



# Release Notes for AsyncOS 14.0 for Cisco Web Security Appliances

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## About Web Security Appliance

The Cisco Web Security Appliance intercepts and monitors Internet traffic and applies policies to help keep your internal network secure from malware, sensitive data loss, productivity loss, and other Internet-based threats.

## What's New

- [What's New In AsyncOS 14.0.5-007 MD \(Maintenance Deployment\)](#), on page 1
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- [What's New In AsyncOS 14.0.3-014 MD \(Maintenance Deployment\)](#), on page 1
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### What's New In AsyncOS 14.0.5-007 MD (Maintenance Deployment)

This release contains a number of bug fixes; see the [Lists of Known and Fixed Issues in Release 14.0.5-007](#), on page 22 for additional information.

### What's New In AsyncOS 14.0.4-005 MD (Maintenance Deployment)

This release contains a number of bug fixes; see the [Lists of Known and Fixed Issues in Release 14.0.4-005](#), on page 22 for additional information.

### What's New In AsyncOS 14.0.3-014 MD (Maintenance Deployment)

This release contains a number of bug fixes; see the [Lists of Known and Fixed Issues in Release 14.0.3-014](#), on page 23 and [Changes in Behavior in AsyncOS 14.0.3-014 MD \(Maintenance Deployment\)](#), on page 8 for additional information.

### What's New In AsyncOS 14.0.2-012 MD (Maintenance Deployment)

This release contains a number of bug fixes; see the [Lists of Known and Fixed Issues in Release 14.0.2-012, on page 23](#) and [Changes in Behavior in AsyncOS 14.0.2-012 MD \(Maintenance Deployment\), on page 8](#) for additional information.

### What's New In AsyncOS 14.0.1-053 GD (General Deployment)

This release contains a number of bug fixes; see the [Lists of Known and Fixed Issues in Release 14.0.1-053, on page 23](#) for additional information

### What's New In AsyncOS 14.0.1-040 LD (Limited Deployment)–Refresh

This release contains a number of bug fixes; see the [Lists of Known and Fixed Issues in Release 14.0.1-040, on page 23](#) and [Changes in Behavior in AsyncOS 14.0.1-040 LD \(Limited Deployment\)–Refresh, on page 9](#) for additional information.

The following features are introduced for this release:

Feature	Description
Smart Software Licensing Enhancements	<ul style="list-style-type: none"> <li>• When you enable smart software licensing and register your Web Security Appliance with the Cisco Smart Software Manager, the Cisco Cloud Services (<b>Network &gt; Cloud Service Settings</b>) automatically enables and registers your Web Security Appliance through the Cisco Cloud Services portal.</li> <li>• You can view the details of the smart account created in the Cisco Smart Software Manager portal using the <b>smartaccountinfo</b> command in the CLI.</li> <li>• If the Cisco Cloud Services certificate is expired, you can now download a new certificate from the Cisco Talos Intelligence Services portal using the <b>cloudserviceconfig &gt; fetchcertificate</b> sub command in the CLI.</li> </ul> <p>If the Cisco Cloud Services certificate has expired or is about to expire, the Cisco Cloud Service auto renews the certificate after the upgrade to AsyncOS 14.0.1-040. If auto-renewal fails, you can use the <b>fetchcertificate</b> sub command to renew the certificate manually.</p> <p><b>Note</b> This command is supported only in the smart licensing mode.</p> <ul style="list-style-type: none"> <li>• You can auto register the Web Security Appliance with the Cisco Cloud Service portal using the <b>cloudserviceconfig &gt; autoregister</b> sub command in the CLI.</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• This command is available only when the auto registration to cloud service portal has failed.</li> <li>• You cannot auto register Cisco Cloud Services when smart license is in evaluation mode.</li> </ul> <ul style="list-style-type: none"> <li>• You can load the certificate for virtual appliance and hardware appliances using the <b>updateconfig &gt; clientcertificate</b> sub command in the CLI.</li> </ul> <p><b>Note</b> You cannot disable or deregister Cisco Cloud Service if smart licensing is registered on your appliance.</p> <p>See “Smart Software Licensing” section and “Integrating with Cisco SecureX and Cisco Threat Response” chapter in the user guide.</p>
New URL Categories Update notification	<p>A new URL Categories Update notification is introduced in the banner.</p> <p>An email notification is also sent to the users about the upcoming URL category updates.</p>

## What's New In AsyncOS 14.0.1-014 LD (Limited Deployment)

This release contains a number of bug fixes; see the [What's New In AsyncOS 14.0.1-014 LD \(Limited Deployment\)](#), on page 4 and [Changes in Behavior in AsyncOS 14.0.1-014 LD \(Limited Deployment\)](#), on page 9 for additional information.

Feature	Description
Cisco SecureX Integration	<p>Cisco Web Security appliance now supports integration with Cisco SecureX. Cisco SecureX is a security platform embedded with every Cisco security product. The integration of the Web Security appliance with Cisco SecureX delivers measurable insights, desirable outcomes, and unparalleled cross-team collaboration.</p> <p>Cisco SecureX unifies visibility of security infrastructure, enables automation, accelerates incident response workflows, and improves threat detection. The distributed capabilities of Cisco SecureX are available in the form of applications (apps) and tools in the Cisco SecureX Ribbon.</p> <p>See “Integrating with Cisco SecureX and Cisco Threat Response” chapter in the user guide.</p>
Header Rewrite	<p>You can configure custom header profiles for HTTP requests and can create multiple headers under a header rewrite profile. The header rewrite profile feature enables the appliance to pass the user and group information to another upstream device after successful authentication. The upstream proxy considers the user as authenticated, bypasses further authentication, and provides access to the user based on the defined access policies.</p> <p>See “Intercepting Web Requests” chapter in the user guide.</p>
X- Authentication Header Consumption	<p>You can now configure the Header Based Authentication scheme for an active directory. The client and the Web Security Appliance consider the user as authenticated and does not prompt again for authentication or user credentials. The X-Authenticated feature works when the Web Security Appliance acts as an upstream device.</p> <p>See “Configuring Global Authentication Settings” and “Classifying Users and Client Software” sections in the user guide.</p>

Feature	Description
System Status Dashboard in the New Web Interface	<p>The System Status Dashboard of the appliance has been enhanced:</p> <ul style="list-style-type: none"> <li>• Capacity Tab—A new tab is added to the existing System Status Dashboard that provides details on Time Range, System CPU and Memory Usage, Bandwidth and RPS, CPU Usage by Function, and Client or Server Connections.</li> <li>• The Proxy Traffic Characteristics under the Status tab provides client and server connections details.</li> <li>• The Service Response Time now includes more details on bar charts and also legend data for previous dates.</li> </ul> <p>See “System Status Page on the New Web Interface” section in the user guide.</p>
REST API for Configuring Management Policies, Access Policies, and Bypass Policies	<p>You can now retrieve configuration information, and perform changes (such as modify existing information, add a new information, or delete an entry) in the configuration data of the appliance using REST APIs.</p> <p>See the “<i>AsyncOS API 14.0 for Cisco Web Security Appliances - Getting Started Guide.</i>”</p>

Feature	Description
<p>Support for HTTP 2.0</p>	<p>Cisco AsyncOS 14.0 version supports HTTP 2.0 for web request and response over TLS. HTTP 2.0 support requires TLS ALPN based negotiation which is available only from TLS 1.2 version onwards.</p> <p>In this release, the HTTPS 2.0 is not supported for the following features:</p> <ul style="list-style-type: none"> <li>• Web Traffic Tap</li> <li>• External DLP</li> <li>• Overall Bandwidth and Application Bandwidth</li> </ul> <p>A new CLI command <code>&lt;HTTP2&gt;</code> is introduced to enable or disable HTTP 2.0 configurations.</p> <p>You cannot enable or disable HTTP 2.0 and restrict domain for HTTP 2.0 through the appliance's web user interface. The configuration of HTTP 2.0 is not supported through Cisco Secure Email and Web Manager (Cisco Content Security Management Appliances).</p> <p><b>Note</b> By default, the HTTP 2.0 feature is disabled. To enable this feature, use the <code>&lt;HTTP2&gt;</code> command.</p> <p>Cisco AsyncOS 14.0 version does not support the following HTTP 2.0 features:</p> <ul style="list-style-type: none"> <li>• Binary Framing: Push Promise and Prioritization</li> <li>• Plaintext HTTP2.0 (H2C)</li> <li>• NPN Based Negotiation</li> <li>• Session and persistent cookies for HTTPS</li> </ul> <p>The HTTP 2.0 feature supports:</p> <ul style="list-style-type: none"> <li>• A maximum of 4096 concurrent sessions and 128 concurrent streams.</li> <li>• All HTTP protocol in ALPN and a maximum of seven protocols in advertised ALPN.</li> <li>• A maximum header size of 16k.</li> </ul> <p><b>Note</b> CONNECT for explicit proxy in 2.0 also starts with HTTP1.1</p>
<p><i>Enhancements</i></p>	

Feature	Description
Command Line Interface Enhancement	<p>A new warning message is added to the command line interface. The CLI displays the new warning message when you try to use the default certificate of any of the following features:</p> <ul style="list-style-type: none"> <li>• Appliance certificate (In the web user interface, navigate to <b>Network &gt; Certificate Management &gt; Appliance Certificate</b>)</li> <li>• Credential Encryption certificate (In the web user interface, navigate to <b>Network &gt; Authentication &gt; Edit Settings &gt; Advanced section</b>)</li> <li>• HTTPS Management UI certificate (In the command line interface, use <b>certconfig &gt; SETUP</b>)</li> </ul>
OCSP Validation for Server Certificates	<p>A new subcommand <b>OCSPVALIDATION_FOR_SERVER_CERT</b> is added under the <b>certconfig</b>. Using the new subcommand you can enable the OCSP validation for LDAP and Updater server certificates. If the certificate validation is enabled, you will receive an alert if the certificates involved in communication are revoked.</p> <p><b>Note</b> Secure LDAP does not support OCSP validation during proxy authentication. OCSP validation is supported only when you manually test authentication settings while adding an authentication realm (<b>Network &gt; Authentication</b>).</p>



**Note** The AsyncOS 14.0 for Cisco Web Security Appliance supports TLSv1.3 session resumption in client and server.

The validity periods of the following certificates are modified:



**Note** This is applicable only when the certificates are generated through the appliance and not when you upload the certificates.

Certificates	Minimum Validity		Maximum Validity	
	Previous	New	Previous	New
HTTPS	1 month	24 months	120 months	60 months
SAAS	1 month	1 month	120 months	48 months
ISE	1 month	24 months	120 months	60 months

Appliance Certificates	1 day	730 days	1825 days	1825 days
Demo/Management Certificate	Validity period is 5 years			

## Changes in Behavior

- [Changes in Behavior in AsyncOS 14.0.3-014 MD \(Maintenance Deployment\), on page 8](#)
- [Changes in Behavior in AsyncOS 14.0.2-012 MD \(Maintenance Deployment\), on page 8](#)
- [Changes in Behavior in AsyncOS 14.0.1-040 LD \(Limited Deployment\)–Refresh, on page 9](#)
- [Changes in Behavior in AsyncOS 14.0.1-014 LD \(Limited Deployment\), on page 9](#)

### Changes in Behavior in AsyncOS 14.0.3-014 MD (Maintenance Deployment)

networktuning	<p>After an upgrade to Cisco AsyncOS 14.0, you will receive a prompt to restart the proxy process when you execute the <i>networktuning</i> command for the first time.</p> <p><b>Note</b> For AsyncOS version earlier than 14.0, this prompt to restart the proxy process is not available.</p> <p>If the command was executed in any of the previous version before an upgrade, the prompt will not be triggered.</p>
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### Changes in Behavior in AsyncOS 14.0.2-012 MD (Maintenance Deployment)

SSL Configuration	Beginning Cisco AsyncOS 14.0.2 version, TLSv1.2 is enabled by default for <b>Appliance Management Web User Interface</b> under <b>System Administrator &gt; SSL Configuration</b> to support chrome browser version 98.0.4758.80 or later.
Session resumption	After an upgrade to Cisco AsyncOS 14.0.2 version, session resumption will be disabled by default.
Context Directory Agent (CDA)	Beginning Cisco AsyncOS 14.0.2 version, the following message is added to indicate the end of support for CDA in the CDA configuration section:  <i>"Context Directory Agent (CDA) has reached EOS. It is recommended configuring ISE/ISE-PIC for transparent user authentication instead of CDA."</i>
Interface selection for Smart License Registration	<p>You can now choose between Data or Management interface from the <b>Test Interface</b> drop-down list.</p> <p><b>Note</b> Ensure both the Data and Management interface are configured.</p>



**Changes in Behavior in AsyncOS 14.0.1-040 LD (Limited Deployment)–Refresh**

Smart Software Licensing Enhancements	<p>If you have already registered your appliances to Cisco Smart Software Manager, and have not configured Cisco Cloud Services, then Cisco Cloud Services is automatically enabled after you upgrade to AsyncOS 14.0.1-040. By default, the region is registered as Americas, and you can modify the region (Europe and APJC) as required.</p> <p><b>Note</b> If the Cisco Cloud Services are already configured, before registering the appliance to Cisco Smart Software Manager, then there will be no change in the Cloud Service Settings.</p> <p>You cannot disable or deregister Cisco Cloud Service if smart licensing is registered on your appliance.</p>
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**Changes in Behavior in AsyncOS 14.0.1-014 LD (Limited Deployment)**

Log Subscriptions	<p>The command line interface and the web user interface of the appliance now displays the following message when an upgrade fails due to invalid log name and file name in the log subscriptions,</p> <p><b>‘Failed to upgrade (Reason: Invalid log subscription file names/log names).’</b></p> <p>The details related to the invalid file names or log names are also displayed.</p>
Support for configuring polling functionality between the appliance and the authentication server.	<p>A new CLI command <b>gathererdconfig</b> is added to configure the polling functionality between the appliance and the authentication server.</p> <p>Using <b>gathererdconfig</b> CLI command, you can enable and disable the gathererd polling functionality between the appliance and the authentication server. By default the polling interval is set to 24 hours.</p> <p>The CLI command is applicable only when the appliance is managed by Cisco Secure Email and Web Manager (Cisco Content Security Management Appliances).</p>
Smart Licensing Registration	<p>You can now choose between Management and Data Interface, while configuring smart licensing feature on the appliance.</p> <p>A new drop-down list <b>Test Interface (System Administration &gt; Smart Software Licensing)</b> is added with two interface options; <b>Data</b> and <b>Management</b>.</p> <p>This is applicable only when you enable split routing and register for smart licensing.</p> <p><b>Note</b> If split routing is not enabled, only <b>Management</b> interface option is available in the <b>Test Interface</b> drop-down list.</p>

Start Test Criteria for LDAP Authentication	After you upgrade to this release, you cannot perform the <b>Start Test</b> for LDAP authentication if the Base DN (Base Distinguished Name) field ( <b>Network &gt; Authentication &gt; Add Realm</b> ) is empty.
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## Access the New Web Interface

The new web interface provides a new look for monitoring reports and tracking web services. To access the new web interface, do the following:

- Log in to the legacy web interface.
- Click **SecureWeb Appliance is getting a new look. Try it!!** that appears on the top of the UI.

This link opens a new tab in your web browser and directs you to

`https://wsa01-enterprise.com:<trailblazer-https-port>/ng-login`, where `wsa01-enterprise.com` is the appliance host name and `<trailblazer-https-port>` is the trailblazer HTTPS port configured on the appliance for accessing the new web interface.

### Important!

- You must log in to the legacy web interface of the appliance.
- Ensure that your DNS server can resolve the hostname of the appliance that you specified.
- By default, the new web interface needs TCP ports 6080, 6443, and 4431 to be operational. Ensure that these ports are not blocked by the enterprise firewall.
- The default port for accessing new web interface is 4431. This can be customized using the **trailblazerconfig** command. For more information about the **trailblazerconfig** command, see [Command Line Interface](#).
- The new web interface also needs AsyncOS API (monitoring) ports for HTTP and HTTPS. By default, these ports are 6080 and 6443. The AsyncOS API (monitoring) ports can also be customized using the **interfaceconfig** command. For more information about the **interfaceconfig** command, see [Command Line Interface](#).
- If you change these default ports, ensure that the customized ports for the new web interface are not blocked by the enterprise firewall.
- The new web interface opens in a new browser window, and you must log in again to access it. If you want to log out of the appliance completely, you need to log out of both the new and legacy web interfaces of your appliance.
- For seamless navigation and rendering of HTML pages, Cisco recommends using the following browsers to access the new web interface of the appliance (AsyncOS 11.8 and later):
  - Google Chrome
  - Mozilla Firefox
- You can access the legacy web interface of the appliance with any of the supported browsers.
- The supported resolution for the new web interface of the appliance (AsyncOS 11.8 and later) is between 1280x800 and 1680x1050. The best viewed resolution is 1440 x 900, for all the browsers.



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**Note** Cisco does not recommend viewing the new web interface of the appliance on higher resolutions.

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## Release Classification

Each release is identified by the release type (ED - Early Deployment, GD - General Deployment, etc.) For an explanation of these terms, see <http://www.cisco.com/c/dam/en/us/products/collateral/security/web-security-appliance/content-security-release-terminology.pdf>.

## Supported Hardware for This Release

The build is available for upgrade on all the existing supported platforms, whereas the enhanced performance support is available only for the following hardware models:

- Sx90
- Sx95/F models



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**Note** The Sx80 models are not supported from AsyncOS version 14.0 onwards.

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Virtual Models:

- S100v
- S300v
- S600v

## Upgrade Paths

- [Upgrading to AsyncOS 14.0.5-007, on page 11](#)
- [Upgrading to AsyncOS 14.0.4-005, on page 12](#)
- [Upgrading to AsyncOS 14.0.3-014, on page 13](#)
- [Upgrading to AsyncOS 14.0.2-012, on page 14](#)
- [Upgrading to AsyncOS 14.0.1-053, on page 15](#)
- [Upgrading to AsyncOS 14.0.1-040, on page 15](#)
- [Upgrading to AsyncOS 14.0.1-014, on page 16](#)

### Upgrading to AsyncOS 14.0.5-007

You can upgrade to release 14.0.5-007 of AsyncOS for Cisco Web Security Appliance from the following versions:




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**Note** While upgrading, do not connect any devices (keyboard, mouse, management devices (Raritan) etc.) to the USB ports of the appliance.

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- 11.8.0-453
- 11.8.1-702
- 11.8.2-009
- 11.8.2-702
- 11.8.3-021
- 11.8.4-004
- 12.0.1-334
- 12.0.2-004
- 12.0.3-503
- 12.5.1-011
- 12.5.1-035
- 12.5.1-043
- 12.5.2-011
- 12.5.3-002
- 12.5.3-006
- 12.5.4-005
- 12.5.4-011
- 12.5.5-004
- 12.5.5-005
- 12.5.5-008
- 12.5.5-501
- 12.5.6-008
- 12.7.0-033
- 14.0.0-467
- 14.0.1-014
- 14.0.1-040
- 14.0.1-053
- 14.0.2-012
- 14.0.3-007
- 14.0.3-014
- 14.0.4-005

## Upgrading to AsyncOS 14.0.4-005

You can upgrade to release 14.0.4-005 of AsyncOS for Cisco Web Security Appliance from the following versions:




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**Note** While upgrading, do not connect any devices (keyboard, mouse, management devices (Raritan) etc.) to the USB ports of the appliance.

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- 11.8.0-453
- 11.8.1-023
- 11.8.1-028
- 11.8.1-511
- 11.8.1-604
- 11.8.1-702
- 11.8.2-009
- 11.8.2-702
- 11.8.3-021
- 11.8.3-501
- 11.8.4-004
- 12.0.1-334
- 12.0.2-004
- 12.0.2-012
- 12.0.3-005
- 12.0.3-007
- 12.0.4-002
- 12.0.5-011
- 12.5.1-011
- 12.5.1-035
- 12.5.1-043
- 12.5.2-007
- 12.5.2-011
- 12.5.3-002
- 12.5.4-005
- 12.5.5-005
- 12.5.5-008
- 14.0.1-014
- 14.0.1-040
- 14.0.1-053
- 14.0.1-503
- 14.0.2-012
- 14.0.3-014
- 14.0.3-502

### Upgrading to AsyncOS 14.0.3-014

You can upgrade to release 14.0.3-014 of AsyncOS for Cisco Web Security Appliance from the following versions:




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**Note** While upgrading, do not connect any devices (keyboard, mouse, management devices (Raritan) etc.) to the USB ports of the appliance.

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- 11.7.3-025
- 11.8.0-453
- 11.8.1-023
- 11.8.1-028
- 11.8.1-511
- 11.8.1-604
- 11.8.1-702
- 11.8.2-009
- 11.8.2-702
- 11.8.3-021
- 11.8.3-501
- 11.8.4-004
- 12.0.1-268
- 12.0.1-334
- 12.0.2-004
- 12.0.2-012
- 12.0.3-005
- 12.0.3-007
- 12.0.4-002
- 12.0.5-011
- 12.5.1-011
- 12.5.1-035
- 12.5.1-043
- 12.5.2-007
- 12.5.2-011
- 12.5.3-002
- 12.5.4-005
- 14.0.0-467
- 14.0.1-014
- 14.0.1-040
- 14.0.1-053
- 14.0.1-503
- 14.0.2-012

### Upgrading to AsyncOS 14.0.2-012

You can upgrade to release 14.0.1-012 of AsyncOS for Cisco Web Security Appliance from the following versions:




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**Note** While upgrading, do not connect any devices (keyboard, mouse, management devices (Raritan) etc.) to the USB ports of the appliance.

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- 11.7.3-025
- 11.8.0-453
- 11.8.1-023
- 11.8.1-028
- 11.8.1-511
- 11.8.1-604
- 11.8.1-702
- 11.8.2-009
- 11.8.2-702
- 11.8.3-021
- 11.8.3-501
- 11.8.4-004
- 12.0.1-268
- 12.0.1-334
- 12.0.2-004
- 12.0.2-012
- 12.0.3-005
- 12.0.3-007
- 12.0.4-002
- 12.5.1-011
- 12.5.1-035
- 12.5.1-043
- 12.5.2-007
- 12.5.3-002
- 14.0.0-467
- 14.0.1-014
- 14.0.1-040
- 14.0.1-053

## Upgrading to AsyncOS 14.0.1-053

You can upgrade to release 14.0.1-053 of AsyncOS for Cisco Web Security appliances from the following versions:




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**Note** While upgrading, do not connect any devices (keyboard, mouse, management devices (Raritan) etc.) to the USB ports of the appliance.

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- |              |              |              |              |
|--------------|--------------|--------------|--------------|
| • 11.7.3-025 | • 11.8.0-453 | • 12.0.1-268 | • 12.5.1-011 |
|              | • 11.8.1-023 | • 12.0.1-334 | • 12.5.1-035 |
|              | • 11.8.1-028 | • 12.0.2-004 | • 12.5.1-043 |
|              | • 11.8.1-511 | • 12.0.2-012 | • 12.5.2-007 |
|              | • 11.8.1-604 | • 12.0.3-005 | • 14.0.0-467 |
|              | • 11.8.1-702 | • 12.0.3-007 | • 14.0.1-014 |
|              | • 11.8.2-009 |              | • 14.0.1-040 |
|              | • 11.8.2-702 |              |              |
|              | • 11.8.3-021 |              |              |
|              | • 11.8.3-501 |              |              |
|              | • 11.8.4-004 |              |              |

## Upgrading to AsyncOS 14.0.1-040

You can upgrade to release 14.0.1-040 of AsyncOS for Cisco Web Security appliances from the following versions:




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**Note** While upgrading, do not connect any devices (keyboard, mouse, management devices (Raritan) etc.) to the USB ports of the appliance.

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- 11.7.3-025
- 11.8.0-453
- 11.8.1-023
- 11.8.1-028
- 11.8.1-511
- 11.8.1-604
- 11.8.1-702
- 11.8.2-009
- 11.8.2-702
- 11.8.3-021
- 11.8.3-501
- 12.0.1-268
- 12.0.1-334
- 12.0.2-004
- 12.0.2-012
- 12.0.3-005
- 12.0.3-007
- 12.5.1-011
- 12.5.1-035
- 12.5.1-043
- 14.0.0-467
- 14.0.1-014

### Upgrading to AsyncOS 14.0.1-014

You can upgrade to release 14.0.1-014 of AsyncOS for Cisco Web Security appliances from the following versions:




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**Note** While upgrading, do not connect any devices (keyboard, mouse, management devices (Raritan) etc.) to the USB ports of the appliance.

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- 11.7.3-025
- 11.8.0-453
- 11.8.1-023
- 11.8.1-028
- 11.8.1-511
- 11.8.1-604
- 11.8.1-702
- 11.8.2-009
- 11.8.2-702
- 11.8.3-021
- 11.8.3-501
- 12.0.1-268
- 12.0.1-334
- 12.0.2-004
- 12.0.2-012
- 12.5.1-011
- 12.5.1-035
- 12.5.1-043
- 14.0.0-467

### Post-Upgrade Requirements

After you upgrade to 14.0.4-005, you must perform the following steps if you have not registered your appliance with Cisco Threat Response:





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**Note** This procedure is not applicable if you have already registered your appliance with Cisco Threat Response.

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## Procedure

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- Step 1** Create a user account in the Cisco Threat Response portal with admin access rights.
- To create a new user account, navigate to the Cisco Threat Response portal login page using the following URL- <https://visibility.amp.cisco.com> and click 'Create a Cisco Security Account'. If you are unable to create a new user account, contact Cisco TAC for assistance.
- Step 2** For registering your appliance with Security Services Exchange (SSE) cloud portal, generate token from SSE portal corresponding to your region.
- Note** While registering with SSE cloud portal, select the following FQDN based on your region from the web user interface of your appliance:
- AMERICAS ([api-sse.cisco.com](https://api-sse.cisco.com))
  - EUROPE ([api.eu.sse.itd.cisco.com](https://api.eu.sse.itd.cisco.com))
  - APJC ([api.apj.sse.itd.cisco.com](https://api.apj.sse.itd.cisco.com))
- Step 3** Make sure that you enable Cisco Threat Response under Cloud Services on the Security Services Exchange portal. Ensure that you open HTTPS (In and Out) 443 port on the firewall for the FQDN [api-sse.cisco.com](https://api-sse.cisco.com) (America) to register your appliance with the Security Services Exchange portal.
- To deploy a virtual appliance, see the *Cisco Content Security Virtual Appliance Installation Guide*, available from <http://www.cisco.com/c/en/us/support/security/web-security-appliance/products-installation-guides-list.html>.
- 

## Compatibility Details

- [Compatibility with Cisco AsyncOS for Security Management](#)
- [IPv6 and Kerberos Not Available in Cloud Connector Mode](#)
- [Functional Support for IPv6 Addresses](#)
- [Post-Upgrade Requirements](#)

### Compatibility with Cisco AsyncOS for Security Management

For compatibility between this release and AsyncOS for Cisco Content Security Management releases, see the compatibility matrix at: [https://www.cisco.com/c/dam/en/us/td/docs/security/security\\_management/sma\\_all/web-compatibility/index.html](https://www.cisco.com/c/dam/en/us/td/docs/security/security_management/sma_all/web-compatibility/index.html).

## IPv6 and Kerberos Not Available in Cloud Connector Mode

When the appliance is configured in Cloud Connector mode, unavailable options for IPv6 addresses and Kerberos authentication appear on pages of the web interface. Although the options appear to be available, they are not supported in Cloud Connector mode. Do not attempt to configure the appliance to use IPv6 addresses or Kerberos authentication when in Cloud Connector mode.

## Functional Support for IPv6 Addresses

### Features and functionality that support IPv6 addresses:

- Command line and web interfaces. You can access the appliance using `http://[2001:2:2::8]:8080` or `https://[2001:2:2::8]:8443`
- Performing proxy actions on IPv6 data traffic (HTTP/HTTPS/SOCKS/FTP)
- IPv6 DNS Servers
- WCCP 2.01 (Cat6K Switch) and Layer 4 transparent redirection
- Upstream Proxies
- Authentication Services
  - Active Directory (NTLMSSP, Basic, and Kerberos)
  - LDAP
  - SaaS SSO
  - Transparent user identification through CDA (communication with CDA is IPv4 only)
  - Credential Encryption
- Web Reporting and Web Tracking
- External DLP Servers (communication between the appliance and DLP Server is IPv4 only)
- PAC File Hosting
- Protocols: NTP, RADIUS, SNMP, and Syslog over the management server

### Features and functionality that require IPv4 addresses:

- Internal SMTP relay
- External Authentication
- Log subscription push methods: FTP, SCP, and Syslog
- NTP servers
- Local update servers, including proxy servers for updates
- Authentication services
- AnyConnect Security Mobility
- Novell eDirectory authentication servers
- Custom logo for end-user notification pages

- Communication between the Web Security Appliance and the Security Management Appliance
- WCCP versions prior to 2.01
- SNMP

### Availability of Kerberos Authentication for Operating Systems and Browsers

You can use Kerberos authentication with these operating systems and browsers:

- Windows servers 2003, 2008, 2008R2, and 2012.
- Latest releases of Safari and Firefox browsers on Mac (OSX Version 10.5 and later)
- IE (Version 7 and later) and latest releases of Firefox and Chrome browsers on Windows 7 and later.

Kerberos authentication is not available with these operating systems and browsers:

- Windows operating systems not mentioned above
- Browsers not mentioned above
- iOS and Android

## Deploying a Virtual Appliance

To deploy a virtual appliance, see the *Cisco Content Security Virtual Appliance Installation Guide*, available at <http://www.cisco.com/c/en/us/support/security/web-security-appliance/products-installation-guides-list.html>.

## Migrating from a Hardware Appliance to a Virtual Appliance

### Procedure

- 
- Step 1** Set up your virtual appliance with this AsyncOS release using the documentation described in [Post-Upgrade Requirements](#).
- Note** Ensure that the Security Services updates are successful
- Step 2** Upgrade your hardware appliance to this AsyncOS release.
- Step 3** Save the configuration file from your upgraded hardware appliance.
- Step 4** Load the configuration file from the hardware appliance onto the virtual appliance.
- If your hardware and virtual appliances have different IP addresses, deselect Load Network Settings before loading the configuration file.
- Step 5** Commit your changes.
- Step 6** Go to **Network > Authentication** and join the domain again. Otherwise identities won't work.
-

## Upgrading AsyncOS for Web

### Before you begin

- Perform preupgrade requirements, including updating the RAID controller firmware.
- Log in as Administrator.

### Procedure

- 
- Step 1** On the **System Administration > Configuration File** page, save the XML configuration file from the Web Security Appliance.
- Step 2** On the **System Administration > System Upgrade** page, click **Upgrade Options**.
- Step 3** You can select either **Download and install**, or **Download only**.  
Choose from the list of available upgrades.
- Step 4** Click **Proceed**.  
If you chose **Download only**, the upgrade will be downloaded to the appliance.
- Step 5** If you chose **Download and install**, when the upgrade is complete, click **Reboot Now** to reboot the Web Security Appliance.
- Note** To verify the browser loads the new online help content in the upgraded version of AsyncOS, you must exit the browser and then open it before viewing the online help. This clears the browser cache of any outdated content.
- 

## Important! Actions Required After Upgrading

In order to ensure that your appliance continues to function properly after upgrade, you must address the following items:

- [Change the Default Proxy Services Cipher Suites to Cisco Recommended Cipher Suites](#)
- [Virtual Appliances: Required Changes for SSH Security Vulnerability Fix](#)
- [File Analysis: Required Changes to View Analysis Result Details in the Cloud](#)
- [File Analysis: Verify File Types To Be Analyzed](#)
- [Unescaped Dots in Regular Expressions](#)

### Change the Default Proxy Services Cipher Suites to Cisco Recommended Cipher Suites

From AsyncOS 9.1.1 onwards, the default cipher suites available for Proxy Services are modified to include only secure cipher suites.

However, if you are upgrading from AsyncOS 9.x.x and later releases, the default Proxy Services cipher suites are not modified. For enhanced security, Cisco recommends that you change the default Proxy Services cipher suites to the Cisco recommended cipher suites after the upgrade. Do the following:



selected for analysis, select **Security Services > Anti-Malware and Reputation** and look at the Advanced Malware Protection settings.

## Unescaped Dots in Regular Expressions

Following upgrades to the regular-expression pattern-matching engine, you may receive an alert regarding unescaped dots in existing pattern definitions after updating your system. Any unescaped dot in a pattern that will return more than 63 characters after the dot will be disabled by the Velocity pattern-matching engine, and an alert to that effect will be sent to you. You will continue to receive an alert following each update until you correct or replace the pattern. Generally, unescaped dots in a larger regular expression can be problematic and should be avoided.

## Documentation Updates

The user guide and other documentation for this product is available in [Related Documentation](#).

## Known and Fixed Issues

Use the Cisco Bug Search Tool to find information about known and fixed defects in this release.

- [Bug Search Tool Requirements](#)
- [Lists of Known and Fixed Issues](#)
- [Finding Information about Known and Resolved Issues](#)

### Bug Search Tool Requirements

Register for a Cisco account if you do not have one. Go to <https://identity.cisco.com/ui/tenants/global/v1.0/enrollment-ui>.

### Lists of Known and Fixed Issues

- [Lists of Known and Fixed Issues in Release 14.0.5-007, on page 22](#)
- [Lists of Known and Fixed Issues in Release 14.0.4-005, on page 22](#)
- [Lists of Known and Fixed Issues in Release 14.0.3-014, on page 23](#)
- [Lists of Known and Fixed Issues in Release 14.0.2-012, on page 23](#)
- [Lists of Known and Fixed Issues in Release 14.0.1-053, on page 23](#)
- [Lists of Known and Fixed Issues in Release 14.0.1-040, on page 23](#)
- [Lists of Known and Fixed Issues in Release 14.0.1-014, on page 23](#)

### Lists of Known and Fixed Issues in Release 14.0.5-007

- [Fixed Issues](#)
- [Known Issues](#)

### Lists of Known and Fixed Issues in Release 14.0.4-005

- [Fixed Issues](#)

- [Known Issues](#)

#### Lists of Known and Fixed Issues in Release 14.0.3-014

- [Fixed Issues](#)
- [Known Issues](#)

#### Lists of Known and Fixed Issues in Release 14.0.2-012

- [Fixed Issues](#)
- [Known Issues](#)

#### Lists of Known and Fixed Issues in Release 14.0.1-053

- [Fixed Issues](#)
- [Known Issues](#)

#### Lists of Known and Fixed Issues in Release 14.0.1-040

- [Fixed Issues](#)
- [Known Issues](#)

#### Lists of Known and Fixed Issues in Release 14.0.1-014

- [Fixed Issues](#)
- [Known Issues](#)

### Finding Information about Known and Resolved Issues

Use the Cisco Bug Search Tool to find current information about known and resolved defects.

#### Before you begin

Register for a Cisco account if you do not have one. Go to <https://identity.cisco.com/ui/tenants/global/v1.0/enrollment-ui>.

#### Procedure

- 
- Step 1** Go to <https://tools.cisco.com/bugsearch/>.
  - Step 2** Log in with your Cisco account credentials.
  - Step 3** Click **Select from list > Security > Web Security > Cisco Web Security Appliance**, and click **OK**.
  - Step 4** In **Releases** field, enter the version of the release, for example, x.x.x.
  - Step 5** Depending on your requirements, do one of the following:
    - To view the list of resolved issues, select **Fixed in these Releases** from the **Releases** drop-down.

- To view the list of known issues, select **Affecting these Releases** from the **Releases** drop-down and select **Open** from the **Status** drop-down.



**Note** If you have questions or problems, click the **Help** or **Feedback** links at the top right side of the tool. There is also an interactive tour; to view it, click the link in the orange bar above the search fields.

## Related Documentation

Documentation	Location
Cisco Secure Web Appliance User Guide	<a href="http://www.cisco.com/c/en/us/support/security/web-security-appliance/tsd-products-support-series-home.html">http://www.cisco.com/c/en/us/support/security/web-security-appliance/tsd-products-support-series-home.html</a>
Cisco Content Security Management Appliance User Guide	<a href="https://www.cisco.com/c/en/us/support/security/content-security-management-appliance/series.html">https://www.cisco.com/c/en/us/support/security/content-security-management-appliance/series.html</a>
Virtual Appliance Installation Guide	<a href="https://www.cisco.com/c/en/us/support/security/email-securityappliance/products-installation-guides-list.html">https://www.cisco.com/c/en/us/support/security/email-securityappliance/products-installation-guides-list.html</a>
Compatibility Matrix for Cisco Secure Email and Web Manager with Secure Web Appliance	<a href="https://www.cisco.com/c/dam/en/us/td/docs/security/security_management/sma/sma_all/web-compatibility/index.html">https://www.cisco.com/c/dam/en/us/td/docs/security/security_management/sma/sma_all/web-compatibility/index.html</a>
API Guide	<a href="https://www.cisco.com/c/en/us/support/security/web-security-appliance/products-programming-reference-guides-list.html">https://www.cisco.com/c/en/us/support/security/web-security-appliance/products-programming-reference-guides-list.html</a>

## Support

### Cisco Support Community

Cisco Support Community is an online forum for Cisco customers, partners, and employees. It provides a place to discuss general web security issues as well as technical information about specific Cisco products. You can post topics to the forum to ask questions and share information with other Cisco users.

Access the Cisco Support Community for web security and associated management:

<https://supportforums.cisco.com/community/5786/web-security>

### Customer Support



**Note** To get support for virtual appliances, call Cisco TAC. Have your Virtual License Number (VLN) number ready before you call TAC.



Cisco TAC:

[http://www.cisco.com/en/US/support/tsd\\_cisco\\_worldwide\\_contacts.html](http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html).

Support site for legacy IronPort:

<http://www.cisco.com/web/services/acquisitions/ironport.html>.

For noncritical issues, you can also access customer support from the appliance. For instructions, see the Troubleshooting section of the [Secure Web Appliance User Guide](#).

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