



Release Notes for the Cisco ASA 5500 Series, Version 8.4(x)

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This document contains release information for Cisco ASA 5500 software Version 8.4(1) through 8.4(7).

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Important Notes

- Cisco ASA Clientless SSL VPN Portal Customization Integrity Vulnerability—Multiple vulnerabilities have been fixed for clientless SSL VPN in ASA software, so you should upgrade your software to a fixed version. See <http://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20141008-asa> for details about the vulnerability and a list of fixed ASA versions. Also, if you ever ran an earlier ASA version that had a vulnerable configuration, then regardless of the version you are currently running, you should verify that the portal customization was not compromised. If an attacker compromised a customization object in the past, then the compromised object stays persistent after you upgrade



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the ASA to a fixed version. Upgrading the ASA prevents this vulnerability from being exploited further, but it will not modify any customization objects that were already compromised and are still present on the system.

- Microsoft Kerberos Constrained Delegation support over clientless SSL VPN is limited to the following Web applications:
 - Microsoft Outlook Web Access
 - Microsoft SharePoint
 - Microsoft Internet Information Services
- Increased SSH security; the SSH default username is no longer supported—Starting in 8.4(2), you can no longer connect to the ASA using SSH with the **pix** or **asa** username and the login password. To use SSH, you must configure AAA authentication using the **aaa authentication ssh console LOCAL** command (CLI) or Configuration > Device Management > Users/AAA > AAA Access > Authentication (ASDM); then define a local user by entering the **username** command (CLI) or choosing Configuration > Device Management > Users/AAA > User Accounts (ASDM). If you want to use a AAA server for authentication instead of the local database, we recommend also configuring local authentication as a backup method.
- Configuration Migration for Transparent Mode—In 8.4, all transparent mode interfaces now belong to a bridge group. When you upgrade to 8.4, the existing two interfaces are placed in bridge group 1, and the management IP address is assigned to the Bridge Group Virtual Interface (BVI). The functionality remains the same when using one bridge group. You can now take advantage of the bridge group feature to configure up to four interfaces per bridge group and to create up to eight bridge groups in single mode or per context.


Note

In 8.3 and earlier, as an unsupported configuration, you could configure a management interface without an IP address, and you could access the interface using the device management address. In 8.4, the device management address is assigned to the BVI, and the management interface is no longer accessible using that IP address; the management interface requires its own IP address.

- You can upgrade from any previous release directly to 8.4. If you are upgrading from a pre-8.3 release, see the [Cisco ASA 5500 Migration Guide for Version 8.3 and Later](#) for important information about migrating your configuration to Version 8.3 and later.

Upgrading from some releases may have consequences for downgrading; be sure to back up your configuration file in case you want to downgrade. For example, If you are upgrading from a pre-8.2 release, see the 8.2 release notes for downgrade issues after you upgrade the Phone Proxy and MTA instance, or for downgrade issues if you upgrade the activation key with new 8.2 features.

- When upgrading to 8.4(2) from 8.3(1), 8.3(2), and 8.4(1), all identity NAT configurations will now include the **no-proxy-arp** and **route-lookup** keywords, to maintain existing functionality. The **unidirectional** keyword is removed.
- The Advanced Inspection and Prevention Security Services Card (AIP SSC) can take up to 20 minutes to initialize the first time it boots after a new image is applied. This initialization process must complete before configuration changes can be made to the sensor. Attempts to modify and save configuration changes before the initialization completes will result in an error.
- Connection Profile/Tunnel Group terminology in CLI vs. ASDM—The ASA tunnel groups define the initial connection parameters and attributes (such as AAA, client address assignment, and connection alias/group-url) for a remote access VPN session. In the CLI they are referred to as

tunnel groups, whereas in ASDM they are referred to as *Connection Profiles*. A VPN policy is an aggregation of Connection Profile, Group Policy, and Dynamic Access Policy authorization attributes.

- Cosmetic startup message issue on the ASA 5585-X—Cisco manufacturing recently discovered a process error that resulted in loading a test build of BIOS firmware on many early shipments of the ASA 5585-X. On the affected units, more text than usual displays on the console during startup before reaching the “rommon>” prompt. Included in the extra output is the following message banner:

```
CISCO SYSTEMS Spyker Build, TEST build not for Customer Release
Embedded BIOS Version 2.0(7)2 19:59:57 01/04/11
```

While you may see this additional text, there is no functional impact to the ASA operation; you can ignore the additional text. The test build provides additional information that can be used by engineers to pinpoint hardware problems during the manufacturing process. Unfortunately, there is no field-upgradeable resolution to eliminate this message that does not require replacing the hardware.

Hardware with a serial number that falls within the following ranges could be impacted by this cosmetic issue. Note that not all serial numbers within these ranges are impacted.

- JMX1449xxxx – JMX1520xxxx
- JAF1450xxxx – JAF1516xxxx (for ASA-SSP-20-K8= only)

Hardware with the following Product IDs for the preceding serial numbers could be impacted by this cosmetic issue:

- ASA5585-S20-K8
- ASA5585-S20-K9
- ASA5585-S20P20-K8
- ASA5585-S20P20-K9
- ASA5585-S20P20XK9
- ASA5585-S20X-K9
- ASA-SSP-20-K8=

Limitations and Restrictions

- No SNMP Traps during insertion/removal of power supply (CSCu190037)—The power supplies in the ASA 5585-X are hot swappable field replaceable units. In the event of a power supply failure, an SNMP trap is sent from the ASA to the configured trap receiver. However, when you restore power, the ASA does not send an additional SNMP trap.

Workaround: When using Cisco Prime Network to monitor ASA 5585s, the network operator must manually clear a power supply fault condition within the EMS.

- Currently in 8.4(2) and later, the PAT pool feature is not available as a fallback method for dynamic NAT or PAT. You can only configure the PAT pool as the primary method for dynamic PAT. For example, if you enter the following twice NAT command that configures a PAT pool (object2) for fallback when the addresses in object1 are used up, you see the following error message:

```
hostname(config)# nat (inside,outside) source dynamic any object1 pat-pool object2
interface round-robin
ERROR: Same mapped parameter cannot be used to do both NAT and PAT.
ERROR: NAT pool allocation failed.
```

You can alter this command to make it PAT-pool only by removing object1; the PAT pool is used as the primary method, instead of as a fallback method:

```
hostname(config)# nat (inside,outside) source dynamic any pat-pool object2 interface round-robin
```

(CSCtq20634)

- Clientless SSL VPN .NET limitation—Clientless SSL sessions might not properly support .NET framework applications. In some cases, you need to enable the application for use with Smart Tunnels; however, there is a chance it could still fail. For example, it might fail when an executable binary (.exe) is created using the .NET framework (CSCsv29942).
- With a heavy load of users (around 150 or more) using a WebVPN plugin, you may experience large delays because of the processing overload. Using Citrix web interface reduces the ASA rewrite overhead. To track the progress of the enhancement request to allow WebVPN plug files to be cached on the ASA, refer to CSCud11756.
- (ASA 5510, ASA 5520, ASA 5540, and ASA 5550 only) We strongly recommend that you enable hardware processing using the **crypto engine large-mod-accel** command instead of software for large modulus operations such as 2048-bit certificates and DH5 keys. If you continue to use software processing for large keys, you could experience significant performance degradation due to slow session establishment for IPsec and SSL VPN connections. We recommend that you initially enable hardware processing during a low-use or maintenance period to minimize a temporary packet loss that can occur during the transition of processing from software to hardware.



Note For the ASA 5540 and ASA 5550 using SSL VPN, in specific load conditions, you may want to continue to use software processing for large keys. If VPN sessions are added very slowly and the ASA runs at capacity, then the negative impact to data throughput is larger than the positive impact for session establishment.

The ASA 5580/5585-X platforms already integrate this capability; therefore, **crypto engine** commands are not applicable on these platforms.

System Requirements

Table 1 lists information about ASDM, module, and VPN compatibility with the ASA 5500 series.

Table 1 ASDM, SSM, SSC, and VPN Compatibility

Application	Description
ASDM	For information about ASDM requirements, see <i>Cisco ASA Compatibility</i> : http://www.cisco.com/en/US/docs/security/asa/compatibility/asamatrix.html
VPN	For the latest OS and browser test results, see the <i>Supported VPN Platforms, Cisco ASA 5500 Series</i> : http://www.cisco.com/en/US/docs/security/asa/compatibility/asa-vpn-compatibility.html
Module applications	For information about module application requirements, see <i>Cisco ASA Compatibility</i> : http://www.cisco.com/en/US/docs/security/asa/compatibility/asamatrix.html

New Features

This section includes the following topics:

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Note

New, changed, and deprecated syslog messages are listed in the syslog message guide.



Note

Version 8.4(4) and 8.4(4.3) were removed from Cisco.com due to build issues; please upgrade to a later version.

New Features in Version 8.4(7)

Released: September 3, 2013

There are no new features in Version 8.4(7).

New Features in Version 8.4(6)

Released: April 29, 2013

[Table 2](#) lists the new features for ASA Version 8.4(6).

Table 2 ***New Features for ASA Version 8.4(6)***

Feature	Description
Monitoring Features	
Ability to view top 10 memory users	<p>You can now view the top bin sizes allocated and the top 10 PCs for each allocated bin size. Previously, you had to enter multiple commands to see this information (the show memory detail command and the show memory binsize command); the new command provides for quicker analysis of memory issues.</p> <p>We introduced the following command: show memory top-usage.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i></p>

Table 2 *New Features for ASA Version 8.4(6) (continued)*

Feature	Description
CPU profile enhancements	<p>The cpu profile activate command now supports the following:</p> <ul style="list-style-type: none"> • Delayed start of the profiler until triggered (global or specific thread CPU %) • Sampling of a single thread <p>We modified the following command: cpu profile activate [<i>n-samples</i>] [sample-process <i>process-name</i>] [trigger cpu-usage <i>cpu%</i> [<i>process-name</i>]].</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i></p>
Remote Access Features	
user-storage value command password is now encrypted in show commands	<p>The password in the user-storage value command is now encrypted when you enter show running-config.</p> <p>We modified the following command: user-storage value.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i></p>

New Features in Version 8.4(5)

Released: October 31, 2012

[Table 3](#) lists the new features for ASA Version 8.4(5).

Table 3 *New Features for ASA Version 8.4(5)*

Feature	Description
Firewall Features	
EtherType ACL support for IS-IS traffic (transparent firewall mode)	<p>In transparent firewall mode, the ASA can now pass IS-IS traffic using an EtherType ACL.</p> <p>We modified the following command: access-list ethertype {permit deny} is-is.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i></p>
ARP cache additions for non-connected subnets	<p>The ASA ARP cache only contains entries from directly-connected subnets by default. You can now enable the ARP cache to also include non-directly-connected subnets. We do not recommend enabling this feature unless you know the security risks. This feature could facilitate denial of service (DoS) attack against the ASA; a user on any interface could send out many ARP replies and overload the ASA ARP table with false entries.</p> <p>You may want to use this feature if you use:</p> <ul style="list-style-type: none"> • Secondary subnets. • Proxy ARP on adjacent routes for traffic forwarding. <p>We introduced the following command: arp permit-nonconnected.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), or 8.7(1).</i></p>

Table 3 **New Features for ASA Version 8.4(5) (continued)**

Feature	Description
Increased maximum connection limits for service policy rules	The maximum number of connections for service policy rules was increased from 65535 to 2000000. We modified the following commands: set connection conn-max , set connection embryonic-conn-max , set connection per-client-embryonic-max , set connection per-client-max . <i>This feature is not available in 8.5(1), 8.6(1), or 8.7(1).</i>
Remote Access Features	
Improved Host Scan and ASA Interoperability	Host Scan and the ASA use an improved process to transfer posture attributes from the client to the ASA. This gives the ASA more time to establish a VPN connection with the client and apply a dynamic access policy. <i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i>
Cisco Secure Desktop: Windows 8 Support	CSD 3.6.6215 was updated to enable selection of Windows 8 in the Prelogin Policy operating system check. See the following limitations: <ul style="list-style-type: none"> Secure Desktop (Vault) is not supported with Windows 8.
Monitoring Features	
NAT-MIB cnatAddrBindNumberOfEntries and cnatAddrBindSessionCount OIDs to allow polling for Xlate count.	Support was added for the NAT-MIB cnatAddrBindNumberOfEntries and cnatAddrBindSessionCount OIDs to support xlate_count and max_xlate_count for SNMP. This data is equivalent to the show xlate count command. <i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i>
NSEL	Flow-update events have been introduced to provide periodic byte counters for flow traffic. You can change the time interval at which flow-update events are sent to the NetFlow collector. You can filter to which collectors flow-update records will be sent. We introduced the following command: flow-export active refresh-interval . We modified the following command: flow-export event-type . <i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i>
Hardware Features	
ASA 5585-X DC power supply support	Support was added for the ASA 5585-X DC power supply. <i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i>

New Features in Version 8.4(4.5)

Released: August 13, 2012

Table 4 lists the new features for ASA interim Version 8.4(4.5).



Note

Version 8.4(4.3) was removed from Cisco.com due to build issues; please upgrade to Version 8.4(4.5) or later.

**Note**

We recommend that you upgrade to a Cisco.com-posted interim release only if you have a specific problem that it resolves. If you decide to run an interim release in a production environment, keep in mind that only targeted testing is performed on interim releases. Interim releases are fully supported by Cisco TAC and will remain on the download site only until the next maintenance release is available. If you choose to run an interim release, we strongly encourage you to upgrade to a fully-tested maintenance or feature release when it becomes available. We will document interim release features at the time of the next maintenance or feature release. For a list of resolved caveats for each interim release, see the interim release notes available on the Cisco.com software download site.

Table 4 **New Features for ASA Version 8.4(4.5)**

Feature	Description
Firewall Features	
ARP cache additions for non-connected subnets	<p>The ASA ARP cache only contains entries from directly-connected subnets by default. You can now enable the ARP cache to also include non-directly-connected subnets. We do not recommend enabling this feature unless you know the security risks. This feature could facilitate denial of service (DoS) attack against the ASA; a user on any interface could send out many ARP replies and overload the ASA ARP table with false entries.</p> <p>You may want to use this feature if you use:</p> <ul style="list-style-type: none"> • Secondary subnets. • Proxy ARP on adjacent routes for traffic forwarding. <p>We introduced the following command: arp permit-nonconnected.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), or 8.7(1).</i></p>
Monitoring Features	
NAT-MIB cnatAddrBindNumberOfEntries and cnatAddrBindSessionCount OIDs to allow polling for Xlate count.	<p>Support was added for the NAT-MIB cnatAddrBindNumberOfEntries and cnatAddrBindSessionCount OIDs to support xlate_count and max_xlate_count for SNMP.</p> <p>This data is equivalent to the show xlate count command.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), or 9.1(1).</i></p>

New Features in Version 8.4(4.1)

Released: June 18, 2012

[Table 5](#) lists the new features for ASA Version 8.4(4.1).

**Note**

Version 8.4(4) was removed from Cisco.com due to build issues; please upgrade to Version 8.4(4.1) or later.

Table 5 **New Features for ASA Version 8.4(4.1)**

Feature	Description
Certification Features	
FIPS and Common Criteria certifications	<p>The FIPS 140-2 Non-Proprietary Security Policy was updated as part of the Level 2 FIPS 140-2 validation for the Cisco ASA 5500 series, which includes the Cisco ASA 5505, ASA 5510, ASA 5520, ASA 5540, ASA 5550, ASA 5580, and ASA 5585-X.</p> <p>The Common Criteria Evaluation Assurance Level 4 (EAL4) was updated, which provides the basis for a specific Target of Evaluation (TOE) of the Cisco ASA and VPN platform solutions.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>
Support for administrator password policy when using the local database	<p>When you configure authentication for CLI or ASDM access using the local database, you can configure a password policy that requires a user to change their password after a specified amount of time and also requires password standards such as a minimum length and the minimum number of changed characters.</p> <p>We introduced or modified the following commands: change-password, password-policy lifetime, password-policy minimum changes, password-policy minimum-length, password-policy minimum-lowercase, password-policy minimum-uppercase, password-policy minimum-numeric, password-policy minimum-special, password-policy authenticate enable, clear configure password-policy, show running-config password-policy.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>
Support for SSH public key authentication	<p>You can now enable public key authentication for SSH connections to the ASA on a per-user basis using Base64 key up to 2048 bits.</p> <p>We introduced the following commands: ssh authentication.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>
Support for Diffie-Hellman Group 14 for the SSH Key Exchange	<p>Support for Diffie-Hellman Group 14 for SSH Key Exchange was added. Formerly, only Group 1 was supported.</p> <p>We introduced the following command: ssh key-exchange.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>
Support for a maximum number of management sessions	<p>You can set the maximum number of simultaneous ASDM, SSH, and Telnet sessions.</p> <p>We introduced the following commands: quota management-session, show running-config quota management-session, show quota management-session.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>

Table 5 New Features for ASA Version 8.4(4.1) (continued)

Feature	Description
Additional ephemeral Diffie-Hellman ciphers for SSL encryption	<p>The ASA now supports the following ephemeral Diffie-Hellman (DHE) SSL cipher suites:</p> <ul style="list-style-type: none"> • DHE-AES128-SHA1 • DHE-AES256-SHA1 <p>These cipher suites are specified in RFC 3268, <i>Advanced Encryption Standard (AES) Ciphersuites for Transport Layer Security (TLS)</i>.</p> <p>When supported by the client, DHE is the preferred cipher because it provides Perfect Forward Secrecy. See the following limitations:</p> <ul style="list-style-type: none"> • DHE is not supported on SSL 3.0 connections, so make sure to also enable TLS 1.0 for the SSL server. <pre>!! set server version hostname(config)# ssl server-version tlsv1 sslv3 !! set client version hostname(config) # ssl client-version any</pre> <ul style="list-style-type: none"> • Some popular applications do not support DHE, so include at least one other SSL encryption method to ensure that a cipher suite common to both the SSL client and server can be used. • Some clients may not support DHE, including AnyConnect 2.5 and 3.0, Cisco Secure Desktop, and Internet Explorer 9.0. <p>We modified the following command: ssl encryption.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>
Image verification	<p>Support for SHA-512 image integrity checking was added.</p> <p>We modified the following command: verify.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>
Improved pseudo-random number generation	<p>Hardware-based noise for additional entropy was added to the software-based random number generation process. This change makes pseudo-random number generation (PRNG) more random and more difficult for attackers to get a repeatable pattern or guess the next random number to be used for encryption and decryption operations. Two changes were made to improve PRNG:</p> <ul style="list-style-type: none"> • Use the current hardware-based RNG for random data to use as one of the parameters for software-based RNG. • If the hardware-based RNG is not available, use additional hardware noise sources for software-based RNG. Depending on your model, the following hardware sensors are used: <ul style="list-style-type: none"> – ASA 5505—Voltage sensors. – ASA 5510 and 5550—Fan speed sensors. – ASA 5520, 5540, and 5580—Temperature sensors. – ASA 5585-X—Fan speed sensors. <p>We introduced the following commands: show debug menu cts [128 129]</p> <p><i>This feature is not available in 8.5(1), 8.6(1), 8.7(1), 9.0(1), 9.0(2), or 9.1(1).</i></p>
Remote Access Features	

Table 5 **New Features for ASA Version 8.4(4.1) (continued)**

Feature	Description
Clientless SSL VPN: Enhanced quality for rewriter engines	<p>The clientless SSL VPN rewriter engines were significantly improved to provide better quality and efficacy. As a result, you can expect a better end-user experience for clientless SSL VPN users.</p> <p>We did not add or modify any commands for this feature.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), or 8.7(1).</i></p>
Failover Features	
Configure the connection replication rate during a bulk sync	<p>You can now configure the rate at which the ASA replicates connections to the standby unit when using Stateful Failover. By default, connections are replicated to the standby unit during a 15 second period. However, when a bulk sync occurs (for example, when you first enable failover), 15 seconds may not be long enough to sync large numbers of connections due to a limit on the maximum connections per second. For example, the maximum connections on the ASA is 8 million; replicating 8 million connections in 15 seconds means creating 533 K connections per second. However, the maximum connections allowed per second is 300 K. You can now specify the rate of replication to be less than or equal to the maximum connections per second, and the sync period will be adjusted until all the connections are synced.</p> <p>We introduced the following command: failover replication rate <i>rate</i>.</p> <p><i>This feature is not available in 8.6(1) or 8.7(1). This feature is also in 8.5(1.7).</i></p>
Application Inspection Features	
SunRPC change from dynamic ACL to pin-hole mechanism	<p>Previously, Sun RPC inspection does not support outbound access lists because the inspection engine uses dynamic access lists instead of secondary connections.</p> <p>In this release, when you configure dynamic access lists on the ASA, they are supported on the ingress direction only and the ASA drops egress traffic destined to dynamic ports. Therefore, Sun RPC inspection implements a pinhole mechanism to support egress traffic. Sun RPC inspection uses this pinhole mechanism to support outbound dynamic access lists.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), or 8.7(1).</i></p>
Inspection reset action change	<p>Previously, when the ASA dropped a packet due to an inspection engine rule, the ASA sent only one RST to the source device of the dropped packet. This behavior could cause resource issues.</p> <p>In this release, when you configure an inspection engine to use a reset action and a packet triggers a reset, the ASA sends a TCP reset under the following conditions:</p> <ul style="list-style-type: none"> • The ASA sends a TCP reset to the inside host when the service resetoutbound command is enabled. (The service resetoutbound command is disabled by default.) • The ASA sends a TCP reset to the outside host when the service resetinbound command is enabled. (The service resetinbound command is disabled by default.) <p>For more information, see the service command in the ASA <i>Cisco ASA 5500 Series Command Reference</i>.</p> <p>This behavior ensures that a reset action will reset the connections on the ASA and on inside servers; therefore countering denial of service attacks. For outside hosts, the ASA does not send a reset by default and information is not revealed through a TCP reset.</p> <p><i>This feature is not available in 8.5(1), 8.6(1), or 8.7(1).</i></p>
Module Features	

Table 5 *New Features for ASA Version 8.4(4.1) (continued)*

Feature	Description
ASA 5585-X support for the ASA CX SSP-10 and -20	<p>The ASA CX module lets you enforce security based on the complete context of a situation. This context includes the identity of the user (who), the application or website that the user is trying to access (what), the origin of the access attempt (where), the time of the attempted access (when), and the properties of the device used for the access (how). With the ASA CX module, you can extract the full context of a flow and enforce granular policies such as permitting access to Facebook but denying access to games on Facebook or permitting finance employees access to a sensitive enterprise database but denying the same to other employees.</p> <p>We introduced or modified the following commands: capture, cxsc, cxsc auth-proxy, debug cxsc, hw-module module password-reset, hw-module module reload, hw-module module reset, hw-module module shutdown, session do setup host ip, session do get-config, session do password-reset, show asp table classify domain cxsc, show asp table classify domain cxsc-auth-proxy, show capture, show conn, show module, show service-policy.</p>
ASA 5585-X support for network modules	<p>The ASA 5585-X now supports additional interfaces on network modules in slot 1. You can install one or two of the following optional network modules:</p> <ul style="list-style-type: none"> • ASA 4-port 10G Network Module • ASA 8-port 10G Network Module • ASA 20-port 1G Network Module <p><i>This feature is not available in 9.0(1), 9.0(2), or 9.1(1).</i></p>

New Features in Version 8.4(3)

Released: January 9, 2012

[Table 6](#) lists the new features for ASA Version 8.4(3).

Table 6 *New Features for ASA Version 8.4(3)*

Feature	Description
NAT Features	
Round robin PAT pool allocation uses the same IP address for existing hosts	<p>When using a PAT pool with round robin allocation, if a host has an existing connection, then subsequent connections from that host will use the same PAT IP address if ports are available.</p> <p>We did not modify any commands.</p> <p><i>This feature is not available in 8.5(1).</i></p>

Table 6 **New Features for ASA Version 8.4(3) (continued)**

Feature	Description
Flat range of PAT ports for a PAT pool	<p>If available, the real source port number is used for the mapped port. However, if the real port is <i>not</i> available, by default the mapped ports are chosen from the same range of ports as the real port number: 0 to 511, 512 to 1023, and 1024 to 65535. Therefore, ports below 1024 have only a small PAT pool.</p> <p>If you have a lot of traffic that uses the lower port ranges, when using a PAT pool, you can now specify a flat range of ports to be used instead of the three unequal-sized tiers: either 1024 to 65535, or 1 to 65535.</p> <p>We modified the following commands: nat dynamic [pat-pool mapped_object [flat [include-reserve]]] (object network configuration mode) and nat source dynamic [pat-pool mapped_object [flat [include-reserve]]] (global configuration mode).</p> <p><i>This feature is not available in 8.5(1).</i></p>
Extended PAT for a PAT pool	<p>Each PAT IP address allows up to 65535 ports. If 65535 ports do not provide enough translations, you can now enable extended PAT for a PAT pool. Extended PAT uses 65535 ports per <i>service</i>, as opposed to per IP address, by including the destination address and port in the translation information.</p> <p>We modified the following commands: nat dynamic [pat-pool mapped_object [extended]] (object network configuration mode) and nat source dynamic [pat-pool mapped_object [extended]] (global configuration mode).</p> <p><i>This feature is not available in 8.5(1).</i></p>
Configurable timeout for PAT xlate	<p>When a PAT xlate times out (by default after 30 seconds), and the ASA reuses the port for a new translation, some upstream routers might reject the new connection because the previous connection might still be open on the upstream device. The PAT xlate timeout is now configurable, to a value between 30 seconds and 5 minutes.</p> <p>We introduced the following command: timeout pat-xlate.</p> <p><i>This feature is not available in 8.5(1).</i></p>

Table 6 New Features for ASA Version 8.4(3) (continued)

Feature	Description
Automatic NAT rules to translate a VPN peer's local IP address back to the peer's real IP address	<p>In rare situations, you might want to use a VPN peer's real IP address on the inside network instead of an assigned local IP address. Normally with VPN, the peer is given an assigned local IP address to access the inside network. However, you might want to translate the local IP address back to the peer's real public IP address if, for example, your inside servers and network security is based on the peer's real IP address.</p> <p>You can enable this feature on one interface per tunnel group. Object NAT rules are dynamically added and deleted when the VPN session is established or disconnected. You can view the rules using the show nat command.</p> <p>Note Because of routing issues, we do not recommend using this feature unless you know you need this feature; contact Cisco TAC to confirm feature compatibility with your network. See the following limitations:</p> <ul style="list-style-type: none"> • Only supports Cisco IPsec and AnyConnect Client. • Return traffic to the public IP addresses must be routed back to the ASA so the NAT policy and VPN policy can be applied. • Does not support load-balancing (because of routing issues). • Does not support roaming (public IP changing). <p>We introduced the following command: nat-assigned-to-public-ip interface (tunnel-group general-attributes configuration mode).</p>
Remote Access Features	
Clientless SSL VPN browser support	The ASA now supports clientless SSL VPN with Microsoft Internet Explorer 9 and Firefox 4.
Compression for DTLS and TLS	<p>To improve throughput, Cisco now supports compression for DTLS and TLS on AnyConnect 3.0 or later. Each tunneling method configures compression separately, and the preferred configuration is to have both SSL and DTLS compression as LZS. This feature enhances migration from legacy VPN clients.</p> <p>Note Using data compression on high speed remote access connections passing highly compressible data requires significant processing power on the ASA. With other activity and traffic on the ASA, the number of sessions that can be supported on the platform is reduced.</p> <p>We introduced or modified the following commands: anyconnect dtls compression [lzs none] and anyconnect ssl compression [deflate lzs none].</p>
Clientless SSL VPN Session Timeout Alerts	<p>Allows you to create custom messages to alert users that their VPN session is about to end because of inactivity or a session timeout.</p> <p>We introduced the following commands: vpn-session-timeout alert-interval, vpn-idle-timeout alert-interval.</p>
AAA Features	

Table 6 **New Features for ASA Version 8.4(3) (continued)**

Feature	Description
Increased maximum LDAP values per attribute	The maximum number of values that the ASA can receive for a single attribute was increased from 1000 (the default) to 5000, with an allowed range of 500 to 5000. If a response message is received that exceeds the configured limit, the ASA rejects the authentication. If the ASA detects that a single attribute has more than 1000 values, then the ASA generates informational syslog 109036. For more than 5000 attributes, the ASA generates error level syslog 109037. We introduced the following command: ldap-max-value-range <i>number</i> (Enter this command in aaa-server host configuration mode).
Support for sub-range of LDAP search results	When an LDAP search results in an attribute with a large number of values, depending on the server configuration, it might return a sub-range of the values and expect the ASA to initiate additional queries for the remaining value ranges. The ASA now makes multiple queries for the remaining ranges, and combines the responses into a complete array of attribute values.
Key vendor-specific attributes (VSAs) sent in RADIUS access request and accounting request packets from the ASA	Four New VSAs—Tunnel Group Name (146) and Client Type (150) are sent in RADIUS access request packets from the ASA. Session Type (151) and Session Subtype (152) are sent in RADIUS accounting request packets from the ASA. All four attributes are sent for all accounting request packet types: Start, Interim-Update, and Stop. The RADIUS server (for example, ACS and ISE) can then enforce authorization and policy attributes or use them for accounting and billing purposes.
Troubleshooting Features	
Regular expression matching for the show asp table classifier and show asp table filter commands	You can now enter the show asp table classifier and show asp table filter commands with a regular expression to filter output. We modified the following commands: show asp table classifier match <i>regex</i> , show asp table filter match <i>regex</i> .

New Features in Version 8.4(2.8)

Released: August 31, 2011

[Table 7](#) lists the new features for ASA interim Version 8.4(2.8).



Note

We recommend that you upgrade to a Cisco.com-posted ASA interim release only if you have a specific problem that it resolves. If you decide to run an interim release in a production environment, keep in mind that only targeted testing is performed on interim releases. Interim releases are fully supported by Cisco TAC and will usually remain on the download site only until the next maintenance release is available. If you choose to run an interim release, we strongly encourage you to upgrade to a fully-tested maintenance or feature release when it becomes available.

We will document interim release features at the time of the next maintenance or feature release. For a list of resolved caveats for each ASA interim release, see the interim release notes available on the Cisco.com software download site.

Table 7 New Features for ASA Interim Version 8.4(2.8)

Feature	Description
Remote Access Features	
Clientless SSL VPN browser support	The ASA now supports clientless SSL VPN with Microsoft Internet Explorer 9 and Firefox 4. <i>Also available in Version 8.2(5.13) and 8.3.2(25).</i>
Compression for DTLS and TLS	To improve throughput, Cisco now supports compression for DTLS and TLS on AnyConnect 3.0 or later. Each tunneling method configures compression separately, and the preferred configuration is to have both SSL and DTLS compression as LZS. This feature enhances migration from legacy VPN clients. Note Using data compression on high speed remote access connections passing highly compressible data requires significant processing power on the ASA. With other activity and traffic on the ASA, the number of sessions that can be supported on the platform is reduced. We introduced or modified the following commands: anyconnect dtls compression [lzs none] and anyconnect ssl compression [deflate lzs none] . <i>Also available in Version 8.2(5.13) and 8.3.2(25).</i>
Clientless SSL VPN Session Timeout Alerts	Allows you to create custom messages to alert users that their VPN session is about to end because of inactivity or a session timeout. We introduced the following commands: vpn-session-timeout alert-interval , vpn-idle-timeout alert-interval .
AAA Features	
Increased maximum LDAP values per attribute	The maximum number of values that the ASA can receive for a single attribute was increased from 1000 (the default) to 5000, with an allowed range of 500 to 5000. If a response message is received that exceeds the configured limit, the ASA rejects the authentication. If the ASA detects that a single attribute has more than 1000 values, then the ASA generates informational syslog 109036. For more than 5000 attributes, the ASA generates error level syslog 109037. We introduced the following command: ldap-max-value-range number (Enter this command in aaa-server host configuration mode).
Support for sub-range of LDAP search results	When an LDAP search results in an attribute with a large number of values, depending on the server configuration, it might return a sub-range of the values and expect the ASA to initiate additional queries for the remaining value ranges. The ASA now makes multiple queries for the remaining ranges, and combines the responses into a complete array of attribute values.
Troubleshooting Features	
Regular expression matching for the show asp table classifier and show asp table filter commands	You can now enter the show asp table classifier and show asp table filter commands with a regular expression to filter output. We modified the following commands: show asp table classifier match regex , show asp table filter match regex . <i>Also available in Version 8.2(5.13) and 8.3.2(25).</i>

New Features in Version 8.4(2)

Released: June 20, 2011

Table 8 lists the new features for ASA Version 8.4(2).

Table 8 *New Features for ASA Version 8.4(2)*

Feature	Description
Firewall Features	
Identity Firewall	<p>Typically, a firewall is not aware of the user identities and, therefore, cannot apply security policies based on identity.</p> <p>The Identity Firewall in the ASA provides more granular access control based on users' identities. You can configure access rules and security policies based on usernames and user groups name rather than through source IP addresses. The ASA applies the security policies based on an association of IP addresses to Windows Active Directory login information and reports events based on the mapped usernames instead of network IP addresses.</p> <p>The Identity Firewall integrates with Window Active Directory in conjunction with an external Active Directory (AD) Agent that provides the actual identity mapping. The ASA uses Windows Active Directory as the source to retrieve the current user identity information for specific IP addresses.</p> <p>In an enterprise, some users log onto the network by using other authentication mechanisms, such as authenticating with a web portal (cut-through proxy) or by using a VPN. You can configure the Identity Firewall to allow these types of authentication in connection with identity-based access policies.</p> <p>We introduced or modified the following commands: user-identity enable, user-identity default-domain, user-identity domain, user-identity logout-probe, user-identity inactive-user-timer, user-identity poll-import-user-group-timer, user-identity action netbios-response-fail, user-identity user-not-found, user-identity action ad-agent-down, user-identity action mac-address-mismatch, user-identity action domain-controller-down, user-identity ad-agent active-user-database, user-identity ad-agent hello-timer, user-identity ad-agent aaa-server, user-identity update import-user, user-identity static user, ad-agent-mode, dns domain-lookup, dns poll-timer, dns expire-entry-timer, object-group user, show user-identity, show dns, clear configure user-identity, clear dns, debug user-identity, test aaa-server ad-agent.</p>

Table 8 New Features for ASA Version 8.4(2) (continued)

Feature	Description
Identity NAT configurable proxy ARP and route lookup	<p>In earlier releases for identity NAT, proxy ARP was disabled, and a route lookup was always used to determine the egress interface. You could not configure these settings. In 8.4(2) and later, the default behavior for identity NAT was changed to match the behavior of other static NAT configurations: proxy ARP is enabled, and the NAT configuration determines the egress interface (if specified) by default. You can leave these settings as is, or you can enable or disable them discretely. Note that you can now also disable proxy ARP for regular static NAT.</p> <p>For pre-8.3 configurations, the migration of NAT exempt rules (the nat 0 access-list command) to 8.4(2) and later now includes the following keywords to disable proxy ARP and to use a route lookup: no-proxy-arp and route-lookup. The unidirectional keyword that was used for migrating to 8.3(2) and 8.4(1) is no longer used for migration. When upgrading to 8.4(2) from 8.3(1), 8.3(2), and 8.4(1), all identity NAT configurations will now include the no-proxy-arp and route-lookup keywords, to maintain existing functionality. The unidirectional keyword is removed.</p> <p>We modified the following commands: nat static [no-proxy-arp] [route-lookup] (object network) and nat source static [no-proxy-arp] [route-lookup] (global).</p>
PAT pool and round robin address assignment	<p>You can now specify a pool of PAT addresses instead of a single address. You can also optionally enable round-robin assignment of PAT addresses instead of first using all ports on a PAT address before using the next address in the pool. These features help prevent a large number of connections from a single PAT address from appearing to be part of a DoS attack and makes configuration of large numbers of PAT addresses easy.</p> <p>Note Currently in 8.4(2), the PAT pool feature is not available as a fallback method for dynamic NAT or PAT. You can only configure the PAT pool as the primary method for dynamic PAT (CSCtq20634).</p> <p>We modified the following commands: nat dynamic [pat-pool mapped_object [round-robin]] (object network) and nat source dynamic [pat-pool mapped_object [round-robin]] (global).</p>

Table 8 **New Features for ASA Version 8.4(2) (continued)**

Feature	Description
IPv6 Inspection	<p>You can configure IPv6 inspection by configuring a service policy to selectively block IPv6 traffic based on the extension header. IPv6 packets are subjected to an early security check. The ASA always passes hop-by-hop and destination option types of extension headers while blocking router header and no next header.</p> <p>You can enable default IPv6 inspection or customize IPv6 inspection. By defining a policy map for IPv6 inspection you can configure the ASA to selectively drop IPv6 packets based on following types of extension headers found anywhere in the IPv6 packet:</p> <ul style="list-style-type: none"> • Hop-by-Hop Options • Routing (Type 0) • Fragment • Destination Options • Authentication • Encapsulating Security Payload <p>We modified the following commands: policy-map type inspect ipv6, verify-header, match header, match header routing-type, match header routing-address count gt, match header count gt.</p>
Remote Access Features	
Portal Access Rules	<p>This enhancement allows customers to configure a global clientless SSL VPN access policy to permit or deny clientless SSL VPN sessions based on the data present in the HTTP header. If denied, an error code is returned to the clients. This denial is performed before user authentication and thus minimizes the use of processing resources.</p> <p>We modified the following command: webvpn portal-access-rule.</p> <p><i>Also available in Version 8.2(5).</i></p>
Clientless support for Microsoft Outlook Web App 2010	<p>The ASA 8.4(2) clientless SSL VPN core rewriter now supports Microsoft Outlook Web App 2010.</p>
Secure Hash Algorithm SHA-2 Support for IPsec IKEv2 Integrity and PRF	<p>This release supports the Secure Hash Algorithm SHA-2 for increased cryptographic hashing security for IPsec/IKEv2 AnyConnect Secure Mobility Client connections to the ASA. SHA-2 includes hash functions with digests of 256, 384, or 512 bits, to meet U.S. government requirements.</p> <p>We modified the following commands: integrity, prf, show crypto ikev2 sa detail, show vpn-sessiondb detail remote.</p>
Secure Hash Algorithm SHA-2 Support for Digital Signature over IPsec IKEv2	<p>This release supports the use of SHA-2 compliant signature algorithms to authenticate IPsec IKEv2 VPN connections that use digital certificates, with the hash sizes SHA-256, SHA-384, and SHA-512.</p> <p>SHA-2 digital signature for IPsec IKEv2 connections is supported with the AnyConnect Secure Mobility Client, Version 3.0.1 or later.</p>

Table 8 New Features for ASA Version 8.4(2) (continued)

Feature	Description
Split Tunnel DNS policy for AnyConnect	<p>This release includes a new policy pushed down to the AnyConnect Secure Mobility Client for resolving DNS addresses over split tunnels. This policy applies to VPN connections using the SSL or IPsec/IKEv2 protocol and instructs the AnyConnect client to resolve all DNS addresses through the VPN tunnel. If DNS resolution fails, the address remains unresolved and the AnyConnect client does not try to resolve the address through public DNS servers.</p> <p>By default, this feature is disabled. The client sends DNS queries over the tunnel according to the split tunnel policy: tunnel all networks, tunnel networks specified in a network list, or exclude networks specified in a network list.</p> <p>We introduced the following command: split-tunnel-all-dns.</p> <p><i>Also available in Version 8.2(5).</i></p>
Mobile Posture (formerly referred to as AnyConnect Identification Extensions for Mobile Device Detection)	<p>You can now configure the ASA to permit or deny VPN connections to mobile devices, enable or disable mobile device access on a per group bases, and gather information about connected mobile devices based on a mobile device's posture data. The following mobile platforms support this capability: AnyConnect for iPhone/iPad/iPod Versions 2.5.x and AnyConnect for Android Version 2.4.x.</p> <p>Licensing Requirements</p> <p>Enforcing remote access controls and gathering posture data from mobile devices requires an AnyConnect Mobile license and either an AnyConnect Essentials or AnyConnect Premium license to be installed on the ASA. You receive the following functionality based on the license you install:</p> <ul style="list-style-type: none"> • AnyConnect Premium License Functionality <p>Enterprises that install the AnyConnect Premium license will be able to enforce DAP policies, on supported mobile devices, based on these DAP attributes and any other existing endpoint attributes. This includes allowing or denying remote access from a mobile device.</p> • AnyConnect Essentials License Functionality <p>Enterprises that install the AnyConnect Essentials license will be able to do the following:</p> <ul style="list-style-type: none"> – Enable or disable mobile device access on a per group basis and to configure that feature using ASDM. – Display information about connected mobile devices via CLI or ASDM without having the ability to enforce DAP policies or deny or allow remote access to those mobile devices. <p><i>Also available in Version 8.2(5).</i></p>
SSL SHA-2 digital signature	<p>You can now use of SHA-2 compliant signature algorithms to authenticate SSL VPN connections that use digital certificates. Our support for SHA-2 includes all three hash sizes: SHA-256, SHA-384, and SHA-512. SHA-2 requires AnyConnect 2.5(1) or later (2.5(2) or later recommended). This release does not support SHA-2 for other uses or products.</p> <p>Caution: To support failover of SHA-2 connections, the standby ASA must be running the same image.</p> <p>We modified the following command: show crypto ca certificate (the Signature Algorithm field identifies the digest algorithm used when generating the signature).</p> <p><i>Also available in Version 8.2(5).</i></p>

Table 8 **New Features for ASA Version 8.4(2) (continued)**

Feature	Description
SHA2 certificate signature support for Microsoft Windows 7 and Android-native VPN clients	<p>ASA supports SHA2 certificate signature support for Microsoft Windows 7 and Android-native VPN clients when using the L2TP/IPsec protocol.</p> <p>We did not modify any commands.</p> <p><i>Also available in Version 8.2(5).</i></p>
Enable/disable certificate mapping to override the group-url attribute	<p>This feature changes the preference of a connection profile during the connection profile selection process. By default, if the ASA matches a certificate field value specified in a connection profile to the field value of the certificate used by the endpoint, the ASA assigns that profile to the VPN connection. This optional feature changes the preference to a connection profile that specifies the group URL requested by the endpoint. The new option lets administrators rely on the group URL preference used by many older ASA software releases.</p> <p>We introduced the following command: tunnel-group-preference.</p> <p><i>Also available in Version 8.2(5).</i></p>
ASA 5585-X Features	
Support for Dual SSPs for SSP-40 and SSP-60	<p>For SSP-40 and SSP-60, you can use two SSPs of the same level in the same chassis. Mixed-level SSPs are not supported (for example, an SSP-40 with an SSP-60 is not supported). Each SSP acts as an independent device, with separate configurations and management. You can use the two SSPs as a failover pair if desired.</p> <p>Note When using two SSPs in the chassis, VPN is not supported; note, however, that VPN has not been disabled.</p> <p>We modified the following commands: show module, show inventory, show environment.</p>
Support for the IPS SSP-10, -20, -40, and -60	<p>We introduced support for the IPS SSP-10, -20, -40, and -60 for the ASA 5585-X. You can only install the IPS SSP with a matching-level SSP; for example, SSP-10 and IPS SSP-10.</p> <p><i>Also available in Version 8.2(5).</i></p>
CSC SSM Features	
CSC SSM Support	<p>For the CSC SSM, support for the following features has been added:</p> <ul style="list-style-type: none"> • HTTPS traffic redirection: URL filtering and WRS queries for incoming HTTPS connections. • Configuring global approved whitelists for incoming and outgoing SMTP and POP3 e-mail. • E-mail notification for product license renewals. <p>We did not modify any commands.</p>
Monitoring Features	
Smart Call-Home Anonymous Reporting	<p>Customers can now help to improve the ASA platform by enabling Anonymous Reporting, which allows Cisco to securely receive minimal error and health information from the device.</p> <p>We introduced the following commands: call-home reporting anonymous, call-home test reporting anonymous.</p> <p><i>Also available in Version 8.2(5).</i></p>

Table 8 **New Features for ASA Version 8.4(2) (continued)**

Feature	Description
IF-MIB ifAlias OID support	The ASA now supports the ifAlias OID. When you browse the IF-MIB, the ifAlias OID will be set to the value that has been set for the interface description. <i>Also available in Version 8.2(5).</i>
Interface Features	
Support for Pause Frames for Flow Control on 1-Gigabit Ethernet Interface	You can now enable pause (XOFF) frames for flow control on 1-Gigabit Ethernet interfaces; support was previously added for 10-Gigabit Ethernet interfaces in 8.2(2). We modified the following command: flowcontrol . <i>Also available in Version 8.2(5).</i>
Management Features	
Increased SSH security; the SSH default username is no longer supported	Starting in 8.4(2), you can no longer connect to the ASA using SSH with the pix or asa username and the login password. To use SSH, you must configure AAA authentication using the aaa authentication ssh console LOCAL command (CLI) or Configuration > Device Management > Users/AAA > AAA Access > Authentication (ASDM); then define a local user by entering the username command (CLI) or choosing Configuration > Device Management > Users/AAA > User Accounts (ASDM). If you want to use a AAA server for authentication instead of the local database, we recommend also configuring local authentication as a backup method.
Unified Communications Features	
ASA-Tandberg Interoperability with H.323 Inspection	H.323 Inspection now supports uni-directional signaling for two-way video sessions. This enhancement allows H.323 Inspection of one-way video conferences supported by Tandberg video phones. Supporting uni-directional signaling allows Tandberg phones to switch video modes (close their side of an H.263 video session and reopen the session using H.264, the compression standard for high-definition video). We did not modify any commands. <i>Also available in Version 8.2(5).</i>
Routing Features	
Timeout for connections using a backup static route	When multiple static routes exist to a network with different metrics, the ASA uses the one with the best metric at the time of connection creation. If a better route becomes available, then this timeout lets connections be closed so a connection can be reestablished to use the better route. The default is 0 (the connection never times out). To take advantage of this feature, change the timeout to a new value. We modified the following command: timeout floating-conn . <i>Also available in Version 8.2(5).</i>

New Features in Version 8.4(1.11)

Released: May 20, 2011

Table 9 lists the new features for ASA interim Version 8.4(1.11).

**Note**

We recommend that you upgrade to a Cisco.com-posted interim release only if you have a specific problem that it resolves. If you decide to run an interim release in a production environment, keep in mind that only targeted testing is performed on interim releases. Interim releases are fully supported by Cisco TAC and will remain on the download site only until the next maintenance release is available. If you choose to run an interim release, we strongly encourage you to upgrade to a fully-tested maintenance or feature release when it becomes available. We will document interim release features at the time of the next maintenance or feature release. For a list of resolved caveats for each interim release, see the interim release notes available on the Cisco.com software download site.

Table 9 **New Features for ASA Version 8.4(1.11)**

Feature	Description
Firewall Features	
PAT pool and round robin address assignment	<p>You can now specify a pool of PAT addresses instead of a single address. You can also optionally enable round-robin assignment of PAT addresses instead of first using all ports on a PAT address before using the next address in the pool. These features help prevent a large number of connections from a single PAT address from appearing to be part of a DoS attack and makes configuration of large numbers of PAT addresses easy.</p> <p>Note Currently in 8.4(1.11), the PAT pool feature is not available as a fallback method for dynamic NAT or PAT. You can only configure the PAT pool as the primary method for dynamic PAT (CSCtq20634).</p> <p>We modified the following commands: nat dynamic [pat-pool mapped_object [round-robin]] (object network) and nat source dynamic [pat-pool mapped_object [round-robin]] (global).</p>

New Features in Version 8.4(1)

Released: January 31, 2011

Table 10 lists the new features for ASA Version 8.4(1).

Table 10 **New Features for ASA Version 8.4(1)**

Feature	Description
Hardware Features	
Support for the ASA 5585-X	<p>We introduced support for the ASA 5585-X with Security Services Processor (SSP)-10, -20, -40, and -60.</p> <p>Note Support was previously added in 8.2(3) and 8.2(4); the ASA 5585-X is not supported in 8.3(x).</p>

Table 10 New Features for ASA Version 8.4(1) (continued)

Feature	Description
No Payload Encryption hardware for export	<p>You can purchase the ASA 5585-X with No Payload Encryption. For export to some countries, payload encryption cannot be enabled on the Cisco ASA 5500 series. The ASA software senses a No Payload Encryption model, and disables the following features:</p> <ul style="list-style-type: none"> • Unified Communications • VPN <p>You can still install the Strong Encryption (3DES/AES) license for use with management connections. For example, you can use ASDM HTTPS/SSL, SSHv2, Telnet and SNMPv3. You can also download the dynamic database for the Botnet Traffic Filer (which uses SSL).</p>
Remote Access Features	
L2TP/IPsec Support on Android Platforms	<p>We now support VPN connections between Android mobile devices and ASA 5500 series devices, when using the L2TP/IPsec protocol and the native Android VPN client. Mobile devices must be using the Android 2.1, or later, operating system.</p> <p><i>Also available in Version 8.2(5).</i></p>
UTF-8 Character Support for AnyConnect Passwords	<p>AnyConnect 3.0 used with ASA 8.4(1), supports UTF-8 characters in passwords sent using RADIUS/MSCHAP and LDAP protocols.</p>
IPsec VPN Connections with IKEv2	<p>Internet Key Exchange Version 2 (IKEv2) is the latest key exchange protocol used to establish and control Internet Protocol Security (IPsec) tunnels. The ASA now supports IPsec with IKEv2 for the AnyConnect Secure Mobility Client, Version 3.0(1), for all client operating systems.</p> <p>On the ASA, you enable IPsec connections for users in the group policy. For the AnyConnect client, you specify the primary protocol (IPsec or SSL) for each ASA in the server list of the client profile.</p> <p>IPsec remote access VPN using IKEv2 was added to the AnyConnect Essentials and AnyConnect Premium licenses.</p> <p>Site-to-site sessions were added to the Other VPN license (formerly IPsec VPN). The Other VPN license is included in the Base license.</p> <p>We modified the following commands: vpn-tunnel-protocol, crypto ikev2 policy, crypto ikev2 enable, crypto ipsec ikev2, crypto dynamic-map, crypto map.</p>
SSL SHA-2 digital signature	<p>This release supports the use of SHA-2 compliant signature algorithms to authenticate SSL VPN connections that use digital certificates. Our support for SHA-2 includes all three hash sizes: SHA-256, SHA-384, and SHA-512. SHA-2 requires AnyConnect 2.5.1 or later (2.5.2 or later recommended). This release does not support SHA-2 for other uses or products. This feature does not involve configuration changes.</p> <p>Caution: To support failover of SHA-2 connections, the standby ASA must be running the same image. To support this feature, we added the Signature Algorithm field to the show crypto ca certificate command to identify the digest algorithm used when generating the signature.</p>

Table 10 New Features for ASA Version 8.4(1) (continued)

Feature	Description
SCEP Proxy	<p>SCEP Proxy provides the AnyConnect Secure Mobility Client with support for automated third-party certificate enrollment. Use this feature to support AnyConnect with zero-touch, secure deployment of device certificates to authorize endpoint connections, enforce policies that prevent access by non-corporate assets, and track corporate assets. This feature requires an AnyConnect Premium license and will not work with an Essentials license.</p> <p>We introduced or modified the following commands: crypto ikev2 enable, scep-enrollment enable, scep-forwarding-url, debug crypto ca scep-proxy, secondary-username-from-certificate, secondary-pre-fill-username.</p>
Host Scan Package Support	<p>This feature provides the necessary support for the ASA to install or upgrade a Host Scan package and enable or disable Host Scan. This package may either be a standalone Host Scan package or one that ASA extracts from an AnyConnect Next Generation package.</p> <p>In previous releases of AnyConnect, an endpoint's posture was determined by Cisco Secure Desktop (CSD). Host Scan was one of many features bundled in CSD. Unbundling Host Scan from CSD gives AnyConnect administrators greater freedom to update and install Host Scan separately from the other features of CSD.</p> <p>We introduced the following command: csd hostscan image path.</p>
Kerberos Constrained Delegation (KCD)	<p>This release implements the KCD protocol transition and constrained delegation extensions on the ASA. KCD provides Clientless SSL VPN (also known as WebVPN) users with SSO access to any web services protected by Kerberos. Examples of such services or applications include Outlook Web Access (OWA), Sharepoint, and Internet Information Server (IIS).</p> <p>Implementing protocol transition allows the ASA to obtain Kerberos service tickets on behalf of remote access users without requiring them to authenticate to the KDC (through Kerberos). Instead, a user authenticates to ASA using any of the supported authentication mechanisms, including digital certificates and Smartcards, for Clientless SSL VPN (also known as WebVPN). When user authentication is complete, the ASA requests and obtains an impersonate ticket, which is a service ticket for ASA on behalf of the user. The ASA may then use the impersonate ticket to obtain other service tickets for the remote access user.</p> <p>Constrained delegation provides a way for domain administrators to limit the network resources that a service trusted for delegation (for example, the ASA) can access. This task is accomplished by configuring the account under which the service is running to be trusted for delegation to a specific instance of a service running on a specific computer.</p> <p>We modified the following commands: kcd-server, clear aaa, show aaa, test aaa-server authentication.</p>
Clientless SSL VPN browser support	<p>The ASA now supports clientless SSL VPN with Apple Safari 5.</p>

Table 10 New Features for ASA Version 8.4(1) (continued)

Feature	Description
Clientless VPN Auto Sign-on Enhancement	<p>Smart tunnel now supports HTTP-based auto sign-on on Firefox as well as Internet Explorer. Similar to when Internet Explorer is used, the administrator decides to which hosts a Firefox browser will automatically send credentials. For some authentication methods, it may be necessary for the administrator to specify a realm string on the ASA to match that on the web application (in the Add Smart Tunnel Auto Sign-on Server window). You can now use bookmarks with macro substitutions for auto sign-on with Smart tunnel as well.</p> <p>The POST plug-in is now obsolete. The former POST plug-in was created so that administrators could specify a bookmark with sign-on macros and receive a kick-off page to load prior to posting the the POST request. The POST plug-in approach allows requests that required the presence of cookies, and other header items, fetched ahead of time to go through. The administrator can now specify pre-load pages when creating bookmarks to achieve the same functionality. Same as the POST plug-in, the administrator specifies the pre-load page URL and the URL to send the POST request to.</p> <p>You can now replace the default preconfigured SSL VPN portal with your own portal. The administrators do this by specifying a URL as an External Portal. Unlike the group-policy home page, the External Portal supports POST requests with macro substitution (for auto sign-on) as well as pre-load pages.</p> <p>We introduced or modified the following command: smart-tunnel auto-signon.</p>
Expanded Smart Tunnel application support	<p>Smart Tunnel adds support for the following applications:</p> <ul style="list-style-type: none"> • Microsoft Outlook Exchange Server 2010 (native support). Users can now use Smart Tunnel to connect Microsoft Office Outlook to a Microsoft Exchange Server. • Microsoft Sharepoint/Office 2010. Users can now perform remote file editing using Microsoft Office 2010 Applications and Microsoft Sharepoint by using Smart Tunnel.
Interface Features	
EtherChannel support (ASA 5510 and higher)	<p>You can configure up to 48 802.3ad EtherChannels of eight active interfaces each.</p> <p>Note You cannot use interfaces on the 4GE SSM, including the integrated 4GE SSM in slot 1 on the ASA 5550, as part of an EtherChannel.</p> <p>We introduced the following commands: channel-group, lACP port-priority, interface port-channel, lACP max-bundle, port-channel min-bundle, port-channel load-balance, lACP system-priority, clear lACP counters, show lACP, show port-channel.</p>

Table 10 **New Features for ASA Version 8.4(1) (continued)**

Feature	Description
Bridge groups for transparent mode	<p>If you do not want the overhead of security contexts, or want to maximize your use of security contexts, you can group interfaces together in a bridge group, and then configure multiple bridge groups, one for each network. Bridge group traffic is isolated from other bridge groups. You can configure up to 8 bridge groups in single mode or per context in multiple mode, with 4 interfaces maximum per bridge group.</p> <p>Note Although you can configure multiple bridge groups on the ASA 5505, the restriction of 2 data interfaces in transparent mode on the ASA 5505 means you can only effectively use 1 bridge group.</p> <p>We introduced the following commands: interface bvi, bridge-group, show bridge-group.</p>
Scalability Features	
Increased contexts for the ASA 5550, 5580, and 5585-X	For the ASA 5550 and ASA 5585-X with SSP-10, the maximum contexts was increased from 50 to 100. For the ASA 5580 and 5585-X with SSP-20 and higher, the maximum was increased from 50 to 250.
Increased VLANs for the ASA 5580 and 5585-X	For the ASA 5580 and 5585-X, the maximum VLANs was increased from 250 to 1024.
Additional platform support	Google Chrome has been added as a supported platform for ASA Version 8.4. Both 32-bit and 64-bit platforms are supported on Windows XP, Vista, and 7 and Mac OS X Version 6.0.
Increased connections for the ASA 5580 and 5585-X	<p>We increased the firewall connection limits:</p> <ul style="list-style-type: none"> • ASA 5580-20—1,000,000 to 2,000,000. • ASA 5580-40—2,000,000 to 4,000,000. • ASA 5585-X with SSP-10: 750,000 to 1,000,000. • ASA 5585-X with SSP-20: 1,000,000 to 2,000,000. • ASA 5585-X with SSP-40: 2,000,000 to 4,000,000. • ASA 5585-X with SSP-60: 2,000,000 to 10,000,000.
Increased AnyConnect VPN sessions for the ASA 5580	The AnyConnect VPN session limit was increased from 5,000 to 10,000.
Increased Other VPN sessions for the ASA 5580	The other VPN session limit was increased from 5,000 to 10,000.
High Availability Features	
Stateful Failover with Dynamic Routing Protocols	<p>Routes that are learned through dynamic routing protocols (such as OSPF and EIGRP) on the active unit are now maintained in a Routing Information Base (RIB) table on the standby unit. Upon a failover event, traffic on the secondary active unit now passes with minimal disruption because routes are known. Routes are synchronized only for link-up or link-down events on an active unit. If the link goes up or down on the standby unit, dynamic routes sent from the active unit may be lost. This is normal, expected behavior.</p> <p>We modified the following commands: show failover, show route, show route failover.</p>
Unified Communication Features	

Table 10 *New Features for ASA Version 8.4(1) (continued)*

Feature	Description
UC Protocol Inspection Enhancements	<p>SIP Inspection and SCCP Inspection are enhanced to support new features in the Unified Communications Solutions; such as, SCCP v2.0 support, support for GETPORT messages in SCCP Inspection, SDP field support in INVITE messages with SIP Inspection, and QSIG tunneling over SIP. Additionally, the Cisco Intercompany Media Engine supports Cisco RT Lite phones and third-party video endpoints (such as, Tandberg).</p> <p>We did not modify any commands.</p>
Inspection Features	
DCERPC Enhancement	<p>DCERPC Inspection was enhanced to support inspection of RemoteCreateInstance RPC messages.</p> <p>We did not modify an commands.</p>
Troubleshooting and Monitoring Features	
SNMP traps and MIBs	<p>Supports the following additional keywords: connection-limit-reached, entity cpu-temperature, cpu threshold rising, entity fan-failure, entity power-supply, ikev2 stop start, interface-threshold, memory-threshold, nat packet-discard, warmstart.</p> <p>The entPhysicalTable reports entries for sensors, fans, power supplies, and related components.</p> <p>Supports the following additional MIBs: ENTITY-SENSOR-MIB, CISCO-ENTITY-SENSOR-EXT-MIB, CISCO-ENTITY-FRU-CONTROL-MIB, CISCO-PROCESS-MIB, CISCO-ENHANCED-MEMPOOL-MIB, CISCO-L4L7MODULE-RESOURCE-LIMIT-MIB, NAT-MIB, EVENT-MIB, EXPRESSION-MIB</p> <p>Supports the following additional traps: warmstart, cpmCPURisingThreshold, mteTriggerFired, cirResourceLimitReached, natPacketDiscard, ciscoEntSensorExtThresholdNotification.</p> <p>We introduced or modified the following commands: snmp cpu threshold rising, snmp interface threshold, snmp-server enable traps.</p>
TCP Ping Enhancement	<p>TCP ping allows users whose ICMP echo requests are blocked to check connectivity over TCP. With the TCP ping enhancement you can specify a source IP address and a port and source interface to send pings to a hostname or an IPv4 address.</p> <p>We modified the following command: ping tcp.</p>
Show Top CPU Processes	<p>You can now monitor the processes that run on the CPU to obtain information related to the percentage of the CPU used by any given process. You can also see information about the load on the CPU, broken down per process, at 5 minutes, 1 minute, and 5 seconds prior to the log time. Information is updated automatically every 5 seconds to provide real-time statistics, and a refresh button in the pane allows a manual data refresh at any time.</p> <p>We introduced the following command: show process cpu-usage sorted.</p>

Table 10 *New Features for ASA Version 8.4(1) (continued)*

Feature	Description
General Features	
Password Encryption Visibility	You can show password encryption in a security context. We modified the following command: show password encryption .

Upgrading the Software

See the following table for the upgrade path for your version.



Note

There are no special requirements for Zero Downtime Upgrades for failover other than to upgrade to 8.4(5) or 8.4(7) instead of 8.4(6). Due to CSCug88962, you cannot perform a hitless upgrade to 8.4(6).

Current ASA Version	First Upgrade to:	Then Upgrade to:
8.2(x) and earlier	8.4(5)	8.4(7) or later
8.3(x)	8.4(5)	8.4(7) or later
8.4(1) through 8.4(4)	8.4(5)	8.4(7) or later
8.4(5) or later	—	8.4(7) or later

For detailed steps about upgrading, see the [8.4 upgrade guide](#).

Open Caveats

[Table 11](#) contains open caveats in the latest maintenance release.

If you are running an older release, and you need to determine the open caveats for your release, then add the caveats in these sections to the resolved caveats from later releases. For example, if you are running Version 8.4(1), then you need to add the caveats in this section to the resolved caveats from 8.4(2) and later to determine the complete list of open caveats.

If you are a registered Cisco.com user, view more information about each caveat using the Bug Search at the following website:

<https://tools.cisco.com/bugsearch>

Table 11 *Open Caveats in ASA Version 8.4*

Caveat	Description
CSCtk60416	Config load time of 500k ACLs in Routed is 3 times faster than Transp
CSCtl44287	Routing:Traceback observed on standby unit when exec clear conf all
CSCtq94990	Stale context present on active unit after vpn system test against 5585

Table 11 **Open Caveats in ASA Version 8.4 (continued)**

Caveat	Description
CSCtr67875	HW accelerator error PKCS1 v1.5 RSA - cert auth fails with certain certs
CSCtu30620	Missing input validation for specific code functions
CSCtw31001	Unexpected overrun during connection high load test
CSCtw82904	ESP packet drop due to failed anti-replay checking after HA failovered
CSCtx43526	ASA 8.4.2.8 fill_cpu_hog_entry
CSCty22380	USG-IPv6 / ReadyLogo P2 Conformance Bug NA changes Running Config
CSCty79405	If 1st rule is dynamic source and dest any,no correct for exit inetrface
CSCty80078	ASASM shows duplicate link local address on failover
CSCua36964	ASA active unit crash, Thread Name: vpnfol_sync/Bulk Sync - Import Data
CSCua68278	SYSRET 64-bit operating system privilege escalation
CSCua92694	Traceback on Configuration Manipulation over Telnet/SSH Sessions
CSCub43580	Traceback when changing ipsec lifetime when IKEv2 tunnel is passing traf
CSCuc51614	Weblaunch of AC IKEv2 connection should re-DAP if NAC is not configured
CSCud16208	ASA 8.4.4.5 - Traceback in Thread Name: Dispatch Unit
CSCue51351	ASA: Huge NAT config causes traceback due to unbalanced p3 tree
CSCug48732	Crash when loading configuration from TFTP multiple contexts
CSCug66471	ASA: Form on sharepoint 2010 does not open when accessing through webvpn
CSCug89590	Hostscan 3.1.03104 does not detect Kaspersky AV 6.0
CSCuh03193	ASA - Not all GRE connections are replicated to the standby unit
CSCuh09400	ASA OSPF route stuck in database and routing table
CSCuh12279	ASA: Data packets with urgent pointer dropped with IPS as bad-tcp-cksum
CSCuh17787	ASA traceback in Thread Name : DATAPATH-6-1849
CSCuh40465	Observed slow phone registration traffic with tftp inspect
CSCuh49686	slow memory leak due to webvpn cache
CSCuh59097	ASA doesn't open a pinhole for the embedded address
CSCuh66630	ASA 8.4(5) - Traceback and reload on standby unit
CSCuh73530	ASA 8.4.6 ARP reply not sent on 10Gig Portchannel subinterface
CSCuh90740	WebVPN configs not synchronized when configured in certain order 2
CSCuh99686	ASA5585 - Multiple context -: block depletion - 256 and 1550 byte
CSCui00048	ASA crashes with 'debug menu webvpn 160' command
CSCui01258	limitation of session-threshold-exceeded value is incorrect
CSCui06895	Scaled SIP Traffic failure due to SIP Inspect on FCS image
CSCui24669	ASA PAT rules are not applied to outbound SIP traffic version 8.4.5/6
CSCui37980	ASA traceback in thread name hostscan_token_cleaner
CSCui40122	ASA traceback in thread name DATAPATH-1-1043
CSCui41794	ASA A/A fover automatic MAC address change causes i/f monitoring to fail

Table 11 *Open Caveats in ASA Version 8.4 (continued)*

Caveat	Description
CSCui46469	ASA: Multicast traffic silently dropped on port-channel interfaces
CSCui53708	Some custom applications dosent work with Java 1.7 via smart tunnels
CSCui53710	ACL Migration to 8.3+ Software Unnecessarily Expands Object Groups
CSCui54667	ASA can't recognize BER encoding of digital certificate
CSCui55510	ASA traceback in Thread Name: DATAPATH-2-1140
CSCui55978	ASA 8.2.5 snmpEngineTime displays incorrect values
CSCui57181	ASA: Do not allow two IPsec tunnels with identical proxy IDs
CSCui63322	ASA Traceback When Debug Crypto Archives with Negative Pointers
CSCui66542	Traceback in tmatch compile thread
CSCui66657	Safari crashes when use scroll in safari on MAC 10.8 with smart-tunnel
CSCui70448	ASA 5580 ver 8.4.4.1 traceback with thread name CP HA Processing
CSCui70562	AnyConnect Copyright Panel and Logon Form message removed after upgrade
CSCui76170	Traceback in Thread Name: Dispatch Unit
CSCui79984	ASA DCERPC Pinhole Timeout Should be Idle not Absolute
CSCui80835	ASA drops packet as PAWS failure after incorrect TSecr is seen
CSCui82337	ASA SNMPv2-MIB ColdStart trap not sent on reload on data interfaces
CSCui83088	After upgrade ASA on 8.2 to 8.4.5 OID crasWebvpnNumSessions ret 0 count
CSCui85750	ASA SCH Inventory message incorrectly set at Severity 10
CSCui91247	ASA does not pass calling-station-id when doing cert base authentication
CSCui90037	No SNMP Traps during insertion/removal of power supply

Resolved Caveats

This section includes the following topics:

- [Resolved Caveats in Version 8.4\(7\), page 32](#)
- [Resolved Caveats in Version 8.4\(6\), page 35](#)
- [Resolved Caveats in Version 8.4\(5\), page 40](#)
- [Resolved Caveats in Version 8.4\(4.1\), page 47](#)
- [Resolved Caveats in Version 8.4\(3\), page 53](#)
- [Resolved Caveats in Version 8.4\(2\), page 61](#)
- [Resolved Caveats in Version 8.4\(1\), page 65](#)



Note

For a list of resolved caveats for each ASA interim release, see the interim release notes available on the Cisco.com software download site.

Resolved Caveats in Version 8.4(7)

Table 12 contains resolved caveats in ASA software Version 8.4(7).

If you are a registered Cisco.com user, view more information about each caveat using the Bug Search at the following website:

<https://tools.cisco.com/bugsearch>

Table 12 **Resolved Caveats in ASA Version 8.4(7)**

Caveat	Description
CSCsv41155	reload due to block depletion needs post-event detection mechanism
CSCsy66494	4GE-SSM: interface counter is not incremented after media-type changed
CSCtw57080	Protocol Violation does not detect violation from client without a space
CSCua69937	Traceback in DATAPATH-1-1143 thread: abort with unknown reason
CSCua98219	Traceback in ci/console during context creation - ssl configuration
CSCub50435	Proxy ARP Generated for Identity NAT Configuration in Transparent Mode
CSCub52207	Nested Traceback from Watchdog in tmatch_release_recursive_locks()
CSCuc66362	CP Processing hogs in SMP platform causing failover problems, overruns
CSCud05798	FIPS Self-Test failure,fips_continuous_rng_test [-1:8:0:4:4]
CSCud21312	ASA verify /md5 shows incorrect sum for files
CSCud34973	ASA stops decrypting traffic after phase2 rekey under certain conditions
CSCud50997	ASA IKEv2 fails to accept incoming IKEV2 connections
CSCud76481	ASA 8.6/9.x : Fails to parse symbols in LDAP attribute name
CSCud80242	UDP port 10000 reserved without any crypto configured
CSCud98455	ASA: 256 byte blocks depleted when syslog server unreachable across VPN
CSCue27223	Standby sends proxy neighbor advertisements after failover
CSCue30158	Traceback while editing objects attached to NAT
CSCue34342	ASA may crash due to watchdog timer while getting mapped address
CSCue46275	Connections not timing out when the route changes on the ASA
CSCue51796	OSPF routes missing for 10 secs when we failover one of ospf neighbour
CSCue62422	Multicast,Broadcast traffic is corrupted on a shared interface on 5585
CSCue78836	ASA removes TCP connection prematurely when RPC inspect is active
CSCue88423	ASA traceback in datapath thread with netflow enabled
CSCue98716	move OSPF from the punt event queue to its own event queue
CSCuf27008	Webvpn: Cifs SSO fails first attempt after AD password reset
CSCuf31253	Floating route takes priority over the OSPF routes after failover
CSCuf46296	Unable to add static NAT/PAT after upgrade to 8.4.5
CSCuf67469	ASA sip inspection memory leak in binsize 136
CSCuf68858	ASA: Page fault traceback in dbgtrace when running debug in SSH session
CSCuf71119	Incorrect NAT rules picked up due to divert entries

Table 12 *Resolved Caveats in ASA Version 8.4(7) (continued)*

Caveat	Description
CSCuf79091	Cisco ASA time-range object may have no effect
CSCuf85295	ASA changes user privilege by vpn tunnel configuration
CSCuf85524	Traceback when NULL pointer was passed to the l2p function
CSCuf90410	ASA LDAPS authorization fails intermittently
CSCuf93071	ASA 8.4.4.1 traceback in threadname Datapath
CSCuf93843	No value or incorrect value for SNMP OIDs needed to identify VPN clients
CSCug03975	ASA 9.1(1) Reboot while applying regex dns
CSCug08285	Webvpn: OWA 2010 fails to load when navigating between portal and OWA
CSCug10123	ASA sends ICMP Unreach. thro wrong intf. under certain condn.
CSCug14707	ASA 8.4.4.1 Keeps rebooting when FIPS is enabled: FIPS Self-Test failure
CSCug23031	Clientless plugins are not working
CSCug23311	cannot access Oracle BI via clientless SSL VPN
CSCug24584	ASA console hangs with duplicate nat statements of sh nat
CSCug25761	ASA has inefficient memory use when cumulative AnyConnect session grows
CSCug29809	Anyconnect IKEv2:Truncated/incomplete debugs,missing 3 payloads
CSCug30086	ASA traceback on thread Session Manager
CSCug31704	ASA - "Show Memory" Output From Admin Context is Invalid
CSCug45645	Standby ASA continues to forward Multicast Traffic after Failover
CSCug51148	Responder uses pre-changed IP address of initiator in IKE negotiation
CSCug53708	Thread Name: Unicorn Proxy Thread
CSCug55969	ASA uses different mapped ports for SDP media port and RTP stream
CSCug56940	ASA Config Locked by another session prevents error responses.
CSCug59177	Page fault on ssh thread
CSCug71714	DHCPD appends trailing dot to option 12 [hostname] in DHCP ACK
CSCug74860	Multiple concurrent write commands on ASA may cause failure
CSCug75709	ASA terminates SIP connections prematurely generating syslog FIN timeout
CSCug76763	Cannot login webvpn portal when Passwd mgmt is enabled for Radius server
CSCug77782	ASA5585 - 9.1.1 - Traceback on IKEv2Daemon Thread
CSCug78561	ASA Priority traffic not subject to shaping in Hierarchical QoS
CSCug82031	ASA traceback in Thread Name: DATAPATH-4-2318
CSCug83036	L2TP/IPSec traffic fails because UDP 1701 is not removed from PAT
CSCug83080	Cross-site scripting vulnerability
CSCug86386	Inconsistent behavior with dACL has syntax error
CSCug87482	webvpn redirection fails when redirection FQDN is same as ASA FQDN
CSCug88962	Hitless upgrade fails with error "Number of interfaces...not consistent"
CSCug90225	ASA: EIGRP Route Is Not Updated When Manually Adding Delay on Neighbor

Table 12 **Resolved Caveats in ASA Version 8.4(7) (continued)**

Caveat	Description
CSCug94308	ASA: "clear config all" does not clear the enable password
CSCug95287	ASA IDFW: idle users not marked as 'inactive' after default idle timeout
CSCug97772	Watchdog due to access-list change during uauth
CSCug98852	Traceback when using VPN Load balancing feature
CSCug98894	Traceback in Thread Name: OSPF Router during interface removal
CSCuh01167	Unable to display webpage via WebVPN portal, ASA 9.0(2)9
CSCuh01983	ASA tearsdown TCP SIP phone registration conn due to SIP inspection
CSCuh05021	"show inventory" displays no Power Supply if PS0 module pulled out
CSCuh05791	Single Sign On with BASIC authentication does not work
CSCuh10827	Cisco ASA config rollback via CSM doesnt work in multi context mode
CSCuh12375	ASA multicontext transparent mode incorrectly handles multicast IPv6
CSCuh13899	ASA protcol inspection connection table fill up DOS Vulnerability
CSCuh14302	quota management-session not working with ASDM
CSCuh19234	Traceback after upgrade from 8.2.5 to 8.4.6
CSCuh20716	Re-transmitted FIN not allowed through with sysopt connection timewait
CSCuh22344	ASA: WebVPN rewriter fails to match opening and closing parentheses
CSCuh23347	ASA:Traffic denied 'licensed host limit of 0 exceeded
CSCuh27912	ASA does not obfuscate aaa-server key when timeout is configured.
CSCuh34147	ASA memory leaks 3K bytes each time executing the show tech-support.
CSCuh40372	ASA Round-Robin PAT doesn't work under load
CSCuh45559	ASA: Page fault traceback when changing ASP drop capture buffer size
CSCuh48005	ASA doesn't send NS to stale IPv6 neighbor after failback
CSCuh48577	Slow memory leak on ASA due to SNMP
CSCuh52326	ASA: Service object-group not expanded in show access-list for IDFW ACLs
CSCuh58576	Different SNMPv3 Engine Time and Engine Boots in ASA active / standby
CSCuh66892	ASA: Unable to apply "http redirect <interface_name> 80" for webvpn
CSCuh73195	Tunneled default route is being preferred for Botnet updates from ASA
CSCuh74597	ASA-SM multicast boundary command disappears after write standby
CSCuh80522	nat config is missing after csm rollback operation.
CSCuh90799	ASA 5505 Ezvpn Client fails to connect to Load Balance VIP on ASA server
CSCuh99164	Multiple syslogs generated on port channel subinterfaces
CSCui10904	Macro substitution fails on External portal page customization
CSCui25277	ASA TFW doesn't rewrite VLAN in BPDU packets containing Ethernet trailer
CSCui38495	ASA Assert in Checkheaps chunk create internal
CSCui42956	ASA registers incorrect username for SSHv2 Public Key Authenticated user
CSCui48221	ASA removes RRI-injected route when object-group is used in crypto ACL

Resolved Caveats in Version 8.4(6)

Table 13 contains resolved caveats in ASA software Version 8.4(6).

If you are a registered Cisco.com user, view more information about each caveat using the Bug Search at the following website:

<https://tools.cisco.com/bugsearch>

Table 13 **Resolved Caveats in ASA Version 8.4(6)**

Caveat	Description
CSCsk06824	Syslog 103005 should include reason for failure
CSCsr58601	SCCP does not handle new msg StartMediaTransmissionACK
CSCte46553	ENH: show memory detail top-usage
CSCti07431	1/5 minute input rate and output rate are always 0 with user context.
CSCti14272	Time-based License Expires Pre-maturely
CSCti38856	Elements in the network object group are not converted to network object
CSCtj87870	Failover disabled due to license incompatible different Licensed cores
CSCtn15254	Message: 'Link is down as 10Gbps support is not licensed' always shown
CSCto50963	ASA SIP inspection - To: in INVITE not translated after 8.3/8.4 upgrade
CSCto87674	ST not injected in mstsc.exe on 32-bit Win 7 when started through TSWeb
CSCtq12090	ACL remark line is missing when range object is configured in ACL
CSCtr04553	Traceback while cleaning up portlist w/ clear conf all or write standby
CSCtr17899	Some legitimate traffic may get denied with ACL optimization
CSCtr92976	ESMTP inspection corrupts data
CSCts15825	RRI routes are not injected after reload if IP SLA is configured.
CSCtx32727	GTP inspect not working in Asymmetric Routing Environment with ASR group:
CSCtx55513	ASA: Packet loss during phase 2 rekey
CSCty59567	Observing traceback @ ipigrp2_redist_metric_incompatible+88
CSCty85328	PPPOE manual address allocation changes subnet into /32
CSCtz00381	RADIUS client too busy - try later
CSCtz56155	misreported high CPU
CSCtz64218	ASA may traceback when multiple users make simultaneous change to ACL
CSCtz70573	SMP ASA traceback on periodic_handler for inspecting icmp or dns traffic
CSCtz79578	Port-Channel Flaps at low traffic rate with single flow traffic
CSCtz83605	Clientless SSL VPN causes UAC on Win 7 to fail when CSD and ST are used
CSCua13405	Failover Unit Stuck in Cold Standby After Boot Up
CSCua22709	ASA traceback in Unicorn Proxy Thread while processing lua
CSCua44723	ASA nat-pat: 8.4.4 assert traceback related to xlate timeout
CSCua50058	PP : TFTP ACK to last block dropped
CSCua93764	ASA: Watchdog traceback from tmatch_element_release_actual

Table 13 *Resolved Caveats in ASA Version 8.4(6) (continued)*

Caveat	Description
CSCub04470	ASA: Traceback in Dispatch Unit with HTTP inspect regex
CSCub08224	ASA 210005 and 210007 LU allocate xlate/conn failed with simple 1-1 NAT
CSCub15394	unexpected policy-map is added on standby ASA when new context is made
CSCub16427	Standby ASA traceback while replicating flow from Active
CSCub16573	ASA: Memory leak due to SNP RT Inspect
CSCub58996	Cisco ASA Clientless SSLVPN CIFS Vulnerability
CSCub61578	ASA: Assert traceback in PIX Garbage Collector with GTP inspection
CSCub62584	ASA unexpectedly reloads with traceback in Thread Name: CP Processing
CSCub63148	With inline IPS and heavy load ASA could drop ICMP or DNS replies
CSCub72990	ASA is max-aging OSPF LSAs after 50 minutes
CSCub84164	ASA traceback in threadname Logger
CSCub86331	HA ASA Zero downtime upgrade on HA pair is not working
CSCub89078	ASA standby produces traceback and reloads in IPsec message handler
CSCub98434	ASA: Nested Crash in Thread Dispatch Unit - cause: SQLNet Inspection
CSCub99578	High CPU HOG when connect/disconnect VPN with large ACL
CSCuc12119	ASA: Webvpn cookie corruption with external cookie storage
CSCuc12967	OSPF routes were missing on the Standby Firewall after the failover
CSCuc14644	SIP inspect NATs Call-ID in one direction only
CSCuc16455	ASA packet transmission failure due to depletion of 1550 byte block
CSCuc16513	'clear config crypto ipsec ikev1' removes ikev2 proposals as well
CSCuc16670	ASA - VPN connection remains up when DHCP rebind fails
CSCuc17257	ASA Traceback - MD5_Update
CSCuc19882	Flash filesystem does not recognize filenames > 63 characters
CSCuc20974	ASA: MTU value does not change for PPPoE interface
CSCuc23984	ASA: Port-channel config not loaded correctly when speed/duplex are set
CSCuc24007	Show NAT pool reference object that is not used in translation
CSCuc24547	TCP ts_val for an ACK packet sent by ASA for OOO packets is incorrect
CSCuc24919	ASA: May traceback in Thread Name: fover_health_monitoring_thread
CSCuc25787	Per tunnel webvpn customizations ignored after ASA 8.2 upgraded to 8.4
CSCuc28903	ASA 8.4.4.6 and higher: no OSPF adj can be build with Portchannel port
CSCuc34345	Multi-Mode treceback on ci/console copying config tftp to running-config
CSCuc36831	Traceback when removing group-policy
CSCuc40005	PRTG app Javascript as a stream (not content) fails through the rewriter
CSCuc40450	error 'Drop-reason: (punt-no-mem) Punt no memory' need to be specific
CSCuc44179	Static routes not getting redistributed into EIGRP table via prefixlist
CSCuc45011	ASA may traceback while fetching personalized user information

Table 13 *Resolved Caveats in ASA Version 8.4(6) (continued)*

Caveat	Description
CSCuc46026	ASA traceback: ASA reloaded when call home feature enabled
CSCuc46270	ASA never removes qos-per-class ASP rules when VPN disconnects
CSCuc46561	OWA doesn't work after the ASA upgrade
CSCuc48355	ASA webvpn - URLs are not rewritten through webvpn in 8.4(4)5
CSCuc50544	Error when connecting VPN: DTLS1_GET_RECORD Reason: wrong version number
CSCuc56078	Traceback in threadname CP Processing
CSCuc60478	Management access fails via L2TP VPN client on SMP platform
CSCuc60566	ASA IPSEC error: Internal Error, ike_lock trying to unlock bit
CSCuc60950	Traceback in snpi_divert with timeout floating-conn configured
CSCuc63592	HTTP inspection matches incorrect line when using header host regex
CSCuc64108	ASA:DAP User Messages is truncated when action is terminate
CSCuc65775	ASA CIFS UNC Input Validation Issue
CSCuc72408	Denial of Service During Validation of Crafted Certificates.
CSCuc74333	EZVPN: User gets unexpected IUA prompt
CSCuc74488	ASA upgrade fails with large number of static policy-nat commands
CSCuc74758	Traceback: deadlock between syslog lock and host lock
CSCuc75090	Crypto IPsec SA's are created by dynamic crypto map for static peers
CSCuc75093	Log indicating syslog connectivity not created when server goes up/down
CSCuc79825	5580 - Thread Name: CP Midpath Processing eip pkp_free_ssl_ctm
CSCuc83059	traceback in fover_health_monitoring_thread
CSCuc83170	ipsecvpn-ike:IKEv1 rekey fails when IPCOMP proposal is sent
CSCuc83323	XSS in SSLVPN
CSCuc83828	ASA Logging command submits invalid characters as port zero
CSCuc84079	ASA: Multiple context mode does not allow configuration of 'mount'
CSCuc86512	Encrypt ftp/smb creds in config and asdm
CSCuc89163	Race condition can result in stuck VPN context following a rekey
CSCuc92292	ASA may not establish EIGRP adjacency with router due to version issues
CSCuc96911	ASASM platform is not exempt from MAC move wait timer
CSCuc97552	Deny rules in crypto acl blocks inbound traffic after tunnel formed
CSCuc98398	ASA writes past end of file system then can't boot
CSCud02647	traffic is resetting uauth timer
CSCud04867	Incorrect and duplicate logs about status change of port-channel intfs
CSCud07436	APCF Flag no-toolbar fails after upgrade to 8.4.4.9
CSCud07930	ASA webvpn plugin files Expires header incorrectly set
CSCud08203	Smart-tunnel failing to forward tcp connections for certain application

Table 13 **Resolved Caveats in ASA Version 8.4(6) (continued)**

Caveat	Description
CSCud08385	Smart Tunnel failed for Safari 6.0.1/6.0.2 on OSX10.7 and 10.8
CSCud12924	CA certificates expiring after 2038 display wrong end date on 5500-X
CSCud16105	Called-Station-Id in RADIUS acct stop after failover is standby address.
CSCud16590	ASA may traceback in thread emweb/https
CSCud17993	ASA-Traceback in Dispatch unit due to dcerpc inspection
CSCud21714	BTF traceback in datapath when apply l4tm rule
CSCud28106	IKEv2: ASA does not clear entry from asp table classify crypto
CSCud29007	License server becomes unreachable due to "signature invalid" error
CSCud32111	Deny rules in crypto acl blocks inbound traffic after tunnel formed
CSCud33260	ASDM 7.0(2) reports ERROR when sending 'exit' command to ASA
CSCud36686	Deny ACL lines in crypto-map add RRI routes
CSCud37333	Increase stack size in VPN Load Balancing feature
CSCud40898	TLS-Proxy does not Send issuer name in the certificate
CSCud41507	Traffic destined for L2L tunnels can prevent valid L2L from establishing
CSCud41670	ASA nested traceback with url-filtering policy during failover
CSCud42001	Smart Tunnel hangs when list contains more than 80 entries
CSCud43999	Prioritize Failover Control Packets on ASA5585-X CPU Uplinks
CSCud46746	DNS resolution for "from-the-box" traffic not working with "names"
CSCud47900	ASA: adding nested object group fails with "IP version mismatch"
CSCud51281	"Failed to update IPsec failover runtime data" msg on the standby unit
CSCud56558	Standby ASA reloads unexpectedly after config sync with netflow enabled
CSCud57759	DAP: debug dap trace not fully shown after +1000 lines
CSCud62661	STI Flash write failure corrupts large files
CSCud64725	VPNLB: Lost packet during IKEv1 not retransmitted
CSCud65506	ASA5585: Traceback in Thread Name:DATAPATH when accessing webvpn urls
CSCud67392	ASA hitless upgrade from 8.2 to 8.4 - ERROR: unable to download policy
CSCud69251	traceback in ospf_get_authtype
CSCud69535	OSPF routes were missing on the Active Firewall after the failover
CSCud70273	ASA may generate Traceback while running packet-tracer
CSCud72383	IKEV2-L2L: DH handle leak when PFS enabled only on one peer
CSCud72855	ASA5585-X zeroes out dest MAC address after IPS processing
CSCud74941	ASA LDAP Mapping should not map 0 to values with no match
CSCud81304	TRACEBACK, DATAPATH-8-2268, Multicast
CSCud84454	ASA in HA lose shared license post upgrade to 9.x
CSCud84827	ASA 5580 running 8.2(5)13 traceback
CSCud85831	Netbios insp translating ip in answer field to mapped ip of WINS server

Table 13 *Resolved Caveats in ASA Version 8.4(6) (continued)*

Caveat	Description
CSCud86142	Anyconnect using Ikev2 is missing username in syslog messages
CSCud89380	ASA: Username with ampersand disconnects ASDM Firewall Dashboards
CSCud89974	flash in ASA5505 got corrupted
CSCue00850	Traceback: snp_syslog fails to recognise parent syslog flow
CSCue04309	TCP connection to multicast MAC - unicast MAC S/ACK builds new TCP conn
CSCue05458	16k blocks near exhaustion - process emweb/https (webvpn)
CSCue06072	quota-level shows negative value cutting off remote access SSH/ASDM
CSCue09762	Revert change in subnetting rules for splittunnel policy for smarttunnel
CSCue11669	ASA 5505 not Forming EIGRP neighborship after failover
CSCue11738	ACL migration issues with NAT
CSCue15533	ASA:Crash while deleting trustpoint
CSCue17876	Some java applets won't connect via smart tunnel on windows with jre1.7
CSCue23700	ASA not in ha becomes pseudo standby after "no fail active"
CSCue25524	Webvpn: Javascript based applications not working
CSCue31622	Secondary Flows Lookup Denial of Service Vulnerability
CSCue32221	LU allocate xlate failed (for NAT with service port)
CSCue33354	Mac version Smart Tunnel with Safari 6.0.1/6.0.2 issue
CSCue35150	ASA in multicontext mode provides incorrect SNMP status of failover
CSCue35343	Memory leak of 1024B blocks in webvpn failover code
CSCue36084	RADIUS Memory Leak on ASA using AD-Agent
CSCue41939	IKEv2 reply missing 4bytes of 0's after UDP header
CSCue45615	Portchannel keeps sending packets through down/down interface
CSCue46757	Make default behavior for LZS compression the same for DTLS and TLS
CSCue47775	after-auto NAT rule (section 3) is not evaluated after double add/remove
CSCue48276	ASA drops packets with IP Options received via a VPN tunnel
CSCue55461	ESMTP drops due to MIME filename length >255
CSCue56047	IPv6 ACL can't be modified after used as vpn-filter
CSCue56901	secondary-authentication-server-group cmd breaks Ikev1/IPsec RA VPN auth
CSCue59676	ASA shared port-channel subinterfaces and multicontext traffic failure
CSCue60069	ENH: Reload ASA when free memory is low
CSCue61123	config changes are not reflecting to standby ASA
CSCue62470	mrrib entries may not be seen upon failover initiated by auto-update
CSCue63881	ASA SSHv2 Denial of Service Vulnerability
CSCue68555	Hostscan data greater than 100K will cause an Invalid Token from ASA
CSCue71411	Objects-groups missing from config after upgrading from 8.4.2 to 8.4.5.5
CSCue73708	Group enumeration still possible on ASA

Table 13 *Resolved Caveats in ASA Version 8.4(6) (continued)*

Caveat	Description
CSCue74372	Anyconnect DTLS idle-timeout is being reset by transmit traffic only
CSCue74649	When specifying two same OID in GETBULK, reply has no duplicate OID
CSCue77969	Character encoding not visible on wevpn portal pages.
CSCue82544	ASA5585 8.4.2 Traceback in Thread Name aaa while accessing Uauth pointer
CSCue84586	re-write fails for javascript generated URL with "\"
CSCue88560	ASA Traceback in Thread Name : CERT API
CSCuf02988	ASA: Page fault traceback in aaa_shim_thread
CSCuf06633	ASA crash in Thread Name: UserFromCert
CSCuf07810	DTLS drops tunnel on a crypto reset
CSCuf16850	split-dns cli warning msg incorrect after client increasing the limit
CSCuf27811	ASA: Pending DHCP relay requests not flushed from binding table
CSCuf34123	ASA 8.3+ l2l tunnel-group name with a leading zero is changed to 0.0.0.0
CSCuf34754	Framed-IP-Address not sent with AC IKEv2 and INTERIM-ACCOUNTING-UPDATE
CSCuf58624	snmp engineID abnormal for asa version 8.4.5 after secondary asa reload
CSCuf65912	IKEv2: VPN filter ACL lookup failure causing stale SAs and crash
CSCuf77294	ASA traceback with Thread Name: DATAPATH-3-1041
CSCuf89220	ASA IDFW : Unable to handle contacts in DC user groups
CSCug22787	Change of behavior in Prefill username from certificate SER extraction

Resolved Caveats in Version 8.4(5)

Table 14 contains resolved caveats in ASA software Version 8.4(5).

If you are a registered Cisco.com user, view more information about each caveat using the Bug Toolkit at the following website:

<http://tools.cisco.com/Support/BugToolkit/>

Table 14 *Resolved Caveats in ASA Version 8.4(5)*

Caveat	Description
CSCee19547	show failover does not show interface shutdown status
CSCsk06824	Syslog 103005 should include reason for failure
CSCsr58601	SCCP does not handle new msg StartMediaTransmissionACK
CSCsy84937	AUTOCOMPLETE attribute is not disabled for SSL VPNs
CSCte92599	ACL Hitcount incorrect for network objects containing range
CSCtf59088	Active LED stays green without active failover group
CSCtg58074	ASA CRYPTO: Hardware Accelerator Archive File Created
CSCth40745	ENH: Support IS-IS routing protocol passthrough in transparent mode

Table 14 *Resolved Caveats in ASA Version 8.4(5) (continued)*

Caveat	Description
CSCtj12159	ASA (8.3.2) traceback in Thread Name: DATAPATH-1-1295
CSCtj18386	Cannot redirect all ports traffic to some server/port with Twice NAT
CSCtj39083	ASA 8.3.x not passing multicast traffic when RP address is NAT-ed
CSCtj68732	ASA: DHCP-Relay should forward out interface based on internal gi-addr
CSCti96793	ASA5550 allows configuration of Jumbo MTU although unsupported
CSCtn69856	Memory Block Leak Denial of Service Vulnerability
CSCto32012	Routing: page fault traceback in Thread Name: EIGRP-IPv4: PDM
CSCto92860	During failover interface testing ASA might test old ARP entries
CSCtq47028	ASA: Manual NAT rules are not processed in order
CSCtq78296	ASA 5505 prints message %ASA-1-111111 when adding a new vlan interface
CSCtq84922	ASA admin context memory usage is invalid
CSCtr24705	Traceback seen while running packet-tracer due to Page fault
CSCtr35503	IPV6 router advertisements dropped by multicontext firewall
CSCtr65014	vpn-filter removed incorrectly from ASP table blocks L2L traffic
CSCtr65927	dynamic policy PAT fails with FTP data due to latter static NAT entry
CSCtr79885	ASA with VoIP memory leak 1% per day on binsize 56
CSCtr83416	Incorrect results returned by SNMP object cipSecGlobalActiveTunnels
CSCtr85499	ASA: Radius MS-CHAPV2 with challenge fails
CSCts15825	RRI routes are not injected after reload if IP SLA is configured.
CSCts16081	ASA Multicontext: allocated interface may not be configurable in context
CSCts50723	ASA: Builds conn for packets not destined to ASA's MAC in port-channel
CSCts72188	ASA: SSH process may exist after being orphaned from SSH session
CSCtt02427	5585 producing 402123 logs and denying AC users w/ aaa failing
CSCtu32847	ASA 8.4(2.1) high memory and traceback in aaa_shim_thread
CSCtw95262	ASA sends unidirectional RST when a packet is dropped via MPF
CSCtw99054	VPN: Bytes RCV and XMT incorrect in session disconnect message
CSCtx03901	1550 byte block leak in socks_proxy_datarelay
CSCtx10196	Webvpn : Javascript rewrite causing login button to be inactive
CSCtx29666	Smart Call Home error on transmission of message - Duplicate Message ID
CSCtx33347	Standby ASA traceback while trying to replicate xlates
CSCtx42698	Traceback in Thread Name: Dispatch Unit
CSCtx43083	Syslog 199011 "Close on bad channel in process/fiber"
CSCtx49751	nat command allows the interface keyword to be chosen as a pat-pool
CSCtx52020	Traceback in Thread Name: rtcli async executor process
CSCtx55176	Packet fragmentation issue on IPSec Over TCP
CSCtx55814	Newly Added Failover Unit With Lesser License Rejects Configuration

Table 14 **Resolved Caveats in ASA Version 8.4(5) (continued)**

Caveat	Description
CSCtx60431	Traceback in Thread Name: Dispatch Unit due to Websense URL Filtering
CSCtx61991	Show proc memory columns too small producing unreadable output.
CSCtx71103	Allow route next-hop as 127.0.0.1 in lieu of Null0
CSCtx82335	Reserve 256 byte block pool for ARP processing
CSCtx83820	ASA 8.x AAA Authentication Listener HTTP Redirect not working with IE9
CSCtx84986	Different PowerSupply number between show inventory/environment
CSCtx86924	ASA: Traceback in purgatory in release of DSH (datastructure handle)
CSCtx98905	ASA traceback with Thread Name: dhcp_daemon
CSCty00372	IPV6 extension header inspection On the ASA 8.4.2 does not work
CSCty03086	To-the-box traffic fails from hosts over L2L vpn tunnel & AnyConnect VPN
CSCty04934	logging debug-trace has issues with lines starting with numbers
CSCty12813	ASA 5585: Traceback after Reload when TCP syslog server unavailable
CSCty18976	ASA sends user passwords in AV as part of config command authorization.
CSCty27179	NAT Migration Fails with Large Policy NAT ACLs
CSCty28215	ASA : error message during upgrade from 8.0.5 to 8.2.4 or 8.2.2
CSCty32412	ASA: Anyconnect u-turn to ipsec tunnel fails
CSCty33946	ASA5580 traceback after upgrade to 8.4.3.2
CSCty38807	VPN Remote user address assignment failed after RADIUS authentication
CSCty41149	Failover Cluster License Must be Cleared When Failover is Unconfigured
CSCty45900	NAT rules specifying an interface of any removed if an interface deleted
CSCty47007	CSC: Secondary goes to pseudo standby state when failover is enabled
CSCty62368	Traceback with Netflow configuration
CSCty62526	Password management not working with external group-policy
CSCty63269	Traceback in Thread Name: IKEv2 Daemon
CSCty63897	ASA5585-standby traceback during hitless upgrade: 8.4.2.8-->8.4.3
CSCty67141	ASA Traceback when applying Regexes via script
CSCty70661	HTTP Inspection does not understand verb without trailing LWSP
CSCty74915	Chassis serial number is incorrect in call-home message on 5585 platform
CSCty75087	dACLs not removed from ASA after AC IKEv2 clients log out
CSCty75967	Xlate not replicated to standby when pat used
CSCty80349	ASA IKEV2 :Unable to establish site to site VPN for specific ident-pairs
CSCty81963	ASA sends User-Password RADIUS attribute wrongly with EAP authentication
CSCty93931	ASA generates traceback message when connected with L2TP/IPsec
CSCty95468	ENH: Add Command to Allow ARP Cache Entries from Non-Connected Subnets
CSCty95742	ASA-4-402116 - error message displays outer instead of inner packet
CSCty99200	ASA stops sending PADI for PPPoE when config applied via AUS

Table 14 *Resolved Caveats in ASA Version 8.4(5) (continued)*

Caveat	Description
CSCtz00381	RADIUS client too busy - try later
CSCtz00753	Active ASA5505 interface remains in Waiting state
CSCtz01680	IDFW: SYSLOG 746012 appears twice
CSCtz04768	Emails from Smart Call Home are not RFC 2822 Section 2.3 compliant
CSCtz05457	authentication in esmtp inspection breaks
CSCtz06058	ASA NAT: LU allocate xlate failed (for NAT with service port)
CSCtz11129	ASA Radius Acct-Delay-Time does not work
CSCtz12435	ASA - dhcp relay - option 252 is not passed down to the clients
CSCtz14107	AJAX - Mis-rendered page layout on IE over WebVPN
CSCtz14749	Traceback in Thread Name: CP Midpath Processing
CSCtz15503	ASA: Assert tracebacks with GTP inspection
CSCtz16780	observing taceback @ og_check_subgrp+158
CSCtz26123	ASA traceback in SiteMinder SSO when users log into ssl vpn web portal
CSCtz27402	ASA WebVPN URL Rewrite Failing - Form action with special characters
CSCtz31686	SNMP ciscoRasTooManySessions trap is sent from Standby ASA
CSCtz32065	Traceback in Thread Name accept/http
CSCtz33266	Http Not found when logging off a RDP session with RDP ActiveX Plugin
CSCtz34603	ASA: webvpn removes secure tag from cookies sent by remote server
CSCtz39418	multiple clients can connect with "vpn-simultaneous-logins 1"
CSCtz40094	ASA 8.2.5.27 secondary traceback after the upgrade - Thread Name: snmp
CSCtz41926	RA VPN license client fails to request more licenses from the server
CSCtz41928	Traceback: timer assert due to nf_block timer race condition
CSCtz43942	skinny-inspect intermittently uses odd port for RTP stream
CSCtz44586	ASA VPN IPSEC load balancing causes 1550 block depletion
CSCtz46845	ASA 5585 with IPS inline -VPN tunnel dropping fragmented packets
CSCtz47034	ASA 5585- 10 gig interfaces may not come up after asa reload
CSCtz47144	ASA: webvpn secure content should not be cached in local disks
CSCtz56155	misreported high CPU
CSCtz56971	ASA SCH - Traceback in thread name: sch_prompt anonymous reporting
CSCtz57006	IPv6 traffic to standby fails in transparent mode
CSCtz58744	Java applet failing at launch over Clientless WebVPN
CSCtz59915	ASA assigned IP address from DHCP to VPN clients randomly fails
CSCtz63143	ASA sip inspect - duplicate pre-allocate secondary pinholes created
CSCtz64589	ASA: Downloading capture via HTTP returns incorrect content-length
CSCtz71022	(VPN-Secondary) Failed to update IPsec failover runtime data on the stan
CSCtz78693	ASA SSLVPN Java RDP Plugin traceback with socket write error exception

Table 14 *Resolved Caveats in ASA Version 8.4(5) (continued)*

Caveat	Description
CSCtz78718	ASA: access-list with name "ext" is changed to "extended" on boot
CSCtz79983	Incorrect MPF conn counts cause %ASA-3-201011 and DoS condition
CSCtz80888	ASDM Session Replication during Failover
CSCtz81677	Aggregate Auth does not send "88" error code for radius-reject-message
CSCtz82438	Syslog %ASA-4-402123 Printed incorrectly for webvpn traffic
CSCtz82865	SNMP MIB: Equivalent of "show xlate count" command
CSCtz83605	Clientless SSL VPN causes UAC on Win 7 to fail when CSD and ST are used
CSCtz85987	IKEv2 tunnels fail in one direction following rekey-on-data
CSCtz86333	ASA may reload with traceback in Thread Name: vpnfol_thread_msg
CSCtz87164	Deny lines in NAT exemption ACL causes ASA config migration to fail
CSCtz92315	ASA Authorization fails with LDAP for user with any expiration date set
CSCtz92779	ASA accept IKEv2 AC reconnect request once then tear it down
CSCtz92900	ASA generates "The ASA hardware accelerator encountered an error"
CSCtz94135	Syslog 324001 Reason string missing when pkt dropped because of Null TID
CSCtz94191	ASA cut-through proxy stops working if using FQDN ACL
CSCtz94894	ASA: CPU profile activate command prints incorrect instructions
CSCtz97792	Block depletion, embedded web client transmit queue
CSCtz98516	Observed Traceback in SNMP while querying GET BULK for 'xlate count'
CSCtz99950	ASA VPN client connection fails if 'name' is configured the same as TG
CSCua02570	ASA nointeractive trustpoint auth fails with Incorrect fingerprint
CSCua05034	WebVPN: OWA server sending error message due to missing Canary Value
CSCua12570	Clientless: failed ntlm authentication leads to iobuffer uninitialized
CSCua12688	debug ctl-provider causes traceback
CSCua12795	ASA: High CPU with DTLS sessions and 'crypto engine large-mod-accel'
CSCua16597	Webvpn: RDP ActiveX plugin causes high cpu with IE
CSCua21363	1550 byte block depletion related to TCP
CSCua22779	ASA 5585-Able to ping shut shared port channel/gig shared sub interface
CSCua24960	Traceback in CP Midpath Processing - SSL DHE cipher
CSCua27134	Traceback in Thread Name: Dispatch Unit
CSCua28838	ASA:IKEv2 tunnel failure due to IPsec rekey collision
CSCua29269	ASA: WebVPN Rewrite issue - drop down menu rendering is incorrect
CSCua30564	CPU-hog during line-protocol-up event of 4GE-SSM ports
CSCua35337	Local command auth not working for certain commands on priv 1
CSCua35666	ASA: traceback in Thread Name: IPsec message handler,Syslog 602305.
CSCua44445	ASA sends too large TCP payload when ASA MSS < Client MSS
CSCua44530	ASA RA tunnel fails when vlan is set in grppol and XAUTH disabled

Table 14 *Resolved Caveats in ASA Version 8.4(5) (continued)*

Caveat	Description
CSCua45564	Add a CLI to configure SSL FCADB timeout
CSCua45611	pki: import from terminal fails when 'quit' embedded in certificate
CSCua50160	ASA: Page fault traceback in lu_rx with failover and GTP inspection
CSCua51319	simultaneous config-changes on multiple contexts can't be synchronized
CSCua58478	Traceback in Thread Name: CERT API
CSCua58718	ASA pre-defined objects have incorrect port values
CSCua60417	8.4.3 system log messages should appear in Admin context only
CSCua61119	ASA: Page fault traceback when changing port-channel load balancing
CSCua61386	Websense URL Filtering triggers syslog 216004
CSCua62162	Clientless SSL VPN rewriter fails with javascript
CSCua64808	logging debug-trace has issues with radius debugs
CSCua67463	Anyconnect fails to connect after ASA failover due to IP conflict
CSCua71378	ERROR: IKE cannot reserve the IPsec UDP port 10000
CSCua72585	Error returned while removing pfs from dynamic crypto map
CSCua74427	Some AAA Server Group names result in blank AAA config
CSCua75061	ASA (8.4.4) Traceback in Thread Name: IKE Daemon, Syslog 402142
CSCua76973	ASA: Some NAT configuration removed on failover upgrade to 8.4(4)
CSCua83032	Some parts of the WebVPN login susceptible to HTTP Response Splitting
CSCua86676	aaa-radius: ASA sending duplicate Radius access request
CSCua87170	Interface oversubscription on active causes standby to disable failover
CSCua88376	ASA vulnerable to CVE-2003-0001
CSCua89506	ipsecvpn-ikev2: assert Traceback in Thread Name: IKEv2 Daemon
CSCua91108	ASA unexpected system reboot with Thread Name: UserFromCert Thread
CSCua91189	Traceback in CP Processing when enabling H323 Debug
CSCua92333	Flowcontrol status is OFF on ASA, after enabling it on ASA and switch.
CSCua92556	ASA sip inspect - Pre-allocate SIP NOTIFY TCP secondary channel
CSCua93764	ASA: Watchdog traceback from tmatch_element_release_actual
CSCua95621	ASA:write standby command brings down port-channel interface on standby
CSCua98019	Cisco script injected in html tags, JS conditional comments
CSCua99003	WebVPN:"My Mail" option doesn't work for OWA2010
CSCua99091	ASA: Page fault traceback when copying new image to flash
CSCub02268	Maximum TCP intercept config values too low for larger FWs
CSCub05888	Asa 5580-20: object-group-search access-control causes failover problem
CSCub06626	ASA may traceback while loading a large context config during bootup
CSCub07976	config factory-default does not clear ssl commands
CSCub09280	ASA Content rewrite HTML content was treated as ajax response

Table 14 *Resolved Caveats in ASA Version 8.4(5) (continued)*

Caveat	Description
CSCub10537	4096 byte block depletion due to ak47_np_read
CSCub11582	ASA5550 continous reboot with tls-proxy maximum session 4500
CSCub13022	ASA updates arp entry with an invalid GARP
CSCub14196	FIFO queue oversubscription drops packets to free RX Rings
CSCub15394	unexpected policy-map is added on standby ASA when new context is made
CSCub17664	ASA 5585 8.4.4.1 duplicated log when tengiga interface up/down
CSCub23840	ASA crashes due to nested protocol object-group used in ACL
CSCub24113	ASA does not check aaa-server use before removing commands
CSCub28198	ASA Webvpn rewriter compression not working
CSCub28721	Standby ASA has duplicate ACEs for webtype ACLs after 'write standby'
CSCub31151	"idle-timeout = 0" is not able to configure with AnyConnect IKEv2
CSCub37344	ASA ospf redistributing failover interface network
CSCub37882	Standby ASA allows L2 broadcast packets with asr-group command
CSCub39677	ASA Webvpn form POST is not rewritten 8.4.1.8 or later
CSCub52102	ASA 8.3.2 'name' command is not mapped to 'show crypto ipsec sa' output
CSCub56239	ASA Auth-Proxy should reject aaa listner if port already in use
CSCub59136	ASA: Manual NAT rules are not processed in order
CSCub59536	NAT Config Rejected on Upgrade when Objects Overlap with Failover IP
CSCub68349	Port-channel interface uses incorrect delay value
CSCub70946	ASA traceback under threadname Dispatch Unit due to multicast traffic
CSCub72545	syslog 113019 reports invalid address when VPN client disconnects.
CSCub75522	ASA TFW sends broadcast arp traffic to all interfaces in the context
CSCub83472	VPNFO should return failure to HA FSM when control channel is down
CSCub84711	OID used for authentication by EKU is trunkated
CSCub88739	ASA5585: May crash in Thread Name: DATAPATH-1-1141
CSCub94635	Deleting ip local pool cause disconnect of VPN session using other pools
CSCub97263	WebVpn PortForward code signing issue
CSCub99704	WebVPN - mishandling of request from Java applet
CSCuc04636	Traceback in Thread Name: accept/http
CSCuc06857	Accounting STOP with caller ID 0.0.0.0 if admin session exits abnormally
CSCuc09055	Nas-Port attribute different for authentication/accounting Anyconnect
CSCuc14191	ASA: Webvpn rewriter not rewriting eval function call properly
CSCuc14255	Enhance RTCLI implementation of password type (BNF)
CSCuc15034	The "clear crypto ca crls <trustpoint>" command does not work
CSCuc16455	ASA packet transmission failure due to depletion of 1550 byte block
CSCuc17257	ASA Traceback - MD5_Update

Table 14 *Resolved Caveats in ASA Version 8.4(5) (continued)*

Caveat	Description
CSCuc23984	ASA: Port-channel config not loaded correctly when speed/duplex are set
CSCuc25787	Per tunnel webvpn customizations ignored after ASA 8.2 upgraded to 8.4
CSCuc45011	ASA may traceback while fetching personalized user information
CSCuc48355	ASA webvpn - URLs are not rewritten through webvpn in 8.4(4)5

Resolved Caveats in Version 8.4(4.1)

Table 15 contains resolved caveats in ASA software Version 8.4(4.1).

If you are a registered Cisco.com user, view more information about each caveat using the Bug Toolkit at the following website:

<http://tools.cisco.com/Support/BugToolkit/>



Note

Version 8.4(4) was removed from Cisco.com due to build issues; please upgrade to Version 8.4(4.1) or later.

Table 15 *Resolved Caveats in ASA Version 8.4(4.1)*

Caveat	Description
CSCsv94848	Warning message for, "igmp static-group" - affective should be effective
CSCsz04730	PIX/ASA: When route changes connections over IPSEC tunnel not torn down
CSCta06013	Fuzzing testbed, traceback in the javascript parser
CSCte76002	Low performance over shared vlans in multi-mode
CSCtf44231	Shun: inconsistent behavior for to the box and through the box conn
CSCtf79704	ASA -crasActGrNumUsers does not update tunnel groups after upgrade
CSCtg01763	ENH - call-home email Subject should be configurable
CSCtg71572	vpn-simultaneous-logins does not work for cert-only AnyConnect
CSCth37641	Write Mem on active ASA 8.3 produces log 742004 on standby
CSCth48476	ASA WebVPN doesnt rewrite URL Encoded Data in Location Response Header
CSCth58048	Assert Failure caused Traceback in Thread Name: Dispatch Unit
CSCth77370	IPv6 : ASA Stops responding to IPv6 ND sollicitation
CSCti16586	ASA 8.2(1)11 failed to return MIB data for SNMPV3 GetBulk request
CSCti54387	ASA 8.2.2.x traceback in Thread Name: Dispatch Unit
CSCtj45148	ASA 8.3 upgrade traceback in thread pix_flash_config_thread
CSCtj45688	ASA: SYN may change close-wait conn to SYN state
CSCtj79795	WebVPN:flv file within the Flowplayer object is not played over webvpn
CSCtk97719	WebVPN & ASDM doesn't work on Chrome with AES & 3DES ciphers
CSCtl06156	NAT Xlate idle timer doesn't reset with Conn.

Table 15 *Resolved Caveats in ASA Version 8.4(4.1) (continued)*

Caveat	Description
CSCtl54580	Telnet connection is permitted inappropriately in some situation
CSCtl93641	ASA: Traceback in fover_parse thread after making NAT changes
CSCtn00318	ASA Unexpectedly Reloads with a Traceback due to a Watchdog Failure
CSCtn14091	ASA reuses tcp port too quickly
CSCtn40707	assert traceback for ifc cfg removal with same-security intra-interface
CSCtn48877	Traceback in fover_FSM_thread with IPv6 failover on SSM-4GE-INC
CSCtn56517	"Failed to update IPsec failover runtime data" msg on the standby unit
CSCtn66992	egress ACL packet drops erroneously counted on ingress interface
CSCtn99416	WebVPN: Dropdown menu doesn't work in customized SharePoint 2010
CSCto05449	WebVPN: Ability to configure and show session timer countdown on portal
CSCto09313	Traceback with high http traffic at active multi-routed unit
CSCto09465	FTP transfers fail with NAT configured on multi-core ASAs (5580/5585)
CSCto23039	Add LZS compression support to AnyConnect DTLS and TLS
CSCto31425	ASA: L2TP and NAT-T overhead not included in fragmentation calculation
CSCto32012	Routing: page fault traceback in Thread Name: EIGRP-IPv4: PDM
CSCto34765	ASA may traceback in Thread Name: DATAPATH-1-1235 (ipsecvpn-crypto)
CSCto49472	ASA running 8.4.1 does not detect external flash, needs a reload
CSCto88412	Radius Proxy to SDI - AnyConnect prompts for next PASSCODE but shouldn't
CSCtq13070	DAP VPN-Filter Not Applied When AC Initiated Through Weblaunch
CSCtq15197	WebVPN: flv file within the Flowplayer object is not mangled correctly
CSCtq55088	Code refactoring for shared interface listening macs
CSCtq75817	Oracle Jinitiator over WebVPN sends incorrect HTTP request
CSCtq88111	object group not cleared when used for pat pool
CSCtq94775	Unable to get block detail about 2048 byte blocks
CSCtr00165	Port Forwarder ActiveX control contains a Buffer Overflow vulnerability
CSCtr00526	L2TP over IPsec session fails after IPsec P2 rekey
CSCtr15722	Memory fragmentation issue with dscp
CSCtr20809	ICMP inspection permits echo-reply packets with code set to non-zero
CSCtr31788	Standby ASA generates syslog 210005 while transmitting data on FTP
CSCtr38739	Link outage in Etherchannel causes interface down and failover
CSCtr44913	ASA 5580 traceback with DATAPATH-2-1024 thread
CSCtr44930	Nested obj does not work if contained in src and dst of ACL
CSCtr66582	Memory leak on ASA 5585-increase of 1% everyday
CSCtr94429	ASA: Local-host and all conns are torn down when client hits conn limit
CSCts10661	SSM-4GE doesn't handle unicast packets after "hw-module module 1 reset"
CSCts18480	ASA IKEv1 Traceback in vpnfol_thread_msg ike_fo_create_new_sa on Standby

Table 15 *Resolved Caveats in ASA Version 8.4(4.1) (continued)*

Caveat	Description
CSCts33551	NAT-T compatibility improvement with Windows 7
CSCts35498	ICMP and TCP Ping command should honor a timeout of zero seconds
CSCts42362	Message from ASA is not displayed about password complexity requirements
CSCts50584	ASA may reload with traceback in Thread Name scmd reader thread
CSCts52885	Unexpected packet denials during large ACL compilation
CSCts54522	Inspect PPTP does not change CALL-id for inbound Set-Link-Info Packet
CSCts69531	Traceback in Dispatch Unit on Standby with timeout floating-conn
CSCts72188	ASA: SSH process may exist after being orphaned from SSH session
CSCts73200	sh int det in ASA5580-40 still show topology information which for 5585
CSCts76258	xlate objects with no associated conns and idle timer > timeout
CSCts89642	'show mroute' has null Outgoing Interface List for (*,G) entry w/ bidir
CSCts89806	'Route-Lookup' Option Should be Allowed if One Real Interface is Known
CSCts98806	Standby ASA 5585 Reporting Service Card Failure on Signature Update
CSCtt03492	ASA should not send data in the 3rd message of TCP 3WHS w/ LDAP over SSL
CSCtt11890	ASA: Manual NAT rules inserted above others may fail to match traffic
CSCtt13455	netflow: template only send once with default timeout-rate
CSCtt18185	ASA traceback cause by Global Policy
CSCtt19760	ASA may traceback in a DATAPATH thread
CSCtt34959	ASA and apple L2TP IPsec client disconnects
CSCtt36737	After upgrade, AnyConnect causes 1550 or 2048 block depletion
CSCtt45090	ASA5505: Primary active unit crash due to mismatched host-limit license
CSCtt47502	show vpn-sessiondb does not show LZS compression stats for Anyconnect
CSCtt74695	wrong vpn-filter gets applied when peers have overlapping address space
CSCtt96526	SharePoint2010:Cannot create new document
CSCtt96550	ASA - Dispatch unit traceback - snp_nat_xlate_timeout
CSCtt98033	Allow Concurrency of 'Unidirectional' and 'No-Proxy-Arp' Keywords
CSCtt98991	ASA: Decrypted VPN packets dropped due to bad-tcp-cksum when using NAT-T
CSCtu00961	Some specific flash file doesn't work through WebVPN on ASA
CSCtu02353	Unable to access ASDM when webvpn is enabled on ASA
CSCtu03117	npshim: Shared License Registration Fails w/ Empty TP applied to Int
CSCtu04723	vpnclient mac-exempt cmd inconsistent when adding more than 16 entries
CSCtu04754	ASA may traceback citing Thread Name: qos_metric_daemon as culprit
CSCtu10620	WebVPN:flv file within the Flowplayer object is not played over webvpn
CSCtu14396	ASA has stale ASP classification entries for Anyconnect tunnels
CSCtu21128	cannot pass "=" sign within the value of a parameter for the SSH plugin
CSCtu26615	Clientless VPN paging application failure

Table 15 **Resolved Caveats in ASA Version 8.4(4.1) (continued)**

Caveat	Description
CSCtu27846	Backup Shared license server remains ACTIVE even when the Master is up
CSCtu30581	ASA 5580 traceback when CSM attempts deployment
CSCtu33068	WebVPN URL Mangler does not handle encoded value of "/"
CSCtu34220	High CPU usage during bulk sync when allocating NAT xlate
CSCtu34793	ASA 5580 Multicontext ERROR: unable to create listener on interface
CSCtu34878	HA conn replications on smp platform needs to be throttled
CSCtu39200	ASA traceback in emweb/https while bringing up many webvpn sessions
CSCtu40752	5580: assert failure in thread CP Processing
CSCtu42772	ASA webvpn doesn't rewrite some redirect messages properly
CSCtu42856	ASA: May fail FIPS Self-Test
CSCtu43137	ASA traceback in Thread Name: IKE Daemon
CSCtu51799	Traceback in Thread Name: CP Processing
CSCtu57453	ASA: Traceback after removing 'ip address dhcp setroute' with DDNS
CSCtv00813	ASA NAT fails to due route look with any as destination interface
CSCtv19046	DAACL is not applied to AC when connection via the webportal
CSCtv19854	Incorrect MPF conn counts cause %ASA-3-201011 and DoS condition for user
CSCtw35765	Threat Detection Denial Of Service Vulnerability
CSCtw45576	TCP sequence space check ignored in some cases
CSCtw45723	WebVPN: CIFS: Incorrect MIME type for PDF files - iPad/iPhone
CSCtw50362	ASA - Failover message may be lost during transition to active state
CSCtw52591	Environmental SNMP Traps Are Not Available on ASA5585 SSP-40
CSCtw52716	ASA5585 show inventory not updated
CSCtw55462	Traceback: assert failure on thread radius_snd
CSCtw56707	%ASA-3-201011: Connection limit exceeded when not hitting value
CSCtw56859	Natted traffic not getting encrypted after reconfiguring the crypto ACL
CSCtw58640	When ASA sends a username with a "\", WSA logs errors.
CSCtw58682	SSLVPN Portal uses incorrect DNS Group after failover
CSCtw58945	L2TP over IPsec connections fail with ldap authorization and mschap2
CSCtw59136	ASA: 8.3+ NAT overlap with failover IP cause both units to go active
CSCtw59562	ACL Hashes calculated during config migration are wrong
CSCtw60220	Port Address Translation (PAT) causes higher CPU after upgrade
CSCtw62745	Inspection configurations do not appear after disk format and reload
CSCtw63996	Page fault traceback with thread name "pix_flash_config_thread".
CSCtw71420	ASA 5585-X does not provide aggregate system CPU load value via SNMP
CSCtw72728	AdvCrypt: AnyConnect can connect but can't pass data

Table 15 *Resolved Caveats in ASA Version 8.4(4.1) (continued)*

Caveat	Description
CSCtw75613	ASA: Traceback in Unicorn Admin Handler when making DAP changes via ASDM
CSCtw78059	print warning if interface in logging host cmd conflicts with routes
CSCtw78415	ASA may reload with traceback in Dispatch Unit related to WAAS inspect
CSCtw81408	Apple Lion OS L2TP Client behind NAT device does not connect
CSCtw82147	ASA lets static NAT mapped IP to be same as standby address on interface
CSCtw82573	Failover monitor may unexpectedly become Unknown (Waiting) status.
CSCtw84007	ASA does not recognize IPv6 VPN filter access-list for AnyConnect client
CSCtw84087	IKEv2: ASA does not re-establish more than one SA after disconnect
CSCtw84249	ASA 8.4 Email Proxy causes corruption of some email attachments
CSCtw89522	Cut-through proxy - users unable to log in
CSCtw90179	ASA:In a rare corner case ASA may crash while modifying FQDN object/acl
CSCtw93059	Page fault traceback in crypto_lib_keypair_show_mypubkey_all
CSCtw93804	CPU-HOG is detected after configuring speed 10/100,duplex full on MGMT
CSCtw95262	ASA sends unidirectional RST when a packet is dropped via MPF
CSCtw95487	ASA mem leak w/EZVPN when Subject DN has Multiple C,O,OU,CN fields.
CSCtx01251	ASA: May traceback in DATAPATH during capture
CSCtx02122	Post request for OCSP using non default port is missing the port number
CSCtx03464	Standby ASA traceback in DATAPATH-0-1400 or Dispatch Unit
CSCtx08182	Nas-Port attribute different for authentication and accounting
CSCtx08346	tunnel-group-preference not respected for AnyConnect 3.0 aggregate_auth
CSCtx08354	Traceback when memory low and memory profile enabled
CSCtx11578	ASA does not start DPD when phase 1 up but phase 2 down
CSCtx16166	ASA may not log syslogs 611101, 605005 for asdm sessions to certain int
CSCtx20108	TCP conns between ASA and Websense server disappear over lossy link
CSCtx22242	HTTP TRACE method allowed when EASY-VPN enabled
CSCtx25170	Configuring a network object with an invalid range causes traceback
CSCtx25910	class-map doesn't work after replacing ACL
CSCtx28628	Clientless - VLAN assign't under group-policy breaks tunneled dflt route
CSCtx32455	SunRpc: Change from dynamic ACL to pin-hole mechanism
CSCtx33347	Standby ASA traceback while trying to replicate xlates
CSCtx33853	TCP Proxy TCP Window Size Update gets delayed
CSCtx36026	VPN session failure due to auth handle depletion
CSCtx38644	Webvpn: Can't copy & paste in web portal with IE8 and IE9
CSCtx40951	NAT warning message needs additional information
CSCtx41025	Failed to replicate xlate debug messages not clear

Table 15 **Resolved Caveats in ASA Version 8.4(4.1) (continued)**

Caveat	Description
CSCtx42632	Match option on ISAKMP captures not working
CSCtx42643	Received unexpected event EV_REMOVE in state AM_WAIT_DELETE
CSCtx42746	cut through proxy authentication vulnerability
CSCtx43083	Syslog 199011 "Close on bad channel in process/fiber"
CSCtx47019	ASA reloads and produces Coredump but no crashinfo.
CSCtx57966	ASA5585 8.4.2 Traceback DATAPATH-8-2321 rate_limiter_t from console
CSCtx58556	ActiveX RDP Plugin fails to connect from IE6-9 after upgrade to 8.4(3)
CSCtx59893	Mem leak in occam/unicorn when webvpn smb user-storage connection fails.
CSCtx61116	NAT unreasonably drops all traffic for random source ports with 305006
CSCtx62037	"X-CSTP-Tunnel-All-DNS" not properly set in SMP images for split-dns
CSCtx65353	ASA: 8.4 Page fault traceback while displaying "sh run threat-detection"
CSCtx66538	ASA: Traceback in thread name EAPoUDP
CSCtx68075	ASA WebVPN breaking when Windows Patch KB2585542 is applied
CSCtx69008	ASA: Page Fault traceback in ssh thread when changing IKEv2 config
CSCtx69018	MSFT KB2585542 breaks cut-thru proxy and IUA
CSCtx69059	Traceback in Unicorn Proxy Thread under heavy WebVPN load
CSCtx69498	Traceback when Converting ACL Remarks of 100 Characters
CSCtx70122	ASA traceback in thread fover_parse while upgrading from 8.4.2 to 8.4.3
CSCtx73124	WEBVPN - upload of files larger then 2GB fails through CIFS
CSCtx81792	ASA: OSPF redist with prefix routemap advertises all static after reboot
CSCtx82292	numerous PAT statements cause long boot time
CSCtx82637	tcp-proxy with skinny v17 inspection not allowing 7962 phone to register
CSCtx92801	ASA: Failover due to data channel failure when making IPS config changes
CSCtx98402	ASA Multicontext with shared port-channel interface shutdown error
CSCty01573	Blank page returns when move away from portal using group-url and return
CSCty02513	Standby ASA remains standby after active ASA fails
CSCty05763	ASA5585X PS0 does not send "entity power-supply" trap
CSCty06491	Certificate-map prevents access to group-url with AAA
CSCty07416	Migration of max_conn/em_limit to MPF is not working for dynamic NAT
CSCty11414	ASA Crashes or Simply Reloads With Signal 11 in Unicorn Proxy Thread
CSCty13871	AJAX XML file fails to be processed causing script failure
CSCty13927	ASA: Traceback in ldap_client_thread after changing aaa-server config
CSCty16661	ASA fails to reserve some UDP ports for PAT w/ flow-export destination
CSCty16864	5505 HW vpnclient in NEM + mac-bypass fails negotiating the NEM tunnel
CSCty32412	ASA: Anyconnect u-turn to ipsec tunnel fails
CSCty32558	SNMP power supply sensor values on ASA 5585 oscillate

Table 15 *Resolved Caveats in ASA Version 8.4(4.1) (continued)*

Caveat	Description
CSCty32899	PDP context idle timer is reset when using the TID option in show cmd
CSCty33480	Clientless vpn: Accessing Citrix bookmark reveals DAP configuration
CSCty36034	ASA: Active/Active failover group stuck in Bulk Sync with SIP inspect
CSCty36675	Smarttunneled RDP client on MAC doesn't throw error after incorrect auth
CSCty37057	ASA5585 reloads after adding IPS card due to stale SunRPC action access
CSCty43366	Local CA can be enabled via CLI with Failover enabled
CSCty47140	New Create PDP Ctx Req with TEID 0 should remove pre-existing active PDP
CSCty54051	Bogus IPv6 link-local address is shown on show failover
CSCty54520	Flowplayer URL reference fails
CSCty62526	Password management not working with external group-policy
CSCty63269	Traceback in Thread Name: IKEv2 Daemon
CSCty65474	DAP test Feature broken for Multiple LDAP attributes
CSCty71842	ASA :Traceback while copying via TFTP/ASDM with no Thread Name
CSCty74915	Chassis serial number is incorrect in call-home message on 5585 platform
CSCty75087	dACLs not removed from ASA after AC IKEv2 clients log out
CSCty77132	ASA 5585: Context Failover Slow due to ipv6 Configuration
CSCty81963	ASA sends User-Password RADIUS attribute wrongly with EAP authentication
CSCty84843	ASA not able to install intermediate certificate when using pkcs12
CSCty99200	ASA stops sending PADI for PPPoE when config applied via AUS
CSCtz03292	ASA may reload with traceback related to SSH, PING, DHCP, or IPSEC
CSCtz40094	ASA 8.2.5.27 secondary traceback after the upgrade - Thread Name: snmp

Resolved Caveats in Version 8.4(3)

Table 16 contains resolved caveats in ASA software Version 8.4(3).

If you are a registered Cisco.com user, view more information about each caveat using the Bug Toolkit at the following website:

<http://tools.cisco.com/Support/BugToolkit/>

Table 16 *Resolved Caveats in ASA Version 8.4(3)*

Caveat	Description
CSCsi29725	SIP: options/update_handler do not open pinhole for response
CSCsy68961	ASA 5580 reboots with traceback in threat detection
CSCta94935	show failover shows incorrect interface status when Standby powered off
CSCtc79873	ASA 8.2 may calculate memory usage incorrectly
CSCtc95264	ASA Increase LDAP & DAP max instances per attribute > 999
CSCtd73605	ASA RIP: "no redistribute static" breaks "default-information originate"

Table 16 *Resolved Caveats in ASA Version 8.4(3) (continued)*

Caveat	Description
CSCtd73901	Linkdown, Coldstart SNMP Traps not sent with certain snmp-server config
CSCte01475	EIGRP : static route redistribution with distribute-list not working
CSCte08816	ASA NAT: LU allocate xlate failed error with Twice NAT
CSCtf09840	ENH: Enable Flow Control (Sending Pause Frames) on 1GE Interfaces
CSCtf51346	ASA may leave connection in half-closed state
CSCtg06320	DHCP ACK not sent by the firewall.
CSCtg76404	Traceback in Thread Name: Checkheaps due to logging
CSCth14248	ASA not sending all logging messages via TCP logging
CSCth34278	Clientless WebVPN Memory Leak Causes Blank Page after Authentication
CSCth37641	Write Mem on active ASA 8.3 produces log 742004 on standby
CSCth40316	Unable to edit the privilege level for cmd object & object-group in 8.3
CSCth48476	ASA WebVPN doesnt rewrite URL Encoded Data in Location Response Header
CSCth58048	Assert Failure caused Traceback in Thread Name: Dispatch Unit
CSCth77370	IPv6 : ASA Stops responding to IPv6 ND sollicitation
CSCth96829	IPv6 ACL Allowing IPv4 Addresses
CSCti10186	ASA 8.0.5.9 Standby with a traceback in Thread Name:Checkheaps
CSCti11757	SNMP: ASA responds after two SNMP requests
CSCti16604	ASA fails to delete an existing object in object-group
CSCti29274	Cannot switchover member with two 10G interfaces redundant interface
CSCti54387	ASA 8.2.2.x traceback in Thread Name: Dispatch Unit
CSCti54545	EIGRP metrics will not update properly on ASA
CSCti62667	Connections stay open w/ 'sysopt connection timewait' & NetFlow
CSCtj20724	ASA hitless upgrade from 8.2 to 8.3: upgraded unit reload upon conf sync
CSCtj32735	DAP: Change error message when adding non supported IPv6 or standard ACL
CSCtj76066	L2TPOverIPsecOverNatT public IP displayed in reverse octet order
CSCtj80580	ASA route-map doesn't have correct set metric statement for EIGRP
CSCtk07521	ASA slow response to autocomplete word host in cmd "network-object host"
CSCtk09626	traceback in AAA eip AAA_BindServer+118 during AC connection
CSCtk19285	ASA H323 allow unidirectional OpenLogicalChannel media through
CSCtk84288	Syslog %ASA-7-108006 generated erroneously
CSCtk93754	Change in Layered Object Group Does Not Update NAT Table
CSCtk98431	Slow xlate expiration rate
CSCtl06156	NAT Xlate idle timer doesn't reset with Conn.
CSCtl21765	Cut-through Proxy - Inactive users unable to log out
CSCtl22195	ASA CLI split dns should warn that AnyConnect supports ten (10) entries
CSCtl23397	ASA may log negative values for Per-client conn limit exceeded messg

Table 16 *Resolved Caveats in ASA Version 8.4(3) (continued)*

Caveat	Description
CSCtl41335	ASA traceback when layer-2 adjacent TCP syslog server is unavailable
CSCtl54580	Telnet connection is permitted inappropriately in some situation
CSCtl86184	ASA 8.2 flow control might not work for redundant interfaces
CSCtl93641	ASA: Traceback in fover_parse thread after making NAT changes
CSCtl93907	TCP state bypass flags shown as "b" and "-b"
CSCtn00318	ASA Unexpectedly Reloads with a Traceback due to a Watchdog Failure
CSCtn09117	ASA 8.2.4 402126: CRYPTO: The ASA created Crypto Archive File
CSCtn14091	ASA reuses tcp port too quickly
CSCtn38474	Interface warning on ASA - install the interface in a PCI-e x"nn" slot
CSCtn38584	the packet is discarded when the specific xlate is exist.
CSCtn41118	ASA fails over under intensive single-flow traffic
CSCtn48877	Traceback in fover_FSM_thread with IPv6 failover on SSM-4GE-INC
CSCtn56501	ASA 8.2 Crypto Engine Tracebacks Multiple Times
CSCtn60457	ASA 8.4.1 traceback on thread name ldap_client_thread with kerberos
CSCtn66992	egress ACL packet drops erroneously counted on ingress interface
CSCtn74485	ASA5580 traceback in DATAPATH-7-1353
CSCtn74652	Search query timeout/errors in SAP purchasing portal via clientless
CSCtn77962	Tmatch: Traceback on Primary when adding User Group based ACL
CSCtn93345	ASA Broadview deny lines in NAT exemption ACL are migrated as permits
CSCtn96679	IPv6 HA: Standby uses same Link-Local as ACTIVE if standby IP not cfg'd
CSCtn99124	Dynamic Filter DNS Snooping Database size too small
CSCtn99416	WebVPN: Dropdown menu doesn't work in customized SharePoint 2010
CSCto05449	WebVPN:Ability to configure and show session timer countdown on portal
CSCto06207	ASA 8.4.1 traceback in Thread UserFromCert
CSCto08497	ASA: dynamic-filter database update may trigger cpu-hogs
CSCto08752	ASA traceback in 8.4.1 with memory failure errors on IKE daemon
CSCto11365	ASA: Ldap attributes not returned for disabled account
CSCto16917	DAP terminate msg not showing for clientless, cert only authentication
CSCto23149	Standby ASA sends out IPv6 RA when IPv6 address is configured.
CSCto31425	ASA: L2TP and NAT-T overhead not included in fragmentation calculation
CSCto34150	ASA SMR - multicast packets no longer forwarded upon interface failure
CSCto34573	ASA: 8.3 upgrade to 8.4, Shared VPN Licensing config lost unable to conf
CSCto34823	multicast packets dropped in the first second after session creation
CSCto42990	ASA fails to process the OCSP response resulting in the check failure
CSCto43075	'help clock' output needs to reflect usage of command better
CSCto49160	can not access cifs folder with japanese character

Table 16 *Resolved Caveats in ASA Version 8.4(3) (continued)*

Caveat	Description
CSCto49472	ASA running 8.4.1 does not detect external flash, needs a reload
CSCto50936	SAP Portal - Event Tracking Script fails to display correctly
CSCto53199	Traceback with phone-proxy Thread Name: Dispatch Unit
CSCto62660	ASA 8.4.1 traceback in Thread Name: Unicorn Proxy Thread
CSCto63702	ASA's ARP table will populate with non connected subnets
CSCto67979	ASA with SSM - specifying "sensor vs0" breaks ASA<->IPS configuration
CSCto73569	ASA WebVPN clientless not possible to access ipv6 services on the inside
CSCto76621	FO cluster lic doesn't work if primary reboots while secondary is down
CSCto76775	ASA AC failure due to slow memory leak: "Lua runtime: not enough memory"
CSCto80254	ASA does not send Anyconnect profile when Radius pushes profile
CSCto81636	IPv6 traffic not updated after neighbor changes
CSCto82315	Traceback in Thread Name: gtp ha bulk sync with failover config
CSCto83156	ASA Sequence of ACL changes when changing host IP of object network
CSCto87589	Access-list remarks are lost during migration to 8.3
CSCto87674	ST not injected in mstsc.exe on 32-bit Win 7 when started through TSWeb
CSCto89607	ASA sends invalid XML when tunnel-group name contains &
CSCto96832	Unable to login to SAP application via WebVPN portal
CSCto99389	External Portal Page Macro substitution fails
CSCtq00144	VPN RA session DAP processing fails with memberOf from OpenLDAP
CSCtq07658	ASA: Traceback in ci/console on Standby unit
CSCtq08208	ISAKMP dropped after boot if ASA doesn't have IP address while booting
CSCtq10528	Host listed in object group TD shun exception gest shunned
CSCtq10654	Threat-detecton stats showing incorrect output
CSCtq12037	WebVPN : bytes lost in ftp uploading using IE via smart tunnel
CSCtq13070	DAP VPN-Filter Not Applied When AC Initiated Through Weblaunch
CSCtq15197	WebVPN:flv file within the Flowplayer object is not mangled correctly
CSCtq19611	IPSec - Error message trying to reserve UDP port in Multicontext mod
CSCtq21535	ASA traceback when connecting with Android L2TP/IPsec client
CSCtq27530	Java RDP plugin doesn't work with sslv3 on ASAs
CSCtq27873	AC can not connect to the ASA if the no. of group aliases is >190
CSCtq28561	ASA 8.4 failover, OSPF routing can not update correctly.
CSCtq30051	ASA5580: Mate ASA5580 card in slot 0 is different from mine ASA5580
CSCtq30094	CSD scan happens for SSL VPN when connecting via group alias
CSCtq33081	Traceback during certificate operation in IKEv2 EAP processing
CSCtq34233	ASA traceback in thread emweb/https
CSCtq35045	HA: Monitored interfaces fail to move out of waiting state

Table 16 *Resolved Caveats in ASA Version 8.4(3) (continued)*

Caveat	Description
CSCtq37772	asa 8.2(2) traceback with TN : Unicorn Proxy Thread
CSCtq40553	Unable to remove trustpoint - ERROR: The trustpoint appears to be in use
CSCtq42954	ASA calculates ACL hash incorrectly
CSCtq45177	1550 or 2048 byte block leak due to originate-only keyword in crypto map
CSCtq46808	ASA rebooted unit always become active on failover setup
CSCtq50523	Using non-ASCII chars in interf desc makes the ASA reload with no config
CSCtq52342	OWA 2007 via WebVPN Sessions fail to get notifications of new emails
CSCtq57642	Cannot point IPv6 route to a link-local that matches other intf
CSCtq57752	ASA: IPsec outbound SA data lifetime rekey fails
CSCtq58884	AC 3.0x - LDAP Secondary Auth successfully connects with blank password
CSCtq60450	Degraded Xlate Teardown Performance
CSCtq62572	Webvpn/mus memory leak observed in 8.4.1.63
CSCtq65262	ASA: SSH sessions return extra characters when using CR+LF
CSCtq65479	IKEv2 - ASA does not send intermediate certs for server cert
CSCtq67230	IKEv2 DPD is sent at an interval not correlating to the specified value
CSCtq70326	Interface "description" command allows for more than 200 characters.
CSCtq72776	ASA may reload in threadname Dispatch unit
CSCtq73340	After the interface IP is changed, ASA does not allow UDP 500 to new IP
CSCtq75817	Oracle Jinitiator over WebVPN sends incorrect HTTP request
CSCtq78280	invalid command dhcp client xxx on ASA 8.4
CSCtq79834	ASA traceback due to dcerpc inspection.
CSCtq84364	High CPU and Orphaned SSH session for on ASA 8.3(2.8)
CSCtq84759	ASA wont take "ip audit info action alarm" under "crypto ca" subcommand
CSCtq86859	Traceback in Thread Name: IP SLA Mon Event Processor
CSCtq90084	ASA traceback in thread Dispatch Unit
CSCtq94775	Unable to get block detail about 2048 byte blocks
CSCtq96332	ASA 5505 logs "INVALID_NICNUM" messages to console
CSCtq96616	ASA - LU allocate connection failed with conn-max policy
CSCtq97430	Coverity 100595: FORWARD_NULL in ppp_auth_process_attributes()
CSCtr00315	Active SSH connection orphaned if 'clear config all' is run
CSCtr00526	L2TP over IPsec session fails after IPsec P2 rekey
CSCtr03453	Zimbra email suite not usable through WebVPN
CSCtr03856	Failure to migrate named interfaces in ctx to 8.4 bridge group syntax
CSCtr12176	L2L - IPSEC Backup- Peer list is not rotated/cycled with dual failure
CSCtr12333	Webvpn portal contents disappear once bookmark user-storage is enabled
CSCtr14920	lightview based Modal Elements do not work with webvpn

Table 16 *Resolved Caveats in ASA Version 8.4(3) (continued)*

Caveat	Description
CSCtr15722	Memory fragmentation issue with dscp
CSCtr16184	To-the-box traffic fails from hosts over vpn after upgrade to 8.4.2
CSCtr20809	ICMP inspection permits echo-reply packets with code set to non-zero
CSCtr23854	traceback in Crypto CA during multiple oosp requests
CSCtr23914	ASA: Certificate renewal from same CA breaks SSLVPN
CSCtr26724	ASA threat detection does not show multicast sender IP in statistics
CSCtr27000	ASA fails to send Radius attribute 8 framed IP address for IKEv2
CSCtr27161	EIGRP 'no default-information in' does not work
CSCtr33228	Traceback in Dispatch Unit when replicating xlates to standby
CSCtr36022	Java AJAX session does not work over SSLVPN
CSCtr39013	ASA - panic traceback when issuing show route interface_name
CSCtr44913	ASA 5580 traceback with DATAPATH-2-1024 thread
CSCtr47517	Protocol-Independent Multicast Denial of Service Vulnerability
CSCtr50413	Clientless webvpn remove forward slash in POST Request-URI
CSCtr55374	ASA: asr-group in TFW A/A FO doesn't rewrite dst MAC for IP fragments
CSCtr63071	5585 735XXX syslogs reporting wrong id
CSCtr63101	5585 show environment power output unclear
CSCtr63728	ASA reloads with traceback in Thread Name : Dispatch Unit
CSCtr65785	Enabling AC Essentials should logoff webvpn sess automatically
CSCtr66582	Memory leak on ASA 5585-increase of 1% everyday
CSCtr69771	backslash in username for ftp over webvpn changed to semi-colon
CSCtr72514	ASA: Traceback in telnet/ci thread when running 'show webvpn svc'
CSCtr74940	Active ASA traceback Thread: DATAPATH-3-1290, rip spin_lock_get_actual
CSCtr74983	ASA LDAP support for searching with value range retrieval
CSCtr78703	ASA 8.4.2 http inspection might break certain flows intermittently
CSCtr80605	ASA5580 traceback with Thread name telnet/ci
CSCtr83349	ASA logs "INVALID_NICNUM" messages to console
CSCtr91981	LDAP authentication fails when no RootDSE info returned
CSCtr93086	ASA Failover: 106017 Deny IP due to Land Attack on Normal(Waiting) ifc
CSCtr93621	Show resource usage displays wrong Conns Limit for ASA5580-20
CSCtr94429	ASA: Local-host and all conns are torn down when client hits conn limit
CSCtr96686	Java RDP plugin traceback when using empty user in URL to Win2008 server
CSCtr99598	ASA doesn't classify MIME type correctly for .exe and .dmg in Firefox
CSCts00158	ASA EIGRP route not updated after failover
CSCts07069	ASA: Packet classifier fails with 'any' in Object NAT rule
CSCts07650	Traceback in "clear config all" when active telnet connection exists

Table 16 *Resolved Caveats in ASA Version 8.4(3) (continued)*

Caveat	Description
CSCts09257	Traceback in sch_dispatcher thread
CSCts10797	Webvpn :Support for XFRAME: DENY option in portal
CSCts10887	ASA sends Server Identifier field in DHCP REQUESTS during renewal
CSCts13848	ASA may crash in dns_process
CSCts14130	100% CPU Object Group Search under low traffic due to spin_lock
CSCts15920	ASA: WCCP with authentication fails in 8.3 and 8.4
CSCts18026	ASA 5520 8.2.5 : traceback at thread name snmp
CSCts24804	ASA 5580 DAP Network ACL Errors:user, user-group or FQDN objects
CSCts26909	CPU spikes to 100% and causes traceback when Syslog interface is down
CSCts30839	ASA5510, 8.4(2) - page fault traceback accessing a bookmarked DFS share
CSCts32313	ASA 8.4(1) - mailto for xmpp protocol mail clients fails
CSCts32474	Incorrect time displayed on cut through proxy auth page
CSCts33551	NAT-T compatibility improvement with Windows 7
CSCts35339	Close non-persistent CSD conns
CSCts36777	Manual Redundant Failover Link Switchover Causes a Flap
CSCts41215	NAC Framework - Status Query triggers full Posture Revalidation
CSCts43136	ESMTP drops email with DKIM header
CSCts45638	8.4.2.2: Thread Name: DATAPATH-0-1272 Page fault: Unknown
CSCts46366	Slow memory leak by skinny
CSCts48937	Memory leak in DP udp host logging resulting in 1550 byte blocks leak
CSCts52885	Unexpected packet denials during large ACL compilation
CSCts54522	Inspect PPTP does not change CALL-id for inbound Set-Link-Info Packet
CSCts61811	idfw_nb_process traceback because thread stack appears corrupt
CSCts64849	ASA: 8.3/8.4 no longer logs %ASA-3-713167 syslog for rejected user
CSCts68268	PIX-ASA: Route command should validate next hop IP before accepting
CSCts69531	Traceback in Dispatch Unit on Standby with timeout floating-conn
CSCts72339	L2 table entried for identity i/f not handle properly when add/del i/f
CSCts76258	xlate objects with no associated conns and idle timer > timeout
CSCts80367	AnyConnect 3.0 for Mac gets "Certificate Validation Failure" w/ ASA 8.4
CSCtt00286	ASA5585 Page fault traceback in Thread Name: DATAPATH-5-2312
CSCtt02123	WebVPN: Multiple tracebacks seen in WebVPN in Unicorn Proxy thread
CSCtt02413	DCERPC inspection does not properly fix up port and IP in Map Response
CSCtt02423	ASA: May traceback when adding ipv6 route before enabling ipv6
CSCtt03480	ASA Radius User-Password attribute is not included in Access-Request
CSCtt04614	webvpn - ES keyboard diacritics incorrectly managed by RDP plugin
CSCtt04665	Traceback in Thread Name: IP Address Assign

Table 16 *Resolved Caveats in ASA Version 8.4(3) (continued)*

Caveat	Description
CSCtt07749	ASA is responding to IKE request when in vpnclient mode
CSCtt11835	Traceback in Thread Name: tacplus_snd
CSCtt14922	ASA5585: Redundant interface doesn't switchover on IPS module shutdown
CSCtt18185	ASA traceback cause by Global Policy
CSCtt19760	ASA may traceback in a DATAPATH thread
CSCtt22540	Secondary Auth successfully connects with blank password
CSCtt25173	ASA 5520 8.2.5 memory leak in the inspect/gtp area
CSCtt27599	Standby Firewall traceback citing nat_remove_policy_from_np+383
CSCtt29654	Outbound IPsec traffic interruption after successful Phase2 rekey
CSCtt29810	AAA Command Authorization Reactivates Failed Server on Every Attempt
CSCtt32565	Specific closing sequence may cause ESMTP inspect to hog CPU for 1+ sec
CSCtt34959	ASA and apple L2TP IPsec client disconnects
CSCtt36737	After upgrade, AnyConnect causes 1550 or 2048 block depletion
CSCtt41809	ASASM traceback in DATAPATH-3-2265
CSCtt42405	AnyConnect fails authentication for some passwords with brackets
CSCtt45496	ASA traceback in thread ci/console with names > 48 char in prefix-list
CSCtt96550	ASA - Dispatch unit traceback - snp_nat_xlate_timeout
CSCtu02060	Changing IPv4 FQDN network object to IPv6 FQDN causes traceback
CSCtu07278	Corrupted route-map output for 'config' URL used by ASDM
CSCtu10620	WebVPN:flv file within the Flowplayer object is not played over webvpn
CSCtu19300	ASA may reload with traceback in Thread Name: kerberos_recv
CSCtu25253	'show shared license' after toggle license-server crashed ASA
CSCtu33068	WebVPN URL Mangler does not handle encoded value of "/"
CSCtu34217	High CPU usage during bulk sync on spin_lock used by tmatch lookup
CSCtu34220	High CPU usage during bulk sync when allocating NAT xlate
CSCtu40752	5580: assert failure in thread CP Processing
CSCtu43137	ASA traceback in Thread Name: IKE Daemon
CSCtw35765	Thread Detection Denial Of Service Vulnerability
CSCtw81408	Apple Lion OS L2TP Client behind NAT device does not connect

Resolved Caveats in Version 8.4(2)

Table 17 contains resolved caveats in ASA software Version 8.4(2).

If you are a registered Cisco.com user, view more information about each caveat using the Bug Toolkit at the following website:

<http://tools.cisco.com/Support/BugToolkit/>

Table 17 **Resolved Caveats in ASA Version 8.4(2)**

Caveat	Description
CSCsg26647	CS: undebg all command doesn't disable debug crypto ca server
CSCsy19222	Conns should update when using dynamic protocol and floating statics
CSCsy93944	Traceback on ACL modify: assertion "status" at "stride_terminal_node.c"
CSCtb63515	Clientless webvpn on ASA cannot save .html attached file with IE6 OWA
CSCtd73901	Linkdown, Coldstart SNMP Traps not sent with certain snmp-server config
CSCte08816	ASA NAT: LU allocate xlate failed error
CSCte76002	Low performance over shared vlans in multi-mode
CSCtf96635	Removing HTTP server caused page fault traceback
CSCtg41691	dynamic-filter database update triggers cpu-hog
CSCtg50770	Mngt-access (ASDM,SSH) to inside intf of 5580 fails over RA VPN session
CSCtg99798	ASA Traceback in Thread Name: snmp / checkheaps
CSCth08903	WebVPN: "Invalid Canary" error for different options in OWA 2010
CSCth08965	WebVPN: Bad performance on Internet Explorer 8 for OWA 2010 Premium
CSCth12612	ASA - VPN load balancing is disabled after failover
CSCth35722	WebVPN CIFS: 'Authentication error', when DFS host is not reachable
CSCth35961	WebVPN: Preview mode for emails works improperly for DWA 8.5.1
CSCth77370	IPv6 : ASA Stops responding to IPv6 ND solicitation
CSCth81601	ASA tracebacks in Thread Name: Dispatch Unit
CSCth84519	PIM packet with own source address seen after failover on standby peer
CSCti07859	AC reports 'certificate validation failed' with VPN LB intermittently
CSCti11757	SNMP: ASA responds after two SNMP requests
CSCti13482	BG: Same MAC-address not allowed in two different bridge groups
CSCti16604	ASA fails to delete an existing object in object-group
CSCti26874	Control-plane feature not working for https traffic to-the-box
CSCti34213	The file name is garbled as downloading through SSLVPN and CIFS.
CSCti54545	EIGRP metrics will not update properly on ASA
CSCti88463	WebVPN: Empty emails content for OWA 2010 through Firefox
CSCti89628	ARP table not updated by failover when interface is down on standby
CSCtj14005	Traceback with thread name netfs_thread_init
CSCtj16627	DAP:Control access of AnyConnect Apple iOS Mobile without CSD

Table 17 *Resolved Caveats in ASA Version 8.4(2) (continued)*

Caveat	Description
CSCtj20691	ASA traceback when using a file management on ASDM
CSCtj25717	CPU Hog in "NIC status poll" when failing over redundant intf members
CSCtj29076	ASR trans FW rewrites wrong dst. MAC when FO peers active on same ASA
CSCtj37404	Traceback in mmp inspection when connecting using CUMA proxy feature.
CSCtj45688	ASA: SYN may change close-wait conn to SYN state
CSCtj47335	Problems with Intranet Page displaying when defined as Home Page w/ASA
CSCtj48788	Page fault traceback on standby in QOS metrics during idb_get_ifc_stats
CSCtj50580	ASA - VPN outbound traffic stalling intermittently after phase 2 rekey
CSCtj55822	ASA webvpn; certain ASP elements may fail to load/display properly
CSCtj58420	Failed to update IPsec failover runtime data on the standby unit
CSCtj62266	ldap-password-management fails if user password contained & (ampersand)
CSCtj73930	IPsec/TCP fails due to corrupt SYN ACK from ASA when SYN has TCP option
CSCtj77222	WebVPN: ASA fails to save HTTP basic authentication credential
CSCtj77909	ASA: multiple rules in Name Constraints certificate extension fails
CSCtj78200	certificate name constraints parsing fails when encoding is IA5String
CSCtj78425	Customers Application HQMS being broken by Webvpn Rewriter
CSCtj79795	WebVPN:flv file within the Flowplayer object is not played over webvpn
CSCtj83995	ASA - no names applied to the config when refreshing the config on ASDM
CSCtj84665	Primary stays in Failed state while all interfaces are up
CSCtj85005	ASA as EasyVPN Client failure on WAN IP Change when using 'mac-exempt'
CSCtj90315	Traceback in transparent mode due to tcp reset
CSCtj93922	Standby unit sends ARP request with Active MAC during config sync
CSCtj95695	Webvpn: Java-Trustpoint cmd error, doesn't accept MS code-signing cert
CSCtj96108	Group enumeration possible on ASA
CSCtj97800	a space inserted behind video port number after SIP inspect with PAT on
CSCtk00068	Watchdog timeout traceback following "show route"
CSCtk04293	Webvpn, SSO with Radius, CSCO_WEBVPN_PASSWORD rewritten with OTP, 8.3
CSCtk10185	OWA login page strip "\" from "domain\username"
CSCtk10911	HA replication code stuck - "Unable to sync configuration from Active"
CSCtk12556	timeout command for LDAP in aaa-server section doesn't work
CSCtk12864	Memory leak in occam new arena
CSCtk15258	ASA traceback in Thread Name:radius_rcv_auth
CSCtk15538	IKE Session : Cumulative Tunnel count always shows Zero
CSCtk34526	SSH processes stuck in ssh_init state
CSCtk54282	Webvpn memory pool may report negative values in "% of current" field.

Table 17 *Resolved Caveats in ASA Version 8.4(2) (continued)*

Caveat	Description
CSCtk61257	ASA locks up port with mus server command
CSCtk62536	WebVPN incorrectly rewrite logout link of Epic app through Firefox
CSCtk63515	MUS debugs are running with no mus configured
CSCtk84716	IKE proposal for L2TP over IPsec global IKE entry match is duplicated
CSCtk95435	ASA rewriter: radcontrols based AJAX/ASP website not working properly
CSCtk96848	snmpwalk for crasLocalAddress reports: No Such Instance currently exists
CSCtl05205	Error entering object group with similar name as network object
CSCtl06889	Failover interface monitoring only works with the first ten interfaces.
CSCtl09314	"clear conn" behaviour is inconsistent with "show conn"
CSCtl10398	Traceback in Dispatch Unit due to dcerpc inspection
CSCtl10877	ASA reload in thread name rtcli when removing a plugin
CSCtl17877	SSL handshake - no certificate for uauth users after 8.2.3 upgrade
CSCtl18462	ASA not posting correct link with Protegent Surveillance application
CSCtl20963	DAP ACL in L2TP doesn't get applied after successful connection
CSCtl20966	The javascript is truncated when accessing via WebVPN portan on ASA
CSCtl21314	vpn-filter removed incorrectly from ASP table with EzVPN hw clients
CSCtl21765	Cut-through Proxy - Inactive users unable to log out
CSCtl51919	ASA 8.3 with Static NAT - passes traffic with translated IP in the acl
CSCtl54976	Redundant switchover occurs simultaneously on failover pair
CSCtl56719	Default "username-from-certificate CN OU" doesn't work after reload
CSCtl57784	ASA TCP sending window 700B causing CSM deployment over WAN slow
CSCtl58069	ASA - Traceback in thread DATAPATH-6-1330
CSCtl66155	Invalid internal Phone Proxy trustpoint names generated by imported CTL
CSCtl66339	Traceback in DATAPATH-2-1361, eip snp_fp_punt_block_free_cleanup
CSCtl72355	ASA WEBVPN: POST plugin - Can not find server .plugins. or DNS error
CSCtl74435	VPN ports not removed from PAT pool
CSCtl86372	IKE fails to initialize when minimal data is sent to pub int.
CSCtl87114	'show mem' reports erroneous usage in a virtual context
CSCtl95958	Timeout needs twice time of configured timeout for LDAP in aaa-server
CSCtn01794	IPv6 ping fails when ping command includes interface name.
CSCtn02684	ASA SAP purchasing app may display incorrectly over webvpn
CSCtn07431	L2L IPv6 tunnel with failover not supported Syslog Broken
CSCtn08326	ESMTP Inspection Incorrectly Detects End of Data
CSCtn09117	ASA 8.2.4 402126: CRYPTO: The ASA created Crypto Archive File
CSCtn11061	ASA 5520 traceback in thread emweb/https
CSCtn20148	EIGRP default-route is not displayed w/ "ip default-route" route removed

Table 17 *Resolved Caveats in ASA Version 8.4(2) (continued)*

Caveat	Description
CSCtn25702	URLs in Hidden Input Fields not Rewritten Across WebVPN
CSCtn27365	ASDM causes traceback during context creation
CSCtn40210	FTP transfer fails on Standby ASA - uses wrong IP add. in PORT command
CSCtn41118	ASA fails over under intensive single-flow traffic
CSCtn42704	One-to-many NAT with "any" interface not working with PPTP and FTP
CSCtn53896	ASA: police command with exceed-action permit will not replicate to Stby
CSCtn57080	Bookmark macro in post parameters is not replaced with correct user/pass
CSCtn60457	ASA 8.4.1 traceback on thread name ldap_client_thread with kerberos
CSCtn61148	ASA stops handling ikev2 sessions after some time
CSCtn65995	ASA(8.3) adds a trailing space to the object name and the description
CSCtn69941	VPN ports not removed from PAT pool (UDP cases)
CSCtn74649	BTF DNS-Snooping TTL maxes out at 24 hours, less than actual TTL
CSCtn74652	Search query timeout/errors in SAP purchasing portal via clientless
CSCtn75476	ASA Traceback in Thread Name: snmp
CSCtn79449	Traceback: Thread Name: DATAPATH-3-1276
CSCtn80637	"Clear conf all" reboots ASA with EIGRP authentication key configuraiton
CSCtn80920	LDAP Authorization doesn't block AccountExpired VPN RA user session
CSCtn84047	ASA: override-account-disable does not work without password-management
CSCtn84312	AnyConnect DTLS Handshake failure during rekey causes packet loss
CSCtn89300	ASA: Memory leak in PKI CRL
CSCtn90643	Traceback while replicating xlates on standby
CSCtn93052	WebVPN: Office WebApps don't work for SharePoint 2010 in IE
CSCtn93345	ASA Broadview deny lines in NAT exemption ACL are migrated as permits
CSCtn96841	"ip local pool" incorrectly rejected due to overlap with existing NAT
CSCtn99847	Easy VPN authentication may consume AAA resources over time
CSCto05036	DTLS handshake fails on ASA when client retransmits ClientHello
CSCto05478	asa traceback on 8.3.2.13 Thread Name: Dispatch Unit
CSCto05640	call-home config auto repopulates after reboot
CSCto08752	ASA traceback in 8.4.1 with memory failure errors on IKE daemon
CSCto09465	FTP transfers fail with NAT configured on multi-core ASAs (5580/5585)
CSCto11365	ASA: Ldap attributes not returned for disabled account
CSCto14043	ASA may traceback when using trace feature in capture
CSCto15003	ASA 8.4.1 traceback in Thread Name: ssh with Page fault
CSCto16917	DAP terminate msg not showing for clientless, cert only authentication
CSCto23713	ASA uses a case-sensitive string compare with IBM LDAP server
CSCto34573	ASA: 8.3 upgrade to 8.4, Shared VPN Licensing config lost unable to conf

Table 17 *Resolved Caveats in ASA Version 8.4(2) (continued)*

Caveat	Description
CSCto48254	ASA reset TCP socket when RTP/RTCP arrives before SIP 200 OK using PAT
CSCto49499	HA: Failover LU xmit/rcv statistics is different on Active and Standby
CSCto62499	OSPF Failover causes 5 second convergence delay
CSCto62660	ASA 8.4.1 crashed in Thread Name: Unicorn Proxy Thread
CSCto80254	ASA does not send Anyconnect profile when Radius pushes profile
CSCto82315	Traceback in Thread Name: gtp ha bulk sync with failover config
CSCto83156	ASA Sequence of ACL changes when changing host IP of object network
CSCto87674	ST not injected in mstsc.exe on 32-bit Win 7 when started through TSWeb
CSCto96832	Unable to login to SAP application via WebVPN portal
CSCto99389	External Portal Page Macro substitution fails
CSCtq00144	VPN RA session DAP processing fails with memberOf from OpenLDAP
CSCtq10528	Host listed in object group TD shun exception gest shunned

Resolved Caveats in Version 8.4(1)

Table 18 contains resolved caveats in ASA software Version 8.4(1).

If you are a registered Cisco.com user, view more information about each caveat using the Bug Toolkit at the following website:

<http://tools.cisco.com/Support/BugToolkit/>

Table 18 *Resolved Caveats in ASA Version 8.4(1)*

Caveat	Description
CSCeg69627	DHCPD: show binding should display client-id instead of hw address
CSCsk97762	ENH: Allow DCERPC inspect to open pin-holes for WMI queries. non epm map
CSCsw15355	ASA may crash when executing packet-tracer via console/ssh/telnet
CSCtc12240	Webvpn- rewrite : ASA inserts lang=VBScript incorrectly
CSCtc32872	TFW ENH: Management interface should operate in routed mode
CSCtc40183	8.2.1.11 Webvpn not able to show dropdowns items written in javascripts
CSCtd02193	Heap memory head magic verification failed on asdm access
CSCtd71913	WebVPN Application Access page not displayed if AES chosen
CSCte55834	sev1 syslog seen after three failed authentication attempts
CSCte79575	ASA: TFW sh fail output shows Normal(waiting) when Sec unit is act
CSCtf01287	SSH to the ASA may fail - ASA may send Reset
CSCtf06303	Citrix plugin error with HTTPBrowserAddress parameter
CSCtf13774	ASA Traceback Thread Name: Dispatch Unit
CSCtf23147	ASA/PIX may generate an ACK packet using TTL received by sender
CSCtf25270	PP: MTA can be replaced with static/dynamic route

Table 18 *Resolved Caveats in ASA Version 8.4(1) (continued)*

Caveat	Description
CSCtf28466	ASA Fails to assign available addresses from local pool
CSCtf50185	when doing DTLS rekey, AC may get disconnected with reason idle-timeout
CSCtf52903	Wrong url message is generated when access to group-url ended with "/"
CSCtf99449	Traceback in thread name Dispatch Unit
CSCtg09840	debug webvpn response does not generate any output
CSCtg22656	ASA local CA: not redirected to cert download page when user first login
CSCtg31015	EIGRP bandwidth value listed incorrectly for SFP gig link on SSM-4GE
CSCtg41163	ASA:high memory usage seen on ASA version 8.0.x onwards
CSCtg45489	Access List for L2L "show crypt ipsec sa" blank after FO and rekey
CSCtg65421	CIFS SSO fails with non-ASCII characters in username or password
CSCtg66583	RIP denial of service vulnerability
CSCtg74608	WEBVPN: PDF form button doesn't work with secure link
CSCtg78505	Cannot SSH to ASA after making changes to webvpn portal via ASDM
CSCtg80816	Clientless WebVPN: DWA 8.0.2 fails to forward attachments
CSCtg86810	show run all command causes SSH session hang
CSCtg89586	RTSP is not translating the client-ports correctly
CSCtg90646	ASA - webtype ACLs are not replicated to the standby
CSCtg94369	ASA 8.3 reboots after installing memory upgrade and copying file
CSCth06056	CWA doesn't login with IE 7 and IE8 or render properly with FireFox 3.x
CSCth09546	ASA 8.3 cut-through-proxy behavior change when authenticating to ASA ip
CSCth11779	ASA sends invalid XML when group-alias contains &
CSCth24465	show nat command shows incorrect line numbers for NAT config lines
CSCth26474	Inspection triggers block depletion resulting in traffic failure
CSCth28251	ASA:UDP conns not properly reclassified when tunnel bounces
CSCth31814	Changing interface config to dhcp will add AAA cmd and break EasyVPN
CSCth38721	Timer error on console not useful: init with uninitialized master
CSCth42526	ASA:vpn-sessiondb logoff ipaddress <peer> does not clear tunnelled flows
CSCth42839	show conn port functionality change
CSCth43128	ASA WebVPN : Forms don't get saved in CRM due to no pop-up
CSCth48178	ha :Watchdog fover_FSM_thread during failover IPv6 on SSM-4GE-INC
CSCth49826	Traceback in Unicorn Proxy Thread, address not mapped
CSCth56065	DAP_ERROR:...dap_add_csd_data_to_lua: Unable to load Host Scan data:
CSCth60460	"show service-policy inspect <engine>" may leak 16384 bytes per output
CSCth63101	ASA HTTP response splitting on /+CSCOE+/logon.html
CSCth67419	WebVPN - rewriter interprets "application/pdf" as generic link
CSCth67506	ST not injected in mstsc.exe on 64-bit Win 7 when started through TSWeb

Table 18 *Resolved Caveats in ASA Version 8.4(1) (continued)*

Caveat	Description
CSCth68948	Memory not released after EZVPN client with cert fails authentication
CSCth72642	NAT on 8.3 fails during RPF check
CSCth75120	ASA 8.3; vpn db; IP information not consistent with previous versions
CSCth79877	ASA traceback due to memory corruption
CSCth85185	WebVPN: DWA 8.0.2 will hung up for message forwarding process
CSCth89217	After failover, CPU-hog and send out ND packet using Secondary MAC
CSCth91572	per-client-max and conn-max does not count half-closed connections
CSCth97330	MS-CHAP-Response generated by ASA has incorrect flags (0x11)
CSCti00289	ASA (8.3.1.9) traceback in Thread Name: DATAPATH-5-1315
CSCti03135	Search using Dojo Toolkit fails across WebVPN with 404 Error
CSCti06385	ASA XSS on /+CSCOE+/portal.html webvpnLang variable
CSCti06749	ASA: Session Cookies not Marked Secure
CSCti09288	crashed Thread Name: lu_rx - gtp_lu_process_pdpmcb_info
CSCti09672	vpn-access-hours does not work if client authenticated by certificate
CSCti16527	WEBVPN: Copying >2 GB files fails through CIFS
CSCti20506	Transparent fw w/ASR group sets dstMAC to other ctx for last ACK for 3WH
CSCti21427	Webvpn Customization, DfltCustomization form-order XML error
CSCti22636	"failover exec standby" TACACS+ authorization failure
CSCti24526	Flood of random IPv6 router advertisements causes high CPU and DoS
CSCti24787	Traceback: watchdog in tmatch_release_actual with large tmatch tree
CSCti26495	NAT portlist with failover enabled triggers tmatch assert
CSCti30663	TS Web AppSharing stops working across WebVPN in 8.3.2
CSCti34942	Changing configuration on FT INT not possible after disabling failover
CSCti35310	ISAKMP Phase 1 failure from Remote->ASA with default Phase 1 Values
CSCti35966	Traceback Thread Name: IKE Daemon Assert
CSCti37845	ASA - failover - packet loss when hw-mod reset of SSM mod in fail-open
CSCti38496	ASA SIP inspection does not rewrite with interface pat
CSCti39571	re-enter ipv6 enable does not bring back RRI routes
CSCti39588	invalid ipv6 RRI routes remains after crypto acl changes
CSCti41422	VPN-Filter rules not being cleared even after all vpn sessions gone.
CSCti42879	ASA Crash in thread Dispatch Unit when executing command alias via https
CSCti43193	webvpn-other: assert crash Thread Name: Unicorn Proxy Thread
CSCti43763	Management connection fail after multiple tries with SNMP connections.
CSCti47991	timed mode does not fallback to LOCAL if all aaa server are FAILED
CSCti49212	interface command on vpn load-balancing should be shown
CSCti56362	ASA/ASDM history shows total SSL VPN sessions for clientless only

Table 18 *Resolved Caveats in ASA Version 8.4(1) (continued)*

Caveat	Description
CSCti57516	ASA traceback when assigning priv level to mode ldap command "map-value"
CSCti57626	IUA Authentication appears to be broken
CSCti57825	ASA L2L VPN Negative packet encapsulation figures
CSCti62191	ASA traceback in Thread Name: emweb/https when DAP has IPv6 acl on it
CSCti62358	TFW mode regens cert every time 'no ip address' applied to mgmt int
CSCti65237	slow mem leak in ctm_sw_generate_dh_key_pair
CSCti70936	PKI session exhaustion
CSCti72411	ASA 8.2.3 may not accept management connections after failover
CSCti74419	Standby ASA may traceback in IKE Daemon while deleting a tunnel
CSCti76899	rtcli: traceback in rtcli async executor process, eip ci_set_mo
CSCti77545	ASA 5550 8.3.2 crashed in Thread Name: OSPF Router
CSCti87144	L2L traffic recovery fails following intermediary traffic disruption
CSCti88676	ASA Captures will not capture any traffic when match icmp6 is used
CSCti90767	ASA 5505 may traceback when booting with an AIP SSC card installed
CSCti92851	Deleting group-policy removes auto-signon config in other group-policies
CSCti93910	ASA automatically enables the 'service resetoutside' command
CSCti94480	Orphaned SSH sessions and High CPU
CSCti98855	Traceback in IKE Timekeeper
CSCti99476	Email Proxy leaking 80 block w/ each email sent
CSCtj01814	page fault traceback in IKE Daemon
CSCtj03800	Second L2TP session disconnects first one if NATed to the same public IP
CSCtj09945	Host Scan with Blank OU field in personal cert causes DAP to fail
CSCtj15898	ASA webvpn "cisco_HTML" may be added to form
CSCtj19221	SYSLOG message 106102 needs to show Username for DAP/vpn-filter
CSCtj28057	Quitting "show controller" command with 'q' degrades firewall performance
CSCtj36804	Cut-through proxy sends wrong accounting stop packets
CSCtj43084	Tmatch insert and remove from datapath via NAT portlist causes crash
CSCtj46900	Last CSD data element is not being loaded into DAP
CSCtj60839	WebVPN vmware view does not work after upgrade to ASA 8.2.3 and 8.3.2
CSCtj62266	ldap-password-management fails if user password contained & (ampersand)
CSCtj68188	Traceback in Thread Name: ldap_client_thread
CSCtj96230	H225 keepalive ACK is dropped

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http://www.cisco.com/en/US/docs/general/warranty/English/EU1KEN_.html

Related Documentation

For additional information on the ASA, see *Navigating the Cisco ASA Series Documentation*:

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