk of compromise.

The geolocation database (GeoDB) is a database that you can leverage to view and filter traffic based on geographical location.

Table 12:

| Management Center   | VDB       | GeoDB          |
|---------------------|-----------|----------------|
| 7.6.0               | 4.5.0-392 | 2022-07-04-101 |
| 7.4.1 through 7.4.x | 4.5.0-376 | 2022-07-04-101 |
| 7.4.0               | 4.5.0-365 | 2022-07-04-101 |
| 7.3.0 through 7.3.x | 4.5.0-358 | 2022-07-04-101 |
| 7.2.0 through 7.2.x | 4.5.0-353 | 2022-05-11-103 |
| 7.1.0               | 4.5.0-346 | 2020-04-28-002 |
| 6.7.0 through 7.0.x | 4.5.0-338 | 2020-04-28-002 |

| Management Center   | VDB       | GeoDB          |
|---------------------|-----------|----------------|
| 6.6.1 through 6.6.x | 4.5.0-336 | 2019-06-03-002 |
| 6.6.0               | 4.5.0-328 | 2019-06-03-002 |
| 6.5.0               | 4.5.0-309 | 2019-06-03-002 |
| 6.4.0               | 4.5.0-309 | 2018-07-09-002 |
| 6.3.0               | 4.5.0-299 | 2018-07-09-002 |
| 6.2.3               | 4.5.0-290 | 2017-12-12-002 |
| 6.0.0 through 6.2.2 | 4.5.0-271 | 2015-10-12-001 |

# **Integrated Products**

The Cisco products listed below may have other compatibility requirements, for example, they may need to run on specific hardware, or on a specific operating system. For that information, see the documentation for the appropriate product.



Note

Whenever possible, we recommend you use the latest (newest) compatible version of each integrated product. This ensures that you have the latest features, bug fixes, and security patches.

#### **Identity Services and User Control**

Note that with:

- Cisco ISE and ISE-PIC: We list the versions of ISE and ISE-PIC for which we provide enhanced compatibility testing, although other combinations may work.
- Cisco Firepower User Agent: Version 6.6 is the last management center release to support the user agent software as an identity source; this blocks upgrade to Version 6.7+.
- Cisco TS Agent: Versions 1.0 and 1.1 are no longer available.

Table 13: Integrated Products: Identity Services/User Control

| Management<br>Center/Threat<br>Defense |                                  |                                  | Cisco Firepower<br>User Agent | Cisco Terminal<br>Services (TS) Agent | Passive Identity       |
|--|----------------------------------|----------------------------------|-------------------------------|---------------------------------------|------------------------|
|  | ISE                              | ISE-PIC                          | OSEI AYEIII                   | Services (13/ Agent                   | Agent                  |
| Supported with                         | Management center Device manager | Management center Device manager | Management center only        | Management center only                | Management center only |

| Management                 | Cisco Identity Servi  | ces Engine (ISE) | Cisco Firepower | Cisco Terminal      | Passive Identity<br>Agent |  |
|----------------------------|---|------------------|-----------------|---------------------|---------------------------|--|
| Center/Threat<br>Defense   | ISE   | ISE-PIC          | — User Agent    | Services (TS) Agent |                           |  |
| Cloud-delivered            | 3.3   | 3.2              | _               | 1.4                 | 1.0                       |  |
| Firewall Management Center | 3.2   | 3.1              |                 |                     |                           |  |
| (no version)               | 3.1 patch 2+  | 2.7 patch 2+     |                 |                     |                           |  |
|                            | 3.0 patch 6+  |                  |                 |                     |                           |  |
|                            | 2.7 patch 2+  |                  |                 |                     |                           |  |
|                            | The pxGrid cloud identity source requires ISE 3.1 patch 3 or later. |                  |                 |                     |                           |  |
| 7.6                        | 3.3 patch 2   | 3.2              | _               | 1.4                 | 1.0                       |  |
|                            | 3.2 patch 5   | 3.1              |                 |                     |                           |  |
|                            | 3.1 patch 2+  |                  |                 |                     |                           |  |
| 7.4                        | 3.3   | 3.2              |                 | 1.4                 | _                         |  |
|                            | 3.2   | 3.1              |                 |                     |                           |  |
|                            | 3.1 patch 2+  |                  |                 |                     |                           |  |
|                            | 3.0 patch 6+  |                  |                 |                     |                           |  |
| 7.3                        | 3.2   | 3.2              | _               | 1.4                 | _                         |  |
|                            | 3.1   | 3.1              |                 | 1.3                 |                           |  |
|                            | 3.0   | 2.7 patch 2+     |                 |                     |                           |  |
|                            | 2.7 patch 2+  |                  |                 |                     |                           |  |
| 7.2.4–7.2.x                | 3.3   | 3.2              | _               | 1.4                 | _                         |  |
|                            | 3.2   | 3.1              |                 | 1.3                 |                           |  |
|                            | 3.1   | 2.7 patch 2+     |                 |                     |                           |  |
|                            | 3.0   |                  |                 |                     |                           |  |
|                            | 2.7 patch 2+  |                  |                 |                     |                           |  |
| 7.2.0–7.2.3                | 3.2   | 3.2              | _               | 1.4                 | _                         |  |
|                            | 3.1   | 3.1              |                 | 1.3                 |                           |  |
|                            | 3.0   | 2.7 patch 2+     |                 |                     |                           |  |
|                            | 2.7 patch 2+  |                  |                 |                     |                           |  |

| Management               | Cisco Identity Ser | rvices Engine (ISE) | Cisco Firepower | Cisco Terminal      | Passive Identity |  |
|--------------------------|--------------------|---------------------|-----------------|---------------------|------------------|--|
| Center/Threat<br>Defense | ISE                | ISE-PIC             | — User Agent    | Services (TS) Agent | Agent            |  |
| 7.1                      | 3.2                | 3.2                 |                 | 1.4                 | _                |  |
|                          | 3.1                | 3.1                 |                 | 1.3                 |                  |  |
|                          | 3.0                | 2.7 patch 2+        |                 |                     |                  |  |
|                          | 2.7 patch 2+       |                     |                 |                     |                  |  |
| 7.0                      | 3.2                | 3.2                 | _               | 1.4                 | _                |  |
|                          | 3.1                | 3.1                 |                 | 1.3                 |                  |  |
|                          | 3.0                | 2.7 patch 2+        |                 |                     |                  |  |
|                          | 2.7 patch 2+       | 2.6 patch 6+        |                 |                     |                  |  |
|                          | 2.6 patch 6+       |                     |                 |                     |                  |  |
| 6.7                      | 3.0                | 2.7 patch 2+        | _               | 1.4                 | _                |  |
|                          | 2.7 patch 2+       | 2.6 patch 6+        |                 | 1.3                 |                  |  |
|                          | 2.6 patch 6+       |                     |                 |                     |                  |  |
| 6.6                      | 3.0                | 2.7, any patch      | 2.5             | 1.4                 | _                |  |
|                          | 2.7, any patch     | 2.6, any patch      | 2.4             | 1.3                 |                  |  |
|                          | 2.6, any patch     | 2.4                 |                 | 1.2                 |                  |  |
|                          | 2.4                |                     |                 |                     |                  |  |
| 6.5                      | 2.6                | 2.6                 | 2.5             | 1.4                 | _                |  |
|                          | 2.4                | 2.4                 | 2.4             | 1.3                 |                  |  |
|                          |                    |                     |                 | 1.2                 |                  |  |
|                          |                    |                     |                 | 1.1                 |                  |  |
| 6.4                      | 2.4                | 2.4                 | 2.5             | 1.4                 | _                |  |
|                          | 2.3 patch 2        | 2.2 patch 1         | 2.4             | 1.3                 |                  |  |
|                          | 2.3                |                     | 2.3, no ASA     | 1.2                 |                  |  |
|                          |                    |                     | FirePOWER       | 1.1                 |                  |  |
| 6.3                      | 2.4                | 2.4                 | 2.4             | 1.2                 | _                |  |
|                          | 2.3 patch 2        | 2.2 patch 1         | 2.3, no ASA     | 1.1                 |                  |  |
|                          | 2.3                | 2.4                 | FirePOWER       |                     |                  |  |

| Management<br>Center/Threat<br>Defense | Cisco Identity So | ervices Engine (ISE) | Cisco Firepower | Cisco Terminal      | Passive Identity |  |
|--|-------------------|----------------------|-----------------|---------------------|------------------|--|
|  | ISE               | ISE-PIC              | — User Agent    | Services (TS) Agent | Agent            |  |
| 6.2.3                                  | 2.3 patch 2       | 2.2 patch 1          | 2.4             | 1.2                 | _                |  |
|  | 2.3               |                      | 2.3             | 1.1                 |                  |  |
|  | 2.2 patch 5       |                      |                 |                     |                  |  |
|  | 2.2 patch 1       |                      |                 |                     |                  |  |
|  | 2.2               |                      |                 |                     |                  |  |
| 6.2.2                                  | 2.3               | 2.2 patch 1          | 2.3             | 1.2                 | _                |  |
|  | 2.2 patch 1       |                      |                 | 1.1                 |                  |  |
|  | 2.2               |                      |                 | 1.0                 |                  |  |
|  | 2.1               |                      |                 |                     |                  |  |
| 6.2.1                                  | 2.1               | 2.2 patch 1          | 2.3             | 1.1                 | _                |  |
|  | 2.0.1             |                      |                 | 1.0                 |                  |  |
|  | 2.0               |                      |                 |                     |                  |  |
| 6.2.0                                  | 2.1               | _                    | 2.3             | _                   | _                |  |
|  | 2.0.1             |                      |                 |                     |                  |  |
|  | 2.0               |                      |                 |                     |                  |  |
|  | 1.3               |                      |                 |                     |                  |  |
| 6.1                                    | 2.1               | _                    | 2.3             | _                   | _                |  |
|  | 2.0.1             |                      |                 |                     |                  |  |
|  | 2.0               |                      |                 |                     |                  |  |
|  | 1.3               |                      |                 |                     |                  |  |
| 6.0.1                                  | 1.3               | _                    | 2.3             | _                   | _                |  |
| 5.x                                    | _                 | _                    | 2.2             | _                   |                  |  |

# **Cisco Secure Dynamic Attributes Connector**

The Cisco Secure Dynamic Attributes Connector is a lightweight application that quickly and seamlessly updates firewall policies on the management center based on cloud/virtual workload changes. For more information, see one of:

- On-prem connector: Cisco Secure Dynamic Attributes Connector Configuration Guide
- Cloud-delivered connector: Managing the Cisco Secure Dynamic Attributes Connector with Cisco Defense Orchestrator chapters in Managing Firewall Threat Defense with Cloud-Delivered Firewall Management Center in Cisco Defense Orchestrator

• Bundled with the Secure Firewall Management Center: Cisco Secure Firewall Management Center Device Configuration Guide

Table 14: Integrated Products: Cisco Secure Dynamic Attributes Connector

| Management Center          | Cisco Secure Dynamic | c Attributes Connector     |
|----------------------------|----------------------|----------------------------|
|                            | On-Prem              | Cloud-delivered (with CDO) |
| Cloud-delivered management | 3.0                  | YES                        |
| center (no version)        | 2.2                  |                            |
|                            | 2.0                  |                            |
| 7.1+                       | 3.0                  | YES                        |
|                            | 2.2                  |                            |
|                            | 2.0                  |                            |
|                            | 1.1                  |                            |
| 7.0                        | 3.0                  | _                          |
|                            | 2.2                  |                            |
|                            | 2.0                  |                            |
|                            | 1.1                  |                            |

The Cisco Secure Dynamic Attributes Connector allows you to use service tags and categories from various cloud service platforms in security rules.

The following table shows supported connectors for the Cisco Secure Dynamic Attributes Connector (CSDAC) provided with the Secure Firewall Management Center. For a list of supported connectors with the on-premises CSDAC, see the Cisco Secure Dynamic Attributes Connector Configuration Guide.

Table 15: List of supported connectors by Cisco Secure Dynamic Attributes Connector version and platform

| CSDAC<br>version/platform                          | AWS | AWS<br>Security<br>Groups | AWS<br>Service<br>Tags | Azure | Azure<br>Service<br>Tags | Cisco<br>Cyber<br>Vision | Cisco<br>Multicloud<br>Defense | Generic<br>text | GitHub | Google<br>Cloud | Microsoft<br>Office 365 | vCenter | Webex | Zoom |
|--|-----|---------------------------|------------------------|-------|--------------------------|--------------------------|--------------------------------|-----------------|--------|-----------------|-------------------------|---------|-------|------|
| Version 1.1<br>(on-premises)                       | Yes | No                        | No                     | Yes   | Yes                      | No                       | No                             | No              | No     | No              | Yes                     | Yes     | No    | No   |
| Version 2.0 (on-premises)                          | Yes | No                        | No                     | Yes   | Yes                      | No                       | No                             | No              | No     | Yes             | Yes                     | Yes     | No    | No   |
| Version 2.2<br>(on-premises)                       | Yes | No                        | No                     | Yes   | Yes                      | No                       | No                             | No              | Yes    | Yes             | Yes                     | Yes     | No    | No   |
| Version 2.3<br>(on-premises)                       | Yes | No                        | No                     | Yes   | Yes                      | No                       | No                             | No              | Yes    | Yes             | Yes                     | Yes     | Yes   | Yes  |
| Version 3.0 (on-premises)                          | Yes | Yes                       | Yes                    | Yes   | Yes                      | Yes                      | No                             | Yes             | Yes    | Yes             | Yes                     | Yes     | Yes   | Yes  |
| Cloud-delivered<br>(Cisco Defense<br>Orchestrator) | Yes | No                        | No                     | Yes   | Yes                      | No                       | Yes                            | No              | Yes    | Yes             | Yes                     | No      | No    | No   |

| CSDAC<br>version/platform                     | AWS | AWS<br>Security<br>Groups | AWS<br>Service<br>Tags | Azure | Azure<br>Service<br>Tags | Cisco<br>Cyber<br>Vision | Cisco<br>Multicloud<br>Defense | Generic<br>text | GitHub | Google<br>Cloud | Microsoft<br>Office 365 | vCenter | Webex | Zoom |
|---|-----|---------------------------|------------------------|-------|--------------------------|--------------------------|--------------------------------|-----------------|--------|-----------------|-------------------------|---------|-------|------|
| Secure Firewall<br>Management<br>Center 7.4.1 | Yes | No                        | No                     | Yes   | Yes                      | No                       | No                             | Yes             | Yes    | Yes             | Yes                     | Yes     | Yes   | Yes  |
| Secure Firewall<br>Management<br>Center 7.6   | Yes | Yes                       | Yes                    | Yes   | Yes                      | Yes                      | No                             | Yes             | Yes    | Yes             | Yes                     | Yes     | Yes   | Yes  |

## **Threat Detection**

#### Note that:

- Cisco Security Analytics and Logging (On Premises) requires the Security Analytics and Logging On
  Prem app for the Stealthwatch Management Console (SMC). For information on Stealthwatch Enterprise
  (SWE) requirements for the SMC, see Cisco Security Analytics and Logging On Premises: Firepower
  Event Integration Guide.
- Cisco SecureX integration, which was available with Version 6.4–7.4, has now reached end of support. For a replacement technology, contact your Cisco representative or partner contact.

Table 16: Integrated Products: Threat Detection

| Management<br>Center/Threat<br>Defense | Cisco Security<br>Analytics and<br>Logging (SaaS) | Cisco Security<br>Analytics and<br>Logging (On Prem) | Cisco Secure<br>Malware Analytics | Cisco Security<br>Packet Analyzer |
|--|---|--|-----------------------------------|-----------------------------------|
| Supported with                         | Management center Device manager                  | Management center only                               | Management center only            | Management center only            |
| 6.5+                                   | YES   | YES  | YES                               | _                                 |
| 6.4                                    | YES   | YES  | YES                               | YES                               |
| 6.3                                    | _   | _  | YES                               | YES                               |
| 6.1-6.2.3                              | _   | _  | YES                               | _                                 |

#### **Threat Defense Remote Access VPN**

Remote access virtual private network (RA VPN) allows individual users to connect to your network from a remote location using a computer or supported mobile device. Keep in mind that newer threat defense features can require newer versions of the client.

For more information, see the Cisco Secure Client/AnyConnect Secure Mobility Client configuration guides.

Table 17: Integrated Products: Threat Defense RA VPN

|        | Cisco Secure Client/Cisco AnyConnect Secure<br>Mobility Client |
|--------|--|
| 6.2.2+ | 4.0+   |

# **Browser Requirements**

#### **Browsers**

We test with the latest versions of these popular browsers, running on currently supported versions of macOS and Microsoft Windows:

#### Table 18: Browsers

| Browser                       | Management Center Version                 |
|-------------------------------|---|
| Google Chrome                 | Any                                       |
| Mozilla Firefox               | Any                                       |
| Microsoft Edge (Windows only) | Version 6.7+                              |
|                               | Not extensively tested with How-Tos.      |
| Apple Safari                  | Not extensively tested. Feedback welcome. |

If you encounter issues with any other browser, or are running an operating system that has reached end of life, we ask that you switch or upgrade. If you continue to encounter issues or have feedback, contact Cisco TAC.

#### **Browser Settings and Extensions**

Regardless of browser, keep JavaScript and cookies enabled. If you are using Microsoft Edge, do *not* enable IE mode.

Note that some browser extensions can prevent you from saving values in fields like the certificate and key in PKI objects. These extensions include, but are not limited to, Grammarly and Whatfix Editor. This happens because these extensions insert characters (such as HTML) in the fields, which causes the system to see them invalid. We recommend you disable these extensions while you're logged into our products.

#### **Screen Resolution**

Table 19: Screen Resolution

| Interface                                   | Minimum Resolution |
|---|--------------------|
| Management center                           | 1280 x 720         |
| Chassis manager for the Firepower 4100/9300 | 1024 x 768         |

#### **Securing Communications**

When you first log in, the system uses a self-signed digital certificate to secure web communications. Your browser should display an untrusted authority warning, but also should allow you to add the certificate to the trust store. Although this will allow you to continue, we do recommend that you replace the self-signed certificate with a certificate signed by a globally known or internally trusted certificate authority (CA).

To begin replacing the self-signed certificate on the management center, choose **System** (\*) > **Configuration** > **HTTPS Certificate**. For detailed procedures, see the online help or the Cisco Secure Firewall Management Center Administration Guide



Note

If you do not replace the self-signed certificate:

- Google Chrome does not cache static content, such as images, CSS, or JavaScript. Especially in low bandwidth environments, this can extend page load times.
- Mozilla Firefox can stop trusting the self-signed certificate when the browser updates. If this happens, you can refresh Firefox, keeping in mind that you will lose some settings; see Mozilla's Refresh Firefox support page.

#### **Browsing from a Monitored Network**

Many browsers use Transport Layer Security (TLS) v1.3 by default. If you are using an SSL policy to handle encrypted traffic, and people in your monitored network use browsers with TLS v1.3 enabled, websites that support TLS v1.3 may fail to load.



Note

In Version 6.2.3 and earlier, websites that support TLS v1.3 always fail to load. As a workaround, you can configure managed devices to remove extension 43 (TLS 1.3) from ClientHello negotiation; see the software advisory titled: *Failures loading websites using TLS 1.3 with SSL inspection enabled.* In Version 6.2.3.7+, you can specify when to downgrade; see the **system support** commands in the Cisco Secure Firewall Threat Defense Command Reference after consulting with Cisco TAC.

# **End-of-Life Announcements**

The following tables provide end-of-life details. Dates that have passed are in **bold**.

#### Snort

If you are still using the Snort 2 inspection engine with threat defense, switch to Snort 3 now for improved detection and performance. It is available starting in threat defense Version 6.7+ (with device manager) and Version 7.0+ (with management center). Snort 2 will be deprecated in a future release. You will eventually be unable to upgrade Snort 2 devices.

In management center deployments, upgrading to threat defense Version 7.2+ also upgrades eligible Snort 2 devices to Snort 3. For devices that are ineligible because they use custom intrusion or network analysis policies, manually upgrade Snort. See *Migrate from Snort 2 to Snort 3* in the Cisco Secure Firewall Management Center Snort 3 Configuration Guide.

In device manager deployments, manually upgrade Snort. See *Intrusion Policies* in the Cisco Secure Firewall Device Manager Configuration Guide.

# Software

These major software versions have reached end of sale and/or end of support. Versions that have reached end of support are removed from the Cisco Support & Download site.

**Table 20: Software EOL Announcements** 

| Version | End of Sale | End of<br>Updates | End of<br>Support | Announcement  |
|---------|-------------|-------------------|-------------------|---|
| 7.1     | 2023-12-22  | 2024-12-21        | 2025-12-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD) 7.1.(x), Firepower Management Center (FMC) 7.1.(x), Adaptive Security Appliance(ASA) 9.17.(x) and Firepower eXtensible Operating System (FXOS) 2.11.(x) |
| 6.7     | 2021-07-09  | 2022-07-09        | 2024-07-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD) 6.7, Firepower Management Center (FMC) 6.7 and Firepower eXtensible Operating System (FXOS) 2.9(x)  |
| 6.6     | 2022-03-02  | 2023-03-02        | 2025-03-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD/FTDv) 6.6(x), Firepower Management Center (FMC/FMCv) 6.6(x) and Firepower eXtensible Operating System (FXOS) 2.8(x)                                      |
| 6.5     | 2020-06-22  | 2021-06-22        | 2023-06-30        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD) 6.5(x), Firepower Management Center (FMC) 6.5(x) and Firepower eXtensible Operating System (FXOS) 2.7(x)  |
| 6.4     | 2023-02-27  | 2024-02-27        | 2026-02-28        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD) 6.4(X), Firepower Management Center (FMC) 6.4(X) and Firepower eXtensible Operating System (FXOS) 2.6(x)  |
| 6.3     | 2020-04-30  | 2021-04-30        | 2023-04-30        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD) 6.2.2, 6.3(x), Firepower eXtensible Operating System (FXOS) 2.4.1 and Firepower Management Center (FMC) 6.2.2 and 6.3(x)                                |
| 6.2.3   | 2022-02-04  | 2023-02-04        | 2025-02-28        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD) 6.2.3, Firepower Management Center (FMC) 6.2.3 and Firepower eXtensible Operating System (FXOS) 2.2(x)  |
| 6.2.2   | 2020-04-30  | 2021-04-30        | 2023-04-30        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense (FTD) 6.2.2, 6.3(x), Firepower eXtensible Operating System (FXOS) 2.4.1 and Firepower Management Center (FMC) 6.2.2 and 6.3(x)                                |

| Version | End of Sale | End of<br>Updates | End of<br>Support | Announcement   |
|---------|-------------|-------------------|-------------------|--|
| 6.2.1   | 2019-03-05  | 2020-03-04        | 2022-03-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense versions 6.2.0 and 6.2.1   |
| 6.2     | 2019-03-05  | 2020-03-04        | 2022-03-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense versions 6.2.0 and 6.2.1   |
| 6.1     | 2019-11-22  | 2021-05-22        | 2023-05-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Threat Defense versions 6.1, NGIPSv and NGFWv versions 6.1, Firepower Management Center 6.1 and Firepower eXtensible Operating System (FXOS) 2.0(x) |
| 6.0.1   | 2017-11-10  | 2018-11-10        | 2020-11-30        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Software Releases 5.4, 6.0 and 6.0.1 and Firepower Management Center Software Releases 5.4, 6.0 and 6.0.1   |
| 6.0.0   | 2017-11-10  | 2018-11-10        | 2020-11-30        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Software Releases 5.4, 6.0 and 6.0.1 and Firepower Management Center Software Releases 5.4, 6.0 and 6.0.1   |
| 5.4     | 2017-11-10  | 2018-11-10        | 2020-11-30        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Software Releases 5.4, 6.0 and 6.0.1 and Firepower Management Center Software Releases 5.4, 6.0 and 6.0.1   |
| 5.3     | 2016-01-29  | 2016-07-30        | 2018-07-31        | End-of-Sale and End-of-Life Announcement for the Cisco FirePOWER Software v5.3 and v5.3.1 and FireSIGHT Management Center Software v5.3 and v5.3.1   |

These software versions on still-supported branches have been removed from the Cisco Support & Download site.



Note

In Version 6.2.3+, uninstalling a patch (fourth-digit release) results in an appliance running the version you upgraded from. This means that you can end up running a deprecated version simply by uninstalling a later patch. Unless otherwise stated, do *not* remain at a deprecated version. Instead, we recommend you upgrade. If upgrade is impossible, uninstall the deprecated patch.

#### **Table 21: Software Removed Versions**

| Version | Date<br>Removed | Related Bugs and Additional Details                              |  |
|---------|-----------------|--|--|
| 7.2.6   | 2024-04-29      | CSCwi63113: FTD Boot Loop with SNMP Enabled after reload/upgrade |  |

| Version | Date<br>Removed | Related Bugs and Additional Details  |  |
|---------|-----------------|--|--|
| 6.4.0.6 | 2019-12-19      | CSCvr52109: FTD may not match correct Access Control rule following a deploy to multiple devices |  |
| 6.2.3.8 | 2019-01-07      | CSCvn82378: Traffic through ASA/FTD might stop passing upon upgrading FMC to 6.2.3.8-51          |  |
| 5.4.0.1 | 2015            |  |  |
| 5.3.1.2 | 2015            | _  |  |

These integrated products are deprecated.

**Table 22: Deprecated Integrated Products** 

| Product                               | Details  |  |
|---------------------------------------|--|--|
| Cisco Firepower User Agent            | Version 6.6 is the last release to support the Cisco Firepower User Agent software as an identity source. You cannot upgrade an FMC with user agent configurations to Version 6.7+. You should switch to Cisco Identity Services Engine/Passive Identity Connector (ISE/ISE-PIC). This will also allow you to take advantage of features that are not available with the user agent. To convert your license, contact Sales. |  |
|                                       | For more information, see the End-of-Life and End-of-Support for the Cisco Firepower User Agent announcement and the Firepower User Identity: Migrating from User Agent to Identity Services Engine TechNote.  |  |
| Cisco Terminal Services (TS)<br>Agent | Cisco TS Agent Versions 1.0 and 1.1 have been removed from the Cisco Support & Download site. If you are using either of these versions, we recommend you upgrade.   |  |
| Cisco Security Packet<br>Analyzer     | Cisco Security Packet Analyzer is compatible with Versions 6.3 and 6.4 only.   |  |

# **Hardware and Virtual Platforms**

These platforms have reached end of sale and/or end of support.

**Table 23: Management Center Hardware EOL Announcements** 

| Platform                | Last Version | End of Sale | End of<br>Support | Announcement   |
|-------------------------|--------------|-------------|-------------------|--|
| FMC 1600,<br>2600, 4600 | TBD          | 2023-11-30  | 2028-11-30        | End-of-Sale and End-of-Life Announcement<br>for the Cisco Secure Firewall Management<br>Center Platforms - FMC 1600, FMC 2600,<br>FMC 4600 |
| FMC 1000,<br>2500, 4500 | 7.0          | 2019-07-12  | 2024-07-31        | End-of-Sale and End-of-Life Announcement<br>for the Cisco Firepower Management Center<br>Platforms- FMC 1000, FMC 2500, FMC 4500           |

| Platform               | Last Version | End of Sale | End of<br>Support | Announcement   |
|------------------------|--------------|-------------|-------------------|--|
| FMC 4000               | 6.6          | 2017-03-31  | 2022-03-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Management Center 4000                |
| FMC 2000               | 6.6          | 2017-03-31  | 2022-03-31        | End-of-Sale and End-of-Life Announcement for the Cisco Firepower Management Center 2000                |
| FMC 750                | 6.4          | 2017-03-31  | 2022-03-31        | End-of-Sale and End-of-Life Announcement<br>for the Cisco Firepower Management Center<br>750           |
| FMC 1500               | 6.4          | 2015-09-18  | 2020-09-30        | End-of-Sale and End-of-Life Announcement<br>for the Cisco FireSIGHT Management Center<br>1500 Products |
| FMC 3500               | 6.4          | 2015-08-31  | 2020-08-31        | End-of-Sale and End-of-Life Announcement for the Cisco FireSIGHT Management Center 3500                |
| FMC 500,<br>1000, 3000 | 5.4          | Sales ended | Support ended     | _  |

## Table 24: Virtual Platform EOL Announcements

| Platform                         | Last Version | End of Sale | End of<br>Support | Announcement   |
|----------------------------------|--------------|-------------|-------------------|--|
| FMCv with<br>Classic<br>licenses | 7.4          | 2023-04-19  | 2025-04-30        | End-of-Sale and End-of-Life Announcement<br>for the Cisco Secure Firewall Management<br>Center for Virtual Classic license |

# **Terminology and Branding**

## Table 25: Product Line

| Current Name                   | Older Names          |
|--------------------------------|----------------------|
| Secure Firewall Threat Defense | Firepower            |
|                                | Firepower System     |
|                                | FireSIGHT System     |
|                                | Sourcefire 3D System |

#### Table 26: Devices

| Current Name   |   | Older Names                             |  |
|----------------|---|---|--|
| Threat Defense | Secure Firewall Threat Defense            | Firepower Threat Defense (FTD)          |  |
|                | Secure Firewall Threat Defense<br>Virtual | Firepower Threat Defense Virtual (FTDv) |  |
| Classic        | ASA FirePOWER                             | _                                       |  |
| NGIPS          | ASA FirePOWER module                      |   |  |
|                | ASA with FirePOWER Services               |   |  |
|                | 7000/8000 series                          | Series 3                                |  |
|                | NGIPSv                                    | virtual managed device                  |  |
| Legacy         | Series 2                                  | _                                       |  |
|                | Cisco NGIPS for Blue Coat X-Series        | FireSIGHT Software for X-Series         |  |
|                |   | Sourcefire Software for X-Series        |  |

# Table 27: Device Management

| Current Name  | Older Names                                |
|---|--|
| Secure Firewall Management Center                       | Firepower Management Center (FMC)          |
|   | FireSIGHT Management Center                |
|   | FireSIGHT Defense Center                   |
|   | Defense Center                             |
| Secure Firewall Management Center Virtual               | Firepower Management Center Virtual (FMCv) |
|   | FireFIGHT Virtual Management Center        |
|   | FireSIGHT Virtual Defense Center           |
|   | Virtual Defense Center                     |
| Cloud-delivered Firewall Management Center              | _  |
| Secure Firewall device manager                          | Firepower Device Manager (FDM)             |
| Secure Firewall Adaptive Security Device Manager (ASDM) | Adaptive Security Device Manager (ASDM)    |
| Secure Firewall chassis manager                         | Firepower Chassis Manager                  |
| Cisco Defense Orchestrator (CDO)                        | _  |

# Table 28: Operating Systems

| Current Name  | Older Names                                  |
|---|--|
| Secure Firewall eXtensible Operating System (FXOS)            | Firepower eXtensible Operating System (FXOS) |
| Secure Firewall Adaptive Security Appliance (ASA)<br>Software | Adaptive Security Appliance (ASA) software   |

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