



FireSIGHT System Release Notes

Version 5.4.0.6 and Version 5.4.1.5

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Even if you are familiar with the update process, make sure you thoroughly read and understand these release notes, which describe supported platforms, new and changed features and functionality, known and resolved issues, and product and web browser compatibility. They also contain detailed information on prerequisites, warnings, and specific installation instructions for the following appliances:

- Series 3 Defense Centers (the DC750, DC1500, DC2000, DC3500, and the DC4000)
- Series 2 and Series 3 managed devices (the 3D500, 3D1000, 3D2000, 3D7010, 3D7020, 3D7030, 3D7050, 3D7110, 3D7115, 3D7120, 3D7125, 3D8120, 3D8130, 3D8140, 3D8250, 3D8260, 3D8270, 3D8290, 3D8350, 3D8360, 3D8370, 3D8390, AMP7150, AMP8050, AMP8150, AMP8350, AMP8360, AMP8370, and the AMP8390)
- Cisco ASA with FirePOWER Services (the ASA5506-X, ASA5506H-X, ASA5506W-X, ASA5508-X, ASA5512-X, ASA5515-X, ASA5516-X, ASA5525-X, ASA5545-X, ASA5555-X, ASA5585-X-SSP-10, ASA5585-X-SSP-20, ASA5585-X-SSP-40, the ASA5585-X-SSP-60, and the ISA 3000)
- 64-bit virtual Defense Centers and managed devices

Tip: For detailed information on the FireSIGHT System, refer to the online help or download the *FireSIGHT System User Guide* from the Support site.

These release notes are valid for Version 5.4.0.6 and Version 5.4.1.5 of the FireSIGHT System. You can update physical and virtual managed devices to Version 5.4.0.6. You can update Cisco ASA FirePOWER modules, physical Defense Center, and virtual Defense Centers to Version 5.4.1.5. Note that you can update appliances in the following manner:

- Defense Centers (the DC750, DC1500, DC2000, DC3500, and the DC4000) must be running Version 5.4 to update to Version 5.4.1.5. If your Defense Center is running an earlier version, you must update to Version 5.4 before updating to Version 5.4.1.5.

Note: A Defense Center may update its devices while running Version 5.4, but you will be unable to decrypt or inspect SSL traffic if your Defense Center remains at Version 5.4. If you plan on decrypting or inspecting SSL traffic, update your Defense Center to Version 5.4.1.5.

- Series 2 devices (the 3D500, 3D1000, 3D2000, 3D2100, 3D2500, 3D3500, 3D4500, and the 3D6500) must be running Version 5.4.0.5 to update to Version 5.4.0.6. If your Series 2 device is running an earlier version, you must update to Version 5.4.0.5 before updating to Version 5.4.0.6.
- Series 3 devices (the 3D7010, 3D7020, 3D7030, 3D7050, 3D7110, 3D7115, 3D7120, 3D7125, 3D8120, 3D8130, 3D8140, 3D8250, 3D8260, 3D8270, 3D8290, 3D8350, 3D8360, 3D8370, 3D8390, AMP7150, AMP8050, AMP8150, AMP8350, AMP8360, AMP8370, and the AMP8390) must be running Version 5.4.0.5 to update to Version 5.4.0.6. If your Series 3 device is running an earlier version, you must update to Version 5.4.0.5 before updating to Version 5.4.0.6.
- ASA FirePOWER modules (the ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X, ASA5585-X-SSP-10, ASA5585-X-SSP-20, ASA5585-X-SSP-40, and the ASA5585-X-SSP-60) must be running Version 5.4.0.5 to update to Version 5.4.0.6. If your ASA FirePOWER module is running an earlier version, you must update to Version 5.4.0.5 before updating to Version 5.4.0.6.

New Features and Functionality

- ASA FirePOWER module (ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X, and the ISA 3000) must be running at least Version 5.4.1 before updating to Version 5.4.1.5. See the *Cisco ASA FirePOWER Module Quick Start Guide* for more information on deploying and installing the module.

Note: If you plan on updating the system to Version 6.0, you must install the FireSIGHT System Version 6.0 Pre-Installation package prior to updating the Version 6.0. For more information, see the [FireSIGHT System Release Notes Version 6.0 Pre-Installation Package](#).

For more information, see the following sections:

- [New Features and Functionality, page 2](#)
- [Documentation Updates, page 8](#)
- [Before You Begin: Important Update and Compatibility Notes, page 9](#)
- [Installing the Update, page 15](#)
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New Features and Functionality

This section of the release notes summarizes the new and updated features and functionality included in Version 5.4.0.6 and Version 5.4.1.5 of the FireSIGHT System:

- [Terminology, page 2](#)
- [Changed Functionality, page 3](#)
- [Features and Functionality Introduced in Previous Versions, page 3](#)

For detailed information, see the *FireSIGHT System User Guide*, *FireSIGHT System Installation Guide*, *FireSIGHT System Virtual Installation Guide*, and *Installation and Configuration Guide*.

Terminology

The terminology used in Version 5.4.1.5 and Version 5.4.0.6 may differ from the terminology used in previous releases. For more information, see the [Firepower Compatibility Guide](#).

Table 1 Changes to Terminology

Version 5.4.0.6 and Version 5.4.1.5 Terminology	Description
Cisco	Formerly <i>Sourcefire</i>
FireSIGHT System	Formerly <i>Sourcefire 3D System</i>
Defense Center FireSIGHT Defense Center Cisco FireSIGHT Management Center	Formerly <i>Sourcefire Defense Center</i>
device managed device	Formerly <i>Sourcefire managed device</i>

Table 1 Changes to Terminology (continued)

Version 5.4.0.6 and Version 5.4.1.5 Terminology	Description
FireSIGHT managed devices	Refers to all devices managed by a FireSIGHT Defense Center (managed devices and ASA devices)
Cisco Adaptive Security Appliance (ASA) ASA device	Refers to the Cisco ASA hardware
Cisco ASA with FirePOWER Services	Refers to ASA devices with the ASA FirePOWER module installed
ASA FirePOWER module	Refers to the hardware and software modules installed on compatible ASA devices
ASA software	Refers to the base software installed on Cisco ASA devices
Adaptive Security Device Management (ASDM)	Refers to the Adaptive Security Device Manager used to manage ASA functionality
Direct management	Refers to management of the ASA FirePOWER module on the ASA5506-X using ASDM
Centralized management	Refers to management of the ASA FirePOWER module on the ASA5506-X using a FireSIGHT Defense Center

Tip: Cisco documentation may refer to the Defense Center as the FireSIGHT Management Center. The Defense Center and the FireSIGHT Management Center are the same appliance.

Changed Functionality

The following functionality is changed for Version 5.4.0.6 and Version 5.4.1.5:

- If the system detects a URL and cannot categorize the requested URL from prior lookup results, the system attempts a secondary URL lookup method. If the URL cannot be categorized within two seconds using the secondary URL lookup method, the system assigns the URL the Uncategorized category and processes the URL.
- The SMTP preprocessor now generates an alert for multi-line authentication command overflow attempts.
- The system now restricts reassembly of packets once the system reaches the max HTTP server flow depth and decreases latency in traffic processing.

Features and Functionality Introduced in Previous Versions

Version 5.4.1.1

Dedicated AMP Appliances

Version 5.4 introduces a new Series 3 FirePOWER managed devices designed with additional processing power to maximize the performance of the FireSIGHT System's AMP features. The AMP8050 is a 81xx Family device with support for Netmods and includes the additional storage necessary to function as a dedicated AMP appliance. The AMP8350 is an 83xx Family device also with support for Netmods and the additional storage required for AMP functionality. The AMP8350 model can be used as a stacked unit with the AMP8360, AMP8370, and AMP8390, for 2, 3, and 4 stacks, respectively.

Version 5.4.1:

FirePOWER Services Management Capabilities

Centralized Management of Cisco ASA5506-X with FirePOWER Services

The Defense Center is now able to manage FirePOWER Services (ASA FirePOWER devices) implementations running on ASA5506-X devices in the same way it does on all of the other ASA5500-X devices. This enables the management of multiple ASA5506-X devices running ASA FirePOWER devices from a single Defense Center, as long as the ASA platform is running Version 9.3.2.2 or later and the ASA FirePOWER device is running Version 5.4.1 or later. Administrators will be able to configure intrusion detection and prevention policies, advanced malware protection, application control, user and group control, file control, and URL filtering and then apply those configurations to multiple ASA5506-X devices all at once. In addition, Defense Centers provide critical dashboards, event views, alerting capabilities, and reporting from all of your ASA FirePOWER devices in a single view.

Direct Management of Cisco ASA5506-X with FirePOWER Services

Cisco's Adaptive Security Device Manager (ASDM) can be used to perform the same ASA FirePOWER management functions listed above, but only on one ASA5506-X device at a time. In addition, you can manage system policies, licensing, and back up and restore directly.

Management Limitations of Cisco ASA with FirePOWER Services

At the current time, the Cisco ASA FirePOWER product consists of two different products tightly integrated with each other: the ASA Firewall and the FirePOWER Next-Generation Intrusion Prevention System (NGIPS). Whereas critical data sharing between the two has been accomplished, a unified management platform is still in development.

For this reason, the Cisco ASA functionality is currently managed through the Cisco Security Manager (CSM) or the Adaptive Security Device Manager (ASDM), and the FirePOWER Services functionality is managed through the Cisco Defense Center. As a result, the Defense Center does not support any of the following capabilities:

- Cisco ASA hardware-based features, including clustering, stacking, switching, routing, virtual private networks (VPN), and network address translation (NAT).
- Configuring ASA interfaces. In addition, when FirePOWER Services are deployed in SPAN port mode, any ASA interfaces that have been configured will not be displayed.
- Shutting down, restarting or otherwise managing ASA processes.
- Creating or restoring backups from ASA devices.
- Writing access control rules to match traffic using VLAN tag conditions.

Note: The ASA platform provides these features, configured using the ASA command line interface (CLI) and ASDM. For more information, see the ASA FirePOWER module documentation.

Platform Enhancements

VMware Tool Support

You can now use VMware Tools with FireSIGHT System virtual appliances. This enhances compatibility with the VMware environment and improves management of virtual devices by enabling soft power down, migration, and other virtual specific capabilities. VMware tools are supported on:

- 64-bit Virtual Defense Center
- 64-bit Virtual managed device

Note: As of Version 5.4 of the FireSIGHT System, the system supports ESXi version 5.0, 5.1, and 5.5.

New Features and Functionality

Support for VMXNET3 Interfaces in VMware Virtual Appliances

VMXNET3 interface types are now supported on virtual devices. This allows you to use high-speed network interfaces, up to 10Gbits/s.

Multiple Management Interfaces

You can now use multiple management interface ports on Series 3 Defense Centers, FirePOWER (Series 3) managed devices, and virtual Defense Centers. You can set one interface for management traffic and another interface for event traffic. This improves deployment options in some environments.

Series 3 Support

Version 5.4 introduces the 3D7050 as a 70xx Family device with a dual core quad thread processor, 8GB of RAM, and a 80GB hard drive.

LACP Support

FirePOWER (Series 3) devices are now able to take part in Link Aggregation Control Protocol (LACP) (IEEE 802.3ad) negotiation to aggregate multiple links together into one. This allows both link redundancy and bandwidth sharing.

Defense Center 2000 (DC2000)

The DC2000 is a new Defense Center appliance platform that offers double the performance and capacity of the DC1500.

Defense Center 4000 (DC4000)

The DC4000 is a new Defense Center appliance platform that offers double the performance and capacity of the DC3500.

International Compatibility Enhancements

Unicode Support

The system now displays the names of files detected through file detection, malware detection, and FireAMP file events. This allows the display of non-Western characters, including those that are double-byte encoded.

Geolocation and Security Intelligence Data in Correlation Rules

The correlation rules engine has been updated to make connection, geolocation, and Security Intelligence data available. This allows you to generate correlated events or take correlated actions based on these two new constraints. For example, if an `Impact 1` intrusion event is detected from a specific country, you can set up an alert to log that information to an external syslog server.

Support for Private FireAMP Cloud

With Version 5.4, you can use a private FireAMP cloud rather than the Cisco public cloud. This requires installation of a private cloud virtual appliance. The private cloud mediates interactions with the public cloud so you can gather collected threat information from the public cloud without exposing information from your network.

The following features and functionality were updated in Version 5.4:

Detection and Security Enhancements

Integrated SSL Decryption

FirePOWER (Series 3) devices can now identify SSL communications and decrypt the traffic before applying attack, application, and malware detection. You can use SSL decryption in any of the supported Series 3 device deployment modes, including inline and passive. SSL policies control characteristics of SSL in use within the enterprise, with SSL rules to exert granular control over encrypted traffic logging and handling.

New Features and Functionality

Simplified Normalization and Preprocessor Configuration

You now configure traffic normalization and preprocessing in the access control policy, rather than the intrusion policy. This simplifies configuration, especially for new users. The sensitive data preprocessor, rule states, alerting, and event thresholds can still be configured at an individual intrusion policy level.

New `file_type` Keyword in the Snort Rule Language

A new **file_type** keyword is available in the Snort rules language that enables the specification of a file type for detection. This is a streamlined alternative to the existing **flowbits**-driven method.

Expanded IoC support from FireAMP Connectors

The list of Indicators of Compromise (IoC) provided by FireAMP is now dynamic and data-driven. As new IoCs become available, they are automatically supported by the Defense Center. This enhances the IoC correlation capability in any deployment where FireAMP is used.

Protected Rule Content

A new capability of the Snort rule language is available for use in high-security environments. You can now create a Snort content match using hashed data. This allows the rule writer to specify what content to search for, but never exposes the content in plain text.

Previously Changed Functionality

The following functionality was introduced in Version 5.4.1.4:

- VLAN tags are now limited to integers between 0 and 4095.
- The system now supports matching SSL traffic on all port values, including values 32,768 and larger.
- If the system detects a URL and cannot categorize the requested URL from prior lookup results, the system attempts a secondary URL lookup method. If the URL can not be categorized within two seconds using the secondary URL lookup method, the system assigns the URL the **Uncategorized** category and processes the URL.

The following functionality was introduced in Version 5.4.1.2:

- You must apply the same access control policy to all devices that you plan to stack or cluster before you configure the stack or cluster.
- You are now able to choose to inspect traffic during policy apply to prevent network disruption.
- The system no longer reports the discovery event status to the Health Policy page.
- You can now create an access control policy that references either an access control rule network condition set to block all IPv6 addresses with `::/0` or a network rule set to block all IPv4 addresses with `0.0.0.0/0` is now supported.
- The system now reports an event for all CPU reports when CPU usage changes from a high level to a normal state.

The following functionality was introduced in Version 5.4.1.1:

- The system now clears all intrusion policy locks when you upload intrusion rules or install intrusion rule updates.

The following functionality was introduced in Version 5.4.1:

- Registered ASA devices now have configurable advanced options on the Advanced tab of the Device Management page (**Devices > Device Management**).
- The **show users** CLI command is now supported on ASA devices.
- You can configure alerts only for retrospective events or network-based malware events from the Advanced Malware Protections Alerts tab on the Alerts page.

The following features and functionality were updated in Version 5.4:

New Features and Functionality

- You can now view VLAN tags for connection events in the event viewer (**Analysis > Connections > Events**).
- The system now identifies login attempts over the FTP, HTTP, and MDNS protocols.
- You can now select archived connection events separately from discovery events for transmission to the eStreamer client.
- The Discovery Event Health Monitor is no longer available in health policies.
- Expand Packet View, previously available in Version 4.10.x, is now a configurable option in Version 5.4 via the Event View Settings tab (**Admin > User Preferences > Event View Settings**).
- Importing a custom intrusion rule as an .rtf file now generates an **Invalid Rules File 'rtf_rule.rtf': Must be a plain text file that is ASCII or UTF-8 encoded** warning.
- You can now generate the following intrusion event performance graphs via the Intrusion Event Graphs page (**Overview > Summary > Intrusion Event Graphs**):
 - ECN Flags Normalized in TCP Traffic/Packet
 - ECN Flags Normalized in TCP Traffic/Session
 - ICMPv4 Echo Normalizations
 - ICMPv6 Echo Normalizations
 - IPv4 DF Flag Normalizations
 - IPv4 Options Normalizations
 - IPv4 Reserved Flag Normalizations
 - IPv4 Resize Normalizations
 - IPv4 TOS Normalizations
 - IPv4 TTL Normalizations
 - IPv6 TTL Normalizations
 - IPv6 Options Normalizations
 - TCP Header Padding Normalizations
 - TCP No Option Normalizations
 - TCP NS Flag Normalizations
 - TCP Options Normalizations
 - TCP Packets Blocked by Normalization
 - TCP Reserved Flags Normalizations
 - TCP Segment Reassembly Normalizations
 - TCP SYN Option Normalizations
 - Total TCP Filtered Packets
 - TCP Timestamp ECR Normalizations

Documentation Updates

- Total UDP Filtered Packets
- TCP Urgent Flag Normalizations
- You can now configure the **HTTP Referrer** and **User Agent** fields in the Connection Events table view and the Security Intelligence Events table view when configuring the displayed columns.
- You can now view warnings associated with the individual rules of your access control policy via the Access Control Policy page (**Policies > Access Control**). In the access control policy editor, view a warning by hovering your pointer over the alert icon next to the rule name and reading the warning in the tooltip text, or by selecting the **Show Warnings** button at the top of the page to view the warnings associated with all the rules referenced in your access control policy.
- In Version 5.4, inline normalization is automatically enabled when you create a network analysis policy with **Inline Mode** enabled. In previous versions, you had to manually enable inline normalization in your inline intrusion policies. Note that the update from Version 5.3.x to Version 5.4 does not change your inline normalization settings.
- You can now add access control rule port conditions that specify unassigned protocol numbers not included in the **Protocol** drop-down list.
- You no longer need a secondary rule to control FTP Data Channel in your access control policy.
- The new **Decompress SWF File (LZMA)**, **Decompress SWF File (Deflate)**, and **Decompress PDF File (Default)** HTTP inspect preprocessor options offer enhanced decompression support for PDF and SWF file content.
- The TCP stream preprocessor now has enhanced protocol-awareness for SMTP, POP3, and IMAP.
- The system now provides enhanced detection of information in application traffic, including detection of application data in DNS traffic and detection of users in additional protocols.
- You can now configure LDAP authentication to use Common Access Cards (CACs) to associate the card with a user name so a user can log directly into the system using the card.
- The system now offers enhanced GPRS Tunneling Protocol (GTP) support.

Documentation Updates

You can download all updated documentation from the Support site. In Version 5.4.0.6 and Version 5.4.1.5, the following documents were updated to reflect the addition of new features and changed functionality and to address reported documentation issues:

- *FireSIGHT System Online Help*
- *FireSIGHT System Online Help (SEU)*
- *FireSIGHT System User Guide*
- *FireSIGHT System Installation Guide*

The documentation updated for Version 5.4.0.6 and Version 5.4.1.5 contains the following errors:

- The *FireSIGHT System User Guide* incorrectly states that **Cisco does not recommend enabling more than one non-SFRP IP address on a clustered Series 3 device's routed or hybrid interface where one SFRP IP address is already configured. The system does not perform NAT if clustered Series 3 devices experience failover while in standby mode.** The system does perform NAT if clustered Series 3 devices experience failover while in standby mode.
- The *FireSIGHT System User Guide* incorrectly states that you can **use Lights-Out Management (LOM) on the default (eth0) management interface on a Serial Over LAN (SOL) connection to remotely monitor or manage Series 3 appliances.** Using the same IP address for LOM and for a SOL connection to your Series 3 device is not currently supported.

Before You Begin: Important Update and Compatibility Notes

- The *FireSIGHT System User Guide* does not reflect that, on devices with limited memory, the number of intrusion policies may not be paired with more than one variable set. In the case where you can apply an access control policy that references only one intrusion policy, verify every reference to the intrusion policy is paired with the same variable set. Pairing an intrusion policy with different variable sets results in memory usage.
- The *FireSIGHT System Virtual Installation Guide* incorrect states the following about logging in to a virtual device at the VMware console using admin as the username and the new admin account password specified in the deployment setup wizard: **If you did not change the password using the wizard or you are deploying with a ESXi OVF template, use Cisco as the password.** The documentation should state that if you did not change the password using the wizard or you are deploying with an ESXi OVF template, use **Sourcefire** as the password. (CSCut77002)
- The *FireSIGHT System User Guide* does not reflect that:

When using URL Filtering with **Do not retry URL cache miss lookup** disabled to allow URL retry, the system delays packets for URLs that have not been previously seen by the firewall while the URL category and reputation are determined so URL filtering rules can be resolved. Until the lookup of the URL category and reputation is completed, or the lookup request times out, in inline, routed, or transparent deployments the packet will be held at the firewall. If a two second time limit is reached without the category and reputation determination completing, the URL category **Uncategorized** is used with no reputation, and rule evaluation proceeds. URL category determination can introduce up to two seconds of delay in packet delivery, depending on local network conditions. If such delay is not acceptable, URL retry should not be allowed. Note that without URL retry, URL filtering may not be effective until such time as URL category and reputation determination completes for each URL. Until that time, packets that would have been filtered based on the URL's category or reputation will be filtered based on the **Uncategorized** category. To disable URL retry, check the **Do not retry URL cache miss lookup** option in the General advanced settings of the access control policy (**Policies > Access Control > edit policy > Advanced > edit General Settings**). Note that this option is disabled and URL retry is allowed by default.

Before You Begin: Important Update and Compatibility Notes

Before you begin the update process for Version 5.4.0.6 and Version 5.4.1.5, you should familiarize yourself with the behavior of the system during the update process, as well as with any compatibility issues or required pre- or post-update configuration changes.

Caution: Cisco **strongly** recommends you perform the update in a maintenance window or at a time when the interruption will have the least impact on your deployment.

Note: If you plan on updating the system to Version 6.0, you must install the FireSIGHT System Version 6.0 Pre-Installation package prior to updating the Version 6.0. For more information, see the [FireSIGHT System Release Notes Version 6.0 Pre-Installation Package](#).

For more information, see the following sections:

- [Configuration and Event Backup Guidelines, page 10](#)
- [Traffic Flow and Inspection During the Update, page 10](#)
- [Audit Logging During the Update, page 11](#)
- [Version Requirements for Updating to Version 5.4.0.6 and Version 5.4.1.5, page 11](#)
- [Time and Disk Space Requirements for Updating to Version 5.4.0.6 and Version 5.4.1.5, page 11](#)
- [Product Compatibility After Updating to Version 5.4.0.6 and Version 5.4.1.5, page 12](#)
- [Returning to a Previous Version, page 14](#)

Configuration and Event Backup Guidelines

Before you begin the update, Cisco strongly recommends that you delete or move any backup files that reside on your appliance, then back up current event and configuration data to an external location.

Use the Defense Center to back up event and configuration data for itself and the devices it manages. For more information on the backup and restore feature, see the *FireSIGHT System User Guide*.

Note: The Defense Center purges locally stored backups from previous updates. To retain archived backups, store the backups externally.

Caution: BIOS Version 2.0.1b must be running on your DC2000 and DC4000 appliances in order to update to version 5.4.1.1 or later. If updating your appliances fails due to an incompatible BIOS version, contact Support.

Traffic Flow and Inspection During the Update

The update process reboots managed devices. Depending on how your devices are configured and deployed, the following capabilities are affected:

- traffic inspection, including application awareness and control, URL filtering, Security Intelligence, intrusion detection and prevention, and connection logging
- traffic flow, including switching, routing, NAT, VPN, and related functionality
- link state

Note that when you update clustered devices, the system performs the update one device at a time to avoid traffic interruption.

Traffic Inspection and Link State

In an inline deployment, your managed devices (depending on model) can affect traffic flow via application control, user control, URL filtering, Security Intelligence, and intrusion prevention, as well as switching, routing, NAT, and VPN. For more information on appliance capabilities, see the *FireSIGHT System Installation Guide*.

The following table provides details on how traffic flow, inspection, and link state are affected during the update, depending on your deployment. Note that regardless of how you configured any inline sets, switching, routing, NAT, and VPN are **not** performed during the update process.

Table 2 Network Traffic Interruptions

Deployment	Network Traffic Interrupted?
Inline with configurable bypass (Configurable bypass option enabled for inline sets)	Network traffic is interrupted at two points during the update: <ul style="list-style-type: none"> ■ At the beginning of the update process, traffic is briefly interrupted while link goes down and up (flaps) and the network card switches into hardware bypass. Traffic is not inspected during hardware bypass. ■ After the update finishes, traffic is again briefly interrupted while link flaps and the network card switches out of bypass. After the endpoints reconnect and reestablish link with the sensor interfaces, traffic is inspected again. The configurable bypass option is not supported on virtual devices, Cisco ASA with FirePOWER Services, non-bypass NetMods on 8000 Series devices, or SFP transceivers on 71xx Family devices.
Inline	Network traffic is blocked throughout the update.
Passive	Network traffic is not interrupted, but also is not inspected during the update.

Switching and Routing

Series 3 devices do **not** perform switching, routing, NAT, VPN, or related functions during the update. If you configured your devices to perform only switching and routing, network traffic is blocked throughout the update.

Audit Logging During the Update

When updating appliances that have a web interface, after the system completes its pre-update tasks and the streamlined update interface page appears, login attempts to the appliance are not reflected in the audit log until the update process is complete and the appliance reboots.

Version Requirements for Updating to Version 5.4.0.6 and Version 5.4.1.5

To update to Version 5.4.1.5, a Defense Center must be running at least Version 5.4. Defense Centers running Version 5.4.1.1 can manage devices running Version 5.4.0.6 and Version 5.4.1.5. If you are running an earlier version, you can obtain updates from the Support site.

A Defense Center must be running at least Version 5.4 to update its managed devices to Version 5.4.1.5.

The closer your device's or ASA module's current version to the release version (Version 5.4.0.6 or Version 5.4.1.5), the less time the update takes.

Caution: BIOS Version 2.0.1b must be running on DC2000 and DC4000 in order to update to your appliances to Version 5.4.1.1 or later. If updating your appliances fails due to an earlier BIOS version running on your DC2000 or DC4000, contact Support.

Note: If you plan on updating the system to Version 6.0, you must install the FireSIGHT System Version 6.0 Pre-Installation package prior to updating the Version 6.0. For more information, see the [FireSIGHT System Release Notes Version 6.0 Pre-Installation Package](#).

Time and Disk Space Requirements for Updating to Version 5.4.0.6 and Version 5.4.1.5

The table below provides disk space and time guidelines for the Version 5.4.0.6 and Version 5.4.1.5 update. Note that when you use the Defense Center to update a managed device, the Defense Center requires additional disk space on its **/Volume** partition.

Caution: Do **not** restart the update or reboot your appliance at any time during the update process. Cisco provides time estimates as a guide, but actual update times vary depending on the appliance model, deployment, and configuration. Note that the system may appear inactive during the pre-checks portion of the update and after rebooting; this is expected behavior.

The reboot portion of the update includes a database check. If errors are found during the database check, the update requires additional time to complete. System daemons that interact with the database do not run during the database check and repair.

If you encounter issues with the progress of your update, contact Support.

Before You Begin: Important Update and Compatibility Notes

Table 3 Time and Disk Space Requirements

Appliance	Space on /	Space on /Volume	Space on /Volume on Manager	Time
Series 2 managed devices	126 MB	7892 MB	1787 MB	89 minutes
Series 3 managed devices	77 MB	1749 MB	623 MB	36 minutes
Series 3 Defense Centers	406 MB	10685 MB	n/a	161 minutes
virtual Defense Centers	416 MB	8305 MB	n/a	hardware dependent
virtual managed devices	304 MB	7986 MB	1600 MB	hardware dependent
Cisco ASA with FirePOWER Services on ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X, ASA5585-X-SSP-10, ASA5585-X-SSP-20, ASA5585-X-SSP-40, and the ASA5585-X-SSP-60	98 MB	9497 MB	1607 MB	70 minutes
Cisco ASA with FirePOWER Services on ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X, and the ISA 3000	32 MB	7835 MB	1444 MB	197 minutes

Product Compatibility After Updating to Version 5.4.0.6 and Version 5.4.1.5

You **must** use at least Version 5.4.1 of the Defense Center to manage devices running Version 5.4.1.4. To manage an ASA FirePOWER module on an ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X, or ISA 3000 device, you **must** use at least Version 5.4.1 of the Defense Center.

Table 4 Version Requirements for Management

Appliance	Minimum Version to be Managed by a Defense Center Running Version 5.4.1.5
FirePOWER managed devices	Version 5.4.0.5 of the FireSIGHT System
Cisco ASA with FirePOWER Services on ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X, ASA5585-X-SSP-10, ASA5585-X-SSP-20, ASA5585-X-SSP-40, and the ASA5585-X-SSP-60	Version 5.4.0.5 of the FireSIGHT System
Cisco ASA with FirePOWER Services on ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, and ASA5516-X	Version 5.4.1 of the FireSIGHT System

Caution: If you update the Defense Center to Version 5.4.1.5, Cisco strongly recommends updating all registered devices to Version 5.4.0.5. Failing to update registered devices to Version 5.4.0.5 may cause traffic outages.

CAUTION: If you update the system to Version 6.0 from Version 5.4.0.5 or earlier, the system experiences issues processing traffic. If you plan on updating the system to Version 6.0, you **must** update the managed devices to at least Version 5.4.0.6 prior to updating to Version 6.0

Operating System Compatibility

You can host 64-bit virtual appliances running Version 5.4.1.5 on the following hosting environments:

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- VMware vSphere Hypervisor/VMware ESXi 5.0
- VMware vSphere Hypervisor/VMware ESXi 5.1
- VMware vSphere Hypervisor/VMware ESXi 5.5
- VMware vCloud Director 5.1

You can install ASA FirePOWER modules running Version 5.4.0.6 on the following ASA platforms running ASA Version 9.3(2), ASA Version 9.3(3), ASA Version 9.4(x) and later, ASA Version 9.5(1.5), ASA Version 9.5(2), ASA Version 9.5(3), ASA Version 9.6(x) and later, ASA Version 9.7(x), ASA Version 9.8(x), and ASA Version 9.9(x):

- ASA5512-X
- ASA5515-X
- ASA5525-X
- ASA5545-X
- ASA5555-X
- ASA5585-X-SSP-10, ASA5585-X-SSP-20, ASA5585-X-SSP-40, and ASA5585-X-SSP-60

You can install ASA FirePOWER modules running Version 5.4.1.5 on the following AA platforms running ASA Version 9.4(x), ASA 9.5(1.5), ASA Version 9.5(2), ASA Version 9.5(3), ASA Version 9.6(x), ASA Version 9.7(x), ASA Version 9.8(x), and ASA Version 9.9(x):

- ASA5506-X
- ASA5506W-X
- ASA5506H-X
- ASA5508-X
- ASA5516-X

Note that you can install Version 5.4.1.5 on ASA5506-X platforms running ASA Version 9.3(2), ASA Version 9.3(3) as well.

Note that ASA5500-X series devices managed by ASDM must be running ASDM Version 7.3(3) and later and 7.4(1) and later. For more information, see the *FireSIGHT System Installation Guide* or the *FireSIGHT System Virtual Installation Guide*.

Web Browser Compatibility

Version 5.4.0.6 and Version 5.4.1.5 of the web interface for the FireSIGHT System has been tested on the browsers listed in the following table.

Note: The Chrome browser does not cache static content, such as images, CSS, or Javascript, with the FireSIGHT System-provided self-signed certificate. This may cause FireSIGHT System to redownload static content when you refresh. To avoid this, add a self-signed certificate to the trust store of the browser/OS or use another web browser.

Note: If you use the Microsoft Internet Explorer 11 browser, you must disable the **Include local directory path when uploading files to server** option in your Internet Explorer settings via **Tools > Internet Options > Security > Custom level**.

Table 5 Supported Web Browsers

Browser	Required Enabled Options and Settings
Chrome 47	JavaScript, cookies
Firefox 43	JavaScript, cookies, Secure Sockets Layer (SSL) v3
Microsoft Internet Explorer 9, 10, and 11	JavaScript, cookies, Secure Sockets Layer (SSL) v3, 128-bit encryption, Active scripting security setting, Compatibility View, set Check for newer versions of stored pages to Automatically

Many browsers use Transport Layer Security (TLS) v1.3 by default. If you have an active SSL policy and your browser uses TLSv1.3, websites that support TLSv1.3 fail to load. As a workaround, configure your managed device to remove extension 43 (TLS 1.3) from ClientHello negotiation. See this [software advisory](#) for more information.

Screen Resolution Compatibility

Cisco recommends selecting a screen resolution that is at least 1280 pixels wide. The user interface is compatible with lower resolutions, but a higher resolution optimizes the display.

Returning to a Previous Version

If you need to return your appliance to a previous release of the FireSIGHT System for any reason, contact Support for more information.

Reimage Appliances

If you need to reimage your appliances to the current release of the FireSIGHT System for any reason, refer to the *FireSIGHT System Virtual Installation Guide* for virtual appliances, and the Restoring a FireSIGHT System Appliance to Factory Defaults section of the *FireSIGHT System Installation Guide* for all other appliances.

Note that if you uninstall a version of

To update to Version 5.4.0.6 or Version 5.4.1.5 from a Version 5.4.1 or Version 5.4.0 image, see [Before You Begin: Important Update and Compatibility Notes, page 9](#) and [Installing the Update, page 15](#).

Download the following files from the Support site:

Note: Download the image directly from the Support site. If you transfer an image file by email, it may become corrupted.

- for Series 3 Defense Center:

Sourcefire_Defense_Center_S3-5.4.0-763-Restore.iso

- for virtual Defense Centers:

Sourcefire_Defense_Center_Virtual64_VMWare-5.4.0-763.tar.gz

- for Series 2 managed devices:

Sourcefire_3D_Device_500-5.4.0-Restore.iso
 Sourcefire_3D_Device_1000-5.4.0-Restore.iso
 Sourcefire_3D_Device_2000-5.4.0-Restore.iso
 Sourcefire_3D_Device_2100-5.4.0-Restore.iso
 Sourcefire_3D_Device_2500-5.4.0-Restore.iso
 Sourcefire_3D_Device_3500-5.4.0-Restore.iso
 Sourcefire_3D_Device_45100-5.4.0-Restore.iso

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- Sourcefire_3D_Device_6500-5.4.0-Restore.iso
for Series 3 managed devices:
- Sourcefire_3D_Device_S3-5.4.0-763-Restore.iso
for virtual managed devices:
- Sourcefire_3D_Device_Virtual64_VMWare-5.4.0-763.tar.gz
for ASA FirePOWER modules:
- asafr-sys-5.4.0-763.pkg
- for Cisco ASA with FirePOWER Services (ASA5506-X, ASA5506H-X, ASA5506W-X, ASA5508-X, and ASA5516-X):
- asafr-5500X-boot-5.4.1-211.img
- asafr-sys-5.4.1-211.pkg

Note: To install the ASA FirePOWER module Version 5.4.1.5 image on Cisco ASA with FirePOWER Services, see the *Cisco ASA FirePOWER Module Quick Start Guide* for more information on deploying and installing the module.

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Before you begin the update, you must thoroughly read and understand these release notes, especially [Before You Begin: Important Update and Compatibility Notes, page 9](#).

Updates can require large data transfers from the Firepower Management Center to managed devices. Before you begin, make sure your management network has sufficient bandwidth to successfully perform the transfer. See the Troubleshooting Tech Note at <https://www.cisco.com/c/en/us/support/docs/security/firepower-management-center/212043-Guidelines-for-Downloading-Data-from-the.html>.

To update Defense Centers running at least Version 5.4.1 to Version 5.4.1.5, ASA FirePOWER modules (ASA5506-X, ASA5506H-X, ASA5506W-X, ASA5508-X, and ASA5516-X) running at least Version 5.4.1 to Version 5.4.1.5, and managed devices and ASA FirePOWER modules (ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X, ASA5585-X-SSP-10, ASA5585-X-SSP-20, ASA5585-X-SSP-40, and ASA5585-X-SSP-60) running at least Version 5.4 of the FireSIGHT System to Version 5.4.0.6, see the guidelines and procedures outlined below:

- [Updating Defense Centers, page 17](#)
- [Updating Managed Devices, ASA FirePOWER Modules, page 19](#)

Caution: Do **not** reboot or shut down your appliances during the update until you see the login prompt. The system may appear inactive during the pre-checks portion of the update; this is expected behavior and does not require you to reboot or shut down your appliances.

When to Perform the Update

Because the update process may affect traffic inspection, traffic flow, and link state, Cisco **strongly** recommends you perform the update in a maintenance window or at a time when the interruption will have the least impact on your deployment.

Installation Method

Use the Defense Center's web interface to perform the update. Update the Defense Center first, then use it to update the devices it manages.

Order of Installation

Update your Defense Centers before updating the devices they manage.

Caution: Version 5.4.1.5 introduces the ability to control system retry of URL cache miss lookups. URL category determination can introduce up to two seconds of delay in packet delivery, depending on local network conditions. If such delay is not acceptable, URL retry should not be allowed. Note that without URL retry, URL filtering may not be

Installing the Update

effective until such time as URL category and reputation determination completes for each URL. Until that time, packets that would have been filtered based on the URL's category or reputation will be filtered based on the **Uncategorized** category. For more information on preventing URL retry, see [Preventing URL Cache Miss Lookup Retries, page 19](#).

Installing the Update on Paired Defense Centers

When you begin to update one Defense Center in a high availability pair, the other Defense Center in the pair becomes the primary, if it is not already. In addition, the paired Defense Centers stop sharing configuration information; paired Defense Centers do **not** receive software updates as part of the regular synchronization process.

To ensure continuity of operations, do **not** update paired Defense Centers at the same time. First, complete the update procedure for the secondary Defense Center, then update the primary Defense Center.

Installing the Update on Clustered Devices

When you install an update on clustered devices, the system performs the update on the devices one at a time. When the update starts, the system first applies it to the secondary device, which goes into maintenance mode until any necessary processes restart and the device is processing traffic again. The system then applies the update to the primary device, which follows the same process.

Installing the Update on Stacked Devices

When you install an update on stacked devices, the system performs the updates simultaneously. Each device resumes normal operation when the update completes. Note that:

- If the primary device completes the update before all of the secondary devices, the stack operates in a limited, mixed-version state until all devices have completed the update.
- If the primary device completes the update after all of the secondary devices, the stack resumes normal operation when the update completes on the primary device.

After the Installation

After you perform the update on either the Defense Center or managed devices, you **must** reapply device configuration and access control policies. Applying an access control policy may cause a short pause in traffic flow and processing, and may also cause a few packets to pass uninspected. For more information, see the *FireSIGHT System User Guide*.

Note: If you plan on updating the system to Version 6.0, you must install the FireSIGHT System Version 6.0 Pre-Installation package prior to updating the Version 6.0. For more information, see the [FireSIGHT System Release Notes Version 6.0 Pre-Installation Package](#).

There are several additional post-update steps you should take to ensure that your deployment is performing properly. These include:

- verifying that the update succeeded
- making sure that all appliances in your deployment are communicating successfully
- updating to the latest patch for Version 5.4.1.5, if available, to take advantage of the latest enhancements and security fixes
- optionally, updating your intrusion rules and vulnerability database (VDB) and reapplying your access control policies
- making any required configuration changes based on the information in [New Features and Functionality, page 2](#)

The next sections include detailed instructions not only on performing the update, but also on completing any post-update steps. Make sure you complete all of the listed tasks.

Updating Defense Centers

Use the procedure in this section to update your Defense Centers, including virtual Defense Centers. For the Version 5.4.1.5 update, Defense Centers reboot.

Caution: You must update your DC2000 and DC4000 BIOS to Version 2.0.1b in order to update your appliances to Version 5.4.1.1 or later. Download the BIOS update via the Cisco Support site.

Caution: Before you update the Defense Center, reapply access control policies to any managed devices. Otherwise, the eventual update of the managed device may fail.

Caution: Do **not** reboot or shut down your appliances during the update until after you see the login prompt. The system may appear inactive during the pre-checks portion of the update; this is expected behavior and does not require you to reboot or shut down your appliances.

Note: If you plan on updating the system to Version 6.0, you must install the FireSIGHT System Version 6.0 Pre-Installation package prior to updating the Version 6.0. For more information, see the [FireSIGHT System Release Notes Version 6.0 Pre-Installation Package](#).

Note: Updating a Defense Center to Version 5.4.1.5 removes existing uninstallers from the appliance.

Caution: Version 5.4.1.5 introduces the ability to control system retry of URL cache miss lookups. URL category determination can introduce up to two seconds of delay in packet delivery, depending on local network conditions. If such delay is not acceptable, URL retry should not be allowed. Note that without URL retry, URL filtering may not be effective until such time as URL category and reputation determination completes for each URL. Until that time, packets that would have been filtered based on the URL's category or reputation will be filtered based on the **Uncategorized** category. For more information on preventing URL retry, see [Preventing URL Cache Miss Lookup Retries, page 19](#).

To update a Defense Center:

1. Read these release notes and complete any required pre-update tasks.

For more information, see [Before You Begin: Important Update and Compatibility Notes, page 9](#).

2. Download the update from the Support site:

- for Series 3 and virtual Defense Centers:

```
Sourcefire_3D_Defense_Center_S3_Upgrade-5.4.1.5-27.sh
```

Note: Download the update directly from the Support site. If you transfer an update file by email, it may become corrupted.

3. Upload the update to the Defense Center by selecting **System > Updates**, then clicking **Upload Update** on the **Product Updates** tab. Browse to the update and click **Upload**.

The update is uploaded to the Defense Center. The web interface shows the type of update you uploaded, its version number, and the date and time it was generated. The page also indicates whether a reboot is required as part of the update.

4. Make sure that the appliances in your deployment are successfully communicating and that there are no issues reported by the health monitor.
5. View the task queue (**System > Monitoring > Task Status**) to make sure that there are no tasks in progress.

You **must** wait until any long-running tasks are complete before you begin the update. Tasks that are running when the update begins are stopped, become failed tasks, and cannot be resumed; you must manually delete them from the task queue after the update completes. The task queue automatically refreshes every 10 seconds.

6. Select **System > Updates**.

Installing the Update

7. Click the install icon next to the update you uploaded.
8. Select the Defense Center and click **Install**. Confirm that you want to install the update and reboot the Defense Center.

The update process begins. You can begin monitoring the update's progress in the task queue (**System > Monitoring > Task Status**). However, after the Defense Center completes its necessary pre-update checks, you are logged out. When you log back in, the Upgrade Status page appears. The Upgrade Status page displays a progress bar and provides details about the script currently running.

If the update fails for any reason, the page displays an error message indicating the time and date of the failure, which script was running when the update failed, and instructions on how to contact Support. Do **not** restart the update.

Caution: If you encounter any other issue with the update (for example, if a manual refresh of the Update Status page shows no progress for several minutes), do **not** restart the update. Instead, contact Support.

When the update completes, the Defense Center displays a success message and reboots.

9. After the update finishes, clear your browser cache and force a reload of the browser. Otherwise, the user interface may exhibit unexpected behavior.
10. Log into the Defense Center.
11. Review and accept the **End User License Agreement (EULA)**. Note that you are logged out of the appliance if you do not accept the **EULA**.
12. Select **Help > About** and confirm that the software version is listed correctly: Version 5.4.1.5. Also note the versions of the rule update and VDB on the Defense Center; you will need this information later.
13. Verify that the appliances in your deployment are successfully communicating and that there are no issues reported by the health monitor.
14. If the rule update available on the Support site is newer than the rules on your Defense Center, import the newer rules. Do not auto-apply the imported rules at this time.

For information on rule updates, see the *FireSIGHT System User Guide*.

15. If the VDB available on the Support site is newer than the VDB on your Defense Center, install the latest VDB.

Installing a VDB update causes a short pause in traffic flow and processing, and may also cause a few packets to pass uninspected. For more information, see the *FireSIGHT System User Guide*.

16. Reapply device configurations to all managed devices.

To reactivate a grayed-out **Apply** button, edit any interface in the device configuration, then click **Save** without making changes.

17. Reapply access control policies to all managed devices.

Caution: Do **not** reapply your intrusion policies individually; you must reapply all access control policies completely.

Applying an access control policy may cause a short pause in traffic flow and processing, and may also cause a few packets to pass uninspected. For more information, see the *FireSIGHT System User Guide*.

18. If a patch for Version 5.4.1.5 is available on the Support site, apply the latest patch as described in the *FireSIGHT System Release Notes* for that version. You **must** update to the latest patch to take advantage of the latest enhancements and security fixes.

Preventing URL Cache Miss Lookup Retries

Version 5.4.1.5 introduces the ability to control system retry of URL cache miss lookups. URL category determination can introduce up to two seconds of delay in packet delivery, depending on local network conditions. If such delay is not acceptable, URL retry should not be allowed.

The following conditions cause the system to allow URL retry: using URL Filtering with **Do not retry URL cache miss lookup** disabled to allow URL retry or using URL Filtering with any managed devices running Version 5.4.0.2, Version 5.4.0.3, Version 5.4.0.4, Version 5.4.0.5 or managed devices running Version 5.4.1, Version 5.4.1.1, Version 5.4.1.2, Version 5.4.1.3, or Version 5.4.1.4 when you are managing the device using a Defense Center running 5.4.1.5 or later.

When you allow URL retry, the system delays packets for URLs that have not been previously seen by the firewall while the URL category and reputation are determined so URL filtering rules can be resolved. Until the lookup of the URL category and reputation is completed, or the lookup request times out, in inline, routed, or transparent deployments the packet will be held at the firewall. If a two second time limit is reached without the category and reputation determination completing, the URL category **Uncategorized** is used with no reputation, and rule evaluation proceeds. Note that without URL retry, URL filtering may not be effective until such time as URL category and reputation determination completes for each URL. Until that time, packets that would have been filtered based on the URL's category or reputation will be filtered based on the Uncategorized category.

If you want to disable URL retry and you are using a Defense Center running Version 5.4.1.5 or later to manage devices running Version 5.4.0.2, Version 5.4.0.3, Version 5.4.0.4, Version 5.4.0.5 or managed devices running Version 5.4.1, Version 5.4.1.1, Version 5.4.1.2, Version 5.4.1.3, or Version 5.4.1.4, you must first update the devices to Version 5.4.0.6 or later or Version 5.4.1.5 or later, then disable URL retry as described below and reapply the access control policy.

To disable URL retry on managed devices running Version 5.4.0.6 or later or Version 5.4.1.5 or later, check the **Do not retry URL cache miss lookup** option in the General advanced settings of the access control policy (**Policies > Access Control > edit policy > Advanced > edit General Settings**) and reapply the access control policy to the device. Note that this option is disabled and URL retry is allowed by default.

Updating Managed Devices, ASA FirePOWER Modules

After you update your Defense Centers to Version 5.4, Version 5.4.1, or Version 5.4.1.5, use them to update the devices they manage.

A Defense Center must be running at least Version 5.4 to update its managed devices to Version 5.4.1.4. Because they do not have a web interface, you must use the Defense Center to update your virtual managed devices, , and ASA FirePOWER modules.

Updating managed devices is a two-step process. First, download the update from the Support site and upload it to the managing Defense Center. Next, install the software. You can update multiple devices at once, but only if they use the same update file.

For the Version 5.4.0.6 update, all devices reboot; VAP groups reload. Series 3 devices do **not** perform traffic inspection, switching, routing, NAT, VPN, or related functions during the update. Depending on how your devices are configured and deployed, the update process may also affect traffic flow and link state. For more information, see [Traffic Flow and Inspection During the Update, page 10](#).

Caution: Before you update a managed device, use its managing Defense Center to reapply the appropriate access control policy to the managed device. Otherwise, the managed device update may fail.

Caution: Do **not** reboot or shut down your appliances during the update until after you see the login prompt. The system may appear inactive during the pre-checks portion of the update; this is expected behavior and does not require you to reboot or shut down your appliances.

Installing the Update

Note: If you plan on updating the system to Version 6.0, you must install the FireSIGHT System Version 6.0 Pre-Installation package prior to updating the Version 6.0. For more information, see the [FireSIGHT System Release Notes Version 6.0 Pre-Installation Package](#).

If you plan to update managed Series 3 devices,

To update managed devices and ASA FirePOWER modules, and :

1. Read these release notes and complete any required pre-update tasks.

Note: Download the update directly from the Support site. If you transfer an update file by email, it may become corrupted.

For more information, see [Before You Begin: Important Update and Compatibility Notes, page 9](#).

Caution: The system must have the required amount of disk space prior to attempting an update. Updating a system that does not have enough disk space will fail. For more information, see the [Time and Disk Space Requirements for Updating to Version 5.4.0.6 and Version 5.4.1.5, page 11](#)

2. Update the software on the devices' managing Defense Center; see [Updating Defense Centers, page 17](#).

3. Download the update from the Support site:

- for Series 2 managed devices:

```
Sourcefire_3D_Device_Upgrade-5.4.0.6-27.sh
```

- for Series 3 managed devices:

```
Sourcefire_3D_Device_S3_Patch_Minimal-5.4.0.6-35.sh
```

- for virtual managed devices:

```
Sourcefire_3D_Device_Virtual64_VMware_Upgrade-5.4.0.6-27.sh
```

- for ASA FirePOWER modules (ASA5512-X, ASA5515-X, ASA5525-X, ASA5545-X, ASA5555-X, ASA5585-X-SSP-10, ASA5585-X-SSP-20, ASA5585-X-SSP-40, and ASA5585-X-SSP-60):

```
Cisco_Network_Sensor_Upgrade-5.4.0.6-27.sh
```

- for ASA FirePOWER modules (ASA5506-X, ASA5506W-X, ASA5506H-X, ASA5508-X, ASA5516-X, and the ISA 3000):

```
Cisco_Network_Sensor_Upgrade-5.4.1.5-22.sh
```

4. Upload the update to the Defense Center by selecting **System > Updates**, then clicking **Upload Update** on the Product Updates tab. Browse to the update and click **Upload**.

The update is uploaded to the Defense Center. The web interface shows the type of update you uploaded, its version number, and the date and time it was generated. The page also indicates whether a reboot is required as part of the update.

5. Make sure that the appliances in your deployment are successfully communicating and that there are no issues reported by the health monitor.
6. Click the install icon next to the update you are installing.
7. Select the devices where you want to install the update.

If you are updating a stacked pair, selecting one member of the pair automatically selects the other. You must update members of a stacked pair together.

8. Click **Install**. Confirm that you want to install the update and reboot the devices.

Resolved Issues

9. The update process begins. You can monitor the update's progress in the Defense Center's task queue (**System > Monitoring > Task Status**).

Note that managed devices may reboot twice during the update; this is expected behavior.

Caution: If you encounter issues with the update (for example, if the task queue indicates that the update has failed or if a manual refresh of the task queue shows no progress for several minutes), do not restart the update. Instead, contact Support.

10. Select **Devices > Device Management** and confirm that the devices you updated have the correct software version: Version 5.4.0.6.
11. Verify that the appliances in your deployment are successfully communicating and that there are no issues reported by the health monitor.
12. Reapply device configurations to all managed devices.

Tip: To reactivate a grayed-out **Apply** button, edit any interface in the device configuration, then click **Save** without making changes.

13. Reapply access control policies to all managed devices.

Applying an access control policy may cause a short pause in traffic flow and processing, and may also cause a few packets to pass uninspected. For more information, see the *FireSIGHT System User Guide*.

14. If a patch for Version 5.4.0.6 is available on the Support site, apply the latest patch as described in the *FireSIGHT System Release Notes* for that version.

You **must** update to the latest patch to take advantage of the latest enhancements and security fixes.

Caution: When using URL Filtering with **Do not retry URL cache miss lookup** disabled to allow URL retry, the system delays packets for URLs that have not been previously seen by the firewall while the URL category and reputation are determined so URL filtering rules can be resolved. Until the lookup of the URL category and reputation is completed, or the lookup request times out, in inline, routed, or transparent deployments the packet will be held at the firewall. If a two second time limit is reached without the category and reputation determination completing, the URL category **Uncategorized** is used with no reputation, and rule evaluation proceeds. URL category determination can introduce up to two seconds of delay in packet delivery, depending on local network conditions. If such delay is not acceptable, URL retry should not be allowed. Note that without URL retry, URL filtering may not be effective until such time as URL category and reputation determination completes for each URL. Until that time, packets that would have been filtered based on the URL's category or reputation will be filtered based on the **Uncategorized** category. To disable URL retry, check the **Do not retry URL cache miss lookup** option in the General advanced settings of the access control policy (**Policies > Access Control > edit policy > Advanced > edit General Settings**). Note that this option is disabled and URL retry is allowed by default.

CAUTION: If you update the system to Version 6.0 from Version 5.4.0.5 or earlier, the system experiences issues processing traffic. If you plan on updating the system to Version 6.0, you **must** update the managed devices to at least Version 5.4.0.6 prior to updating to Version 6.0

Resolved Issues

You can track defects resolved in this release using the Cisco Bug Search Tool (<https://tools.cisco.com/bugsearch/>). A Cisco account is required. To view defects addressed in older versions, refer to the legacy caveat tracking system.

Issues Resolved in Version 5.4.0.6 and Version 5.4.1.5:

- **Security Issue** Addressed multiple vulnerability issues in Linux, MYSQL, DNS, NTP, OpenSSL, and other third parties, as described in CVE-2013-1944, CVE-2013-4545, CVE-2014-0139, CVE-2014-9296, CVE-2015-0405, CVE-2015-0423, CVE-2015-0433, CVE-2015-0438, CVE-2015-0439, CVE-2015-0441, CVE-2015-0500, CVE-2015-0501, CVE-2015-0503, CVE-2015-0508, CVE-2015-1793, CVE-2015-2568, CVE-2015-2571, CVE-2015-2573, CVE-2015-2575, CVE-2015-6335, CVE-2015-7855, and CVE-2015-7871.
- **Security Issue** Addressed an arbitrary script injection vulnerability allowing unauthenticated, remote attackers to exploit GNU C library DNS resolution functionality, as described in CVE-2013-7423.
- **Security Issue** Addressed multiple vulnerabilities in OpenSSL that allowed external attacks on client connections, as described in CVE-2014-8275 and CVE-2015-0204.
- **Security Issue** Addressed multiple cross-site scripting (XSS) and arbitrary HTML injection vulnerabilities, including those described in CVE-2015-6353.
- **Security Issue** Addressed multiple vulnerability issues that generated denial of service in NTP, XML, OpenSSL, and other third parties as described in CVE-2015-7691, CVE-2015-7692, CVE-2015-7701, CVE-2015-7702, CVE-2015-7704, CVE-2015-7705, CVE-2015-7848, CVE-2015-7850, CVE-2015-7853.
- **Security Issue** Addressed multiple arbitrary script injection vulnerabilities allowing unauthenticated, remote attackers to exploit or overwrite functionality as described in CVE-2015-7703.
- **Security Issue** Addressed a vulnerability that allowed an authenticated user can access system files using path traversal as described in CVE-2015-7851.
- Improved inspection of traffic tagged by Cisco Identity Service Engine (ISE). (143060/CSCze94478)
- Resolved an issue where the memory usage health monitor erroneously generated false positives. (144593/CSCze94840)
- Resolved an issue where, if you created an intrusion rule with the source IP set to **!\$HOME_NET** and added the intrusion rule to an intrusion policy, then changed the rule state to **Drop and Generate Events**, the system does not allow you to save the intrusion policy. (CSCur53155)
- Resolved an issue where the **show traffic-statistics** CLI command did not display data for the second interface of an inline pair on a virtual device. (CSCur59771)
- Resolved an issue where the system generated excessive and extraneous logs in the system log (syslog). (CSCur75622)
- Resolved an issue where, if you changed the selected time zone in the Time Zone Preference tab on the User Preferences page, the system did not reflect daylight savings time. (CSCur92028)
- Syslog messages now populate information for the following fields: **HTTP Referrer**, **User Agent**, and **Referenced Host**. (CSCus18179)
- Resolved an issue where the system included both raw HTTP packets and reassembled packets in event counts. (CSCus68893)
- Resolved an issue where, if you applied an access control rule containing a network object or group that had been previously deleted from a primary or active Defense Center in a high availability configuration, the secondary or passive system did not recognize the network object or group as deleted and experienced issues. (CSCut54187)
- The system only supports one normal IP address for virtual router interfaces on clustered Series 3 devices. (CSCut58601)
- Improved health alert notifications for failed malware cloud lookups. (CSCut77594)
- Resolved an issue where, if the system experienced two sequential system failures, the system fell into bypass mode even if you configured non-bypass mode. (CSCut80892)

Resolved Issues

- Resolved an issue where using the **show managers** CLI command on a device registered to a system with multiple interfaces configured caused the system to display the incorrect IP address. (CSCut95947)
- Resolved an issue where, if you applied a NAT policy to a pair of clustered devices, policy apply on the secondary device failed and the system separated the cluster. (CSCut98774)
- Resolved an issue where, if you created an access control policy with a URL category condition and the system loaded a partial database, the system experienced issues. (CSCuu06714)
- Resolved an issue where a SSH session did not time out when it should. (CSCuu21037)
- Resolved an issue where, in some cases, creating traffic profiles generated multiple errors. (CSCuu22704)
- Resolved an issue where, if you enabled at least two management interfaces and your system lost connectivity to one of the interfaces, the system defaulted to an incorrect gateway IP address and you could not access the interface. (CSCuu44020)
- Resolved an issue where creating a search for an Original Client IP on the Intrusion Events Page using a negated subnet IP address caused the system to incorrectly exclude intrusion events with no Original Client IP. (CSCuu68438)
- Resolved an issue where, if you created a file policy configured to **Inspect Archives**, the network map experienced issues and the system stopped processing traffic. (CSCuu14892)
- Resolved an issue where, if you created an access control policy with the default action set to **Block with Reset** that referenced a file policy with the default action set to **Block Malware**, the system did not block the first malware file detected. (CSCuu81183)
- Resolved an issue where, if a backup filename contained a space, applying the backup to a Defense Center failed. (CSCuu99818)
- Improved eStreamer performance. (CSCuu94902)
- Resolved an issue where the system did not acknowledge users as members of their primary LDAP groups. (CSCuv03821)
- Resolved an issue where, if you generated a connection event report in the Report Templates page with a modified **Maximum Results** value, the system generated the report with the default value instead of the configured value. (CSCuv06557)
- Resolved an issue where the system did not deploy VPN when it should. (CSCuv20623)
- The system now supports UTF-8 characters when creating LDAP objects and downloading groups and users in access control and system policies. (CSCuv27375)
- Resolved an issue where, if a host generated an indication of compromise (IOC) and you disabled the IOC for that host on the Host Profile page, the Indications of Compromise by Host dashboard widget incorrectly displayed the IOC. (CSCuv41376)
- Resolved an issue where, if you registered many devices, configured many interfaces on a managed device, or created many VPN deployments, the system did not generate information for all of the devices or interfaces or VPN deployments on their respective pages. (CSCuv76287)
- Improved health monitor alerts. (CSCuv96121)
- Resolved an issue where policy apply on Series 3 devices and ASA Firepower modules experiencing high volumes of traffic failed due to a memory limitation. (CSCuv99982)
- Resolved an issue where, if you created a new identity in a Microsoft Active Directory session with a **Department** value containing double quotes (“ ”) and immediately logged into a system, the system was unable to retrieve the new user profile. (CSCuw03498)

Resolved Issues

- Improved the stability of the network map. (CSCuW06359)
- Resolved an issue where, if you configured a static route on your appliance and reapplied your system policy, the system incorrectly deleted the static route. (CSCuW07826)
- Resolved an issue where the system displayed the incorrect device name in correlation events generated by a correlation rule on malware events. (CSCuW11056)
- Resolved an issue where registering and managing multiple devices on a DC4000 caused system connection issues. (CSCuW11462)
- Resolved an issue where, if you registered a device to the primary Defense Center in a high availability environment and renamed the device to a name containing 40 characters or more before device synchronization completed, device registration to the secondary Defense Center failed. (CSCuW27368)
- Resolved an issue where, if you created an access control rule with the default action set to either **Interactive Block** or **Interactive Block with Reset**, clicking **Continue** on the interactive block page did not redirect to a HTTPS page. (CSCuW28868)
- Resolved an issue where, if you used a Windows OS computer to access the web interface and created an SSL policy, the firewall incorrectly blocked sessions even if you did not set the default action to **Block**. (CSCuW36519)
- Resolved an issue where the system with an applied file policy failed to detect and process FTP traffic. (CSCuW49257)
- Resolved an issue where deleting third-party vulnerabilities via a host input client connection caused system issues. (CSCuW56215)
- Resolved an issue where, if you applied an access control policy referencing four or more file policies to a Cisco ASA FirePOWER module, the system incorrectly processed Simple Mail Transfer Protocol (SMTP) traffic and experienced issues. (CSCuW65202)
- Resolved an issue where systems with enabled traffic profiles experienced disk space issues. (CSCuW74528)
- Resolved an issue where, if you executed host input commands on a Defense Center in a high availability configuration, the system failed to apply the host input commands to the secondary Defense Center in the pair. (CSCuW98376)
- Resolved an issue where, after resolving a disk space issue, the system continued to experience issues storing events and logged **All shard connections are busy for partition** errors. (CSCuX00142)

Issues Resolved in Previous Versions

Previously resolved issues are listed by version.

Issues resolved in Version 5.4.0.5 and Version 5.4.1.4:

- **Security Issue** Resolved an issue where the system did not properly encode a newly added comment to an access control policy rule.
- **Security Issue** Addressed multiple cross-site request forgery (CSRF) vulnerabilities as described in CVE-2015-4242.
- Resolved an issue where, if you logged into your system as a user other than the **admin** user and edited the base layer of an intrusion policy, the system incorrectly marked all affected edited intrusion policies as updated by **admin** when it should not have. (CSCuR79437)
- Resolved an issue where, if you configured a system policy to use remote NTP server to synchronize time to a system with registered devices and you disabled device management, NTP failed to sync updated time to the device after the system enabled device management. (CSCuR97671)

Resolved Issues

- Resolved an issue where, in some cases, the Defense Center experienced system issues and failed to load access control rules. (CSCut30047)
- Resolved an issue where the system experienced latency while downloading large number of groups and users from Microsoft Active Directory Server and the system did not match traffic to the access control rule referencing LDAP groups. (CSCut56233)
- Resolved an issue where the system incorrectly handled static routes configured on Series 3 devices with multiple interfaces. (CSCut84953)
- Resolved an issue where the system displayed an internal server error if you viewed the Discovery Statistics page on a Defense Center that did not have any discovery events. (CSCuu00749)
- In some cases, the system does not generate intrusion event performance graphs (**Overview > Summary > Intrusion Event Performance**). (CSCuu15447)
- Resolved an issue where, if you backed up your Defense Center and restored the backup to a different Defense Center, the Defense Center with the restored backup did not allow you to log in. (CSCuu35238)
- Resolved an issue where, if you downloaded LDAP users or an LDAP group to a Defense Center without a FireSIGHT license, the download failed and the system generated a user limit reached error. (CSCuu35615)
- Resolved an issue where the Cisco Redundancy Protocol (SFRP) advertisement interval value appeared to be configurable when you added or edited a routed IP address when it was not. (CSCuu37687)
- Resolved an issue where ASA Firepower modules running the minimum ASA version 9.3.2.2 or later did not enforce the **mpf-policy-map-class** mode. (CSCuu68273)
- Resolved an issue where the system incorrectly disabled your configured static route, virtual router, or virtual router filter if you configured a static or virtual router on a managed device with clustered interfaces. (CSCuu47325)
- Resolved an issue where the system did not generate a list of vendors if you created a product map and selected the **Add Fix Map** option. (CSCuu79373)
- Resolved an issue where, if you deployed an SSL policy with the default actions set to **Decrypt-Resign**, decrypted traffic that egressed from one interface set was switched or routed so it ingress into a different interface set on the same managed device. (CSCuu97712)
- Resolved an issue where the License page incorrectly listed licenses under the wrong devices if you added more than one license to a 3D8250 device and one license to another Series 3 device. (CSCuu99789)
- Resolved an issue where DC2000 and DC4000 BIOS settings could not be configured using **ucsfg** Cisco UCS Configuration Utility commands. (CSCuv03352)
- Resolved an issue where the system did not include data from X-Forward-For, True-Client-IP, and other packet data in generated intrusion events. (CSCuv03727)
- Resolved an issue where, if you applied an intrusion policy to a managed device that was not set to **drop when inline**, the system did not block files with a malware disposition when it should. (CSCuv12647)
- Resolved an issue where troubleshoot generation from the Health Monitor page failed if you enabled both IPv6 IP addresses. (CSCuv27328)
- Resolved an issue where the system incorrectly saved **blacklist** as the priority list when configuring the priority settings of the reputation preprocessor even if you set the configuration to whitelist. (CSCuv52955)
- Improved memory utilization for access control rule memory with port ranges. (CSCuv64114)
- Resolved an issue where, if you modified an attribute setting in a host profile, the system did not retain the host's attribute setting after the host IP address changed. (CSCuv69748)

Resolved Issues

- Improved network map generation. (CSCuv72386)
- Resolved an issue where the system did not include new user accounts not mapped to a host IP address, and grouped access control rules configured to detect user traffic by group failed. (CSCuv78458)
- Resolved an issue where your network analysis policy did not correctly load after a system update. (CSCuw44448)

Issues resolved in Version 5.4.0.4 and Version 5.4.1.3:

- **Security Issue** Addressed a vulnerability issue in Linux, as described in CVE-2011-4131.
- **Security Issue** Resolved an issue where managed devices experienced microengine failure when processing corrupted traffic. (CSCuu86214)
- Resolved an issue where you could not reapply an intrusion policy (individually or as part of an access control policy reapply) a total of 4096 or more times to a single managed device was not supported. (134385/CSCze89030)
- Resolved an issue where, if you imported an intrusion policy referenced by another policy as a shared layer or as a base policy, importing the intrusion policy failed. (144946/CSCze96151)
- Resolved an issue where the system incorrectly listed twice the number of registered targets on the Intrusion Policy list page. (CSCus08840)
- Resolved an issue where you could add old events from the clipboard to a new incident, even though the events in your clipboard section of the Incidents page appeared empty. (CSCus67128)
- Resolved an issue where, if you edited an access control rule with multiple category conditions and attempted to remove one of the conditions, the system only removed the first listed category condition. (CSCut25082)
- Resolved an issue where the system reported intrusion rules as inactive if the rule targeted a passive zone on an 8000 Series device and performed the **show fastpath-rules** CLI command. (CSCut32479)
- Resolved an issue where configuring a file policy with **Inspect Archives** enabled caused Snort to stop passing traffic. (CSCut39253, CSCuu60621)
- Improved troubleshooting. (CSCut43542)
- Improved Disk manager reliability. (CSCut65740)
- Improved correlation rule performance. (CSCut97938)
- Resolved an issue where downgrading RPM packet manager (RPM) files starting with Cisco did not correctly reset the RPM install history. (CSCut98525)
- Resolved an issue where policy apply failed if you reapplied an active access control policy to an ASA FirePOWER module without editing the policy. (CSCuu14839)
- Improved error message warning against use of overlapping port settings in DCE/RPC advanced settings. (CSCuu18577)
- Resolved an issue where connectivity to the AMP cloud may be lost after using the system for an extended period of time. (CSCuu24587)
- Resolved an issue where the system experienced a disruption in traffic if you created a link aggregation group (LAG) on a physical Series 3 device connected to a Cisco Nexus 7000 switch. (CSCuu31626)
- Resolved an issue where, if you changed your system's time zone to a zone east of UTC and added a correlation rule with at least one inactive period to a correlation policy, policy apply failed. (CSCuu37600)
- Resolved an issue where creating a routed interface on your clustered Series 3 device caused connectivity issues. (CSCuu37668)

Resolved Issues

- Resolved an issue where the **Send email** check box on the Report Templates tab of the Reporting page did not stay selected if you generated a report, navigated away from the Report Templates tab, and then generated another report. (CSCuu97750)
- Improved tracking of the number of monitored hosts. (CSCuu77263)
- Resolved an issue where, if you configured your Defense Center to use a static IPv4 address with an IPv6 address enabled and you accessed the Defense Center's interface using the IPv6 address, the Access Control Policy page did not load. (CSCuu83933)
- Resolved an issue where, in rare cases, your system appeared unstable and did not recover from a hard reset. (CSCuu93154)
- Resolved an issue where a drive failure on some DC4000 appliances caused RAID controller failure and data loss. (CSCuu93159)
- Resolved an issue where the Product Licensing dashboard widget did not list any URL Filtering licenses even if URL Filtering licenses were present. (CSCuu97762)
- Improved network mapping performance. (CSCuv48373)

Issues resolved in Version 5.4.0.3 and Version 5.4.1.2:

- **Security Issue** Addressed multiple vulnerabilities in SSLv3 that allowed external attacks on client connections, as described in CVE-2015-0286, CVE-2015-0287, CVE-2015-0289, CVE-2015-0292, and CVE-2015-0293.
- **Security Issue** Addressed a cross-site scripting (XSS) vulnerability, as described in CVE-2015-0707.
- **Security Issue** Addressed multiple vulnerability issues in Linux and other third parties, as described in CVE-2011-2699, CVE-2012-2744, CVE-2012-3400, and CVE-2015-1781.
- **Security Issue** Addressed a vulnerability in HTTP connection handling that allowed users to be redirected to malicious websites, as described in CVE-2015-0706.
- **Security Issue** Resolved an issue where the system can experience a microengine fault based on malformed packet data in traffic inspected by a FirePOWER 7000 or 8000 Series managed device. (CSCuu10871, CSCuu26678)
- When routing is configured on a Series 3 device, the system may forward source-routing IPv4 packets, which direct the packet along a different path than configured on the router and can be used to bypass network security measures. (132121/CSCze88520)
- Resolved an issue where, if you viewed the threat score of some files from generated events, the system incorrectly reported the threat score as a number instead of **Low**, **Medium**, **High**, or **Very High**. (142290/CSCze93722)
- Improved URL filtering. (144198/CSCze94590)
- Resolved an issue where the passive interfaces on 7000 Series devices reported incorrect egress security zones and interfaces. (144624/CSCze95206)
- Resolved an issue where, if you edited the interface security zones from the Object Management page, the stacked device configuration appeared to be up-to-date when it wasn't. (144626/CSCze94847)
- Resolved an issue where, if you enabled remote storage and created a scheduled email alert response on your Defense Center, the scheduled email alert disabled remote storage and remote storage backups failed. (145288/CSCze95993)
- Resolved an issue where access control rules containing web application conditions did not match against traffic if users on your network entered a URL into the address bar that was not lowercase. (CSCur37364)
- Resolved an issue where adding a Defense Center in a high availability configuration to your system caused the secondary Defense Center to overwrite the existing SHA-256 values in the system's file list. (CSCur57708)

Resolved Issues

- Resolved an issue where, if you created a correlation rule to trigger when an intrusion event or connection event occurs and the condition matches an ingress security zone, egress security zone, ingress interfaces, or egress interface as the condition, the system did not recognize the rule and failed to generate events for traffic matching the rule. (CSCur59840)
- Improved multiple dashboard widgets. (CSCus11068)
- Resolved an issue where your system occasionally experienced latency during Snort restart. (CSCus13247)
- Resolved a bug where file names of uuencoded email attachments was not displayed in file events and malware events. (CSCus30831)
- Resolved an issue where some HTTPS traffic inspections resulted in false positives. (CSCus32474)
- Resolved an issue where the system generated an **Internal Server Error** message if the password for your registered ASA FirePOWER device included an unsupported character. (CSCus68604)
- Resolved an issue where the system generated a malware alert on the second attempt to download a suspicious file over HTTP instead of generating an alert on the first attempt to download the file. (CSCus83151)
- Resolved an issue where, if you created a user role in the Custom User Role tab of the User Management page, the system disabled some check-boxes but enabled some options available under the disabled check boxes. (CSCus87248)
- Resolved an issue where, if you attempted to download a file but the download was blocked and the file was downloaded again, the system either did not identify the file type or the system generated incorrect SHA-256 values. (CSCus87799)
- If your system restarts or reloads after a VDB install and the **Inspect Traffic During Policy Apply** option in your firewall policy is unchecked, you may experience loss of network connectivity during the restart process. (CSCut08225)
- Resolved an issue where, if you created an access control rule configured to send events to an external syslog server and the system detected multiple truncated unified files, the device stopped sending connection events to the syslog server. (CSCut14629)
- Improved SFDataCorrelator performance when processing historical email and eStreamer alerts. (CSCut23688)
- Resolved an issue where the FirePOWER fiber ports on the 4-Port 10Gbps non-bypass network modules would not reliably achieve link connectivity with APCON IntellaFlex or IntellaPatch brand devices. (CSCut24654)
- Resolved an issue where the system displayed incorrect file type information on the Network File Trajectory page. (CSCut27978)
- Resolved an issue where enabling the Original Client IP column in the Intrusion Events table view and reviewing one or more rows generated errors. (CSCut41458)
- Resolved issues where the system exposed plain text passwords in syslog messages in the web interface and in log files accessible via the shell. (CSCut80473)
- Resolved an issue where the Retrospective Malware Events table did not include the old disposition or the new disposition fields of a retrospective malware event. (CSCut83512)
- Resolved an issue where, if you restarted your ASA5585-X device with a large number of subinterfaces configured without also restarting the SFR5585-X service card, the SFR5585-X service card appeared to fail. (CSCut89619)
- Resolved an issue where, if you configured a domain name without a DNS entry, the web interface page did not load. (CSCut89714)
- Resolved an issue where, if you removed a malware license from your Defense Center while the Defense Center experienced a disruption in cloud connectivity, the system continuously generated **Cannot connect to cloud** Health Monitor alerts. (CSCut95470)

Resolved Issues

- Resolved an issue where configuring a Windows TGM Proxy caused a disruption in detection preprocessors. (CSCut95588)
- Disabling one of management interfaces from a multiple manager interface configuration no longer disables the communication channel. (CSCut95915)
- Resolved an issue where, if you configured a link aggregated group (LAG) to use link aggregation control protocol (LACP) and the LAG interfaces experienced heavy broadcast traffic, the LAG interfaces entered a forced down state. (CSCuu04209)
- Resolved an issue where you experienced system issues if the cloud continuously checked for a new update. (CSCuu04844)
- The system will generate an alert if you attempt to create two correlation policies with an identical name. (CSCuu14720)
- Resolved an issue where, if you downgrade an ASA5585-X device to an older version, Linux did not downgrade when it should have. (CSCuu14965)
- Resolved an issue where the system displayed the incorrect amount of memory usage on the System Load dashboard widget. (CSCuu19742)
- Improved CPU performance reporting for the Simple Network Management Protocol (SNMP) agent on physical Series 3 devices. (CSCuu31029)
- Improved CPU performance. (CSCuu35011)
- Resolved an issue where, if an ASA5506-X device running ASA platform version 9.3(3) or 9.4(1) experienced issues, the device stopped processing traffic. (CSCuu38535)
- Resolved an issue where excessive memory usage caused the system to restart processes that potentially caused loss of network connectivity. (CSCuu88135)
- Resolved an issue where, if you clicked the Edit icon near the configurable **Relay Host** option while generating a report from the Report page, the web browser redirected to a internal server error web page. (CSCuv01286)

Issues resolved in Version 5.4.1.1 and Version 5.4.0.2:

- **Security Issue** Addressed multiple vulnerabilities in SSLv3 that allowed external attacks on client connections, as described in CVE-2014-3569, CVE-2014-3570, CVE-2014-3572, and CVE-2015-0204.
- **Security Issue** Addressed an arbitrary script injection vulnerability allowing unauthenticated, remote attackers to exploit GNU C library DNS resolution functionality, as described in CVE-2015-0235.
- **Security Issue** Resolved multiple cross-site scripting (XSS) and arbitrary HTML injection vulnerabilities. (CSCus03591, CSCus03762, CSCus04436, CSCus07858, CSCus07875)
- **Security Issue** Resolved a vulnerability in Universal Unique Identifier (UUID) manipulation. (CSCus06097)
- Resolved an issue where, if you edited a local rule on the intrusion rule editor when viewing rule documentation, the system displayed the current local rule configuration for already-generated event data instead of the rule configuration that triggered it. (145118/CSCze95346)
- Resolved an issue where, if you backed up and restored a Defense Center, Security Intelligence objects were not backed up or restored. (CSCur42337, CSCur35624)
- Resolved an issue on Series 3 managed devices where inline connectivity could be lost for up to 25 seconds on bypass-enabled inline sets during device reboot. (CSCur64678)
- Resolved an issue where, in some cases, you were not able to get URL category or URL reputation information. (CSCur38971, CSCus59492)

Resolved Issues

- Resolved an issue where the system did not display the associated hosts if you expanded a vulnerability based on a client application from the vulnerabilities tab of the Network Map. (CSCur86191)
- Resolved an issue where, in some cases, the host did not always display the block page if one of your access control rule actions was set to block or interactive block. (CSCus06868)
- Resolved an issue where the system did not support generating multiple report types when using Windows File Sharing (SMB) due to unsupported characters in the report name. (CSCus21871)
- Resolved an issue where, if you create an SSL policy set to Do Not Decrypt and attempted to establish a session, the system erroneously reported the session was blocked when it was not. (CSCus41127)
- Resolved an issue where, if you placed an access control rule referencing a file policy with a Block Malware rule positioned after an access control rule with a web application condition, the system did not identify malware files. (CSCus64393, CSCus64526)
- Resolved an issue where, if both the management interface and the control interface of your system used the same VLAN and the management interface used an IPv6 address, the management interface was inoperable. (CSCus64678)
- Resolved an issue where, if your system included an SSL Visibility Appliance (SSLVA) or a Cisco SSL Appliance and you created a file policy containing a web application category and a Block Malware rule, your first attempt to download a file over HTTPS failed. Note that this issue is resolved when the SSL appliance is running Version 3.8.4. (CSCus72505)
- Resolved an issue where the system experiences issues if you applied an access control policy referencing a URL Filtering license, Security Intelligence license, and an SSL policy configured for inspection on any of the following devices: the 7000 Series, ASA5506-X, ASA5506H-X, and the ASA5506W-X. (CSCut02823)
- Improved pruning for correlation event tables. (CSCut02984)
- Resolved an issue where, if you created a file policy with Spero analysis and file capture enabled, the system did not capture files detected in incoming traffic. (CSCut06837)
- When an applied access control policy with a rule set has all source IPv4 addresses, the system evaluates traffic with an IPv6 source address as if source addresses were not set in the rules. When an applied access control policy with a rule set has all source IPv6 addresses, the system evaluates traffic with an IPv4 source address as if source addresses were not set in the rules. When an applied access control policy with a rule set has all destination IPv4 addresses, the system evaluates traffic with an IPv6 destination address as if destination addresses were not set in the rules. When an applied access control policy with a rule set has all destination IPv6 addresses, the system evaluates traffic with an IPv4 destination address as if destination addresses were not set in the rules. (CSCut48596)
- Resolved a rare issue where, if a Series 3 device detected traffic targeted for stacked devices, the system experienced issues and could not process traffic. (CSCut53335)

Issues resolved in Version 5.4.1:

- **Security Issue** Addressed multiple vulnerabilities in SSLv3 that allowed external attacks on client connections. The fix addresses CVE-2014-3566.
- **Security Issue** Addressed an arbitrary script injection vulnerability allowing unauthenticated, remote attackers to execute commands via Bash. The fix addresses CVE-2014-6271 and CVE-2014-7169.
- **Security Issue** Resolved an unauthorized vulnerability in Universal Unique Identifier (UUID) manipulation.
- **Security Issue** Resolved cross-site scripting (XSS) vulnerabilities in the host attribute.
- **Security Issue** Resolved an HTML injection vulnerability.
- Improved the speed of reloading Snort configurations during access control policy apply. (112070/CSCze87966, CSCur19687)

Resolved Issues

- Resolved an issue where, if you created an SSL policy with the Session Not Cached option set to **Do Not Decrypt** or **Block** and SSL session reuse enabled, the system displayed uncached session errors in the **SSL Status** column of the Connection Events table view when the session refreshed. (143335/CSCze93608).
- Resolved an issue where the system did not display data for the **Network Analysis Policy** column of the Intrusion Events table view and the Connection Events table view if you registered a device running Version 5.3.X to a Defense Center running Version 5.4. (143349/CSCze94484)
- Resolved an issue where the system failed to recover if you attempted to reboot your clustered Series 3 devices after the devices went to maintenance mode and experienced a power failure. (143504/CSCze94928)
- Updated the *FireSIGHT System User Guide* to reflect that applying an access control policy may cause a short pause in traffic flow and processing. (143514/CSCze94971)
- Access control policies now have logging capabilities for **Log at Beginning and End of Connection**, **Log at End of Connection**, and **No Logging at Connection**. (143507/CSCze94975)
- Resolved an issue where, if the system generated file events, the system incorrectly truncated file event filenames containing colons on several pages of the web interface. (143666/CSCze94954)
- Resolved an issue where, if you disabled an access control rule containing either an intrusion policy or a variable set that was different from any enabled access control rules, policy apply failed and the system experienced issues. (143871/CSCze94114, 144635/CSCze95200)
- Improved diskmanager cleanup during report generation. (143933/CSCze94240, 143934/CSCze94286)
- Resolved an issue where multiple IP addresses were incorrectly displayed for a single host profile. (144259/CSCze94623)
- Resolved an issue where decrypted SSL sessions displayed URLs in connection logs as **http://** instead of **https://**. (144485/CSCze95739)
- Resolved an issue where, if you created a custom network variable named identically to a default variable but with different capitalization, the system incorrectly assumed the custom variable and the default variable were the same and prevented you from deleting the custom variable. (144488/CSCze95591, 144544/CSCze95599)
- Resolved an issue where, if you enabled your Defense Center or managed device's **eth1** for DHCP, the system incorrectly saved the configuration with DHCP enabled for both **eth0** and **eth1**. (144525/CSCze95666)
- Resolved an issue where, if you applied an access control policy with archive file types enabled on a device running a vulnerability database (VDB) older than Version 211, policy apply failed. (144533/CSCze95570)
- Resolved an issue where the system treated DNS traffic as OpenVPN, QQ, and Viber traffic. (144548/CSCze95536)
- Resolved an issue where rule or packet latency thresholding timers could not be disabled. (144555/CSCze95704)
- Resolved an issue where, if you created a link aggregation group (LAG) interface on a NetMod connected to an 8000 Series managed device and then powered down the device, removing the NetMod after powering down caused errors. (144576/CSCze95166)
- Resolved an issue where removing the URL Filtering license from your system caused a disruption in cloud connectivity. (144578/CSCze95183)
- Resolved an issue where, if you used the SFR **system restart** CLI command on the ASA5506-X device while logged in via the ASA session command, the device stopped processes and did not restart them. (144609/CSCze94873)
- Resolved an issue where, if you created an HTML report, the web browser incorrectly displayed the report as binary data. (144667/CSCze95195)

Resolved Issues

- Resolved an issue where importing and exporting Defense Center policies failed. (144806/CSCze95396, 144905/CSCze96093)
- Resolved an issue where defining a large range of ports for source ports or destination ports caused policy apply to fail. (144933/CSCze95305)
- Resolved an issue where the system experienced a FSIC failure during update. (144964/CSCze95780)
- Resolved an issue where, if you attempted to establish a private cloud connection without utilizing the proxy option, the system attempted to connect to the private cloud via proxy even if you unchecked the use proxy option. (144968/CSCze95801)
- Resolved an issue where automatic update failed if you attempted to download updates while managing an X-Series device. (145060/CSCze95372)
- Resolved an issue where the user interface provided the incorrect patch release when you attempted to update your system with the **Download Updates** button. (145174/CSCze95284)
- Resolved an issue where, at altitudes of 2000 feet or higher, the AMP8150 emitted excessive noise due to inlet fans running at 20,000 RPM or faster, despite reported fan speeds as low as 0 RPM. Updating the BMC firmware or applying this update resolves the issue in the firmware, but to resolve temporarily until you can update, use the **ipmi mc reset cold** CLI command to reset the AMP8150 Baseboard Management Controller (BMC). Note that you must reestablish your Serial Over Lan (SOL) session after reset. (CSCus59936)
- Resolved an issue where the Inline Normalization preprocessor incorrectly resized packets when the **Trim Data to Window** option was enabled. (CSCur80901)

Issues resolved in Version 5.4:

- **Security Issue** Addressed multiple vulnerability issues in Linux and other third parties as described in CVE-2013-0343, CVE-2013-2164, CVE-2013-2206, CVE-2013-2232, CVE-2013-2234, CVE-2013-2888, CVE-2013-3552, CVE-2013-4387, CVE-2013-4470, CVE-2013-4786, CVE-2007-6750, CVE-2013-7263, CVE-2013-7265.
- **Security Issue** Addressed multiple injection vulnerabilities, including HTML and command line injections.
- **Security Issue** Addressed multiple cross-site scripting (XSS) vulnerabilities.
- **Security Issue** Addressed multiple cross-site request forgery (CSRF) vulnerabilities.
- **Security Issue** Addressed multiple parameter manipulation and misconfiguration vulnerabilities.
- If you configure an access control rule to **Block**, **Block with reset**, **Interactive block**, **Interface Block with reset**, or **Monitor**, selecting a reputation level also selects all reputations more severe than the selected level. If you configure an access control rule to **Allow** or **Trust**, selecting a reputation level also selects all reputations less severe than the selected level. (111747/CSCze87908)
- The system now prevents you from using IPv6 addresses to configure connections to the User Agent. (124377/CSCze88700)
- Resolved an issue where, in some cases, the system included extraneous data in intrusion event performance graphs. (124934/CSCze87728)
- Improved the functionality of eStreamer performance metrics. (129840/CSCze89231)
- Resolved an issue where large system backups failed if disk space usage exceeded the disk space threshold before pruning. (132501/CSCze88368)
- Resolved an issue where using the RunQuery tool to execute a **SHOW TABLES** command caused the query to fail. (132685/CSCze89153)
- Resolved an issue where, in some cases, performing remote backups of managed devices generated large backup files on your Defense Center. (133040/CSCze89204)

Resolved Issues

- You can now edit the maximum transmission unit (MTU) of a managed device via the Interface tab of the Management Interfaces page (**System > Local > Configuration > Management Interfaces**) on the managed device's web interface. You can no longer edit the MTU of management interfaces of managed devices from the Defense Center. (133802/CSCze89748)
- Resolved an issue where the syslog alert message for events generated by intrusion rules with preprocessor options enabled caused a `Short Alert` message instead of a customized message. (134270/CSCze88831)
- Resolved an issue where remediation failed if you configured an Nmap scan remediation with the **Fast Port Scan** and the **Use Port from Event** options enabled. (134499/CSCze88810)
- Resolved an issue where, if you enabled end-of-connection logging on a system in high availability, the system did not report sessions or reported an incorrect time stamp if the session was terminated prematurely. (134806/CSCze89822)
- Resolved an issue where communication issues between the Defense Center and cloud did not generate a health alert. (134888/CSCze90122)
- Resolved an issue where the system did not resolve host names associated with IPv6 addresses as expected in the dashboard or event views if you enabled **Resolve IP Addresses** from the Event View Settings page. (135182/CSCze90155)
- Custom HTTP response pages now support up to 50,000 plaintext characters. (136295/CSCze90383)
- Resolved an issue where the system displayed an incorrect number of submitted IP addresses in the tooltips on the Security Intelligence tab if you specified a Feed URL previously created on a computer running a Windows operating system. (136557/CSCze89888)
- Resolved an issue where, if you disabled a physical interface on a managed device, the status of the logical interfaces associated with the physical interface remained green on the Interfaces tab of the editor even though they were disabled. (136560/CSCze89894)
- Resolved an issue where the Defense Center displayed different task statuses on the Task Status page, the Access Control Policy page, and the Device Management page of the web interface if you applied an access control policy to multiple devices. (136614/CSCze89936)
- Resolved an issue where a custom intrusion rule with a TCP protocol condition generated events based on UDP traffic instead of TCP traffic. (136843/CSCze89941)
- Resolved an issue where the captured files table was erroneously listed as an option for a custom table base. (136844/CSCze89977)
- Resolved an issue where the system generated false positives for the 145:1, 145:2, 145:3, 145:4, 145:5, and 145:6 DNP3 preprocessor rules. (137145/CSCze90786)
- Resolved an issue where, if you registered a managed device with a hostname containing more than 40 characters, device registration failed. (137235/CSCze90144)
- Resolved an issue where the system did not correctly filter objects in the Object Manager if you included any of the following special characters in the filter criteria: dollar sign (\$), caret (^), asterisk (*), brackets ([]), vertical bar (|), forward slash (/), period (.), and question mark (?). (137493/CSCze90413)
- Resolved an issue where, if you enabled Simple Network Management Protocol (SNMP) polling in your system policy and modified the interface configuration on one of your clustered managed devices, the system generated inaccurate SNMP polling requests. (137546/CSCze90000)
- Resolved an issue where enabling syslog or Simple Network Management Protocol (SNMP) connection logging in an access control rule caused system issues. (137952/CSCze90538)

Resolved Issues

- Resolved an issue where the table view of file events appeared to support viewing the file trajectory by file name even without a calculated SHA256 value. (138155/CSCze90676)
- Resolved an issue where the system did not display UTF-8 characters in the x-axis filenames if you generated a report in HTML or PDF format that included a chart with **File Name** as the x-axis. (138297/CSCze90799)
- Resolved an issue where, in rare cases, revising and reapplying an intrusion policy hundreds of times caused intrusion rule updates and system updates to require over 24 hours to complete. (138333/CSCze90747)
- Resolved an issue where the system generated an error message if you attempted to update the geolocation database (GeoDB) to the version already installed on your Defense Center. (138348/CSCze90813)
- Resolved an issue where connection events logged to an external syslog or Simple Network Management Protocol (SNMP) trap server had incorrect **URL Reputation** values. (138504/CSCze91066)
- Resolved an issue where applying more than one access control policy across your deployment and searching for intrusion or connection events matching a specific access control rule retrieved events generated by unrelated rules in other policies. (138542/CSCze91690)
- Resolved an issue where cutting and pasting access control rules appeared to be supported. (138713/CSCze91012)
- Resolved an issue where, if your Defense Center was running Version 5.3 with eStreamer running Version 5.3, the security intelligence events on your Defense Center incorrectly reversed the values of the destination IP and the source IP. (138740/CSCze91402)
- Resolved an issue where the system did not generate a warning about ignored inline normalization settings if you applied an intrusion policy set to **drop when inline** to a device with passive interfaces. (139177/CSCze91163)
- Resolved an issue where, in rare cases, the Task Status page incorrectly reported a failed system policy apply was successful. (139428/CSCze92142)
- Resolved an issue where the system did not enforce the maximum transmission unit (MTU) setting on Series 2 or virtual devices. (139620/CSCze91705)
- Resolved an issue where, if you configured and saved three or more intrusion policies that referenced each other through their base policies, the system did not update the **Last Modified** dates for the policies on the Intrusion Policy page. (139647/CSCze91353)
- Resolved an issue where, if you configured and saved a report with a time window that included the transition day from observing Daylight Saving Time (DST) to not observing DST, the system adjusted the time window to begin an hour earlier than specified. (139713/CSCze91697)
- Resolved an issue where, if you switched interfaces between the virtual routers on your managed devices, the system did not activate the dormant static route for the switched interfaces. (139929/CSCze91619)
- Resolved an issue where, if you did not register a device to your Defense Center and your Defense Center had no data, viewing the Intrusion Events Graph page (**Overview > Summary > Intrusion Event Graphs**) caused a **WARNING: normalizations disabled because not inline** error. (140117/CSCze92324)
- Resolved an issue where the system did not prevent an externally authenticated user from modifying their password using the FireSIGHT System web interface. (140143/CSCze91938)
- Resolved an issue where custom HTTPS certificates could be imported only once. (140283/CSCze92162)
- Resolved an issue where creating a new task on the Scheduling page (**System > Tools > Scheduling**) caused the system to display an authorization error message. (140575/CSCze92225)
- Resolved an issue where bypass mode appeared as an option for clustered devices even though the option could not be enabled. (140604/CSCze92047)
- Resolved an issue where reports created in bar graph form displayed a maximum of 10 days. (140833/CSCze92405)

Resolved Issues

- Resolved an issue where the **Password Lifetime** column on the User Management page displayed a negative value if a user's password expired. (140839/CSCze92338)
- Resolved an issue where, if you disabled an access control rule referencing an intrusion policy and then reapplied your access control policy, the system incorrectly indicated the appliance's intrusion policy was out of date. (141044/CSCze92012)
- Resolved an issue where you could not delete third-party vulnerabilities. (141103/CSCze92621)
- Resolved an issue where files intentionally not stored by the system incorrectly appeared with a **Failed File Storage** value in the event viewer and dashboard. (141196/CSCze92629)
- Resolved an issue where the system-provided saved search **Public Addresses Only** included the private 172.16.0.0/12 IP address range. (141285/CSCze92654)
- Resolved an issue where, if you updated your Defense Center to Version 5.4, the update wrote over any changes made to the Connection Summary dashboard (**Overview > Dashboards > Connection Summary**). (141363/CSCze92812)
- Resolved an issue where reports did not resolve host names for IP addresses. (141393/CSCze92797)
- Resolved an issue where, if you enabled **HTTP Block Response** in an access control policy and the web server's operating host reached its open connection limit, HTTP Block Response caused sessions to remain open and the web server to time out. (141440/CSCze92753)
- Resolved an issue where excessive saved revisions to the intrusion policy caused system performance issues. (141501/CSCze92792)
- Resolved an issue where the passive interfaces not in security zones on 3D9900 devices did not generate intrusion or connection events. (141663/CSCze93022)
- You can now enable rules from the packet view of a generated event when you select the **Set this rule to generate events in all locally created policies** option from the actions menu. (142058/CSCze93416)
- Resolved an issue where, in rare cases, Series 3 devices experienced delays during device shutdown. (142110/CSCze93561)
- Resolved an issue where, if the Defense Center sent a file to the cloud to perform a dynamic analysis in a sandbox environment and the cloud was not available within 50 minutes, the file's status remained **Sent for Analysis** instead of a timed out status. (142309/CSCze93757)
- Resolved an issue where, if the Defense Center incorrectly assigned an invalid serial header, the Defense Center failed to send events to the eStreamer client. (143201/CSCze93686)
- Resolved an issue where, if you clicked on an application in the Denied Connections by Application dashboard widget, the system did not properly constrain the resulting event view to blocked connections. (143376/CSCze93645)
- Resolved an issue where, if you generated a report in CSV format only, report section queries would ignore the option to inherit the time window. (143403/CSCze94376)
- Resolved an issue where the Modbus preprocessor failed to generate events after the system missed or dropped a packet. (142450/CSCze95921)
- Resolved an issue where, if you created an access control policy that referenced an SSL policy set to decrypt traffic, policy apply failed. (144518/CSCze94864)
- Resolved an issue where, if you created an intrusion policy or network analysis policy and added a shared layer to it, then exported and imported the new policy the system generated a **Back-end failed for import** error and did not import the policy. (144905/CSCze96093)

Known Issues

The following known issues are reported in Version 5.4.0.6 and Version 5.4.1.5:

- In some cases, if you generate an intrusion event performance graph from the Intrusion Event Performance page (**Overview > Summary > Intrusion Event Performance**) and set the range to Last Hour, the system incorrectly generates a blank graph. (145237/CSCze95774)
- In some cases, if you create an intrusion rule set to block Multiprotocol Label Switching (MPLS) traffic and specify either a source IP address or a destination IP address, the system does not block matching traffic. (CSCur46880)
- In some cases, if you register a device to a pair of Defense Centers and apply an access control policy with URL rules and turn on URL cloud query, the managed device cannot successfully request a URL lookup. (CSCus99059)
- In some cases, if you register and manage more than 100 devices on your Defense Center, the access control policy page may take up to several minutes to load. (CSCuu44646)
- In some cases, if you create an access control rule with an interactive block action and view a blocked web page in a Chrome web browser, selecting the **Continue** button to bypass the block page does not work. As a workaround, view a blocked web page using Firefox or Internet Explorer. (CSCuu53237, CSCuv21748)
- In some cases, if you create an LDAP object in the Microsoft Active Directory and add the LDAP object to a user policy, then move the LDAP object, the Defense Center cannot locate the LDAP object. As a workaround, remove the LDAP group containing the LDAP object from the Users Policy page (**Policies > Users**) and **Fetch Groups** from the Defense Center, then add the group and recreate the LDAP object to the user policy. (CSCuu95350)
- In some cases, LDAP connection fails if the username includes an international UTF-8 character. If you experience a failed LDAP connection because of a username containing international UTF-8 characters, contact Support. (CSCuv05876)
- In some cases, if you suppress a rule in an intrusion policy with the Suppression Type set to either **Source** or **Destination** IP address and enter a custom variable, then delete the custom variable and apply, applying the intrusion rule fails and the Defense Center does indicate why policy apply failed. (CSCuv44581)
- In some cases, if you create a scheduled task to download and install a geolocation database (GeoDB) on a Day of Week, the system may not execute the scheduled task when it should. As a workaround, change the day of the scheduled task and save. (CSCuv44836)
- In some cases, if you generate a report template with a custom logo and create a backup file, then backup and restore the Defense Center, the backup file does not save the custom logo in the report template. (CSCuv44883)
- In some cases, if you select network file system (NFS) storage as a remote storage type from the **Storage Type** drop-down menu on the Remote Storage device tab of the Local Configuration page (**System > Local > Configuration**), the system erroneously generates a **Remote device was not mounted** error when the storage device is correctly mounted. (CSCuv50519)
- In some cases, if you create a file policy and enable the HTTP preprocessor, and the system detects a malware file containing a custom **SHA256** value, the system does not block the malware file when it should. (CSCuv59181)
- In some cases, the system does not generate events for rules with the generator ID (GID) of **134** if the rule is configured to alert and latency-based performance settings are enabled in the access control policy. Note that latency-based performance is enabled by default (CSCuv70840)
- In some cases, if you manually configure the time to a future time or date while applying a device configuration and then apply another device configuration with the current time or date to the same appliance, the device does not save the second device configuration when it should. (CSCuw01691)
- External authentication login to the Radius server does not support usernames with capitalized characters. (CSCuw19529)

Known Issues

- If you create an access control rule and set the default action to **Interactive Block**, then edit the interactive block response page on the HTTP Responses tab of the Default Access Control page (**Policies > Access Control**) in Japanese, the Interactive Block page does not generate a **Continue** button to bypass the interactive block page. (CSCuW21450)
- In some cases, if you view **All Events (Not Dropped)** in the Intrusion Events table view page of a 7000 Series or 8000 Series device and sort the table up to six fields including **Review By** and **Count** and then generate a report, report generation fails. As a workaround, exclude the **Review By** or **Count** field values or, if you include both the **Review By** and **Count** fields, include no more than three additional field values when generating a report from the intrusion events page. (CSCuW29993)
- In some cases, the system generates extraneous errors if you merge intrusion policy layers. (CSCuW34380)
- In some cases, Firepower 7000 Series or 8000 Series devices may change the outermost Ether type for IEEE 802.1Q VLAN traffic they inspect from **88a8** to **8100**, which may prevent successful receipt of those frames by endpoints. (CSCuW57916)
- In some cases, if you change the management IP address through the web interface, the system does not update the configured broadcast address of the interface configuration for an ASA FirePOWER module. (CSCuW59460)
- In some cases, if you remove a DNS entry from a management Interface face and save the configuration without replacing or adding another DNS entry, then attempt to login to web interface, the login webpage is blank. If you experience a blank login page and cannot login, contact Support. (CSCuW68408)
- In some cases, registered devices generate extraneous logs and may experience system issues. As a workaround, restart the affected device. (CSCuW84304)
- In some cases, if you edit the time synchronization window on the System Policy page (**System > Local > System Policy**) and configure the **Set My Clock** option to use the Defense Center as the NTP server, the system does not use the Defense Center's local time when it should. (CSCuW92124)
- In some cases, if you view the Traffic by Initiator User widget on the Traffic tab of the Connection Summary page (**Overview > Dashboards > Connection Summary**) in a Firefox web browser running Version 43, the system does not display any data when it should. As a workaround, use an earlier version of Firefox or a different web browser to view the Connection Summary page. (CSCuW99854)
- In some cases, if you create a logical interface that references a link aggregated group (LAG) to a Series 3 device and add, remove, or replace the existing NetMod on the device, the system does not recognize any referenced objects. As a workaround, baseline the affected device and recreate the LAG with the logical interface. (CSCuX03639)
- In some cases, a Defense Center's health monitor generates extraneous Warning (yellow) and Critical (red) health alerts when there are no health alerts. (CSCuX04564)
- Disabling interface **eth0** causes system issues. Cisco does not recommend disabling interface **eth0**. (CSCuX22564, CSCuX35301)
- In some cases, if you edit the assigned device name of a registered device to include a wide character and configure the device interfaces to passive mode, then apply an access control policy, policy apply fails and the web page does not render correctly. As a workaround, rename the device name and exclude any wide characters. (CSCuX23227)
- In some cases, if you baseline a device to Version 5.3 and update to Version 5.4.0 and apply an access control policy configured with inline normalization or if you configure a managed device's available interfaces to passive mode and apply an access control policy configured with inline normalization, the system does not generate a warning when it should. (CSCuX23258)
- In some cases, if you configure a backup LDAP server on the LDAP Connections page (**Policies > Users > LDAP Connections**), the system does not recognize the backup LDAP server and any attempts to **Fetch Groups** will fail if the primary LDAP server is unreachable. As a workaround, make sure the primary LDAP server is active prior to executing **Fetch Groups**. (CSCuX24855)

Known Issues

- In some cases, if you log into the FirePOWER system and delete an **In queue** or a **Report Generation Failed** report from the reports tab of the Reporting page (**Overview > Reporting**) as a user other than the user who created the report, the system does not delete the report when it should. As a workaround, log into the system as the user that created the reports and then delete the reports. (CSCux27304)
- In some cases, if you create a system policy containing an external authentication server with the **Attribute** field set to **string**, policy apply fails and the system generates a **Failed to applied GWL NTP System Policy locally - Can't use string ("1") as a HASH ref while "strict refs" in use** error. As a workaround, save the authentication object page again and re-apply. (CSCux31226)
- In some cases, if you create an access control policy referencing an SSL policy containing a network object with multiple entries on a managed device running Version 5.4.0 or later and you updated the system to Version 6.0, policy apply failed. (CSCux31618)
- In some cases, if you create a security zone that contains an active interface without saving device configuration and apply an access control policy referencing the security zone in some or all of the access control rules, all the rules referencing the security zone are not included in the applied access control rule. As a workaround, recreate the security zone and save device configuration before applying an access control policy that references that security zone. (CSCux38908)
- In some cases, if you enable automatic application bypass (AAB) on your 3D7010 device and generate troubleshoot, AAB activates when it should not. (CSCux46403)
- In some cases, if you edit either a currently applied intrusion policy all applied intrusion policies on a system that previously ran a version earlier than Version 5.4.0 and update the system to Version 5.4.0.6 and Version 5.4.1.5, then update the system to Version 6.0, the intrusion layers become corrupted. As a workaround, prior to updating the system from Version 5.4.0.6 and Version 5.4.1.5 to Version 6.0, download and install the *FireSIGHT System Version 6.0.0 Pre-Installation Package*. (CSCux57697)
- In some cases, if you configure two intrusion policies to share layers and you compare the two policies without editing either policy, the system incorrectly displays differences between the two policies when there should be no changes. (CSCux59094)
- (CSCuy41802)

The following known issues were reported in previous releases:

- In some cases, if a Microsoft Windows update occurs on a client transferring a file, detection of that file fails because the client transmits pieces of the file in separate sessions that the system cannot reassemble to detect the complete file. (112284/CSCze88424)
- The system requires additional time to reboot appliances or ASA FirePOWER modules running Version 5.3 or later due to a database check. If errors are found during the database check, the reboot requires additional time to repair the database. (135564, 136439)
- If you create a new report (**Overview > Reporting > Report Templates**) and attempt to insert a report parameter while viewing the web interface with Internet Explorer 11, no report parameters are added to the report section description. As a workaround, use Internet Explorer 10. (142950/CSCze94011)
- In some cases, your system may generate extraneous health alarms if your RAID controller is placed into power saving mode. (142214/CSCze87267)
- In some cases, if you attempt to use the SFR **system restart** CLI command while logged in via the ASA session command, the device may stop processes and not restart them. This affects all devices except the ASA5506-X. (143135/CSCze94403)
- In some cases, if you create an access control rule set with an interactive block action and enable beginning-of-connection logging or both beginning-of-connection and end-of-connection logging, the system does not log beginning-of-connection events with the reason **User Bypass**. (143357/CSCze93672, 144167/CSCze94675)

Known Issues

- In some cases, if your clustered Series 3 devices go into maintenance mode, then experience a power failure and you attempt to reboot the devices, the system does not recover. Contact Support if your device does not successfully recover from maintenance mode. (143504/CSCze94928)
- In some cases, if you create an access control rule set to allow traffic that references an SSL rule set to **Decrypt-Resign** and an intrusion rule set to drop when inline, the system incorrectly displays the SSL Status as **Unknown** in the intrusion events table view (**Analysis > Intrusion > Events**). (143665/CSCze94947)
- In some cases, your access control policies may appear as out-of-date even when they are not. (14412/CSCze95029)
- In some cases, if you apply an access control policy referencing two intrusion policies to two devices, then edit the first intrusion policy, then reapply the policy to one device and cluster the two devices, the modified intrusion policy is marked out-of-date on the second device. As a workaround, apply a different access control policy with the same intrusion policies to the second device. (144136/CSCze95126)
- In some cases, if you create an access control policy referencing a rule with the HTTP response page set with an Interactive Block action and you attempt to access a URL that generates an HTTP response page, you are unable to access the same web page in additional tabs on the same browser. (144419/CSCze95694)
- In some cases, the system may not display policy-related information for the following columns on the Connection Events table view (**Analysis > Connections > Events**): **Action**, **Reason**, **Access Control Policy**, **Access Control Rule**, and **Network Analysis Policy**. (145142/CSCze95299)
- In some cases, the system does not display any events in the **Total Events**, **Total Events Last Hour**, or **Total Events Last Day** rows of the statistics summary of the Discovery Statistics page (**Overview > Summary > Discovery Statistics**). (145153/CSCze95751)
- In some cases, if you generate an intrusion event performance graph (**Overview > Summary > Intrusion Event Performance**) and select **Last Hour** as the time range, the generated graph is blank instead of including data from the intrusion events table view. (145237/CSCze95774)
- Your device may experience a prolonged wait period when powering on. (145248/CSCze96068)
- In some cases, if you enable a fail-open Cisco Redundancy Protocol (SFRP) set to monitor-only on a ASA 5515 module in a high availability configuration and your device experiences a failover, your module may change from active to standby mode several times when it should not. (145256/CSCze95812)
- If you configure an ASA FirePOWER module running Version 5.0 or later with network address translation (NAT), the system incorrectly processes data channels matching applied access control, intrusion, and network discovery policies. (145274/CSCze96017)
- In some cases, if you make changes on the Advanced Malware Protection Alerts tab of the Alerts page (**Policies > Actions > Alerts**) on a system configured with high availability, the changes may not be synchronized properly between the appliances. (CSCur46711)
- If you do not deactivate a traffic profile before deleting it, the system allows the deleted profile to continuously use resources without generating traffic. (CSCur48345)
- In some cases, if you configure your cluster of routed Series 3 managed devices with Cisco Redundancy Protocol (SFRP) and apply a network address translation (NAT) rule, both the primary and secondary devices of the cluster respond to the address resolution protocol (ARP) detected in matching traffic when only the primary device should respond. As a workaround, designate the SFRP interface on the primary device as the master interface and the SFRP on the secondary device as the backup interface when creating a NAT rule for your clustered devices. (CSCur55568)
- If you create a scheduled task to install a new version of the vulnerability database (VDB) on your Defense Center, the system will not alert you if you already have a recent VDB version installed and the Defense Center switches from active to standby mode every time the task is scheduled. Cisco does not recommend scheduling automatic VDB updates. (CSCur59252)

Known Issues

- If you use an invalid IP address when configuring the DNS preprocessor in an intrusion policy on an 81xx Family device, system functionality may slow down exponentially. To resolve this issue, enter a valid IP address and reapply the intrusion policy. (CSCur59598)
- In some cases, the Device tab of the Device Management page (**Devices > Device Management**) displays **yes** for licenses that may have expired or been removed from the registered device when it should display **no**. (CSCur61884)
- In some cases, if you delete a protection license from the licenses page (**System > Licenses**), the system does not decrement the number of used licenses when it should. As a workaround, disable the license from the Device Management page (**Devices > Device Management**). (CSCur61927)
- You cannot apply an existing intrusion policy that is not referenced in the currently-applied access control policy. (CSCur72904)
- An intrusion detected on the ASA5506-X device may not generate alerts for gzip compressed HTTP traffic or chunked HTTP response data where the decompressed or non-chunked data would match. (CSCur77397)
- In some cases, if your system loses connectivity between the Defense Center and device during policy apply, the Network Discovery page (**Policies > Network Discovery**) displays **apply to devices**. As a workaround, edit the network discovery policy and reapply. (CSCur81583)
- If you create an intrusion policy referencing a network analysis policy that is set to **Ignore Audio/Video Data Channel**, the system generates alerts for session initiation protocol (SIP) audio data when it should not. (CSCur83184)
- If you manually configure the time of the Defense Center or managed device into the past, the Health Monitor page (**Health > Health Monitor**) does not display alerts. (CSCur85894)
- In some cases, if you configure the router interface of your clustered Series 3 managed devices to both a private IP address and a Cisco Redundancy Protocol (SFRP) IP address, the system does not recognize which IP address is the primary address and does not establish an Open Shortest Path First (OSPF) connection. (CSCur86355)
- In some cases, if you create a network analysis policy with the HTTP preprocessor enabled and **Unlimited Decompression** enabled, and an intrusion rule set to alert for data within gzip compressed HTTP traffic, the system may not generate alerts for traffic matching the applied intrusion rule beyond 65535 bytes of decompressed data. (CSCur87659)
- In some cases, if you change the selected time zone in the Time Zone Preference tab on the User Preferences page (**Admin > User Preferences > Time Zone Preference**), the system may not incorporate daylight savings time and may display the wrong time. (CSCur92028)
- In some cases, if you deploy a large database and attempt to create a troubleshoot file on your Defense Center, the system utilizes extraneous memory for the task and generates an **Out of memory!** error. (CSCur97450)
- If BIOS Version 2.0.1b is not running on your DC2000 and DC4000 appliances before updating to Version 5.4.1.1 or later, the update fails. If the update fails due to an earlier BIOS Version running on your Defense Centers, contact Support. (CSCus10407)
- You may encounter false positives on the detection of the Sametime application. (CSCus17165)
- You cannot reset the password for the admin user on the ASA5585-X device. (CSCus17991)
- Running troubleshooting on your system may cause latency. (CSCus19876)
- In some cases, indications of compromise (IOC) cannot be removed or resolved from the IOC table view (**Analysis > Hosts > Indications of Compromise**) if the host associated with the event has been retired. (CSCus24116)
- In some cases, if you have a single trusted certificate authority (CA) group or object referenced in your applied SSL policy, the system does not allow you to remove the group or object from the policy. As a workaround, add a different CA group or object to the policy and remove the trusted CA group or object from the current SSL policy. (CSCus42239)

Known Issues

- If your ASA5506-X device running Version 5.4.1 does not have a URL license installed or if the license is unavailable, the Cloud Services page (**System > Local > Configuration**) erroneously displays a **Last URL filtering update** message with a timestamp. (CSCus51935)
- In some cases, if you create an URL individual object and add the individual object to an URL group object, then modify the group object, the tooltip for the individual object does not reflect the updated value of the group object. (CSCus51943)
- In some cases, if your URL license is unavailable or deleted and you attempt to add a new URL license, the **Enable Automatic Updates** option on the Cloud Services page (**System > Local > Configuration**) is not checked by default when it should. (CSCus53842)
- In some cases, if you install the new intrusion rule update and then restore a backup to your device, the system erroneously generates an **Intrusion Policy is out-of-date** message whether the intrusion policy existed before or after the rule update. (CSCus59479)
- In some cases, if your access control policy includes a source and destination address that contains **::/0**, the connection events table view (**Analysis > Connections > Events**) contains events generated from IPv4 and IPv6 traffic when only IPV6 traffic should be allowed. (CSCus63549)
- If you cannot connect to the Cisco cloud through your authorization proxy but you can connect through direct connection, contact Support. (CSCus83379)
- In some cases, if you apply an access control policy to an ASA5506-X device from a Defense Center, and the policy is associated with multiple intrusion policies where many rules are enabled, policy apply fails. As a workaround, use fewer policies. Each unique combination of an intrusion policy and variable set counts as a policy, and the network access policy associated with the access control policy counts as a policy. (CSCus95519)
- Resolved an issue where, if you created an access control policy containing a file policy with dynamic analysis enabled, the connectivity to the Collective Security Intelligence Cloud needed for dynamic analysis failed if the proxy port was configured to be port 80. (CSCut01361)
- In some cases, if you create an access control policy that references an SSL policy with **Inspect Local Router Traffic** enabled, the system experiences issues. As a workaround, do not enable the **Inspect Local Router Traffic** option. (CSCut12631)
- In some cases, if you edit the admin password for Lights-Out Management (LOM) to include a dollar character (**\$**), the system automatically changes the Cisco Integrated Management Controller (CIMC) password and truncates the password after the **\$** when it should not. As a workaround, log into the CIMC with the truncated password after editing the LOM admin password and modify the CIMC password to the correct length. (CSCut27442)
- The Backup Management tab of the Backup/Restore page (**System > Tools > Backup/Restore**) does not include registered ASA55X5 or ASA55X5-SSP-XX devices as options. (CSCut41338)
- In some cases, if you add an Cisco IOS Null Route instance to your Cisco IOS remediation and enable your password to log into the router, the device does not enable the password and the remediation fails. As a workaround, do not select to enable the password. (CSCus45769)
- If you apply an access control policy referencing Security Intelligence (SI) objects and policy apply fails, reapply you access control policy. If you are still unable to apply policy, contact Support. (CSCus50470)
- In some cases, if you set up a scan instance for a Nmap module, the Remote Operating System Detection may incorrectly identify the version of detected operating system. As a workaround, refer to the Host Script Output for the correct OS. (CSCut23654)
- In some cases, if you update a pair of Defense Center in a high availability configuration, the secondary Defense Center's access control policies may appear up-to-date while the primary Defense Center's access control policies are not. Note that the system should report the correct status for objects and policies referenced by the access control policies. (CSCut63260)

Known Issues

- In some cases, if you create and edit a search for generated events, then cancel the search before the search starts, the system redirects you to the events page related to the search and displays an incorrect search name. (CSCut63265/CSCuu97738)
- In some cases, the network map experiences issues if the last entry in the rna map list is a duplicate. If you experience issue with SFDatacorrelator performance, contact Support. (CSCut65738)
- If you attempt to select all the application filters within the Application Filters page (**Object > Object Management > Application Filters**) by selecting the first available application filter and using the keyboard command shift+click on the last available application filter on a Chrome browser, only the two applications filters you selected are checked. You must select each application individually to include all the available filters. (CSCut86012)
- FirePOWER services are unavailable during the update process if you update the following Cisco ASA with FirePOWER Services from Version 5.4.1 to Version 5.4.1.1: ASA5506-X, ASA506H-X, ASA5506W-X, ASA5508-X, ASA5516-X. FirePOWER services are available after updating your devices. As a workaround, use the **tail -f /var/log/sf/Cisco_network_sensor_Patch-5.4.1.1_main_upgrade_script.log** command via SSH to observe the update process and restart the Adaptive Security Device Manager (ASDM) on your ASA module after the update completes. (CSCut89599)
- In some cases, if the sensing interfaces configured for inline deployment are down while the system restarts, Snort continuously restarts. (CSCut93464)
- In some cases, your 3D8xx device may experience an error and lose control and info channels. (CSCut98395)
- If you break a cluster of devices containing a NAT policy with the **Remove the interface configurations on <device name>** option selected, then policy apply on the secondary device fails after breaking the cluster. As a workaround, de-select **Remove the interface configurations on <device name>** when separating the clustered devices. (CSCut98774)
- If you attempt to update your device and experience system issues after updating, such as not being able to access your device, contact Support. (CSCuu01055)
- If you use the **system support run-rule-profiling** CLI command and a stack trace occurs, reapply the access control policy. (CSCuu02211)
- In some cases, if you disable an access control rule referencing an intrusion policy, the Access Control page (**Policies > Access Control**) incorrectly displays the intrusion policy as out-of-date after the access control policy is successfully re-applied. The Intrusion Policy page (**Policies > Intrusion > Intrusion Policy**) will display the correct policy status. (CSCuu15483)
- The File Trajectory page (**Analysis > Files > Network File Trajectory**) displays the first and last host icons of a host with an indication of compromise as a blue icon instead of a red icon. (CSCuu17950)
- In some cases, if you register a ASA FirePOWER module to your Defense Center and reboot the ASA FirePOWER module, the data channel connection between the Defense Center and the VMware tool on the virtual ASA device experiences a disruption in connectivity. As a workaround, re-register your ASA device. (CSCuu18450)
- In some cases, if you create a file policy and a NAT policy and enable TCP stream preprocessor rules with a HTTP port number that is not an available port from the network access policy's HTTP preprocessor configuration page, the system does not detect malware in traffic that matches the file policy's configured action and downloads malware content when it should not. (CSCuu24472)
- The asterisk (*) character is a supported character in the **system file secure-copy** CLI command. (CSCuu25329)
- If you generate a new internal CA certificate on the Object Management page (**Objects > Object Management > PKI**), the generated certificate is only valid for 30 days when it should be valid for ten years. (CSCuv29004)
- The send email check box on the Report Templates tab of the Reporting page (**Overview > Reporting**) does not stay selected if you generate a report and then navigate away from the Report Templates tab. (CSCuu41580, CSCuv43116)

Known Issues

- In some cases, if you create an access control policy containing a geolocation condition, traffic that should match the condition fails to match. (CSCuu48800)
- In some cases, if you register a device to your Defense Center and then update the device, using the **configure manager <IP address> add** CLI command disables the Defense Center from managing the device. As a workaround, waiting for the device to automatically register to the Defense Center after updating. (CSCuu44265)
- In some cases, if you use the **system file copy** CLI command on a device, you may be unable to exit the CLI prompt. As a workaround, use **ctr+c** to exit the command back to the prompt. (CSCuu48793)
- In some cases, if your system accumulates large quantities of traffic for an extended period of time, you may experience latency and you may experience a disruption in traffic. (CSCuu52545)
- In some cases, if you create an access control policy referencing a network analysis policy and disable the Modbus Preprocessor, then enable all the Modbus rules in the Modbus preprocessor listed on the Rule Editor page (**Policies > Intrusion > Rule Editor**), the system does not automatically enable the Modbus preprocessor when it should. (CSCuu66121)
- In some cases, if you baseline a managed device to Version 5.4.x with the latest vulnerability database (VDB) and apply a network discovery policy, then browse with Internet Explorer version 11, the Host Profile pop-window of any event and the Connection Events page (**Analysis > Connections > Events**) incorrectly reports the event with Internet Explorer 7. (CSCuu67292)
- In some cases, the system truncates user names or group names that contain 36 characters or more and are assigned to an access control policy even though documentation states 36 or more characters is supported. (CSCuu70235)
- If you configure a host input host using a MAC address, the system does not correctly store the MAC address and does not generate the MAC Address field in the Discovery Events page (**Analysis > Hosts > Discovery Events**). (CSCuu90757)
- If you have multiple devices registered to your Defense Center, the connection attempts to MySQL may fail. (CSCuu94784)
- In some cases, the system does not display the correct number of bytes in the Top Web Applications Seen and Top Client Applications Seen widgets on the Summary Dashboard (**Overview > Dashboard > Summary Dashboard**) when your web browser is being used for high-volume media, such as video streaming. (CSCuu97036)
- In some cases, if you create an access control rule set with an interactive block action, view a blocked webpage and select the **Continue** button to bypass the block, the system may redirect the page from and http:// address to an https:// address and the webpage does not reload. (CSCuu97946)
- In some cases, if you create a virtual router filter, the system incorrectly saves the virtual router OSPF Path Type as **Ext-2** instead of **Ext-1**. (CSCuv08158)
- In some cases, if you configure a system policy to use remote NTP server to synchronize time to a system with a registered ASA 5500-X device or a Series 3 device running a version older than Version 5.4 and you experience a leap second, your system may use a high amount of CPU. (CSCuv11738)
- In some cases, if you add a cluster and edit the interfaces, you are unable to edit the secondary interface and the system generates an **Unable to load container** error. (CSCuv25142)
- The **show user** CLI command is not supported on ASA FirePOWER modules. As a workaround, look for the username in the **/etc/shadow** file using expert shell. (CSCuv45343)
- In some cases, if you create an access control rule configured with all countries selected as the destination or source country, the system does not match IPv6 traffic. As a workaround, create an access control rule configured with a single country selected as the destination or source country. (CSCuv93913)

For Assistance

- If you click the name of a file that contains extended characters in the table view for the Captured File Summary workflow (**Analysis > Files > Captured Files**), an internal server error occurs. (CSCuv40941)
- In some cases, the SFDatacorrelator experiences issue and does not correctly handle Snort messages. (CSCuw34423)
- In some cases, if you attempt to delete a security zone from the Security Zones page (**Objects > Object Management > Security Zones**) that is referenced in the applied access control policy of an ASA5500-X Series device, the system does not save the changes and the security zone is not deleted. As a workaround, remove the security zone from the access control policy, then delete the security zone from the Security Zones page. (CSCuv40232)
- If you open the Discovery Statistics page (**Overview > Summary > Discovery Statistics**) on a Defense Center that does not have any discovery events, an internal server error occurs. (CSCuv42327)
- In some cases, your login session on a Defense Center during a system update expires before the update process completes and your system does not successfully update. As a workaround, either click on different tabs in the web interfaces or create a scheduled task to download updates at an hourly interval to avoid session timeout. (CSCuw26878, CSCux04478)
- In some cases, if you create an access control rule set with **Interactive Block** action, the system blocks only websites that end in **.com**. (CSCuw92220)
- If the Defense Center runs out of disk space but resolves the issue on its own, the system may still fail to store and display new event information and generate **All shard connections are busy for partition** errors in the Syslog page (**System > Monitoring > Syslog**). As a workaround, reboot the system. If the system continues to experience issues, contact Support. (CSCux00142)
- In some cases, if you add a security zone to an access control policy and apply, the system does not correctly process traffic. If you add security zones to your applied access control policy and suspect your traffic is being incorrectly processed or blocked, disable the security zones in your access control policy. (CSCux05653)
- Updating the system with managed devices running Version 5.4.0.5 or earlier to Version 6.0 may cause traffic outages and system issues. Prior to updating to Version 6.0, you must update managed devices to Version 5.4.0.6 or later prior to updating to Version 6.0. (CSCuy14563)

For Assistance

Thank you for choosing the FireSIGHT System.

Cisco Support

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information about Cisco ASA devices, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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
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