



APPENDIX **B**

WCS and End-User Licenses

This appendix provides the end-user license and warranty that apply to the Cisco WCS. It contains these sections:

- [WCS Licenses, page B-1](#)
- [Notices and Disclaimers, page B-5](#)
- [End-User License Agreement, page B-7](#)

WCS Licenses

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.

See the “[Accessing the License Center](#)” section on page 18-67 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/products/ps6305/products_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.



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.

- 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.



Note Dell platforms are not supported.



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.

- 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>.



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

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_sheet0900_aecd804b4646.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**

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.

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**

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.

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**

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.

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:

- 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 text box, 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 **Add**. The Add a License File page appears.
- Step 8** In the Add a License File page, 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.

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.

Notices

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 (eay@cryptsoft.com).

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

License Issues

The OpenSSL toolkit stays under a dual license, for example, both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

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Supplemental License Agreement

Cisco Wireless Control System (WCS)

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- 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.

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