



Release Notes for Cisco Secure Access Control System 5.8

Revised: October 5, 2018

This release notes pertain to the Cisco Secure Access Control System (ACS), Release 5.8, hereafter referred to as ACS 5.8. This release notes describes the features, limitations and restrictions (caveats), and related documentation for Cisco Secure ACS. The release notes supplement the Cisco Secure ACS documentation that is included with the product hardware and software release.

Note: ACS 5.8 and ACS 5.8.1 releases are functionally equivalent, except that the ACS 5.8.1 release supports additional hardware platforms. These two releases leverage common patches and the details for patches included in this document apply to both ACS 5.8 and 5.8.1 releases.

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Introduction

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Introduction

ACS is a policy-driven access control system and an integration point for network access control and identity management.

The ACS 5.8 software runs on a dedicated Cisco SNS-3495 appliance, on a Cisco SNS-3415 appliance, on a Cisco 1121 Secure Access Control System (CSACS-1121) or on a VMware server. ACS 5.8 ships on Cisco SNS-3495 and Cisco SNS-3415 appliances. However, ACS 5.8 continues to support CSACS-1121 appliance. For more information on upgrade paths, see [Upgrading Cisco Secure ACS Software, page 14](#).

This release of ACS provides new and enhanced functionality. Throughout this document, Cisco SNS-3495, Cisco SNS-3415 and CSACS-1121 refer to the appliance hardware, and ACS server refers to ACS software.

System Requirements

- [Supported Hardware, page 3](#)
- [Supported Virtual Environments, page 5](#)
- [Supported Browsers, page 5](#)
- [Supported Device and User Repositories, page 9](#)

Note: For more details on Cisco Secure ACS hardware platform and installation, see the Installation and Upgrade Guide for Cisco Secure Access Control System 5.8.

Note: No third-party software such as anti-virus or anti-malware, is supported in Cisco Secure ACS.

System Requirements

Supported Hardware

Cisco Secure ACS 5.8 ships on the following platforms:

Table 1 Supported Hardware Platforms

| Hardware Platform | Configuration |
|---|--|
| Cisco SNS-3495-K9 (Large UCS) | <ul style="list-style-type: none"> ■ Cisco UCS C220 M3 ■ Dual socket Intel E5-2609 2.4Ghz CPU 8 total cores, 8 total threads ■ 32 GB RAM ■ 2 x 600-GB disks ■ RAID 0+1 ■ 4 GE network interfaces |
| Cisco SNS-3415-K9 (Small UCS) | <ul style="list-style-type: none"> ■ Cisco UCS C220 M3 ■ Single socket Intel E5-2609 2.4Ghz CPU 4 total cores, 4 total threads ■ 16 GB RAM ■ 1 x 600-GB disk ■ Embedded Software RAID 0 ■ 4 GE network interfaces |
| Cisco 1121 Secure Access Control System Hardware (CSACS-1121) | <ul style="list-style-type: none"> ■ Intel Core 2 Duo 2.4-GHz processor with an 800-MHz front side bus (FSB) and 2 MB of Layer 2 cache. ■ 4GB SDRAM ■ 2 x 250-GB SATA disks ■ 4 x 1 GB network interface |
| Cisco Secure ACS-VM-K9 (VMware) | <ul style="list-style-type: none"> ■ 2 CPUs (dual CPU, Xeon, Core2 Duo or 2 single CPUs) ■ 4 to 64 GB RAM ■ NIC—1 GB NIC interface required (You can install up to 4 NICs.) ■ For supported VMware versions, see Supported Virtual Environments, page 5. ■ For information on VMware requirements, see Installation and Upgrade Guide for Cisco Secure Access Control System 5.8. |

System Requirements

Cisco Secure ACS 5.8.1 supports the following two additional platforms in addition to the above mentioned hardware platforms:

Table 2 Hardware Platforms Additionally Supported by ACS 5.8.1

| Hardware Platform | Configuration |
|-------------------|--|
| Cisco SNS-3595-K9 | <ul style="list-style-type: none"> ■ Cisco UCS C220 M4 ■ Dual socket Intel Xeon E5-2640 v3 series CPU @ 2.60GHz, 8 total cores, 8*2 total threads ■ 64 GB RAM ■ 4 x 600-GB disks ■ RAID 10 ■ 6 GbE network interfaces |
| Cisco SNS-3515-K9 | <ul style="list-style-type: none"> ■ Cisco UCS C220 M4 ■ Single socket Intel Xeon E5-2620 v3 series CPU @ 2.40GHz, 6 total cores, 6*2 total threads ■ 16 GB RAM ■ 1 x 600-GB disks ■ Embedded Software RAID 0 ■ 6 GbE network interfaces |

For more information about the supported hardware platforms for ACS 5.8.1, see [Release Notes for Cisco Secure Access Control System 5.8.1](#).

Note: Cisco recommends you to use more than a 4GB RAM platform for a deployment that has more than 100,000 devices. ACS runtime crashes when you use a machine with 4GB RAM or less in a deployment that has more than 100,000 devices.

System Requirements

Supported Virtual Environments

ACS 5.8 supports the following VMware versions:

- VMware ESXi 5.5
- VMware ESXi 5.5 Update 1
- VMware ESXi 5.5 Update 2
- VMware ESXi 5.5 Update 3
- VMware ESXi 6.0
- VMware ESXi 6.0 Update 2
- VMware ESXi 6.0 Update 3 (validated with ACS 5.8 patch 9)

For information on VMware machine requirements and installation procedures, see the “[Installing ACS in a VMware Virtual Machine](#)” chapter in the *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8*.

Supported Browsers

You can access the ACS 5.8 administrative user interface using the following browsers:

- MAC OS
 - Mozilla Firefox version 40.x
 - Mozilla Firefox version 41.x
 - Mozilla Firefox version 42.x
 - Mozilla Firefox version 43.x
 - Mozilla Firefox version 44.x
 - Mozilla Firefox version 45.x
 - Mozilla Firefox version 46.x (supported only after installing ACS 5.8 patch 3 or later)
 - Mozilla Firefox version 47.x
 - Mozilla Firefox version 48.x
 - Mozilla Firefox version 49.x
 - Mozilla Firefox version 50.x
 - Mozilla Firefox version 51.x
 - Mozilla Firefox version 52.x (supported only after installing ACS 5.8 patch 7 or later)
 - Mozilla Firefox version 53.x (supported only after installing ACS 5.8 patch 8)
 - Mozilla Firefox version 54.x
 - Mozilla Firefox version 55.x (supported only after installing ACS 5.8 patch 9 or later)
 - Mozilla Firefox version 56.x

System Requirements

- Mozilla Firefox version 57.x
 - Mozilla Firefox version 58.x
 - Mozilla Firefox version 60.x (supported only after installing ACS 5.8 patch 10 or later)
 - Mozilla Firefox version 61.x (supported only after installing ACS 5.8 patch 10 or later)
 - Mozilla Firefox version 62.x (supported only after installing ACS 5.8 patch 10 or later)
 - Mozilla Firefox version 38.2.0 ESR
 - Mozilla Firefox version 45.0.2 ESR
 - Mozilla Firefox version 45.4 ESR
 - Mozilla Firefox version 45.5 ESR
 - Mozilla Firefox version 45.6 ESR
 - Mozilla Firefox version 45.7 ESR
 - Mozilla Firefox version 45.8 ESR (supported only after installing ACS 5.8 patch 8)
 - Mozilla Firefox version 45.9 ESR
 - Mozilla Firefox version 52.0 ESR
 - Mozilla Firefox version 52.1 ESR
 - Mozilla Firefox version 52.2 ESR
 - Mozilla Firefox version 52.3.0 ESR (supported only after installing ACS 5.8 patch 9)
 - Mozilla Firefox version 52.4.0 ESR
 - Mozilla Firefox version 52.5.0 ESR
 - Mozilla Firefox version 52.6.0 ESR
 - Mozilla Firefox version 60.2.2 ESR (supported only after installing ACS 5.8 patch 10 or later)
- Windows 7 32-bit and Windows 7 64-bit
- Internet Explorer version 11.x
 - Mozilla Firefox version 38.x
 - Mozilla Firefox version 39.x
 - Mozilla Firefox version 40.x
 - Mozilla Firefox version 41.x
 - Mozilla Firefox version 42.x
 - Mozilla Firefox version 43.x
 - Mozilla Firefox version 44.x
 - Mozilla Firefox version 45.x
 - Mozilla Firefox version 46.x (supported only after installing ACS 5.8 patch 3 or later)

System Requirements

- Mozilla Firefox version 47.x
- Mozilla Firefox version 48.x
- Mozilla Firefox version 49.x
- Mozilla Firefox version 50.x
- Mozilla Firefox version 51.x
- Mozilla Firefox version 52.x (supported only after installing ACS 5.8 patch 7 or later)
- Mozilla Firefox version 53.x (supported only after installing ACS 5.8 patch 8)
- Mozilla Firefox version 54.x
- Mozilla Firefox version 55.x (supported only after installing ACS 5.8 patch 9)
- Mozilla Firefox version 56.x
- Mozilla Firefox version 57.x
- Mozilla Firefox version 58.x
- Mozilla Firefox version 60.x (supported only after installing ACS 5.8 patch 10 or later)
- Mozilla Firefox version 61.x (supported only after installing ACS 5.8 patch 10 or later)
- Mozilla Firefox version 62.x (supported only after installing ACS 5.8 patch 10 or later)
- Mozilla Firefox version 38.1.0 ESR
- Mozilla Firefox version 38.2.0 ESR
- Mozilla Firefox version 45.0.2 ESR
- Mozilla Firefox version 45.4 ESR
- Mozilla Firefox version 45.5 ESR
- Mozilla Firefox version 45.6 ESR
- Mozilla Firefox version 45.7 ESR
- Mozilla Firefox version 45.8 ESR (supported only after installing ACS 5.8 patch 8)
- Mozilla Firefox version 45.9 ESR
- Mozilla Firefox version 52.0 ESR
- Mozilla Firefox version 52.1 ESR
- Mozilla Firefox version 52.2 ESR
- Mozilla Firefox version 52.3.0 ESR (supported only after installing ACS 5.8 patch 9)
- Mozilla Firefox version 52.4.0 ESR
- Mozilla Firefox version 52.5.0 ESR
- Mozilla Firefox version 52.6.0 ESR
- Mozilla Firefox version 60.2.2 ESR (supported only after installing ACS 5.8 patch 10 or later)

System Requirements

- Windows 8.x
 - Internet Explorer version 11.x
 - Mozilla Firefox version 40.x
 - Mozilla Firefox version 41.x
 - Mozilla Firefox version 42.x
 - Mozilla Firefox version 43.x
 - Mozilla Firefox version 44.x
 - Mozilla Firefox version 45.x
 - Mozilla Firefox version 46.x (supported only after installing ACS 5.8 patch 3 or later)
 - Mozilla Firefox version 47.x
 - Mozilla Firefox version 48.x
 - Mozilla Firefox version 49.x
 - Mozilla Firefox version 50.x
 - Mozilla Firefox version 51.x
 - Mozilla Firefox version 52.x (supported only after installing ACS 5.8 patch 7 or later)
 - Mozilla Firefox version 53.x (supported only after installing ACS 5.8 patch 8)
 - Mozilla Firefox version 54.x
 - Mozilla Firefox version 55.x (supported only after installing ACS 5.8 patch 9)
 - Mozilla Firefox version 56.x
 - Mozilla Firefox version 57.x
 - Mozilla Firefox version 58.x
 - Mozilla Firefox version 60.x (supported only after installing ACS 5.8 patch 10 or later)
 - Mozilla Firefox version 61.x (supported only after installing ACS 5.8 patch 10 or later)
 - Mozilla Firefox version 62.x (supported only after installing ACS 5.8 patch 10 or later)
 - Mozilla Firefox version 38.2.0 ESR
 - Mozilla Firefox version 45.0.2 ESR
 - Mozilla Firefox version 45.4 ESR
 - Mozilla Firefox version 45.5 ESR
 - Mozilla Firefox version 45.6 ESR
 - Mozilla Firefox version 45.7 ESR
 - Mozilla Firefox version 45.8 ESR (supported only after installing ACS 5.8 patch 8)
 - Mozilla Firefox version 45.9 ESR

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- Mozilla Firefox version 52.0 ESR
- Mozilla Firefox version 52.1 ESR
- Mozilla Firefox version 52.2 ESR
- Mozilla Firefox version 52.3.0 ESR (supported only after installing ACS 5.8 patch 9)
- Mozilla Firefox version 52.4.0 ESR
- Mozilla Firefox version 52.5.0 ESR
- Mozilla Firefox version 52.6.0 ESR
- Mozilla Firefox version 60.2.2 ESR (supported only after installing ACS 5.8 patch 10 or later)

Note: Adobe Flash Player 11.2.0.0 or above must be installed on the system running the client browser.

Note: When you import or export a .csv file from ACS 5.x, you must turn off the pop-up blocker.

Supported Device and User Repositories

For information on supported devices, 802.1X clients, and user repositories, see [Supported and Interoperable Devices and Software for Cisco Secure Access Control System 5.8](#).

New Features in ACS 5.8 Release

The following sections briefly describe the new features in the 5.8 release:

- [Active Directory Enhancements, page 9](#)
- [Authenticating Administrators against RADIUS Identity and RSA SecurID Servers, page 11](#)
- [Exporting Policies from ACS Web Interface, page 11](#)
- [Changing Internal User Passwords using REST API, page 11](#)
- [Internal Administrator Password Hashing, page 11](#)
- [EAP-FAST Authentications with Cisco IP Phone, page 11](#)
- [FIPS 140-2 Level 1 Compliance, page 11](#)

Active Directory Enhancements

ACS 5.8 web interface includes the following new options in the Active Directory page:

- **Advanced Tuning**—The advanced tuning feature provides node-specific changes and settings to adjust parameters deeper in the system. This tab allows configuration of preferred Domain Controllers, Global Catalogs, Domain Controller fail over parameters, and timeouts. This page also provides troubleshooting options such as disabling encryption. These settings are not intended for normal administration flow and should be used only under Cisco Support guidance.
- **Authentication Domains**—This option allows you to restrict ACS to a subset of authentication domains while interacting with the Active Directory deployments. Configuring authentication domains enables you to select specific domains so that the authentications are performed against the selected domains only. Authentication domains improve security because they instruct ACS to authenticate users only from selected domains and not from all trusted domains.

New Features in ACS 5.8 Release

- **Diagnostic Tool**—The Diagnostic Tool is a service that runs on every Cisco ACS node. It allows you to automatically test and diagnose the Active Directory deployment and execute a set of tests to detect issues that may cause functionality or performance failures when ACS uses Active Directory. It helps you to detect the problems with networking, firewall configurations, clock sync, user authentication, and so on when ACS uses Active Directory.
- **Ambiguous Identity Resolution**—If the user or machine name received by ACS is ambiguous, that is, it is not unique, it can cause problems for users when they try to authenticate. Identity clashes occur in cases when the user does not have a domain markup, or when there are multiple identities with the same username in more than one domain. For example, userA exists on domain1 and another userA exists on domain2. You can use the identity resolution setting to define the scope for the resolution for such users. Cisco highly recommends you to use qualified names such as UPN or NetBIOS. Qualified name reduces chances of ambiguity and increases performance by reducing delays.
- **Enable Kerberos for PAP authentications**—Prior to version 5.8, ACS used Kerberos protocol for PAP authentications. But, ACS 5.8 uses MS-RPC protocol for PAP authentications by default. If you want to use Kerberos protocol for PAP authentications in ACS 5.8, then you must check the **Use Kerberos for Plain Text** check box in **User and Identity Stores > External Identity Stores > Active Directory** page.

ACS 5.8 introduces the following new alarms and reports to monitor and troubleshoot Active Directory-related activities.

The following alarms are triggered for Active Directory errors and issues:

- Configured name server not available
- Joined domain is unavailable
- Authentication domain is unavailable
- Active Directory forest is unavailable
- AD Connector had to be restarted
- AD: ACS account password update failed
- AD: Machine TGT refresh failed

You can monitor Active Directory-related activities using the following reports:

- **RADIUS Authentications Report**—This report shows detailed steps of the Active Directory RADIUS authentication and authorization. You can find this report here: **Launch Monitoring and Report Viewer > Monitoring and Reports > Reports > ACS Reports > AAA Protocol > RADIUS Authentications**.
- **TACACS+ Authentications Report**—This report shows detailed steps of the Active Directory TACACS+ authentication and authorization. You can find this report here: **Launch Monitoring and Report Viewer > Monitoring and Reports > Reports > ACS Reports > AAA Protocol > TACACS Authentications**.
- **AD Connector Operations Report**—The AD Connector Operations report provides a log of background operations performed by AD connector, such as ACS server password refresh, Kerberos ticket management, DNS queries, DC discovery, LDAP, and RPC connections management. If you encounter any Active Directory failures, you can review the details in this report to identify the possible causes. You can find this report here: **Launch Monitoring and Report Viewer > Monitoring and Reports > Reports > ACS Reports > ACS Instance > AD Connector Operations**.

For more information on Active Directory integration in ACS 5.8, see [Active Integration in ACS 5.8 Guide](#) and [User Guide for Cisco Secure Access Control System 5.8](#).

Note: When you face permission issue for tokenGroups in ACS 5.8, run the below command in the Active Directory servers:

```
dscals "DC=medaille,DC=edu" /I:T /G "acsServerHostName$":rp;tokenGroups
```

Note: In ACS 5.8, you must manually join ACS to Active Directory after upgrading ACS 5.x to ACS 5.8. See Installation and Upgrade Guide for Cisco Secure Access Control System for more information on upgrade methods.

Note: Prior to Release 5.8, ACS started the adclient process only after joining the Active Directory domain to ACS. But, ACS 5.8 starts the adclient process soon after installing it.

Note: Previous releases of ACS disconnects the Active Directory domain and displays the status as “joined but disconnected” in the Active Directory connection details page, when you stop the ad-client process manually from ACS CLI. But in ACS 5.8, when you stop the ad-client process manually from ACS CLI, ACS disconnects Active Directory domain and displays the status as “None” in Active Directory connection details page. If you start the ad-client process again from ACS CLI, ACS gets connected to the Active Directory domain and displays the status as “joined and connected” in AD connection details page.

Authenticating Administrators against RADIUS Identity and RSA SecurID Servers

Previous releases of ACS support authenticating ACS administrators only against AD or LDAP external identity stores. But, ACS 5.8 supports authenticating administrators against RADIUS Identity and RSA SecurID servers. This feature is available in both the ACS web interface and ACS configuration mode of ACS CLI. This feature provides additional security to administrator authentications by using an One Time Password (OTP) that the RADIUS Identity or RSA SecurID server generates. For information on how to authenticate administrators against RSA Identity and RADIUS SecurID servers, see the User Guide for Cisco Secure Access Control System 5.8.

Exporting Policies from ACS Web Interface

ACS 5.8 allows you to export policies and policy elements from the ACS web interface as an XML file to a remote repository or to email ids that you have configured. You can perform an instant export or schedule it for a future day and time. ACS exports the policies as an XML file and encrypts it with a password that you can use for decrypting the XML file. You must have an administrator account with SuperAdmin role to export policies from the ACS web interface. ACS does not export access service policies of type external proxy. For more information on exporting policies, see the [User Guide for Cisco Secure Access Control System 5.8](#).

Changing Internal User Passwords using REST API

ACS allows you to change the user password using REST APIs. You can use the **GET** method from REST API to retrieve the change password XML file from ACS. You can enter the old password and new password in the retrieved XML file and use the **PUT** method to update the password in ACS. This feature is applicable only for internal users. For more information on changing internal user password using the from REST API, see the [Software Developer’s Guide Cisco Secure Access Control System](#).

Internal Administrator Password Hashing

To enhance security, ACS 5.8 introduces a new feature, “Enable Password Hash.” ACS runtime process must be up and running properly for this option to work. For information on hashing administrator password, see the [User Guide for Cisco Secure Access Control System 5.8](#).

EAP-FAST Authentications with Cisco IP Phone

Cisco IP phone implements a specific use case of EAP-FAST for conducting certificate based authentications. Cisco IP phone expects the authentication server to send a certificate request during EAP-FAST authentication tunnel establishment and responds back with the certificate. ACS validates the certificate and if the certificate validation is successful, then ACS skips the inner method. Therefore, ACS must differentiate the EAP-FAST authentication with Cisco IP phone and other supplicants. To enable certificate request for EAP-FAST authentication with Cisco IP phones, ACS introduces new options under **Access Policies > Access Services > Create > Allowed Protocols >Allow EAP-FAST** page.

- If you use PACs, then you must check the **Accept Client Certificate For Provisioning** check box for ACS to differentiate Cisco IP phones from other supplicants.
- If you do not use PACs, you must check the **Accept Client Certificate** check box in ACS to differentiate Cisco IP phones from other supplicants.

FIPS 140-2 Level 1 Compliance

ACS 5.8 is compliant with Federal Information Processing Standard (FIPS) 140-2 Level 1. ACS uses an embedded FIPS 140-2 Level 1 implementation using validated C3M and NSS modules, per the FIPS 140-2 Implementation Guidance section G.5 guidelines. The key size of Certificate Authority certificates and server certificates that are used in ACS should be greater than or equal to 2048 bits. The key size of client

New Features Introduced in ACS 5.8 Patch 4

certificate should be greater than or equal to 1024 bits. In FIPS mode, ACS does not support PAP, CHAP, MSCHAPv1, MSCHAPv2, EAP-MD5, LEAP, and Anonymous PAC Provisioning in EAP-FAST protocols. For more information on how to enable FIPS in ACS, see the User Guide for Cisco Secure Access Control System 5.8.

New Features Introduced in ACS 5.8 Patch 4

ACS 5.8 Patch 4 introduces the following new features:

- [TLS 1.2 Settings](#)
- [Allowing Weak Ciphers for EAP](#)
- [Support for Elliptic Curve Cryptography \(ECC\) Certificates](#)

TLS 1.2 Settings

ACS 5.8 after installing patch 4, enables TLS 1.2 for both browser access and runtime (AAA) access by default. For compatibility reasons, ACS allows you to enable and disable TLS 1.0 using the configuration available in **System Administration > Configuration > Global System Options > Security Settings** page.

For HTTPS, TLS 1.0 can be enabled/disabled using the “Enable TLS 1.0 for https access” option. This configuration will restart the management in Primary ACS. However, management services needs to be restarted manually in all the other secondary nodes in the ACS deployment for the changes to take effect.

By default, TLS 1.1 and 1.2 are enabled for GUI access and it is not possible to disable TLS 1.1.

For AAA access, runtime is enabled with all the TLS protocol versions 1.0, 1.1 and 1.2. ACS allows you to enable/disable TLS 1.0 using the “Enable TLS 1.0 only for legacy clients” option.

To disable SHA-1 specific ciphers for AAA access, uncheck the **Enable SHA-1 only for legacy clients** check box in the security settings page.

For more information on configuring security settings, see [User Guide for Cisco Secure Access Control System, 5.8](#).

Allowing Weak Ciphers for EAP

ACS 5.8 after installing patch 4, allows using weak ciphers such as RC4-SHA and RC4-MD5 for legacy clients. This option is disabled by default.

To enable the weak ciphers, ACS introduces an option “Allow weak ciphers for EAP” in the list of authentication protocols under the Allowed Protocols. For more information, see [User Guide for Cisco Secure Access Control System, 5.8](#).

Note: If FIPS is enabled, ACS will not allow you to enable this option and vice-versa.

Support for Elliptic Curve Cryptography (ECC) Certificates

ACS 5.8 patch 4 supports ECC ciphers in the authentication flow to provide high security. Following are few relaxations for ECC certificates if FIPS is enabled.

- The minimum supported key size for ECC certificate is 224 (which is equal to 2048 of RSA key size).
- There is no check for PKCS#8 format for private key. Non-PKCS#8 format for EC type should be allowed even in FIPS mode.

Note: ECC ciphers are supported only for AAA flows.

New Features Introduced in ACS 5.8 Patch 7

The following sections briefly describe the new features in ACS 5.8 Patch 7 release:

- [Authorizing Internal Users When the Password Type is set to RSA SecurID Token Server/RADIUS Identity Server, page 13](#)

- [Internal Users Cache Mechanism, page 13](#)
- [Configuring Log Accounting Updates, page 13](#)

Authorizing Internal Users When the Password Type is set to RSA SecurID Token Server/RADIUS Identity Server

When the **Treat authorization is passed for internal user with password type set to this identity source** option (under **Advanced** tab in RSA SecurID token server/RADIUS identity server page) is enabled, authorization is passed for an unknown user if the user is found in the internal identity store and the password type is set to RSA SecurID token server/RADIUS identity server. When this option is enabled, authorization is passed always even if the user is not authenticated by this node previously and there is no corresponding entry in cache. This option is disabled by default.

Note: We strongly recommend that you enable this option only when you are using a NAS (such as, Cisco 5508 Wireless controller) that sends authentication and authorization requests to different AAA servers in a high-availability setup. Otherwise, we recommend that you always disable this option.

In a high-availability configuration, sometimes NAS sends TACACS+ authentication and authorization requests to different AAA servers. NAS sends authentication request to a AAA server and at the same time, sends the authorization/accounting request for the same user to another AAA server that is configured in the Authentication/Authorization Servers list on NAS. In this case, authentication succeeds, but the authorization fails with “User record was not found in the cache” message.

The user details are cached during authentication because User Lookups are not supported by RSA SecurID servers. ACS caches results of successful authentications and will process User Lookup requests against the cache. The authorization fails when the request is sent to a different ACS server (where authentication was not performed), because the cache (local to a server) is not replicated among ACS nodes in the deployment and hence user details would not be available in that cache. In such cases, you can enable this option to prevent this issue.

Internal Users Cache Mechanism

The cache mechanism is applicable only for TACACS+ authorization flow for internal users.

When this option is enabled, the username and user specific attributes read from the internal database are stored in the cache after the first successful authorization request, for the specified time period. You can also specify the time (TTL) for which the user details are to be stored in the cache. The valid range is from 1 to 5 minutes. Till the TTL expires, the authorization is passed if the user entry is found in the cache. The user entry is removed from the cache when the TTL is expired.

This option is disabled by default. You can enable this option to improve performance especially when scripts generating TACACS+ requests at high rate are used.

Configuring Log Accounting Updates

When the **Skip Log Accounting Updates** option (under **System Administration > Configuration > Log Configuration > Logging Categories > Global**) is enabled, accounting update packets are not sent to the log collector. This feature is applicable only for Accounting (update packets)—Radius Accounting (interim-update) and TACACS accounting (watchdog) logging category type.

This reduces the volume of logs stored and can be used for better data storage resiliency.

New Features Introduced in ACS 5.8 Patch 8

The following sections briefly describe the new features in ACS 5.8 Patch 8 release:

- [Exporting Reports to Local Machine, page 14](#)
- [Wild Card Character Support for MAC Address of End Station or Destination, page 14](#)

Exporting Reports to Local Machine

After installing ACS 5.8 patch 8, you can also export the reports to your local system as a .csv file and a pdf file in addition to exporting the reports to a repository. The reports that have multiple tables or graph can be exported only as a pdf file.

ACS allows you to export only 25000 records when you export the reports to your local system as a .csv or pdf file.

Wild Card Character Support for MAC Address of End Station or Destination

After installing ACS 5.8 patch 8, you can use the wildcard character ? for the MAC addresses of end stations or destinations that you want to permit or deny access to. For example, 1?-22-33-44-55-66, 1A-2?-3C-4D-5E-6F, or AA-BB-CC-D?-EE-FF.

Upgrading Cisco Secure ACS Software

Cisco Secure Access Control System (ACS) supports upgrades from different versions of ACS 5.x to ACS 5.8. The supported upgrade paths include:

- Cisco Secure ACS, Release 5.5, recommended with latest patch applied
- Cisco Secure ACS, Release 5.6, recommended with latest patch applied
- Cisco Secure ACS, Release 5.7, recommended with latest patch applied

Follow the upgrade instructions in the Installation and Upgrade Guide for *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8*. to upgrade to Cisco Secure ACS, Release 5.8.

Monitoring and Reports Data Export Compatibility

Exporting monitoring and troubleshooting records to a remote database does not work if the remote database is an Oracle database and it is configured in a cluster setup.

Installation and Upgrade Notes

This section provides information on the installation tasks and configuration process for ACS 5.8.

This section contains:

- [Installing, Setting Up, and Configuring Cisco SNS 3400 Series Appliances, page 14](#)
- [Installing, Setting Up, and Configuring CSACS-1121, page 15](#)
- [Running the Setup Program, page 17](#)
- [Licensing in ACS 5.8, page 20](#)
- [Upgrading an ACS Server, page 21](#)
- [Applying Cumulative Patches, page 21](#)

Installing, Setting Up, and Configuring Cisco SNS 3400 Series Appliances

You can install ACS software on Cisco SNS-3495 and SNS-3415 appliances. These appliances do not have a DVD drive. You must use the CIMC on the appliance or a bootable USB to install, set up, and configure ACS software on this appliance. For more details, see the *Installation and Upgrade Guide for the Cisco Secure Access Control System 5.8*.

This section describes how to install, set up and configure the Cisco SNS-3495 and Cisco SNS-3415 appliance. The Cisco SNS-3495 and Cisco SNS-3415 appliance are preinstalled with the software.

Installation and Upgrade Notes

To set up and configure the Cisco SNS-3495 and Cisco SNS-3415:

1. Open the box containing the Cisco SNS-3495 and Cisco SNS-3415 appliances and verify that it includes:
 - The Cisco SNS-3495 and Cisco SNS-3415 appliance
 - Power cord
 - KVM cable
 - Cisco information packet
 - Warranty card
 - *Regulatory Compliance and Safety Information for Cisco Secure Access Control System 5.8*
 2. Go through the specifications of the Cisco SNS-3495 or Cisco SNS-3415 appliance.
- For more details, see the [*Installation and Upgrade Guide for the Cisco Secure Access Control System 5.8*](#).
3. Read the general precautions and safety instructions that you must follow before installing the Cisco SNS-3415 or Cisco SNS-3495 appliance.
- For more details, see the [*Installation and Upgrade Guide for the Cisco Secure Access Control System 5.8*](#) and pay special attention to all safety warnings.
4. Install the appliance in the 4-post rack, and complete the rest of the hardware installation.
- For more details on installing the Cisco SNS-3495 or Cisco SNS-3415 appliance, see the [*Installation and Upgrade guide for the Cisco Secure Access Control System 5.8*](#).
5. Connect the Cisco SNS-3495 or Cisco SNS-3415 appliance to the network and connect either a USB keyboard and Video Graphics Array (VGA) monitor or a serial console to the serial port.

See the [*Installation and Upgrade guide for Cisco Secure Access Control System 5.8*](#) for illustrations of the front and back panel of the Cisco SNS-3495 and Cisco SNS-3415 appliance and the various cable connectors.

Note: For the initial setup, you must have either a USB keyboard and VGA monitor or a serial console running terminal-emulation software.

For more details, see the [*Installation and Upgrade Guide for the Cisco Secure Access Control System 5.8*](#).

For information on installing ACS 5.8 on VMware, see the "Installing ACS in a VMware Virtual Machine" chapter in the [*Installation and Upgrade Guide for the Cisco Secure Access Control System 5.8*](#).

6. After completing the hardware installation, power up the appliance.

The first time you power up the appliance, you must run the setup program to configure the appliance. For more information, see the [*Installation and Upgrade Guide for the Cisco Secure Access Control System 5.8*](#).

Installing, Setting Up, and Configuring CSACS-1121

This section describes how to install, set up, and configure the CSACS-1121 series appliance. The CSACS-1121 series appliance is preinstalled with the software.

To set up and configure the CSACS-1121:

1. Open the box containing the CSACS-1121 Series appliance and verify that it includes:
 - The CSACS-1121 Series appliance
 - Power cord

Installation and Upgrade Notes

- Rack-mount kit
- Cisco Information Packet
- Warranty card
- *Regulatory Compliance and Safety Information for Cisco Secure Access Control System 5.8*
- 2. Go through the specifications of the CSACS-1121 Series appliance.

For more details, see the *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8*.

3. Read the general precautions and safety instructions that you must follow before installing the CSACS-1121 Series appliance.

For more details, see the *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8* and pay special attention to all safety warnings.

4. Install the appliance in the 4-post rack, and complete the rest of the hardware installation.

For more details on installing the CSACS-1121 Series appliance, see the *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8*.

5. Connect the CSACS-1121 Series appliance to the network, and connect either a USB keyboard and Video Graphics Array (VGA) monitor or a serial console to the serial port.

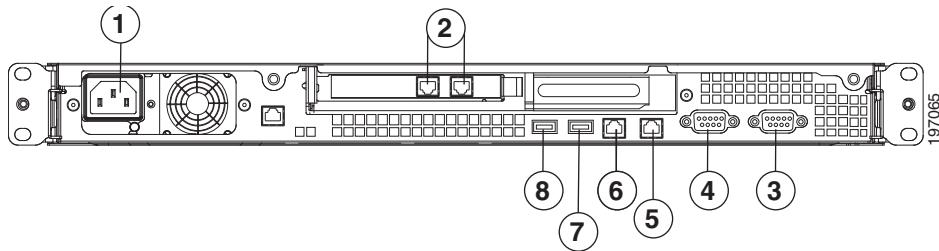
Figure 1 on page 16 shows the back panel of the CSACS-1121 Series appliance and the various cable connectors.

Note: For the initial setup, you must have either a USB keyboard and VGA monitor or a serial console running terminal emulation software.

For more details, see the *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8*.

For information on installing ACS 5.8 on VMware, see the “[Installing ACS in a VMware Virtual Machine](#)” chapter in the *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8*.

Figure 1 CSACS 1121 Series Appliance Rear View



The following table describes the callouts in [Figure 1 on page 16](#).

| | | | |
|---|---------------------|---|-------------------|
| 1 | AC power receptacle | 5 | GigabitEthernet 1 |
| 2 | GigabitEthernet | 6 | GigabitEthernet 0 |
| 3 | Serial connector | 7 | USB 3 connector |
| 4 | Video connector | 8 | USB 4 connector |

6. After completing the hardware installation, power up the appliance.

The first time you power up the appliance, you must run the setup program to configure the appliance. For more information, see [Running the Setup Program, page 17](#).

Running the Setup Program

The setup program launches an interactive CLI that prompts you for the required parameters. An administrator can use the console or a dumb terminal to configure the initial network settings and enter the initial administrator credentials for the ACS 5.8 server that is using the setup program. The setup process is a one-time configuration task.

To configure the ACS server:

1. Power up the appliance.

The setup prompt appears:

```
Please type 'setup' to configure the appliance
localhost login:
```

At the login prompt, enter **setup** and press **Enter**.

The console displays a set of parameters. You must enter the parameters as described in [Table 3 on page 18](#).

Note: You can interrupt the setup process at any time by typing **Ctrl-C** before the last setup value is entered.

Installation and Upgrade Notes

Table 3 Network Configuration Prompts

| Prompt | Default | Conditions | Description |
|----------------------------------|------------------------|--|--|
| Hostname | <i>localhost</i> | The first letter must be an ASCII character. The length must be from 3 to 15 characters. Valid characters are alphanumeric (A-Z, a-z, 0-9) and the hyphen (-), and the first character must be a letter. Note: When you intend to use the AD ID store and set up multiple ACS instances with the same name prefix, use a maximum of 15 characters as the hostname so that it does not affect the AD functionality. | Enter the hostname. |
| IPv4 IP Address | None, network specific | Must be a valid IPv4 address between 0.0.0.0 and 255.255.255.255. | Enter the IP address. |
| IPv4 Netmask | None, network specific | Must be a valid IPv4 netmask between 0.0.0.0 and 255.255.255.255. | Enter a valid netmask. |
| IPv4 Gateway | None, network specific | Must be a valid IPv4 address between 0.0.0.0 and 255.255.255.255. | Enter a valid IP address for the default gateway. |
| Domain Name | None, network specific | Cannot be an IP address. Valid characters are ASCII characters, any numbers, the hyphen (-), and the period (.). | Enter the domain name. |
| IPv4 Primary Name Server Address | None, network specific | Must be a valid IPv4 address between 0.0.0.0 and 255.255.255.255. | Enter a valid name server address. |
| Add Another Name Server | None, network specific | Must be a valid IPv4 address between 0.0.0.0 and 255.255.255.255. Note: You can configure a maximum of three name servers from the ACS CLI. | To configure multiple name servers, enter y . |
| NTP Server | time.nist.gov | Must be a valid IPv4 address between 0.0.0.0 and 255.255.255.255 or a domain name server. Note: You can configure a maximum of three NTP servers from the ACS CLI. | Enter a valid domain name server or an IPv4 address. |
| Time Zone | UTC | Must be a valid local time zone. | Enter a valid system time zone. |

Installation and Upgrade Notes

Table 3 Network Configuration Prompts (continued)

| Prompt | Default | Conditions | Description |
|----------------|------------------------|---|---|
| SSH Service | None, network specific | None. | To enable SSH service, enter y . |
| Username | <i>admin</i> | The name of the first administrative user. You can accept the default or enter a new username. Must be from 3 to 8 characters and must be alphanumeric (A-Z, a-z, 0-9). | Enter the username. |
| Admin Password | None | No default password. Enter your password. The password must be at least six characters in length and have at least one lower-case letter, one upper-case letter, and one digit. In addition: <ul style="list-style-type: none">■ Save the user and password information for the account that you set up for initial configuration.■ Remember and protect these credentials, because they allow complete administrative control of the ACS hardware, the CLI, and the application.■ If you lose your administrative credentials, you can reset your password by using the ACS 5.8 installation CD. | Enter the password. |

After you enter the parameters, the console displays:

```
localhost login: setup
Enter hostname[]: acs54-server-1
Enter IP address[]: 192.0.2.177
Enter IP default netmask[]: 255.255.255.0
Enter IP default gateway[]: 192.0.2.1
Enter default DNS domain[]: mycompany.com
Enter primary nameserver[]: 192.0.2.6
Add secondary nameserver? Y/N : n
Add primary NTP server [time.nist.gov]: 192.0.2.2
Add secondary NTP server? Y/N : n
Enter system timezone[UTC]:
Enable SSH Service? Y/N [N] : y
Enter username [admin]: admin
Enter password:
Enter password again:
Bringing up network interface...
Pinging the gateway...
Pinging the primary nameserver...
Virtual machine detected, configuring VMware tools...
File descriptor 4 (/opt/system/etc/debugd-fifo) leaked on lvm.static invocation
Parent PID 3036: /bin/bash
Do not use 'Ctrl-C' from this point on...
debugd[2455]: [2809]: config:network: main.c[252] [setup]: Setup is complete.
Appliance is configured
Installing applications...
Installing acs...
Generating configuration...
```

Installation and Upgrade Notes

Rebooting...

After the ACS server is installed, the system reboots automatically. Now, you can log into ACS with the CLI username and password that was configured during the setup process.

You can use this username and password to log in to ACS only through the CLI. To log in to the web interface, you must use the predefined username **ACSAdmin** and password **default**.

When you access the web interface for the first time, you are prompted to change the predefined password for the administrator. You can also define access privileges for other administrators who will access the web interface.

Licensing in ACS 5.8

To operate ACS, you must install a valid license. ACS prompts you to install a valid license when you first access the web interface.

Each ACS instance (primary or secondary) in a distributed deployment requires a unique base license.

This section contains:

- [Types of Licenses, page 20](#)
- [Upgrading an ACS Server, page 21](#)

Types of Licenses

[Table 4 on page 20](#) lists the types of licenses that are available in ACS 5.8.

Table 4 ACS License Support

| License | Description |
|-----------------|--|
| Base License | <p>The base license is required for all deployed software instances and for all appliances. The base license enables you to use all ACS functions except license-controlled features, and it enables standard centralized reporting features.</p> <p>The base license:</p> <ul style="list-style-type: none"> ■ Is required for all primary and secondary ACS instances. ■ Is required for all appliances. ■ Supports deployments that have a maximum of 500 NADs. <p>The following are the types of base licenses:</p> <ul style="list-style-type: none"> ■ Permanent—Does not have an expiration date. Supports deployments that have a maximum of 500 NADs. ■ Evaluation—Expires 90 days from the time the license is issued. Supports deployments that have a maximum of 50 NADs. <p>The number of devices is determined by the number of unique IP addresses that you configure. This includes the subnet masks that you configure.</p> <p>For example, a subnet mask of 255.255.255.0 implies 256 unique IP addresses; thus the number of devices is 256.</p> |
| Add-On Licenses | <p>Add-on licenses can be installed only on an ACS server with a permanent base license. A large deployment requires the installation of a permanent base license.</p> <p>The Security Group Access feature licenses are of two types: Permanent and NFR. However, the permanent Security Group Access feature license can be used only with a permanent base license.</p> |

ACS 5.8 does not support auto installation of the evaluation license. Therefore, if you need an evaluation version of ACS 5.8, then you must obtain the evaluation license from [Cisco.com](#) and install ACS 5.8 manually.

If you do not have a valid SAS contract with any of the ACS products, you will not be able to download the ISO image from Cisco.com. In such case, you need to contact your local partner or the Cisco representative to get the ISO image.

Upgrading an ACS Server

If you have ACS 5.5, ACS 5.6, or ACS 5.7 installed on your machine, you can upgrade to ACS 5.8 using one of the following two methods:

- Upgrading an ACS server using the Application Upgrade Bundle
- Re imaging and upgrading an ACS server

You can perform an application upgrade on a Cisco appliance or a virtual machine only if the disk size is greater than or equal to 500 GB. If your disk size is lesser than 500 GB, you must re-image to ACS 5.8, followed by a restore of the backup taken in ACS 5.5 or ACS 5.6, to move to ACS 5.8 Release.

See the [Installation and Upgrade Guide for Cisco Secure Access Control System 5.8](#) for information on upgrading your ACS server.

Note: You must provide full permission to NFS directory when you configure the NFS location using the **backup-staging-url** command in ACS 5.8 to perform a successful On Demand Backup.

Applying Cumulative Patches

Periodically, patches will be posted on Cisco.com that provide fixes to ACS 5.8 and ACS 5.8.1. These patches are cumulative. Each patch includes all the fixes that were included in previous patches for the release.

You can download ACS 5.8/5.8.1 cumulative patches from the following location:

<http://software.cisco.com/download/navigator.html>

To download and apply the patches:

1. Log in to Cisco.com and navigate to **Products > Security > Access Control and Policy > Secure Access Control System > Secure Access Control System 5.8 > Secure Access Control System Software-5.8.0.32**.
2. Download the patch.
3. Install the ACS 5.8 cumulative patch. To do so:

Enter the following **acs patch** command in EXEC mode to install the ACS patch:

```
acs patch install patch-name.tar.gpg repository repository-name
```

ACS displays the following confirmation message:

Installing an ACS patch requires a restart of ACS services.

Would you like to continue? yes/no

4. Enter **yes**.

ACS displays the following:

```
Generating configuration...
Saved the ADE-OS running configuration to startup successfully
Getting bundle to local machine...
md5: aa45b77465147028301622e4c590cb84
```

Limitations in ACS Deployments

- ```
sha256: 3b7f30d572433c2ad0c4733a1d1fb55cce62dc1419b03b1b7ca354feb8bbcfa
% Please confirm above crypto hash with what is posted on download site.
% Continue? Y/N [Y]?
5. The ACS 5.8 upgrade bundle displays the md5 and sha256 checksum. Compare it with the value displayed on Cisco.com at the download site. Do one of the following:
■ Enter Y if the crypto hashes match. If you enter Y, ACS proceeds with the installation steps.
% Installing an ACS patch requires a restart of ACS services.
Would you like to continue? yes/no
■ Enter N if the crypto hashes do not match. If you enter N, ACS stops the installation process.
6. Enter yes.
```

The ACS version is upgraded to the applied patch. Check whether all services are running properly, using the **show application status acs** command from EXEC mode.

- Enter the **show application version acs** command in EXEC mode and verify if the patch is installed properly or not.

ACS displays a message similar to the following one:

```
acs/admin# show application version acs
CISCO ACS VERSION INFORMATION

Version: 5.8.0.32
Internal Build ID: B.442
acs/admin #
```

**Note:** During patch installation, if the patch size exceeds the allowed disk quota, a warning message is displayed in the ACS CLI, and an alarm is displayed in the ACS Monitoring and Reports page.

**Note:** When you upgrade from ACS 5.8 patch 1 to ACS 5.8 patch 2, PUT CLEAR operation requires the password field even if the password value is not updated.

## Limitations in ACS Deployments

Table 5 on page 22 describes the limitations in ACS deployments.

**Table 5 Limitations in ACS Deployments**

| Object Type                      | ACS System Limits |
|----------------------------------|-------------------|
| ACS Instances                    | 22                |
| Hosts                            | 150,000           |
| Users                            | 300,000           |
| Identity Groups                  | 1,000             |
| Active Directory Group Retrieval | 1,500             |
| Network Devices                  | 100,000           |

---

Limitations in ACS Deployments**Table 5 Limitations in ACS Deployments**

| Object Type                    | ACS System Limits                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Network Device Groups          | Unique top-level NDGs: 12<br>Network Device Group Child Hierarchy: 6<br>All Locations: 10,000<br>All Device Types: 350 |
| Services                       | 25                                                                                                                     |
| Authorization Rules            | 320                                                                                                                    |
| Conditions                     | 8                                                                                                                      |
| Authorization Profile          | 600                                                                                                                    |
| Service Selection Policy (SSP) | 50                                                                                                                     |
| Network Conditions (NARs)      | 3,000                                                                                                                  |
| ACS Admins                     | 50<br>9 static roles                                                                                                   |
| dACLs                          | 600 dACL with 100 ACEs each                                                                                            |

---

## Using the Bug Search Tool

This section explains how to use the Bug Search Tool to search for a specific bug or to search for all bugs in a release.

- [Search Bugs Using the Bug Search Tool](#)
- [Export to Spreadsheet](#)

### Search Bugs Using the Bug Search Tool

Use the Bug Search Tool to view the list of outstanding and resolved bugs in a release.

1. Go to <https://tools.cisco.com/bugsearch/search>.
  2. At the Log In screen, enter your registered Cisco.com username and password; then, click **Log In**. The Bug Toolkit page opens.
- Note:** If you do not have a Cisco.com username and password, you can register for them at <http://tools.cisco.com/RPF/register/register.do>.
3. To search for a specific bug, enter the bug ID in the Search For field and press **Enter**.
  4. To search for bugs in the current release:
    - a. Click **Select from list** link. The Select Product page is displayed.
    - b. Choose **Security > Access Control and Policy > Cisco Secure Access Control system > Cisco Secure Access Control System 5.8**.
    - c. Click **OK**.
    - d. When the search results are displayed, use the filter tools to find the types of bugs you are looking for. You can search for bugs based on different criteria such as status, severity, and modified date.

### Export to Spreadsheet

The Bug Search Tool provides the following option to export bugs to an Excel spreadsheet:

Click **Export Results to Excel** link in the Search Results page under the Search Bugs tab to export all the bug details from your search to the Excel spreadsheet. Presently, up to 10000 bugs can be exported at a time to an Excel spreadsheet.

If you are unable to export the spreadsheet, log in to the Technical Support Website at <http://www.cisco.com/cisco/web/support/index.html> for more information or call Cisco TAC (1-800-553-2447).

## Resolved Issues in ACS 5.8

## Resolved Issues in ACS 5.8

[Table 6 on page 25](#) lists the issues that are resolved in ACS 5.8.

**Table 6 Resolved Issues in ACS 5.8**

| Bug ID                     | Description                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCua13802</a> | The system status and the AAA status are shown as not available and zero in the dashboard.                                                                            |
| <a href="#">CSCuc16427</a> | Exporting records to a.csv file using the timestamps option does not work properly.                                                                                   |
| <a href="#">CSCuq62466</a> | Remote database export operation fails while exporting data from ACS to Microsoft SQL due to the presence of junk characters in the data. This issue is now resolved. |
| <a href="#">CSCur27402</a> | Unable to Schedule reports in ACS 5.6 Reports web interface.                                                                                                          |
| <a href="#">CSCur57298</a> | Need to increase the up-delay timer to 10 seconds while configuring bond 0 in ACS.                                                                                    |
| <a href="#">CSCus17482</a> | The primary instance sends an incorrect reference to the secondary instances after deleting an object from the primary instance.                                      |
| <a href="#">CSCus38676</a> | ACS 5.6 displays an internal error after submitting the changes in AAA health alarm.                                                                                  |
| <a href="#">CSCus42781</a> | OpenSSL Vulnerabilities were found in ACS during January 2015. This issue is now resolved.                                                                            |
| <a href="#">CSCus43434</a> | Context limit is reached if ACS receives a reset request during packet processing. This issue is now resolved.                                                        |
| <a href="#">CSCus45389</a> | ACS drops the RADIUS requests when Vendor Specific Attribute field is empty and VendorTypeField size is 1.                                                            |
| <a href="#">CSCus63338</a> | ACS View dashboard displays an error when you add a new layouts.                                                                                                      |
| <a href="#">CSCus64232</a> | Customizing TACACS+ policy elements logs the user session out in ACS 5.x web interface.                                                                               |
| <a href="#">CSCus79395</a> | In ACS, the coaport:integer field is missing in the resulting file while exporting devices.                                                                           |
| <a href="#">CSCus84600</a> | ACS displays an error while resetting user passwords.                                                                                                                 |
| <a href="#">CSCus87461</a> | Unable to use multiple filters for filtering AAA clients in ACS.                                                                                                      |
| <a href="#">CSCus97002</a> | Favorite reports in ACS 5.6 does not display any data.                                                                                                                |
| <a href="#">CSCut05442</a> | ACS displays the IP subnet overlap error message incorrectly. This issue is now resolved.                                                                             |
| <a href="#">CSCut06874</a> | ACS logs out the session if the authorization profile contains double quotes.                                                                                         |
| <a href="#">CSCut20508</a> | Configuring excluded IP range for a network device can cause an overlap with the other subnets in ACS.                                                                |
| <a href="#">CSCut46073</a> | OpenSSL Vulnerabilities were found in ACS during March 2015. This issue is now resolved.                                                                              |
| <a href="#">CSCut55144</a> | Issues with special characters in ACS 5.x.                                                                                                                            |
| <a href="#">CSCut75184</a> | ACS considers the parentheses as an invalid character.                                                                                                                |
| <a href="#">CSCut87378</a> | ACS runtime crashes frequently during authentications. This issue is now resolved.                                                                                    |
| <a href="#">CSCut94394</a> | Unable to start temporary database when you restart ACS services. This issue is now resolved.                                                                         |
| <a href="#">CSCut98350</a> | Read only administrators in ACS are unable to see the Active Directory Status.                                                                                        |
| <a href="#">CSCuu11002</a> | Reflected XSS vulnerability is found in ACS 5.x.                                                                                                                      |
| <a href="#">CSCuu11005</a> | Local file inclusion vulnerability is found in ACS 5.x                                                                                                                |
| <a href="#">CSCuu30320</a> | ACS server does not identify the passcode cache timeout option that is configured from ACS web interface. This issue is now resolved.                                 |
| <a href="#">CSCuu42929</a> | End Station Filters limitation has to be relaxed in ACS 5.x. This issue is now resolved.                                                                              |
| <a href="#">CSCuu43343</a> | ACS does not allow special characters for KEK and MACK keys of Network devices. This issue is now resolved.                                                           |
| <a href="#">CSCuu59807</a> | Replication issues are identified due to administrator account password change in ACS 5.x. This issue is now resolved.                                                |
| <a href="#">CSCuu81221</a> | Unable to delete the old subordinate CAs after installing a new CA certificate. This issue is now resolved.                                                           |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.1

**Table 6 Resolved Issues in ACS 5.8 (continued)**

| Bug ID     | Description                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------|
| CSCuu85461 | The “acs patch install” command is not working in ACS 5.x.                                                                       |
| CSCuu91166 | ACS displays a blank page for reports when you open a user report whose username is provided with NetBIOS name.                  |
| CSCuu93287 | The report links that are provided in an email notification for alarms does not work in ACS.                                     |
| CSCuu94829 | ACS 5.x displays an incorrect device name when ACS identifies an overlapping IP range. This issue is now resolved.               |
| CSCuv03303 | ACS does not properly send emails when you export reports from ACS web interface.                                                |
| CSCuv12144 | Identity policy with “UseCase=Host Lookup” is now working properly in ACS.                                                       |
| CSCuv20514 | Issues were found when you restore ACS 5.5 View database. This issue is now resolved.                                            |
| CSCuv22775 | Unable to add static routes after enabling NIC bonding in ACS.                                                                   |
| CSCuv32799 | TCP dumps stops working after upgrading ACS to ACS 5.7.                                                                          |
| CSCuv39328 | The management services in ACS fails to respond when you search reports in ACS using filtering options.                          |
| CSCuv42038 | The advanced drop option does not drop the TACACS+ requests in ACS 5.x. This issue is now resolved.                              |
| CSCuv46911 | The default configuration of ACS 5.x includes SNMPv2 read community public string.                                               |
| CSCuv63197 | ACS runtime crashes when the last EAP fragment length is greater than the total EAP fragment length. This issue is now resolved. |
| CSCuv72012 | ACS 5.x fails to add duplicate certificates.                                                                                     |
| CSCuv73286 | ACS fails to upgrade successfully when you upgrade ACS 5.3 on a VMware appliance to ACS 5.7.                                     |
| CSCuv88723 | Issues are found while changing ACS administrator password if the password includes < or > characters.                           |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.1**

Table 7 on page 26 lists the issues that are resolved in the ACS 5.8.0.32.1 cumulative patch. You can download the ACS 5.8.0.32.1 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.1 patch can also be installed on ACS 5.8.1.4.

**Table 7 Resolved Issues in Cumulative Patch ACS 5.8.0.32.1**

| Bug ID     | Description                                                                                     |
|------------|-------------------------------------------------------------------------------------------------|
| CSCuv67311 | Improve TPS for MS-RPC based multiple simultaneous requests through Active Directory.           |
| CSCux66025 | Memory increased while retrieving Active Directory groups or attributes from ACS web interface. |
| CSCux66660 | ACS management services are not responding after restoring a full back up.                      |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.2**

Table 8 on page 27 lists the issues that are resolved in the ACS 5.8.0.32.2 cumulative patch. You can download the ACS 5.8.0.32.2 cumulative patch from the following location: [Download Software](#) location. Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.2

**Note:** The ACS 5.8.0.32.2 patch can also be installed on ACS 5.8.1.4.

**Table 8 Resolved Issues in Cumulative Patch ACS 5.8.0.32.2**

| Bug ID     | Description                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCur92646 | SSLv3/TLS Renegotiation Stream Injection issue in ACS 5.7.                                                                                                                                                                                           |
| CSCut77567 | NTPD vulnerabilities in April 2015.                                                                                                                                                                                                                  |
| CSCut99902 | ACS does not list the identity group if there is a "\\" in the identity group description field.                                                                                                                                                     |
| CSCuu66563 | Search option in ACS 5.7 and later version displays additional fields after canceling the search results.                                                                                                                                            |
| CSCuu75750 | Updating end station filters using a .csv file fails in ACS.                                                                                                                                                                                         |
| CSCuu82493 | OpenSSL Vulnerabilities were found in ACS during June 2015.                                                                                                                                                                                          |
| CSCuv10632 | ACS displays an error message intermittently when you enable an interface for ACS configuration web.                                                                                                                                                 |
| CSCuv10688 | ACS primary node shows the status of the secondary node as "Node not responding" though the secondary node is connected.                                                                                                                             |
| CSCuv58437 | Saved Reports in ACS does not work if you edit the name of the saved reports.                                                                                                                                                                        |
| CSCuv88038 | ACS 5.7 has compatibility issues with Mozilla Firefox 39.0 browser.                                                                                                                                                                                  |
| CSCuv95363 | Scheduled reports in ACS 5.x are not working after reloading the ACS server.                                                                                                                                                                         |
| CSCuv99693 | ACS 5.6 does not allow special characters in command sets.                                                                                                                                                                                           |
| CSCuw09481 | ACS 5.x is vulnerable to CVE2015-5600.                                                                                                                                                                                                               |
| CSCuw21552 | ACS 5.x displays incorrect results for all filters that you use on configuration Audit Scheduled Report.                                                                                                                                             |
| CSCuw24655 | Protection vulnerability impacting the integrity of the system due to improper RBAC validation in ACS.                                                                                                                                               |
| CSCuw24661 | Protection vulnerability due to improper RBAC validation in ACS while accessing the Launch Monitoring and Report Viewer.                                                                                                                             |
| CSCuw24694 | Denial of Service vulnerability is found in Secure Shell connections with ACS.                                                                                                                                                                       |
| CSCuw24700 | SQL injection vulnerability in ACS.                                                                                                                                                                                                                  |
| CSCuw24705 | Reflective XSS vulnerability in ACS.                                                                                                                                                                                                                 |
| CSCuw24710 | DOM-based XSS vulnerability in ACS.                                                                                                                                                                                                                  |
| CSCuw33071 | Scheduled backups in ACS 5.7 fails when you use RSA crypto keys to authenticate against SFTP repository.                                                                                                                                             |
| CSCuw55386 | Management process fails to start after restoring a full ACS View backup in ACS 5.7 web interface.                                                                                                                                                   |
| CSCuw70238 | Unable to save scheduled reports in ACS 5.x with clock time zone set as ETC/GMT+/-7.                                                                                                                                                                 |
| CSCuw81477 | ACS has to allow the read-only user to execute the show users status command.                                                                                                                                                                        |
| CSCuw81495 | The password types drop-down list does not display the available options when you apply filters for user objects and try to change your password from ACS 5.7 web interface. This issue is specific to Mozilla Firefox browser versions 39 or later. |
| CSCuw84970 | Evaluating ACS 5.x for NTP in October 2015.                                                                                                                                                                                                          |
| CSCuw89652 | Unable to edit the acsadmin account details when there is a "+" symbol in the clocks timezone.                                                                                                                                                       |
| CSCuw89910 | ACS fails to join the Active Directory domain when the password includes "<" or ">" characters.                                                                                                                                                      |
| CSCux04983 | Administrator Entitlement report in ACS fails to run properly when the administrator is an operational or provisional administrator.                                                                                                                 |
| CSCux07030 | ACS displays the following error while authenticating an user after upgrading ACS from 5.4 to 5.5 version:<br>15020 Could not find selected Shell Profiles                                                                                           |
| CSCux33250 | The User Changeable Password (UCP) fails to work after enabling the Enable Password Hash option in ACS 5.7.                                                                                                                                          |
| CSCux33426 | ACS 5.7 fails to import a CSV file that has an ampersand symbol in the Network Device Group filters.                                                                                                                                                 |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.3

**Table 8 Resolved Issues in Cumulative Patch ACS 5.8.0.32.2 (continued)**

| Bug ID     | Description                                                                                                                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCux34781 | Apache Common Collections Java library vulnerability was found in ACS during December 2015.                                                                                                                    |
| CSCux39905 | Evaluating CVE-2015-6564 in ACS.                                                                                                                                                                               |
| CSCux43519 | Authentication lookup portlet feature in ACS 5.7 displays an internal error.                                                                                                                                   |
| CSCux44063 | Secure Syslog feature is not working properly when you restart the log collector server in ACS 5.7.                                                                                                            |
| CSCux81584 | Backup for a file size more than 2 GB fails in ACS 5.6 patch 4 while using an FTP repository.                                                                                                                  |
| CSCux95189 | Evaluating ACS 5.x for NTP in January 2016.                                                                                                                                                                    |
| CSCuy05184 | User Accounts in ACS are disabled when you configure the disable user account after n days of inactivity option though there are passed authentications within the configured number of days.                  |
| CSCuy09734 | Unable to edit Password Hash enabled users using password complexity feature.                                                                                                                                  |
| CSCuy09740 | ACS View reports does not display the latest records when the report has more than 25K records.                                                                                                                |
| CSCuy11959 | ACS 5.x reports subnets overlapping error while creating network devices using IPv6 with TACACS protocol.                                                                                                      |
| CSCuy12884 | Unable to retrieve AD group information after successful authentication when the Perform Binary Certificate Comparison with Certificate retrieved from LDAP or Active Directory option is enabled, in ACS 5.8. |
| CSCuy13890 | Log Recovery is stuck when a syslog message attribute length is greater than 1024.                                                                                                                             |
| CSCuy23108 | User is not disabled after multiple failure authentication attempts when the password type is selected as AD.                                                                                                  |
| CSCuy23574 | In Radius RFC, packets are dropped when zeros are appended at the end and the packet length shows 63 bytes.                                                                                                    |
| CSCuy36585 | Evaluating ACS for glibc during February 2016.                                                                                                                                                                 |
| CSCuy89193 | AD Client fails to start after restoring ACS 5.6 backup on ACS 5.8                                                                                                                                             |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.3

Table 9 on page 28 lists the issues that are resolved in the ACS 5.8.0.32.3 cumulative patch. You can download the ACS 5.8.0.32.3 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.3 patch can also be installed on ACS 5.8.1.4.

**Table 9 Resolved Issues in Cumulative Patch ACS 5.8.0.32.3**

| Bug ID     | Description                                                                                 |
|------------|---------------------------------------------------------------------------------------------|
| CSCuz48986 | Adding or Editing the Service Selection Rules in ACS using Firefox 46 erases all the rules. |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.4

Table 10 on page 28 lists the issues that are resolved in the ACS 5.8.0.32.4 cumulative patch. You can download the ACS 5.8.0.32.4 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.4 patch can also be installed on ACS 5.8.1.4.

**Table 10 Resolved Issues in Cumulative Patch ACS 5.8.0.32.4**

| Bug ID     | Description                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------|
| CSCuu29920 | ACS 5.x requires TLS 1.2 support for LDAP authentication.                                                        |
| CSCux98281 | DBPurge fails when the Log Recovery feature is enabled.                                                          |
| CSCuy44452 | Issues with Change password on next login in ACS 5.7 and ACS 5.8 if password hash is enabled for internal users. |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.5

**Table 10 Resolved Issues in Cumulative Patch ACS 5.8.0.32.4**

| Bug ID     | Description                                                                                                                                                                                                                                             |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCuy45998 | ACS 5.7 does not allow unlocking of user account when the user reaches the password retries threshold due to incorrect password entered in the CLI.                                                                                                     |
| CSCuy50131 | ACS 5.8 supports weak ciphers for legacy clients.                                                                                                                                                                                                       |
| CSCuy54597 | Evaluating ACS 5.x for OpenSSL in March 2016.                                                                                                                                                                                                           |
| CSCuy59628 | Unable to edit Network Device entries with a IP Range.                                                                                                                                                                                                  |
| CSCuy63004 | Catalina.log file reaches 100-200GB in size.                                                                                                                                                                                                            |
| CSCuy63906 | ACS creates the database crash dumps in /home/ directory instead of database home directory.                                                                                                                                                            |
| CSCuy73706 | Log files are not updated for a long time due to the following error: "failed to allocate a SYSV semaphore" while getting connection from the database.                                                                                                 |
| CSCuy81798 | Updating TACACS shared secret details using import/export operation throws validation error when the key exceeds 32 characters.                                                                                                                         |
| CSCuy92415 | Runtime is not monitored when you upgrade from ACS 5.5/5.6/5.7 to ACS 5.8 without log collector or restore a backup taken without log collector.                                                                                                        |
| CSCuz03320 | In ACS 5.8, loginFailureCount is not reset to 0 automatically for REST call.                                                                                                                                                                            |
| CSCuz27273 | ACS provides support for Policy Export file download to client computer.                                                                                                                                                                                |
| CSCuz40534 | In ACS 5.8 patch 2, report shows a blank page for a dynamic admin user.                                                                                                                                                                                 |
| CSCuz45645 | ACS throws the following error: "ProvisioningAdmin and OperationsAdmin Role should not combined with any of other roles. Please remove roles accordingly" while creating or editing the authorization rules on ACS by adding another external AD group. |
| CSCuz50074 | Core files are not generated in PBIS when the AD Connector crashes.                                                                                                                                                                                     |
| CSCuz75323 | ACS 5.8 supports Elliptic curve cryptography (ECC) ciphers only for client certificates.                                                                                                                                                                |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.5**

Table 11 on page 29 lists the issues that are resolved in the ACS 5.8.0.32.5 cumulative patch. You can download the ACS 5.8.0.32.5 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.5 patch can also be installed on ACS 5.8.1.4.

**Table 11 Resolved Issues in Cumulative Patch ACS 5.8.0.32.5**

| Bug ID     | Description                                                                               |
|------------|-------------------------------------------------------------------------------------------|
| CSCux16057 | The NTP server status reverts back to local in ACS 5.6 and 5.7.                           |
| CSCux97425 | Test configuration check returns error after setting up ACS 5.7/5.8 with LDAP servers.    |
| CSCuy78327 | DB purge on Feb 29 is deleting all the logs.                                              |
| CSCuy88722 | ACS displays the following error "AD Connector is not available" while joining ACS to AD. |
| CSCuy92367 | ACS is vulnerable to CVE-2016-1907                                                        |
| CSCuz11125 | Logging recovery process creates duplicate records in log collector.                      |
| CSCuz11163 | Logging Recovery time interval needs to be fine-tuned.                                    |
| CSCuz12297 | Promotion fails while configuring RSA SecurID Token Servers.                              |
| CSCuz24101 | Management process does not run properly after reloading ACS.                             |
| CSCuz28260 | ACS Admin Access by Radius identity Server sends incorrect NAS IP address.                |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.6

**Table 11 Resolved Issues in Cumulative Patch ACS 5.8.0.32.5**

| Bug ID     | Description                                                                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCuz41442 | ACS 5.7/5.8 PAC provisioning fails with Credential Time TLV.                                                                                                            |
| CSCuz43689 | Restoring ACS View database from GUI fails with sudo errors.                                                                                                            |
| CSCuz49536 | After restoring the log collector backup, logging recovery does not work properly.                                                                                      |
| CSCuz49544 | Few logs are missing during the logging recovery process.                                                                                                               |
| CSCuz50048 | Browser hangs while configuring CommandSet Arguments with double quotes.                                                                                                |
| CSCuz52505 | OpenSSL Vulnerabilities were found in ACS during May 2016.                                                                                                              |
| CSCuz69016 | If the sequence number of the AD operations is more than 2147483647, an alarm is generated citing Database Failure with the ACS node name and ADOperations as the task. |
| CSCuz73164 | Password hashing fails if TACACS enable password setting is disabled.                                                                                                   |
| CSCuz86412 | Unable to update Password Hash enabled users through RESTAPI                                                                                                            |
| CSCuz98731 | In ACS 5.7 patch 2 or 3, CLI Admin Unlock done via ISO boot remains ineffective.                                                                                        |
| CSCva00401 | ACSAdmin accounts in AD are not able to view reports.                                                                                                                   |
| CSCva23984 | ACS should not be accessible using unsupported browser.                                                                                                                 |
| CSCva42072 | RuntimeDebugLog.config flag is not working in ACS 5.8.                                                                                                                  |
| CSCva42079 | Runtime process is restarted when the context counter reaches 10,000.                                                                                                   |
| CSCva43184 | Domain becomes unusable when the following error message: KRB5KDC_ERR_S_PRINCIPAL_UNKNOWN is encountered.                                                               |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.6**

Table 12 on page 30 lists the issues that are resolved in the ACS 5.8.0.32.6 cumulative patch. You can download the ACS 5.8.0.32.6 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.6 patch can also be installed on ACS 5.8.1.4.

**Table 12 Resolved Issues in Cumulative Patch ACS 5.8.0.32.6**

| Bug ID     | Description                                                                                               |
|------------|-----------------------------------------------------------------------------------------------------------|
| CSCuv42787 | In ACS 5.6 and 5.7, the Device IP field is not displayed in the TACACS Authentication Report.             |
| CSCux76335 | Unable to restore ACS 5.5 backup on ACS 5.7/5.8 when VSA attribute changes are done.                      |
| CSCva05815 | In ACS 5.7 and 5.8, static routes cause problem for the local subnet route.                               |
| CSCva43590 | On restarting the ACS services, ACS View database does not start after upgrading from ACS 5.7 to ACS 5.8. |
| CSCva50918 | ACS Monitoring and Report Viewer keeps sending alarms of High CPU every 2 minutes.                        |
| CSCva56902 | In ACS 5.8, Authentication fails due to same user and computer name in AD.                                |
| CSCva79933 | ACS stops processing RSA Authentication and displays the following error: "ACM_NO_SERVER".                |
| CSCva81649 | ACS needs to update "tzdata" for December 2016 leap second.                                               |
| CSCvb05250 | Backup Interface feature does not work in ACS 5.8.                                                        |
| CSCvb13970 | ACS View DBPurge and incremental backups fail after upgrading to ACS 5.8.1.                               |
| CSCvb15365 | Automatic AD DC failover on RPC failure receipt.                                                          |
| CSCvb15366 | AD agent is not reconnected to DC upon receiving TCP reset request.                                       |
| CSCvb15368 | ACS fetches wrong information from AD query.                                                              |
| CSCvb15369 | Enhance Concurrent Handling for DC Availability Updates.                                                  |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.7

**Table 12 Resolved Issues in Cumulative Patch ACS 5.8.0.32.6**

| Bug ID     | Description                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------|
| CSCvb22800 | Unable to export ACS reports with special characters in the ACS GUI account after upgrading to ACS 5.8.         |
| CSCvb28841 | Optimize User Validation based on authentication results.                                                       |
| CSCvb38112 | ValidateUser mechanism is replaced from RPC to LDAP.                                                            |
| CSCvb91226 | Authorization rule hits incorrectly due to duplicate AD group SID's in the ActiveDirectory group configuration. |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.7**

**Table 13 on page 31** lists the issues that are resolved in the ACS 5.8.0.32.7 cumulative patch. You can download the ACS 5.8.0.32.7 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.7 patch can also be installed on ACS 5.8.1.4.

**Table 13 Resolved Issues in Cumulative Patch ACS 5.8.0.32.7**

| Bug ID     | Description                                                                                                                                                |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCuz11206 | TACACS+ authorization fails if authentication is done against different ACS machines with the condition that the password type is RSA.                     |
| CSCuz39617 | ACS sends self-signed certificate for management access if ACS cluster is upgraded from 5.x to 5.8.1                                                       |
| CSCva24770 | SNMP daemon is not responding if snmpwalk gets MIB objects recursively without specifying the hierarchical level of OID.                                   |
| CSCva88672 | Evaluating ACS 5.x for TCP in August 2016.                                                                                                                 |
| CSCvb26372 | Launch Monitoring and Report Viewer launches a new tab with the IP address of the secondary server as the URL not the hostname.                            |
| CSCvb34188 | Registration to a deployment fails in ACS 5.8 patch 4 or later for specific certificate.                                                                   |
| CSCvb48662 | Evaluating ACS 5.x for OpenSSL in September 2016.                                                                                                          |
| CSCvb52091 | ACS services restart is required to switch to the next available DC during a DC fail over.                                                                 |
| CSCvb62332 | ACS 5.x is vulnerable to CVE-2016-6313.                                                                                                                    |
| CSCvb71656 | Unable to locate AAA client if there is an overlap in IP Subnets.                                                                                          |
| CSCvb72704 | ACS displays an incorrect URL for the "Top N Authentications By Network Device" report.                                                                    |
| CSCvb82842 | Unable to add AD user for ACS login if "Password must not contain <password> or its characters in reverse order" is set under password complexity setting. |
| CSCvb85658 | ACS 5.x is vulnerable to CVE-2016-5195.                                                                                                                    |
| CSCvb91043 | Recent logs are not displayed in the reports.                                                                                                              |
| CSCvb98750 | In ACS 5.8 patch 4 or later, LDAP server uses only TLSv1.0 for "Test Bind To Server" and "Test Configuration" options.                                     |
| CSCvc04553 | Scheduled policy export fails if the repository name has the word "backup".                                                                                |
| CSCvc04593 | Configurable option for accounting interim update messages under the logging categories.                                                                   |
| CSCvc04838 | XSS vulnerability is found in ACS.                                                                                                                         |
| CSCvc04845 | XXE vulnerability is found in ACS.                                                                                                                         |
| CSCvc04849 | Open Redirect vulnerability is found in ACS.                                                                                                               |
| CSCvc04854 | Information Disclosure Vulnerability is found in ACS.                                                                                                      |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.8

**Table 13 Resolved Issues in Cumulative Patch ACS 5.8.0.32.7**

| Bug ID     | Description                                                                                                                                               |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCvc05781 | Unable to do initial setup for admin after performing "write erase" on ACS 5.8/5.8.1 patch 2 or later patch bundle.                                       |
| CSCvc06777 | Unable to edit the IP ranges while modifying a network device.                                                                                            |
| CSCvc15446 | EAP-FAST authentication is not working for weak ciphers from ACS 5.8 patch 4.                                                                             |
| CSCvc22979 | Internal users cache mechanism for TACACS+ authZ flow.                                                                                                    |
| CSCvc40694 | A proper message should be displayed to the user instead of a generic INTERNAL ERROR when a NULL error is encountered in ACS for the REST request.        |
| CSCvc40734 | ACS5 REST API   SDK should implement TLSv1.2 by default.                                                                                                  |
| CSCvc60673 | AD joining process takes more time in ACS 5.8 patch 6.                                                                                                    |
| CSCvc68590 | In ACS 5.6 or later, export option is not available in some report pages.                                                                                 |
| CSCvc78589 | After applying ACS 5.8 patch 3 or later, executing "show tech" command does not show UDI and inventory information for Cisco SNS 3515 and 3595 appliances |
| CSCvd22451 | Unable to launch the ACS GUI in Mozilla Firefox 52 browser.                                                                                               |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.8**

Table 14 on page 32 lists the issues that are resolved in the ACS 5.8.0.32.8 cumulative patch. You can download the ACS 5.8.0.32.8 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.8 patch can also be installed on ACS 5.8.1.4.

**Table 14 Resolved Issues in Cumulative Patch ACS 5.8.0.32.8**

| Bug ID     | Description                                                                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCuv56583 | Proper error message must be displayed in the GUI while creating an admin user with password hash enabled when the runtime is not up.                                                         |
| CSCuw14444 | Incorrect range for password is shown in the Internal User page.                                                                                                                              |
| CSCvb47838 | Runtime service is not monitored after adding the user dictionary attribute.                                                                                                                  |
| CSCvb67339 | Internal error is displayed while viewing Top N Failed Authentications By Failure Reason report.                                                                                              |
| CSCvc63681 | UCP python script fails after installing patch 4 on ACS 5.8.                                                                                                                                  |
| CSCvc70687 | If the year is changed, the previous logs are purged in ACS 5.8.1.                                                                                                                            |
| CSCvc82625 | ACS displays Server Error for specific links in the Reports page.                                                                                                                             |
| CSCvc94988 | Unable to use a dictionary condition defined from the Internal Users page for expiration date value in the authorization policy after upgrading to ACS 5.8.                                   |
| CSCvd01030 | Core file is generated when EAP-FAST authentication is performed using AnyConnect.                                                                                                            |
| CSCvd04752 | Unable to access ACS GUI over IPv6 address after installing 5.8 patch 4 or later.                                                                                                             |
| CSCvd27745 | ACS 5.7 and 5.8 are vulnerable to CVE-2016-8858.                                                                                                                                              |
| CSCvd30991 | SuperAdmin users authenticated via LDAP are unable to change the passwords for other SuperAdmin users.                                                                                        |
| CSCvd34752 | ACS uses the default certificate if the new server certificate name is same as default certificate.                                                                                           |
| CSCvd42702 | Authorization fails with the following error "Configured operand failed to match the value type" while configuring the compound conditions in Hierarchical attribute versus String attribute. |
| CSCvd50631 | UCP web application fails when TLS 1.0 for HTTPS Access option is disabled in the security settings page.                                                                                     |
| CSCvd65807 | ACS 5.8 displays "No Data Available" in the detailed reports after merging the ViewDB from support bundle.                                                                                    |
| CSCvd70407 | Runtime crashes due to incorrect LDAP directory attribute configured in ACS 5.8.                                                                                                              |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.9

**Table 14 Resolved Issues in Cumulative Patch ACS 5.8.0.32.8**

| Bug ID                     | Description                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCvd77636</a> | Support download of ACSView reports to local desktop.                                                                      |
| <a href="#">CSCvd91391</a> | Missing columns in the "Top N Authentications By Network Device" report in ACS 5.8.                                        |
| <a href="#">CSCvd98956</a> | Proper validation must be provided in End station filter > Mac address page to support the wildcard character "?".         |
| <a href="#">CSCve62941</a> | Incorrect warning message is displayed in ACSView reports.                                                                 |
| <a href="#">CSCve70587</a> | Stored Cross-site scripting (XSS) in Cisco ACS 5.8.1.4.                                                                    |
| <a href="#">CSCve76165</a> | After installing patch 7, ACS 5.8 sends incorrect NAS IP address while communicating with external RADIUS Identity Server. |
| <a href="#">CSCvf01320</a> | ACS Management service restarts if the reports run with some filters.                                                      |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.9**

[Table 15 on page 33](#) lists the issues that are resolved in the ACS 5.8.0.32.9 cumulative patch. You can download the ACS 5.8.0.32.9 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Note:** The ACS 5.8.0.32.9 patch can also be installed on ACS 5.8.1.4.

**Table 15 Resolved Issues in Cumulative Patch ACS 5.8.0.32.9**

| Bug ID                     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCve70595</a> | Cisco Access Control Server XML eXternal Entity (XXE) Injection Vulnerability - CstAction Component                                                                                                                                                                                                                                                                                                                                              |
| <a href="#">CSCve70616</a> | Cisco Access Control Server XML eXternal Entity (XXE) Injection Vulnerability - amfsecure component                                                                                                                                                                                                                                                                                                                                              |
| <a href="#">CSCvf05455</a> | ACS 5.8 patch 7 - All internal users are disabled after 45 days.                                                                                                                                                                                                                                                                                                                                                                                 |
| <a href="#">CSCvf14383</a> | ACS MAR cache issue with upper and lower case MAC addresses string comparison.                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">CSCvf22363</a> | ACS 5 impact to Apache TomCat vulnerabilities.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">CSCvf25975</a> | CRL check fails when two root CA certs from the same CA exist.                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">CSCvf38012</a> | IPv6 addresses with masks other than /128 cannot be used when adding NAS.                                                                                                                                                                                                                                                                                                                                                                        |
| <a href="#">CSCvf47906</a> | LDAP "test configuration" function uses only TLS 1.0.                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#">CSCvf62930</a> | Option to be added for AD Identity Resolution only against Joined Domain in ACS 5.8 (as in ACS 5.4).<br><br>This fix ensures that SAM account names are always searched in the joined domain (as in ACS 5.4).<br><br>A new option, "Search only in joined domain," is introduced in the GUI, which, if enabled, restricts the search only to the joined domain.<br><br>Account name with the domain markup is searched in the respective domain. |
| <a href="#">CSCvf66155</a> | Cisco Secure Access Control System Information Disclosure Vulnerability                                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">CSCvf76783</a> | ACS modifies the client NAS IP while RADIUS server is configured as an identity server.                                                                                                                                                                                                                                                                                                                                                          |
| <a href="#">CSCvf82233</a> | CA authentication issue is seen when CRL is enabled on two CA certificates with the same name.                                                                                                                                                                                                                                                                                                                                                   |

## Resolved Issues in Cumulative Patch ACS 5.8.0.32.10

**Table 15 Resolved Issues in Cumulative Patch ACS 5.8.0.32.9**

| Bug ID     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSCvf90786 | <p><b>ACS fails to resolve ambiguity for AD accounts.</b></p> <p>A new advanced tuning (registry) configuration for "IdentityLookupField" is introduced with the following three options:</p> <ul style="list-style-type: none"> <li>■ Search by SAM (Default)</li> <li>■ Search by CN</li> <li>■ Search by CN and SAM</li> </ul> <p>For authorization failures that occur because of conflicting SAM or CN accounts, you can choose either the SAM or the CN search. If further conflicts arise because of trusted domains, you can use the "no domain markup" configuration to further filter unwanted accounts.</p> <p>See the <i>User Guide for Cisco Secure Access Control System 5.8</i> for information on advanced tuning configuration.</p> |
| CSCvg21341 | ACS handling the check of TACACS+ packet's IPv6 source address against network devices incorrectly.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CSCvg29874 | CVE-2017-1000364 kernel: heap/stack gap jumping via unbounded stack allocations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CSCvg45489 | Unable to log out of ACS GUI when logged in using IPv6 address.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CSCvg46693 | ACS 5.8 : EAP-FAST authentication fails if Vocera supplicant provides expired/invalid PAC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CSCvg69718 | ACS patch-8 has not been installed completely at times.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CSCvg70018 | ACS: Evaluate CVE-2017-1000253.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Resolved Issues in Cumulative Patch ACS 5.8.0.32.10**

Table 16 on page 34 lists the issues that are resolved in the ACS 5.8.0.32.10 cumulative patch. You can download the ACS 5.8.0.32.10 cumulative patch from the following location: [Download Software](#). Refer to [Applying Cumulative Patches, page 21](#) section for instructions on how to apply the patch to your system.

**Table 16 Resolved Issues in Cumulative Patch ACS 5.8.0.32.10**

| Bug ID     | Description                                                                                     |
|------------|-------------------------------------------------------------------------------------------------|
| CSCvg47940 | ACS disconnected from AD when ACS cannot refresh its machine account.                           |
| CSCvh81084 | Make Disable Inactive User Accounts feature as case-insensitive.                                |
| CSCvh27607 | ACS performs DNS SRV queries for domains disabled in "Authentication Domains" AD configuration. |
| CSCvi68462 | ACS 5.8: Both bonded interfaces are not reachable after shut and no shut.                       |
| CSCvi85318 | Cisco Secure Access Control Server XML External Entity Injection Vulnerability                  |
| CSCvj09832 | SNMP OID for SN retrieves empty string for ACS 5.8.1 on SNS 3515/3595.                          |
| CSCvk69731 | ACS 5.8: Evaluation against CVE-2018-5390                                                       |

**Known Issues in ACS 5.8**

Table 17 on page 36 lists the known issues in ACS 5.8. You can also use the Bug Toolkit on Cisco.com to find any open bugs that do not appear here.

## Known Issues in ACS 5.8

**Note:** Cisco runs a security scan on the ACS application during every major release. We do not recommend you run a security scanning in the ACS production environment because such an operation carries risks that could impact the ACS application. You can execute the security scan operation in a pre-production environment.

You can use the following bug search tool query to view all ACS 5.8 open caveats:

[5.8 open bug search](#)

## Known Issues in ACS 5.8

**Table 17 Known Issues in ACS 5.8**

| Bug ID                                                                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCuv56583</a><br><br>ACS displays an incorrect error message for administrator password hashing errors.            | ACS displays the “System Failure: Generation of password hash timeout, your changes have not been saved.” error message when you enable password hashing for an administrator account while ACS runtime process are not running.<br><br>This problem occurs when you try to create an administrator account and enable password hashing option for that administrator in ACS web interface.<br><br>Workaround:<br><br>None. This issue does not create an impact in the functionality of the ACS web interface.                                                                                                                                                   |
| <a href="#">CSCuw05787</a><br><br>ACS displays incorrect data for a specific time range authentication trend reports.           | In ACS, choose Monitoring and Reports > Reports > ACS Reports > AAA Protocol > Authentication Trend and generate report with specific time ranges. ACS retrieves the Authentication Trend Report for the selected time range (for example Last 7 days). ACS must display the appropriate data when you click on a particular days report. But, ACS does not display the time range specific data properly except for the time range option Today.<br><br>This problem occurs when you try to generate authentication trend report for specific time ranges.<br><br>Workaround:<br><br>You can generate appropriate AAA protocol reports with required time range. |
| <a href="#">CSCuv02840</a><br><br>Unable to add local certificates in ACS after upgrading to ACS 5.8.                           | Unable to add local certificates in ACS after upgrading it from 5.5, 5.6, or 5.7 versions to 5.8 version and ACS does not display any error message for this issue.<br><br>This problem occurs when you upgrade from ACS 5.5, 5.6, or 5.7 to ACS 5.8 having management certificate expired.<br><br>Workaround:<br><br>Execute <b>acs-reset-config</b> command from ACS CLI.<br><br>(Or)<br><br>You must set the ACS clock time to previous day’s date and time. After changing ACS clock time, you can add new certificates.                                                                                                                                      |
| <a href="#">CSCuw06091</a><br><br>ACS view database fails to start after changing the IP address of a name server from ACS CLI. | View related processes in ACS fail to run after upgrading from ACS 5.7 patch 1 to ACS 5.8.<br><br>This process occurs when you upgrade from ACS 5.7 patch 1 to ACS 5.8 and change the IP address of the name server from ACS CLI.<br><br>Workaround:<br><br>Execute the <b>acsview replace-clean-db</b> command from ACS CLI to replace the current database with a clean new database.                                                                                                                                                                                                                                                                           |
| <a href="#">CSCuw14444</a><br><br>ACS displays an incorrect password range for creating internal users web interface.           | ACS displays the password range as 4-32 in creating internal users web interface. This password range is incorrect as ACS supports up to 128 characters for internal user password.<br><br>This problem occurs when you enter more than 32 characters for internal user password. ACS does not display an error messages as it supports up to 128 characters.<br><br>Workaround:<br><br>None. The supported range is 4 to 128.                                                                                                                                                                                                                                    |

## Known Issues in ACS 5.8

**Table 17 Known Issues in ACS 5.8 (continued)**

| Bug ID                                                                                                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">CSCuv58437</a><br>ACS does not allow you to edit the saved reports name.                                                                              | <p>Saved Reports in ACS does not work if you edit the name of the saved reports.</p> <p>This problem occurs when you edit the name of a saved reports in ACS Reports web interface.</p> <p>Workaround:</p> <p>Delete and add the report again.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <a href="#">CSCuv75650</a><br>ACS displays an incorrect error message for a logon restricted user when you use Kerberos protocol for PAP authentication           | <p>Kerberos authentication for logon restricted user does not display proper report logs. ACS must display the “24410 User authentication against Active Directory failed since user is considered to be in restricted logon hours.” error message. But, ACS displays the “24370 User credentials have been revoked” error message.</p> <p>This error message is reported, when the Kerberos PAP authentication is executed and the authentication fails with restricted hour permission.</p> <p>Workaround:</p> <p>You do not have an impact in the application functionality. ACS does not display the proper error messages when you use Kerberos protocol for PAP authentication. ACS displays the proper error message if you use MS-RPC protocol.</p>                                                                                                                                                      |
| <a href="#">CSCvd01030</a><br>ACS generates core file on EAP-FAST authentication with AnyConnect                                                                  | <p>Core File is generated on EAP-FAST authentication with AnyConnect.</p> <p>This problem occurs when EAP-FAST Mschap authentication is performed using AnyConnect.</p> <p>Workaround:</p> <p>Disable the Allow TLS-Renegotiation option if the Accept Client Certificate option is enabled in the ACS GUI.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <a href="#">CSCvd34752</a><br>ACS uses the default certificate if the new server certificate name is same as the default certificate                              | <p>ACS uses the default self-signed certificate if the new server certificate name is same as the default certificate.</p> <p>This problem occurs when the new server certificate name is same as the default certificate.</p> <p>Workaround:</p> <p>Submit the server certificate that is already mapped to management protocol.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <a href="#">CSCvf95674</a><br>Unable to do any action in ACS view reports when you click the details reports of RADIUS/TACACS authentication in Firefox (55.0.2). | <p>Unable to do any action in ACS view reports when you click the details reports of RADIUS/TACACS authentication in Firefox (55.0.2).</p> <p>This issue is seen when you enable automatic updates in Firefox settings. Once the latest version of Firefox is updated automatically (or installed manually) in 32-bit versions of Firefox on 64-bit operating systems.</p> <p>Workaround:</p> <ol style="list-style-type: none"> <li>1. Type about:config in the url of the browser and press <b>Enter</b>. The config page appears.</li> <li>2. Search for the attribute “dom.ipc.plugins.asyncdrawing.enabled”.</li> <li>3. By default, the value of the attribute is set to “True.” Change it to “False” and close the page to save the change.</li> </ol> <p>We recommend that you install 64-bit Firefox versions on 64-bit operating systems, and 32-bit Firefox versions on 32-bit operating systems.</p> |
| <a href="#">CSCvh88875</a><br>OLH is not updated for the new AD Identity Resolution added in 5.8p9.                                                               | <p>OLH is not updated for the new AD Identity Resolution added in 5.8p9.</p> <p>See the <i>User Guide for Cisco Secure Access Control System 5.8</i> for the documentation updates.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Documentation Updates

Table 18 on page 38 lists the updates to *Release Notes for Cisco Secure Access Control System 5.8*.

**Table 18    Updates to Release Notes for Cisco Secure Access Control System 5.8**

| Date       | Description                                                        |
|------------|--------------------------------------------------------------------|
| 02/27/2018 | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.9, page 33  |
| 07/21/2017 | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.8, page 32  |
| 03/03/2017 | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.7, page 31  |
| 11/18/2016 | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.6, page 30  |
| 8/25/2016  | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.5, page 29. |
| 6/7/2016   | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.4, page 28. |
| 5/20/2016  | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.3, page 28. |
| 4/08/2016  | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.2, page 26. |
| 1/04/2016  | Added Resolved Issues in Cumulative Patch ACS 5.8.0.32.1, page 26. |
| 9/29/2015  | Cisco Secure Access Control System, Release 5.8.                   |

## Product Documentation

**Note:** It is possible for the printed and electronic documentation to be updated after original publication. Therefore, you should review the documentation on <http://www.cisco.com> for any updates.

Table 19 on page 39 lists the product documentation that is available for ACS 5.8. To find end-user documentation for all the products on Cisco.com, go to: <http://www.cisco.com/go/techdocs>.

Select **Products > Security > Access Control and Policy > Policy and Access Management > Cisco Secure Access Control System**.

**Table 19 Product Documentation**

| Document Title                                                                                     | Available Formats                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Cisco Secure Access Control System In-Box Documentation and China RoHS Pointer Card</i>         | <a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-documentation-roadmaps-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-documentation-roadmaps-list.html</a>             |
| <i>Migration Guide for Cisco Secure Access Control System 5.8</i>                                  | <a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-installation-guides-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-installation-guides-list.html</a>                   |
| <i>User Guide for Cisco Secure Access Control System 5.8</i>                                       | <a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-user-guide-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-user-guide-list.html</a>                                     |
| <i>CLI Reference Guide for Cisco Secure Access Control System 5.8</i>                              | <a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-command-reference-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-command-reference-list.html</a>                       |
| <i>Supported and Interoperable Devices and Software for Cisco Secure Access Control System 5.8</i> | <a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-device-support-tables-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-device-support-tables-list.html</a>               |
| Installation and Upgrade Guide for Cisco Secure Access Control System 5.8                          | <a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-installation-guides-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-installation-guides-list.html</a>                   |
| Software Developer's Guide for Cisco Secure Access Control System 5.8                              | <a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-programming-reference-guides-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-programming-reference-guides-list.html</a> |
| <i>Regulatory Compliance and Safety Information for Cisco Secure Access Control System</i>         | <a href="http://www.cisco.com/c/en/us/td/docs/net_mgmt/cisco_secure_access_control_system/5-6/regulatory/compliance/csacsresi.html">http://www.cisco.com/c/en/us/td/docs/net_mgmt/cisco_secure_access_control_system/5-6/regulatory/compliance/csacsresi.html</a>   |

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