



## APPENDIX **B**

# WCS and End User Licenses

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This appendix provides the end user license and warranty that apply to the Cisco Wireless Control System (WCS). It contains these sections:

- [WCS Licenses, page B-1](#)
- [Notices and Disclaimers, page B-5](#)
- [End User License Agreement, page B-8](#)

## WCS Licenses



### Note

All features included in a WPlus license are now included in the base license in WCS releases 6.0.179.0 and later and in controller releases 6.0.195.0 and later. These WPlus license features are included in the base license:

- Office Extend AP
- Enterprise Mesh
- CAPWAP Data Encryption

This licensing change can affect features on your wireless LAN when you upgrade or downgrade software releases, so you should be aware of these guidelines:

- If you have a WPlus license and you upgrade from 6.0.18x to 6.0.195.0: Your license file contains both Basic and WPlus license features. You won't see any disruption in feature availability and operation.
- If you have a WPlus license and you downgrade from 6.0.195.0 to 6.0.188 or 6.0.182: The license file in 6.0.hmr2.0 contains both Basic and WPlus license features, so you won't see any disruption in feature availability and operation.
- If you have a base license and you downgrade from 6.0.195.0 to 6.0.188 or 6.0.182: When you downgrade, you lose all WPlus features.



### Note

Some references to WPlus licenses remain in the controller CLI and GUI in release 6.0.195.0. However, WPlus license features have been included in the Base license, so you can ignore those references.

Before you purchase a Cisco Wireless Control System (WCS) license, decide whether if you will need a Base or PLUS license and how many access points will need to be supported and licensed.

The two types of licenses for Cisco WCS support different feature levels:

- **Cisco WCS Base supports standard WCS capabilities**, which includes wireless client data access, rogue access point containment functions, Cisco WLAN Solution monitoring and control, and client and rogue access point location to the nearest access point.
- **Cisco WCS PLUS license** supports Cisco WCS base license features and the following capabilities: mobility services enablement and high availability. An older Cisco WCS Location license is forward compatible and equivalent to a PLUS license. When upgrading to this release, older Location licenses will appear as PLUS licenses. Older Enterprise licenses are also forward compatible and become PLUS licenses when loaded. The process to provision a Cisco WCS PLUS license is the same as provisioning a current Cisco WCS license.

Refer to the “[Accessing the License Center](#)” section on page 18-58 for information on managing WCS licenses on the GUI.

## Types of Licenses

The licensing information for existing Cisco WCS deployments are being upgraded to support Cisco Unified Wireless Network Software Release 4.1.82.0. (While previous Cisco WCS SKUs will be available until September 2006, Cisco recommends that you purchase the new Cisco WCS SKUs outlined in the WCS Ordering Guide ([http://www.cisco.com/en/US/prod/collateral/wireless/ps5755/ps6301/ps6305/product\\_data\\_sheet0900aecd804b4646.html](http://www.cisco.com/en/US/prod/collateral/wireless/ps5755/ps6301/ps6305/product_data_sheet0900aecd804b4646.html)) for a more seamless migration to licensing. This chapter includes information on new or expansion Cisco WCS licenses, migrating from CiscoWorks Wireless LAN Solution Engine (WLSE) to Cisco WCS, upgrading to the Cisco WCS Location option, and deploying the free Cisco WCS demonstration license. The versions of Cisco Wireless Control System (WCS) licenses are as follows:

- **WCS-ENT-PLUS-K9**—Cisco WCS Enterprise PLUS License with Mobility Services Enablement, High availability, and Windows or Linux on multiple Cisco WCS servers.
- **WCS-STANDARD-K9** — For customer buying new or expansion Cisco WCS licenses running Cisco Unified Wireless Network Software. It is available as Cisco WCS Base or Cisco WCS PLUS option in increments of 50, 100, or 500 lightweight access points.




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**Note** When the number of access points exceeds the limit of those licensed, WCS generates an alarm. Also, when the user logs into WCS, they are alerted if the licensed access point count has been exceeded.

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- **WCS-WLSE-UPG-K9** — For CiscoWorks WLSE customers migrating from CiscoWorks WLSE (Model 1130) to Cisco WCS. See Appendix B for steps to migrate from CiscoWorks WLSE to the Cisco Unified Wireless Network architecture. It is available as a WCS-WLSE Base option or a WCS-WLSE PLUS option in increments of 50, 100, 500, or 1000 lightweight access points.




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**Note** Dell platforms are not supported.

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**Note** CiscoWorks WLSE Express (Model 1030) and CiscoWorks WLSE (Model 1105 or 1133) are NOT supported with this SKU. DO NOT install the CiscoWorks WLSE CDs on the CiscoWorks WLSE Express (Model 1030) appliance or CiscoWorks WLSE (Model 1105 or 1133) because this conversion does not work and is not supported by Cisco Systems.

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- WCS-PLUS-UPG-K9 — For customers upgrading from their existing Cisco WCS Base licenses to equivalent Cisco WCS PLUS licenses. It is available as Cisco WCS PLUS in increments of 50, 100, or 500 lightweight access points.
- WCS-ADV-SI-SE-10—An incremental license that enables the integration of up to 10 Spectrum Experts. This license requires a valid Base or PLUS license.
- AIR-WCS-DEMO-K9 — For customers wishing to download the new full featured, PLUS Cisco WCS with Spectrum Integration demonstration license that supports ten access points for up to 30 days. Demo licenses are available at <http://www.cisco.com/go/license>.



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**Note** The free 30-day trial license is NOT supported by the Cisco Technical Assistance Center (TAC).

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## Licensing Enforcement

Cisco Unified Wireless Network Releases enforces software based licensing. Customers are prompted to enter license files by all new Cisco WCS SKU families. Existing customers migrating to a later release are also impacted by licensing and should contact their Cisco Sales Representative or TAC to obtain Product Authorization Key (PAK) certificate if they have not already received PAK certificate from Cisco. For more information, refer to the WCS Ordering Guide ([http://www.cisco.com/en/US/prod/collateral/wireless/ps5755/ps6301/ps6305/product\\_data\\_sheet0900aecd804b4646.html](http://www.cisco.com/en/US/prod/collateral/wireless/ps5755/ps6301/ps6305/product_data_sheet0900aecd804b4646.html)).

All Cisco WCS licenses can be purchased or acquired directly from Cisco.com via the normal Cisco ordering processes. Cisco Unified Wireless Network Software Releases can be downloaded from Cisco.com or, for a nominal charge, a CD (WCS-CD-K9) can be purchased from the WCS-STANDARD-K9 or WCS-PLUS-UPG-K9 SKU families. The WCS-CD-K9 contains one software image of Cisco WCS version 4.2 on a CD. Customers can select the appropriate Cisco WCS installer to designate whether they would like to install a Windows or Linux version. The Cisco WCS Base or PLUS features and access point quantity are activated after installation by inserting the license file that is tied to the original purchased Cisco WCS SKU. This CD is shipped via U.S. mail to the purchaser's address.

For the WCS-WLSE-UPG-K9 SKU family, two CDs are automatically shipped with any order in this specific SKU family. These CDs are special purpose CDs that are used specifically to convert the Cisco Works WLSE platform to Cisco WCS.

The Cisco WCS free demonstration license, AIR-WCS-DEMO-K9 is only available as a software download from Cisco.com. Within the 30 day trial period, this free license can be upgraded to one of the non-expiring Cisco WCS SKUs by applying license files generated through the purchase of one of the non-expiring Cisco WCS SKU families.

## Product Authorization Key Certificate

All Cisco WCS SKUs require a PAK certificate to register the Cisco WCS license. The PAK is a paper certificate sent via U.S. mail from Cisco Systems upon purchase of the Cisco WCS license. The PAK certificate allows customers to receive a Cisco WCS license. It is used to register the Cisco WCS and generate license files. All customers must go to the PAK registration site listed on their PAK certificate to complete their Cisco WCS registration. The PAK certificate provides clear instructions on how to complete the Cisco WCS licensing process.

**Note**


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All customers that purchase Cisco WCS from Cisco.com via download or CD must activate their Cisco WCS license by registering at the PAK site. Customers receive the PAK via U.S. mail. Cisco WCS will not be activated until the PAK registration process is completed.

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## Determining Which License To Use

You should select the correct license based on your deployment situation, the number of access points to be supported, and Cisco WCS options (base or location). All SKUs within a SKU family can be combined with equivalent option levels such as Base to Base or PLUS to PLUS. Unequal option levels (Base and PLUS) cannot be mixed. Only one type of license can be used on the WCS at one time. For example, if your computer has a PLUS license, you cannot add a Base license. You can add to the current license by purchasing a license to increase the access point count. For example, if you have a PLUS license with an access point count of 50 and in a year you need to add more access points, you can buy another PLUS license with an access point count of 100, apply it to the WCS, and have a WCS with PLUS license for 150 access points. You can add a license to increase the number of access points in increments of 50, 100, 500, 1000, or 2500.

**Note**


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If you have a Base license and want to upgrade to a PLUS, you will need to purchase a PLUS upgrade license. You need to purchase a PLUS upgrade license equivalent to the total number of access points with a Base license. For example, if you have three Base licenses with support for 50, 100, and 200 access points (for a total of 350 access points), you must purchase enough upgrade licenses with support for 350 access points.

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## Installing a License

You need to have the Wireless Control System license key file to install your license. The key file is distributed to you in an e-mail from Cisco Systems. This file activates the features that you have purchased for your Cisco Wireless Control System (WCS). Do not edit the contents of the .lic file in any way or you will render the file useless.

**Note**


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If you upgrade to a WCS version without a license, you receive a critical alarm once a day and a notification regarding lack of a license each time you log in to WCS. Without a license, you have access to all WCS functionality except adding new controllers.

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Cisco strongly recommends that you print the e-mail, save the attachment to a removable media, and store both in a safe place for future use, if needed by either yourself or anyone in your organization.

Before you proceed, make sure that the WCS server software has been installed and configured on the server.

To install the WCS license, follow these steps:

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- Step 1** Save the license file (.lic) to a temporary directory on your hard drive.
  - Step 2** Open a supported browser.
  - Step 3** In the Location or Address field, enter the following URL, replacing IP address or host name of the WCS server: `https://<IP address>`.

- Step 4** Log in to the WCS server as system administrator. User names and passwords are case-sensitive.
- Step 5** Choose **Administration > License Center**.
- Step 6** Choose **Files > WCS** from the left sidebar menu.
- Step 7** Click the **Add** button. The Add a License File window appears.
- Step 8** In the Add a License File window, click **Browse** to navigate to the location where you saved the .lic file.
- Step 9** Click **Upload**.

The WCS server imports the license.

During the upload the following items are checked:

- Validity of the license file
- Matching host names on the license and WCS system
- The license file being installed must have a PLUS Feature. For example, Base or PLUS.
- The PLUS Feature (Base or PLUS) of the file being installed must match that of the system.

If you encounter a problem with the license file, please contact the Cisco Licensing team at 800-553-2447 or [licensing@cisco.com](mailto:licensing@cisco.com).

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## Backup and Restore License

The license files are saved as part of the backup and restore process, so upgrading WCS will not require reentering of the license files. However, the restore must be on a system with the same host name for the restored licenses to work. If you have installed an upgraded license on your system, you must reinstall the original license, followed by the upgrade license. For example, if you have upgraded a license from Base license to PLUS license, during the reinstall, you need to first install the Base license, then install the PLUS license. To backup the WCS database, refer to the “[Backing Up the WCS Database](#)” section on page 14-3.

## Notices and Disclaimers

This chapter/appendix contains notices and disclaimers that pertain to Cisco WCS/Cisco WLAN Controller/whatever other product.

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The following notices pertain to this software license.

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

This product includes cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

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The validity, interpretation, and performance of this Warranty and End User License shall be controlled by and construed under the laws of the State of California, United States of America, as if performed wholly within the state and without giving effect to the principles of conflict of laws, and the State and federal courts of California shall have jurisdiction over any claim arising under this Agreement. The parties specifically disclaim the UN Convention on Contracts for the International Sale of Goods. Notwithstanding the foregoing, either party may seek interim injunctive relief in any court of appropriate jurisdiction with respect to any alleged breach of such party's intellectual property or proprietary rights. If any portion hereof is found to be void or unenforceable, the remaining provisions of the Agreement shall remain in full force and effect. Except as expressly provided herein, this Agreement constitutes the entire agreement between the parties with respect to the license of the Software and Documentation and supersedes any conflicting or additional terms contained in any purchase order or elsewhere, all of which terms are excluded. This Agreement has been written in the English language, and the parties agree that the English version will govern.

#### Supplemental License Agreement

#### Cisco Wireless Control System (WCS)

#### IMPORTANT-READ CAREFULLY

You have agreed to the Cisco System, Inc. End User License Agreement ("EULA") that governs your access and use of the Cisco Wireless Control System ("WCS"). This supplemental license agreement (this "supplement") contains additional terms and conditions.

Capitalized terms used and but not defined in this supplement have the meanings as defined in the EULA. To the extent of a conflict between the provisions of this supplement and the EULA, this supplement takes precedence.

By installing, downloading, accessing or otherwise using the Software, Customer agrees to be bound by the terms of this supplement. If Customer does not agree to the terms of this supplement, Customer may not install, download, or otherwise use the Software.

#### Restrictions on Managed Access Point and Devices

Customer may not use the Software unless:

- Customer obtains a WCS limited license by placing a Purchase Order for a WCS license for a specific number of access points, having the Purchase Order accepted by Cisco, and paying to Cisco the required license fee; or
- Customer obtains a WCS demonstration license by registering and downloading the Software for demonstration purposes in accordance with the Cisco Data Sheet for the Cisco Wireless Control System (the "WCS Data Sheet").

If Customer obtains a WCS limited license, Customer may not use the Software to manage more access points than those identified in the Software's Cisco SKU or the product description on Customer's accepted, paid Purchase Order plus those identified in the Software's Cisco SKUs or the product descriptions on Customer's prior accepted, paid Purchase Orders.

If Customer obtains a WCS demonstration license, Customer may not use the Software to manage more than the number of access points identified for the Cisco WCS demonstration license in the WCS Data Sheet.

Customer may use the Software only to manage those devices identified as managed devices in the product specifications section of WCS Data Sheet.

#### Server Restrictions

Customer may install and run the Software on multiple servers if the Software's Cisco SKU or product description on Customer's accepted, paid Purchase Order identifies the product as an enterprise or "ent" license. Otherwise, Customer may install and run the Software on only a single server.

#### Third-Party Proprietary Software

The Software includes proprietary software and technology from Cisco's suppliers. Some suppliers are intended third-party beneficiaries of the EULA and this supplement. Third-party-beneficiary suppliers include: (a) Hifn, Inc.; (b) Wind River Systems, Inc. and its suppliers; and (c) any other supplier Cisco identifies as a third-party beneficiary in the Documentation or additional supplements. These suppliers may enforce, and are express beneficiaries of, the EULA and this supplement. However, they are not in any contractual relationship with Customer.

The limited warranty in the EULA is made only by Cisco and is disclaimed by all Cisco suppliers. Cisco and any Cisco supplier may obtain injunctive relief if Customer's use of the Software is in violation of any license restrictions.

#### Open-Source Software

The Software includes certain open-source software. Despite anything to the contrary in the EULA or this supplement, the open-source software is governed by the terms and conditions of the applicable open-source license. The open-source software, the applicable open-source licenses and other open-source notices may be identified in the Documentation or in a README file accompanying the Software. Customer agrees to comply with all such licenses and other notices.

#### Other Terms and Conditions

The terms of the EULA and this supplement may be enforced by license registration and other software tools.

