



# Cisco Identity Services Engine Network Component Compatibility, Release 1.2

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This document describes Cisco Identity Services Engine (ISE) compatibility with switches, wireless LAN controllers, and other policy enforcement devices as well as operating systems with which Cisco ISE interoperates.

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## Supported Network Access Devices

Cisco ISE supports interoperability with any Cisco or non-Cisco RADIUS client network access device (NAD) that implements common RADIUS behavior (similar to Cisco IOS 12.x) for standards-based authentication. For a list of supported authentication methods, see the “Configuring Authentication Policies” chapter of the *Cisco Identity Services Engine User Guide, Release 1.2*.

Certain advanced use cases, such as those that involve posture assessment, profiling, and web authentication, are not consistently available with non-Cisco devices or may provide limited functionality, and are therefore not supported with non-Cisco devices. In addition, certain other advanced functions like central web authentication (CWA), Change of Authorization (CoA), Security Group Access (SGA), and downloadable access control lists (ACLs), are only supported on Cisco devices. For a full list of supported Cisco devices, see [Table 1](#).



The NADs that are not explicitly listed in [Table 1](#) and do not support RADIUS CoA must use inline posture.

For information on enabling specific functions of Cisco ISE on network switches, see the Switch and Wireless LAN Controller Configuration Required to Support Cisco ISE Functions appendix of the [Cisco Identity Services Engine User Guide, Release 1.2](#).

**Note**

Some switch models and IOS versions may have reached the end-of-life date and interoperability may not be fully supported.

**Caution**

To support the Cisco ISE profiling service, use the latest version of NetFlow, which has additional functionality that is needed to operate the profiler. If you use NetFlow version 5, then you can use version 5 only on the primary NAD at the access layer, as it will not work anywhere else.

**Table 1** Supported Network Access Devices

Device	Recommended OS Version	MAB	802.1X	Web Auth		Session CoA	VLAN	DACL	SGA <sup>1</sup>	Device Sensors
				CWA	LWA					
<b>Access Switches</b>										
Catalyst 2960, ISR EtherSwitch ES2 (Catalyst 2960-S, Catalyst 2960-C, Catalyst 2960-SF, Catalyst 2960Plus)	IOS v 15.0.2-SE2 (ED) LAN BASE <sup>2</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Catalyst 2960–XR, Catalyst 2960–X	IOS v 15.0.1-SE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Catalyst 2975	IOS v 12.2.55-SE7 (ED)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Catalyst 3560, Catalyst 3560-C	IOS v 15.0.2-SE2 (ED)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 3560-E, ISR EtherSwitch ES3	IOS v 15.0.2-SE2 (ED)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 3560-X	IOS v 15.0.2-SE2 (ED)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 3750	IOS v 15.0.2-SE2 (ED) IP BASE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 3750-E	IOS v 15.0.2-SE2 (ED) IP BASE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 3750 Metro	IOS v 15.0.2-SE2 (ED) IP BASE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 3750-X	IOS v 15.0.2-SE2 (ED) IP BASE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 3850	IOS XE 3.2.2 SE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No

**Table 1** Supported Network Access Devices (continued)

Device	Recommended OS Version	MAB	802.1X	Web Auth		Session CoA	VLAN	DAACL	SGA <sup>1</sup>	Device Sensors
				CWA	LWA					
Catalyst 4500 Metro Supervisor Engine 6-E	Cisco Network Assistant v 5.8.5.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Catalyst 4500 Series Supervisor Engine II - Plus - TS, V-10GE	IOS v 15.0.2 SG6 (ED) or IOS v 12.2.54.SG1(ED)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Catalyst 4500 Supervisor Engine 7-E, 7L-E	IOS-XE v 3.4.0 SG (ED)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 4500 Supervisor Engine 6-E, 6L-E	IOS v 15.1.2 SG (ED)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Catalyst 6500	IOS v 15.0(1)SY1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Catalyst 6500/7600 series Multiprocessor WAN App	IOS v 12.4.25 G (MD)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Catalyst 6500 series Distribution Forwarding Card 3A	IOS v 12.2(18r) S1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Catalyst 6500 (Supervisor 32/Supervisor 720)	IOS v 12.2(33)SXJ5 (MD)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>Data Center Switches</b>										
Catalyst 4900	IOS v15.0(2) SG1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—
Nexus 7000 <sup>3</sup>	NX-OS 6.2	No	No	No	No	No	Yes	No	Yes	No
<b>Wireless<sup>4</sup></b>										
Wireless LAN Controller (WLC) 2100 <sup>5</sup>	7.0.240.0(ED)	No <sup>6</sup>	Yes	No	Yes	Yes	Yes	Yes	No	No
Wireless LAN Controller (WLC) 4400 <sup>5</sup>	4.2.207.54M MESH	No <sup>6</sup>	Yes	No	Yes	Yes	Yes	Yes	No	No
Wireless LAN Controller (WLC) 2500 <sup>7</sup>	7.3.112.0.(ED), 7.4.x, 7.5	Yes <sup>8</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wireless LAN Controller (WLC) 5500 <sup>7</sup>	7.3.112.0.(ED), 7.4.x, 7.5	Yes <sup>8</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Table 1** Supported Network Access Devices (continued)

Device	Recommended OS Version	MAB	802.1X	Web Auth		Session CoA	VLAN	DAACL	SGA <sup>1</sup>	Device Sensors
				CWA	LWA					
Wireless LAN Controller (WLC) 7500 <sup>7</sup>	7.3.112.0.(ED), 7.4.x, 7.5	Yes <sup>8</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WiSM1 Blade for 6500	7.0.240.0(ED)	No <sup>6</sup>	Yes	No	Yes	Yes	Yes	Yes	No	No
WiSM2 Blade for 6500	7.0.240.0(ED)	No <sup>6</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
WLC for ISR (ISR2 ISM, SRE700, and SRE900)	7.3.112.0(ED)	No <sup>6</sup>	Yes	No	Yes	Yes	Yes	Yes	No	No
WLC 5760	IOS XE 3.2.2 SE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ISR 88x, 89x Series	15.3.2T(ED)	Yes	Yes	No	LWA (L3)	Yes	Yes	No	Yes (IPsec)	No
ISR 19x, 29x, 39x Series	15.3.2T(ED)	Yes	Yes	No	LWA (L3)	Yes	Yes	Yes	Yes (IPsec)	No

- For a complete list of Cisco TrustSec feature support, see [http://www.cisco.com/en/US/solutions/ns170/ns896/ns1051/trustsec\\_matrix.html](http://www.cisco.com/en/US/solutions/ns170/ns896/ns1051/trustsec_matrix.html).
- 2960 LAN Lite is supported but not recommended with ISE 1.2 due to limited feature support. LAN Lite supports only 802.1X and VLAN assignments.
- SGA only.
- Cisco Wireless LAN Controllers (WLCs) do not support downloadable ACLs (dACLs), but support named ACLs. Autonomous AP deployments (no WLC) also require deployment of an Inline Posture Node for posture support. Profiling services are currently supported for 802.1X-authenticated WLANs only on the WLC with CoA support. Hybrid Remote Edge Access Point (HREAP) is not supported.
- WLCs prior to release 7.0.116.0 do not support CoA and require deployment of an ISE Inline Posture Node to support posture services. Use of Inline Posture Node requires WLC version 7.0.98 or later.
- Supports MAC filtering with RADIUS lookup.
- DNS based ACL feature will be supported in WLC 8.0. Not all Access Points support DNS based ACL. Refer to Cisco Access Point s Release Notes for more details.
- Support for session ID and CoA with MAC filtering provides MAB-like functionality.

## Supported AAA Attributes for Third-Party VPN Concentrators

For third-party VPN concentrators to integrate with Cisco ISE and Inline Posture nodes, the following authentication, authorization, and accounting (AAA) attributes must be included in RADIUS communication:

- Calling-Station-Id (for MAC\_ADDRESS)
- USER\_NAME
- NAS\_PORT\_TYPE

Also, for VPN devices, the RADIUS accounting message must have the framed-ip-address attribute set to the VPN client's IP address pool.

# Supported External Identity Sources

**Table 2** Supported External Identity Sources

External Identity Source	OS/Version
<b>Active Directory<sup>1, 2, 3</sup></b>	
Microsoft Windows Active Directory 2003	—
Microsoft Windows Active Directory 2003 R2	—
Microsoft Windows Active Directory 2008	—
Microsoft Windows Active Directory 2008 R2	—
Microsoft Windows Active Directory 2012	—
<b>LDAP Servers</b>	
SunONE LDAP Directory Server	Version 5.2
OpenLDAP Directory Server	Version 2.4.23
<b>Token Servers</b>	
RSA ACE/Server	6.x series
RSA Authentication Manager	7.x series
Any RADIUS RFC 2865-compliant token server	—

1. Cisco ISE OSCP functionality is available only on Microsoft Windows Active Directory 2008 and 2008 R2.

2. Cisco ISE SCEP functionality is available only on Microsoft Windows Active Directory 2008 R2.

3. Microsoft Windows Active Directory version 2000 or its functional level are not supported by Cisco ISE.

## RADIUS

Cisco ISE interoperates fully with third-party RADIUS devices that adhere to the standard protocols. Support for RADIUS functions depends on the device-specific implementation.

## RFC Standards

Cisco ISE conforms to the following RFCs:

- *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 Modifications for Tunnel Protocol Support*

## Supported Browsers for the Admin Portal

- Mozilla Firefox Versions 5.x, 8.x, 9.x, 14.x, 15.x, 18.x, 19.x, and 20.x (applicable for Windows, Mac OS X, and Linux-based operating systems)

- Windows Internet Explorer 8.x, 9.x, and 10.x

**Note**

The Cisco ISE Admin portal does not support using the Microsoft IE8 browser in its IE7 Compatibility Mode (the Microsoft IE8 is supported in its IE8-only mode).

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

The minimum required screen resolution to view the Cisco ISE Admin portal and for a better user experience is 1280 x 800 pixels.

## Supported Virtual Environments

Cisco ISE supports the following virtual environment platforms:

- VMware ESX 4.x
- VMware ESXi 4.x
- VMware ESXi 5.x

## Supported Client Machine and Personal Device Operating Systems, Supplicants, and Agents

[Table 3](#) lists the supported client machine operating systems, browsers, and agent versions supporting each client machine type. For all devices, you must also have cookies enabled in the web browser.

**Note**

All standard 802.1X supplicants can be used with Cisco ISE, Release 1.2 standard and advanced features as long as they support the standard authentication protocols supported by Cisco ISE. (For information on allowed authentication protocols, see the “Managing Authentication Policies” chapter of the [Cisco Identity Services Engine User Guide, Release 1.2](#)). For the VLAN change authorization feature to work in a wireless deployment, the supplicant must support IP address refresh on VLAN change.

## Cisco NAC Agent Interoperability Between Cisco NAC Appliance and Cisco ISE

Different versions of Cisco NAC Agent are supported for integration with Cisco NAC Appliance and Cisco ISE. Current releases are developed to work in either environment, however, interoperability between deployments is not guaranteed. Therefore, there is no explicit interoperability support for a given NAC Agent version intended for one environment. If you require support for both Cisco NAC Appliance and Cisco ISE using a single NAC Agent, be sure to test NAC Agent in the specific environment to verify compatibility.

Unless there is a specific defect or feature required for your NAC Appliance deployment, deploy the most current agent certified for the Cisco ISE deployment. If an issue arises, restrict the use of NAC Agent to its intended environment and contact the Cisco Technical Assistance Center (Cisco TAC) for assistance. Cisco will be addressing this issue through the standard Cisco TAC support escalation process, but NAC Agent interoperability is not guaranteed.

Cisco is working on an approach to address NAC Agent interoperability testing and support in an upcoming release.

## Client Machine Operating Systems and Agent Support in Cisco ISE

- [Google Android](#)
- [Apple iOS](#)
- [Apple Mac OS X](#)
- [Microsoft Windows](#)
- [Others](#)

**Table 3** *Google Android*<sup>1</sup>

Client Machine Operating System	Web Browser	Supplicants (802.1X)	Agent	VPN
Google Android 4.0.4	<ul style="list-style-type: none"> <li>• Native browser</li> <li>• Mozilla Firefox 5</li> </ul>	Google Android Supplicant 4.0.4	—	—
Google Android 4.0.3	<ul style="list-style-type: none"> <li>• Native browser</li> <li>• Mozilla Firefox 5</li> </ul>	Google Android Supplicant 4.0.3	—	—
Google Android 4.0	<ul style="list-style-type: none"> <li>• Native browser</li> </ul>	Google Android Supplicant 4.0	—	—
Google Android 3.2.1	<ul style="list-style-type: none"> <li>• Native browser</li> <li>• Mozilla Firefox 5</li> </ul>	Google Android Supplicant 3.2.1	—	—
Google Android 3.2	<ul style="list-style-type: none"> <li>• Native browser</li> </ul>	Google Android Supplicant 3.2	—	—
Google Android 2.3.6	<ul style="list-style-type: none"> <li>• Native browser</li> <li>• Mozilla Firefox 5</li> </ul>	Google Android Supplicant 2.3.6	—	—
Google Android 2.3.3	<ul style="list-style-type: none"> <li>• Native browser</li> <li>• Mozilla Firefox 5</li> </ul>	Google Android Supplicant 2.3.3	—	—
Google Android 2.2.1	<ul style="list-style-type: none"> <li>• Native browser</li> </ul>	Google Android Supplicant 2.2.1	—	—
Google Android 2.2	<ul style="list-style-type: none"> <li>• Native browser</li> <li>• Mozilla Firefox 5</li> </ul>	Google Android Supplicant 2.2	—	—

1. Because of the open access-nature of Android implementation on available devices, Cisco ISE may not support certain Android OS version and device combinations.

**Table 4** *Apple iOS*<sup>1</sup>

Client Machine Operating System	Web Browser	Supplicants (802.1X)	Agent	VPN
Apple iOS 6	<ul style="list-style-type: none"> <li>• Safari 6</li> </ul>	Apple iOS Supplicant 6	—	—
Apple iOS 5.1	<ul style="list-style-type: none"> <li>• Safari 5</li> <li>• Mozilla Firefox 5</li> </ul>	Apple iOS Supplicant 5.1	—	—

**Table 4** Apple iOS <sup>1</sup>

Client Machine Operating System	Web Browser	Supplicants (802.1X)	Agent	VPN
Apple iOS 5.0.1	<ul style="list-style-type: none"> <li>Safari 5</li> <li>Mozilla Firefox 5</li> </ul>	Apple iOS Supplicant 5.0.1	—	—
Apple iOS 5.0	<ul style="list-style-type: none"> <li>Safari 5</li> <li>Mozilla Firefox 5</li> </ul>	Apple iOS Supplicant 5.0	—	—

- While Apple iOS devices use Protected Extensible Authentication Protocol (PEAP) with Cisco ISE or 802.1x, the public certificate includes a CRL distribution point that the iOS device needs to verify but it cannot do it without network access. Click “confirm/accept” on the iOS device to authenticate to the network.

**Table 5** Apple Mac OS X

Client Machine Operating System	Web Browser	Supplicants (802.1X)	Cisco ISE	Mac OS X Agent	VPN
Apple Mac OS X 10.6	<ul style="list-style-type: none"> <li>Apple Safari 4, 5</li> <li>Google Chrome 11, 12, 13, 14, 15, 16 <sup>2</sup></li> <li>Mozilla Firefox 3.6, 4, 5, 9</li> </ul>	Apple Mac OS X Supplicant 10.6	1.2	4.9.0.1006	AnyConnect version 3.0.08057, 2.5.3041
Apple Mac OS X 10.7	<ul style="list-style-type: none"> <li>Apple Safari 5.1, 6.0<sup>1</sup></li> <li>Google Chrome 11, 12, 13, 14, 15, 16 <sup>2</sup></li> <li>Mozilla Firefox 3.6, 4, 5, 9</li> </ul>	Apple Mac OS X Supplicant 10.7	1.2	4.9.0.1006	AnyConnect version 3.0.08057
Apple Mac OS X 10.8	<ul style="list-style-type: none"> <li>Apple Safari 6.0,</li> <li>Mozilla Firefox 14</li> </ul>	Apple Mac OS X Supplicant 10.8	1.2	4.9.0.1006	—

- Apple Safari version 6.0 is only supported on Mac OS X 10.7.4 and later versions of the operating system.
- If you are using Mac OS X clients with Java 7, you cannot download the Agents using Google Chrome browser. Java 7 runs only on 64-bit browsers and Chrome is a 32-bit browser. It is recommended to use either previous versions of Java or other browsers while downloading the Agents.



Table 6 Microsoft Windows<sup>1</sup>

Client Machine Operating System	Web Browser	Supplicants (802.1X)	Cisco ISE	Cisco NAC Agent	Cisco NAC Web Agent	VPN
<b>Microsoft Windows 8</b> <sup>2,3,4</sup>						
Windows 8 Windows 8 x64 Windows 8 Professional Windows 8 Professional x64 Windows 8 Enterprise Windows 8 Enterprise x64	<ul style="list-style-type: none"> <li>Microsoft IE 10</li> </ul>	<ul style="list-style-type: none"> <li>Microsoft Windows 8 802.1X Client</li> </ul>	1.2	4.9.0.1008	4.9.0.1005	AnyConnect version 3.1.00495
<b>Microsoft Windows 7</b> <sup>5</sup>						
Windows 7 Professional Windows 7 Professional x64 Windows 7 Ultimate Windows 7 Ultimate x64 Windows 7 Enterprise Windows 7 Enterprise x64 Windows 7 Home Premium Windows 7 Home Premium x64 Windows 7 Home Basic Windows 7 Starter Edition	<ul style="list-style-type: none"> <li>Microsoft IE 9, 10<sup>6</sup></li> <li>Google Chrome 11, 12, 13, 14, 15, 16</li> <li>Mozilla Firefox 3.6, 4, 5, 9</li> </ul>	<ul style="list-style-type: none"> <li>Microsoft Windows 7 802.1X Client</li> <li>AnyConnect Network Access Manager</li> </ul>	1.2	4.9.0.1008	4.9.0.1005	AnyConnect version 3.1.00495
<b>Microsoft Windows Vista</b> <sup>5</sup>						
Windows Vista SP1, SP2 Windows Vista x64 SP1, SP2	<ul style="list-style-type: none"> <li>Microsoft IE 6, 7, 8, 9</li> <li>Google Chrome 8, 9, 11, 12, 13, 14, 15, 16</li> <li>Mozilla Firefox 3.6, 4, 5, 9</li> </ul>	<ul style="list-style-type: none"> <li>Microsoft Windows Vista 802.1X Client</li> <li>Cisco Secure Services Client (SSC) 5.x</li> <li>AnyConnect Network Access Manager</li> </ul>	1.2	4.9.0.1008	4.9.0.1005	AnyConnect version 3.1.00495

Table 6 Microsoft Windows<sup>1</sup>

Client Machine Operating System	Web Browser	Supplicants (802.1X)	Cisco ISE	Cisco NAC Agent	Cisco NAC Web Agent	VPN
<b>Microsoft Windows XP<sup>5</sup></b>						
Windows XP Media Center Edition, SP2, SP3	<ul style="list-style-type: none"> <li>• Microsoft IE 6, 7, 8, 9</li> <li>• Google Chrome 11, 12, 13, 14, 15, 16</li> <li>• Mozilla Firefox 3.6, 9</li> </ul>	<ul style="list-style-type: none"> <li>• Microsoft Windows XP 802.1X Client</li> <li>• Cisco Secure Services Client (SSC) 5.x</li> <li>• AnyConnect Network Access Manager</li> </ul>	1.2	4.9.0.1008	4.9.0.1005	AnyConnect version 3.1.00495
Windows XP Tablet PC, SP2, SP3						
Windows XP Home, SP2						
Windows XP Professional SP2, SP3						
Windows XP Professional x64, SP2						

1. It is recommended to use the Cisco NAC/Web Agent versions along with the corresponding Cisco ISE version.
2. In Windows 8, Internet Explorer 10 has two modes: Desktop and Metro. In Metro mode, the ActiveX plugins are restricted. You cannot download the Cisco NAC Agent in Metro mode. You must switch to Desktop mode, ensure ActiveX controls are enabled, and then launch Internet Explorer to download the Cisco NAC Agent. (If users are still not able to download Cisco NAC agent, check and enable “compatibility mode.”)
3. When you create a Cisco ISE client provisioning policy to accommodate Windows 8, you must specify the “Windows All” operating system option.
4. Windows 8 RT is not supported.
5. Cisco ISE does not support the Windows Embedded operating systems available from Microsoft.
6. When Internet Explorer 10 is installed on Windows 7, to get full network access, you need to update to March 2013 Hotfix ruleset.

Table 7 Others

Client Machine Operating System	Web Browser	Supplicants (802.1X)	Agent	VPN
Red Hat Enterprise Linux (RHEL) 5	<ul style="list-style-type: none"> <li>• Google Chrome 11</li> <li>• Mozilla Firefox 3.6, 4, 5</li> </ul>	No official support <sup>1</sup>	—	—
Ubuntu	Mozilla Firefox 3.6	No official support	—	—

1. Although not supported by Cisco, the WPA\_Supplicant and Open1X Supplicant are available for use with Linux.

## Supported Operating Systems and Browsers for Sponsor, Guest, and My Devices Portals

These Cisco ISE portals support the following operating system and browser combinations. These portals require that you have cookies enabled in your web browser.

**Table 8** Supported Operating Systems and Browsers

Supported Operating System	Browser Versions
Google Android <sup>1</sup> 4.0.4, 4.0.3, 4.0, 3.2.1, 3.2, 2.3.6, 2.3.3, 2.2.1, 2.2	<ul style="list-style-type: none"> <li>Native browser</li> </ul>
Apple iOS 6, 5.1, 5.0.1, 5.0	<ul style="list-style-type: none"> <li>Safari 5, 6</li> </ul>
Apple Mac OS X 10.5, 10.6, 10.7, 10.8	<ul style="list-style-type: none"> <li>Mozilla Firefox 3.6, 4, 5, 9</li> <li>Safari 4, 5, 6</li> <li>Google Chrome 11</li> </ul>
Microsoft Windows 8 <sup>2</sup>	<ul style="list-style-type: none"> <li>Microsoft IE 10</li> </ul>
Microsoft Windows 7 <sup>3</sup>	<ul style="list-style-type: none"> <li>Microsoft IE 9</li> <li>Mozilla Firefox 3.6, 5, 9</li> <li>Google Chrome 11</li> </ul>
Microsoft Windows Vista, Microsoft Windows XP	<ul style="list-style-type: none"> <li>Microsoft IE 6, 7, 8</li> <li>Mozilla Firefox 3.6, 9</li> <li>Google Chrome 5</li> </ul>
Red Hat Enterprise Linux (RHEL) 5	<ul style="list-style-type: none"> <li>Mozilla Firefox 3.6, 4, 5, 9</li> <li>Google Chrome 11</li> </ul>
Ubuntu	<ul style="list-style-type: none"> <li>Mozilla Firefox 3.6, 9</li> </ul>

1. Because of the open access-nature of Android implementation on available devices, Cisco ISE may not support certain Android OS version and device combinations.
2. In Windows 8, Internet Explorer 10 has two modes: Desktop and Metro. In Metro mode, the ActiveX plugins are restricted. You cannot download the Cisco NAC Agent in Metro mode. You must switch to Desktop mode, ensure ActiveX controls are enabled, and then launch Internet Explorer to download the Cisco NAC Agent. (If users are still not able to download Cisco NAC agent, check and enable “compatibility mode.”)
3. Cisco ISE does not support the Windows Embedded 7 versions available from Microsoft.

**Note**

When a guest user tries to log in using Google Chrome on Windows 7 OS, the login fails. It is recommended to upgrade the browser to Chrome 11.

# Supported Devices for On-Boarding and Certificate Provisioning

Cisco Wireless LAN Controller (WLC) 7.2 or above support is required for the BYOD feature. Refer to the [Release Notes for the Cisco Identity Services Engine, Release 1.2](#) for any known issues or caveats.

**Table 9** *BYOD On-Boarding and Certificate Provisioning - Supported Devices and Operating Systems*

Device	Operating System	Single SSID	Dual SSID (open > PEAP (no cert) or open > TLS)	Onboard Method
Apple iDevice	iOS 4	No	Yes <sup>1</sup>	Apple profile configurations (native)
Apple iDevice	iOS 5 and 6	Yes		
Android	2.2+	Yes	Yes	Cisco Network Setup Assistant
Android	4.1.1 <sup>2</sup>	Yes	Yes	
Android Nook HD/HD+ (Amazon) <sup>3</sup>	—	—	—	—
Windows	Windows XP, Windows Vista, Windows 7, Windows 8	Yes <sup>4</sup>	Yes	SPW from Cisco.com or Cisco ISE Client Provisioning feed
Windows	Mobile 8, Mobile RT, Surface 8, and Surface RT	No	No	—
MAC OS X <sup>5</sup>	10.6, 10.7, 10.8	Yes	Yes	SPW from Cisco.com or Cisco ISE client provisioning feed

1. Connect to secure SSID after provisioning
2. There are known EAP-TLS issues with Android 4.1.1 devices. Contact your device manufacturer for support.
3. Android Hook works when it has Google Play Store 2.1.0 installed.
4. While configuring the wireless properties for the connection (Security > Auth Method > Settings > Validate Server Certificate), uncheck the valid server certificate option or if you check this option, ensure that you select the correct root certificate.
5. If you are using Mac OS X clients with Java 7, you cannot download the SPWs using Google Chrome browser. Java 7 runs only on 64-bit browsers and Chrome is a 32-bit browser. It is recommended to use either previous versions of Java or other browsers while downloading the SPWs.

## Documentation Updates

**Table 10** *Cisco Identity Services Engine Network Component Compatibility Documentation Updates*

Date	Update Description
7/25/2013	Cisco Identity Services Engine, Release 1.2

## Related Documentation

This section covers information on release-specific documentation and platform-specific documentation.

## Release-Specific Documents

**Table 11** *Product Documentation for Cisco Identity Services Engine*

Document Title	Location
<i>Release Notes for Cisco Identity Services Engine, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_release_notes_list.html">http://www.cisco.com/en/US/products/ps11640/prod_release_notes_list.html</a>
<i>Cisco Identity Services Engine Network Component Compatibility, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/products_device_support_tables_list.html">http://www.cisco.com/en/US/products/ps11640/products_device_support_tables_list.html</a>
<i>Cisco Identity Services Engine User Guide, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/products_user_guide_list.html">http://www.cisco.com/en/US/products/ps11640/products_user_guide_list.html</a>
<i>Cisco Identity Services Engine Hardware Installation Guide, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html">http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html</a>
<i>Cisco Identity Services Engine Upgrade Guide, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html">http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html</a>
<i>Cisco Identity Services Engine, Release 1.2 Migration Tool Guide</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html">http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html</a>
<i>Cisco Identity Services Engine Sponsor Portal User Guide, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/products_user_guide_list.html">http://www.cisco.com/en/US/products/ps11640/products_user_guide_list.html</a>
<i>Cisco Identity Services Engine CLI Reference Guide, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_command_reference_list.html">http://www.cisco.com/en/US/products/ps11640/prod_command_reference_list.html</a>
<i>Cisco Identity Services Engine API Reference Guide, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_command_reference_list.html">http://www.cisco.com/en/US/products/ps11640/prod_command_reference_list.html</a>
<i>Cisco Identity Services Engine Troubleshooting Guide, Release 1.2</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_troubleshooting_guides_list.html">http://www.cisco.com/en/US/products/ps11640/prod_troubleshooting_guides_list.html</a>
<i>Regulatory Compliance and Safety Information for Cisco Identity Services Engine, Cisco 3415 Secure Access Control System, and Cisco NAC Appliance</i>	<a href="http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html">http://www.cisco.com/en/US/products/ps11640/prod_installation_guides_list.html</a>
<i>Cisco Identity Services Engine In-Box Documentation and China RoHS Pointer Card</i>	<a href="http://www.cisco.com/en/US/products/ps11640/products_documentation_roadmaps_list.html">http://www.cisco.com/en/US/products/ps11640/products_documentation_roadmaps_list.html</a>

## Platform-Specific Documents

Links to other platform-specific documentation are available at the following locations:

- Cisco ISE  
[http://www.cisco.com/en/US/products/ps11640/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps11640/tsd_products_support_series_home.html)
- Cisco Secure ACS  
[http://www.cisco.com/en/US/products/ps9911/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps9911/tsd_products_support_series_home.html)
- Cisco NAC Appliance  
[http://www.cisco.com/en/US/products/ps6128/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps6128/tsd_products_support_series_home.html)
- Cisco NAC Profiler  
[http://www.cisco.com/en/US/products/ps8464/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps8464/tsd_products_support_series_home.html)
- Cisco NAC Guest Server  
[http://www.cisco.com/en/US/products/ps10160/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps10160/tsd_products_support_series_home.html)

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a RSS feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

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