



# Supported and Interoperable Devices and Software for Cisco Secure Access Control System 5.8.1

Revised: September 12, 2017

The Cisco Secure Access Control System Release 5.8, hereafter referred to as ACS, works with many devices. You can use this document to find devices and software that ACS 5.8.1 supports.

For details regarding limitations and known problems, see the [Release Notes for Cisco Secure Access Control System 5.8.1](#).

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## Supported Devices

ACS 5.8.1 supports all devices that implement the authentication, authorization, and accounting (AAA) mechanism similar to Cisco IOS 12.x.

### RADIUS and TACACS+

ACS fully interoperates with third-party RADIUS and TACACS+ client devices that adhere to the governing protocols. Support for RADIUS and TACACS+ functions, depends on the device-specific implementation. For example, on a specific device:

- TACACS+ might not be available for user authentication and authorization
- RADIUS might not be available for administrative authentication and authorization

For TACACS+ devices, ACS conforms to the TACACS+ protocol as Cisco Systems defined in draft 1.78, which is available at <http://www.cisco.com>

For RADIUS, ACS conforms to the following Request For Comments (RFC):

- **RFC 2138**—Remote Authentication Dial In User Service (RADIUS)
- **RFC 2139**—RADIUS Accounting
- **RFC 2865**—Remote Authentication Dial In User Service (RADIUS)
- **RFC 2866**—RADIUS Accounting
- **RFC 2867**—RADIUS Accounting for Tunnel Protocol Support
- **RFC 2868**—RADIUS Attributes for Tunnel Protocol Support
- **RFC 2869**—RADIUS Extensions

**Note:** For details regarding the implementation of vendor-specific attributes (VSAs), see the *User Guide for Cisco Secure Access Control System 5.8*.

Table 1 on page 2 lists some of the tested network elements that ACS 5.8.1 supports.

**Table 1 Tested Network Elements**

Network Elements	Operating System with Version
Cisco 2610	IOS 12.3.17b
Cisco 3640	IOS 12.3.17b
Cisco 7200	IOS 12.3.17b
Cisco 3750	IOS 12.2(25r)
Catalyst WS-3560-24TS Switch	IOS 12.2(25)-SEC2
Cisco 515E PIX	PIX OS 6.3.5
Cisco AP 1200	IOS 12.3(7)JA1
Nexus 7000	4.2(1)
Catalyst 6000	12.2 (SIERRA_INTEG_080914)
IP Phone	Cisco IP Phone 7970
VPN Concentrator 3000	VPN 3000 4.7.2.I
ASA-5510	8.0(4)

## Supported External Identity Stores

**Table 1 Tested Network Elements (continued)**

Network Elements	Operating System with Version
Cisco Wireless Controller- WLC 4400	–
Load Balancer CSS11503-AC L0	08.10.1.06
Cisco VPN Client	5.0.04.3
Cisco AnyConnect VPN Client	3.1

## CoA Support

ACS supports Change of Authorization (CoA) on the Cisco IOS version 12.2(52)SE. [Table 2 on page 3](#) lists the devices and images that support CoA:

**Table 2 Devices and Images that Support CoA**

Devices	Image
Cisco 2960	LANbase
Cisco 2975	LANbase
Cisco 3560/3560 version 2	IPbase
Cisco 3750/3750 version 2	IPbase
Cisco 3560E	IPbase
Cisco 3750E	IPbase
IE 3000	IPbase
CBS31xx	IPbase
CBS30xx	IPbase

## Supported External Identity Stores

ACS 5.8.1 supports the following external identity stores:

- [Windows Active Directory, page 3](#)
- [Lightweight Directory Access Protocol Server, page 4](#)
- [RSA Secure ID Server, page 4](#)
- [Radius Token OTP Server, page 4](#)

## Windows Active Directory

ACS 5.8.1 supports all editions of:

- Windows AD 2008
- Windows AD 2008 R2
- Windows AD 2012
- Windows AD 2012 R2

## Supported 802.1X Clients

- Windows AD 2012 R2 update 2

## Lightweight Directory Access Protocol Server

ACS 5.8.1 supports Lightweight Directory Access Protocol (LDAP) servers. The supported LDAP servers include, but are not limited to:

- SunONE LDAP Directory Server - Version 5.5
- Linux LDAP Directory Server - Version 4.1
- Open LDAP Directory Server

## RSA Secure ID Server

ACS 5.8.1 supports:

- RSA 8.x

## Radius Token OTP Server

ACS 5.8.1 supports:

- Any RADIUS RFC 2865-compliant token server
- SafeWord Server

## Supported 802.1X Clients

ACS 5.8.1 supports all 802.1X clients. These include, but are not limited to:

- Cisco AnyConnect 3.0
- Cisco AnyConnect 3.1
- Microsoft Built-In Windows Vista 802.1X Client
- Microsoft Built-In Windows 7 802.1X Client
- Microsoft Built-In Windows 8 802.1X Client
- Microsoft Built-In Windows 8.1 802.1X Client
- Microsoft Built-In Windows 8.1 update 2 802.1X Client
- Microsoft Built-In Windows 10 802.1X Client
- Juniper Odyssey 4.x
- Intel Wireless WiFi Link with AMT support
- CSSC SDK for Vista

## Supported Remote Repositories

ACS 5.8.1 supports the following remote repositories:

- cdrom—Local (CD-ROM) Drive (read only)
- disk—Local hard disk storage
- ftp—URL using a FTP server
- http—URL using a HTTP server (read only)
- https—URL using a HTTPS server (read only)
- nfs—URL using a NFS server
- sftp—URL using a SFTP server
- tftp—URL using a TFTP server

## Supported Browsers

ACS 5.8.1 supports the following browser platforms:

- MAC OS
  - Mozilla Firefox version 43.x
  - Mozilla Firefox version 44.x
  - Mozilla Firefox version 45.x
  - Mozilla Firefox version 46.x
  - Mozilla Firefox version 47.x
  - Mozilla Firefox version 48.x
  - Mozilla Firefox version 49.x
- Windows 7 32-bit and Windows 7 64-bit
  - Internet Explorer version 11.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
  - Mozilla Firefox version 47.x
  - Mozilla Firefox version 48.x
  - Mozilla Firefox version 49.x
  - Mozilla Firefox version 38.4.0 ESR

## Supported Authentication Protocols

- Mozilla Firefox version 38.5.2 ESR
- Windows 8.x
  - Internet Explorer version 10.x (Windows 8)
  - Internet Explorer version 11.x (Windows 8.1)
  - Mozilla Firefox version 43.x
  - Mozilla Firefox version 44.x
  - Mozilla Firefox version 45.x
  - Mozilla Firefox version 46.x
  - Mozilla Firefox version 47.x
  - Mozilla Firefox version 48.x
  - Mozilla Firefox version 49.x
  - Mozilla Firefox version 38.5.2 ESR

**Note:** Mozilla Firefox version 46.x or later is supported only after installing ACS 5.8 patch 3 or later on top of ACS 5.8.1 release.

**Note:** You can launch the ACS web interface using IPv6 addresses only in Internet Explorer 7.x or later and Mozilla Firefox 3.x versions.

## Supported Authentication Protocols

ACS 5.8.1 supports the following protocols:

- PAP/ASCII
- EAP-MD5
- EAP-TLS
- PEAP (with inner EAP-MSCHAPv2/EAP-GTC/EAP-TLS)
- EAP-FAST (with inner EAP-MSCHAPv2/EAP-GTC/EAP-TLS)
- TACACS+ (PAP/CHAP/MSCHAP)
- LEAP
- CHAP
- MSCHAP (v1)
- MSCHAP (v2)

## SNMP Support

ACS 5.8.1 supports Simple Network Management Protocol (SNMP) to provide logging services. The SNMP agent provides read-only SNMPv1 and SNMPv2c support. The supported MIBs include:

- SNMPv2-MIB

## Syslog Support

- RFC1213-MIB (MIB II)
- IF-MIB
- IP-MIB
- TCP-MIB
- UDP-MIB
- CISCO-CDP-MIB
- ENTITY-MIB

## Syslog Support

ACS 5.8.1 conforms to syslog standards (RFC 3164 and RFC 5424) and supports any generic syslog server. In addition, ACS supports the following:

- Syslog over TCP and UDP follows the standards of RFC 6587.
- Syslog over TLS (Secure TCP and UDP) follows the standards of RFC 5425.

## ACS 5.8.1 Remote Database Support

ACS supports the following remote databases:

- Microsoft SQL Server 2014
- Microsoft SQL Server 2012 R2
- Microsoft SQL Server 2008 R2
- Oracle Database 10g
- Oracle Database 12c

## Supported VMware Versions

ACS 5.8.1 can be installed on the VMware ESXi 5.5; ESXi 5.5 update 1, update 2, and update 3; and ESXi 6.0 update 2 versions.

For information on the VMware machine requirements and installation procedures, refer to [Installing ACS in a VMware Virtual Machine](#) chapter in the *Installation and Upgrade Guide for Cisco Secure Access Control System 5.8.1*.

## Supported OpenSSH and OpenSSL Versions

ACS 5.8.1 supports the following OpenSSH and OpenSSL versions:

- OpenSSH\_6.6
- ciscossl-1.0.1m-4.10.x86\_64

## Documentation Updates

**Table 3 Updates to the Supported and Interoperable Devices and Software for Cisco Secure Access Control System 5.8.1**

Date	Description
03/21/2016	Cisco Secure Access Control System, Release 5.8.1.

## Related Documentation

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

**Table 4 on page 8** lists the product documentation that is available for ACS 5.8.1. 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 > Cisco Secure Access Control System > Cisco Secure Access Control System 5.8.1**.

**Table 4 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 5.8.1</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 5.8.1</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 5.8.1</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>
Installation and Upgrade Guide for Cisco Secure Access Control System 5.8.1	<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>Release Notes for Cisco Secure Access Control System 5.8.1</i>	<a href="http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-release-notes-list.html">http://www.cisco.com/c/en/us/support/security/secure-access-control-system/products-release-notes-list.html</a>
Software Developer's Guide for Cisco Secure Access Control System 5.8.1	<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/5-8-1/regulatory/compliance/csacsrCSI.html">http://www.cisco.com/c/en/us/td/docs/net_mgmt/cisco_secure_access_control_system/5-8-1/regulatory/compliance/csacsrCSI.html</a>

## Notices

The following notices pertain to this software license.

## OpenSSL/Open SSL Project

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).



## Related Documentation

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

### Original SSLeay License:

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This package is an SSL implementation written by Eric Young (eay@cryptsoft.com).

The implementation was written so as to conform with Netscapes SSL.

## Related Documentation

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