



APPENDIX **B**

WCS and End User Licenses

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-2](#)
- [Open Source License Acknowledgements, page B-6](#)
- [End User License Agreement, page B-7](#)

WCS Licenses

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

The two types of 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 Location** includes all the features present in the Cisco WCS Base, plus the ability to track a single Wi-Fi device on demand or expand location capabilities by adding a Cisco Wireless Location Appliance to simultaneously track up to 2500 Wi-Fi devices.

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-STANDARD-K9** — For customer buying new or expansion Cisco WCS licenses running Cisco Unified Wireless Network Software Release 4.1.82.0. It is available as Cisco WCS Base or Cisco WCS Location increments of 50, 100, 500, 1000, or 2500 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 “[Conversion of a WLSE Autonomous Deployment to a WCS Controller Deployment](#)” in Appendix B for steps to migrate from CiscoWorks WLSE to the Cisco Unified Wireless Network architecture.



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-LOC-UPG-K9** — For customers upgrading from their existing Cisco WCS base licenses to equivalent Cisco WCS Location licenses. It is available as Cisco WCS Location in increments of 50, 100, 500, 1000, or 2500 lightweight access points.

- WCS-ADV-SI-SE-10—A feature license that enables the integration of up to 10 spectrum experts. This license requires a valid base or location license.
- AIR-WCS-DEMO-K9 — For customers wishing to download the new full featured, location-enabled Cisco WCS demonstration license that supports ten access points for up to 30 days.



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/products/ps6305/products_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-LOC-UPG-K9 SKU families. The WCS-CD-K9 contains one software image of Cisco WCS version 4.0 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 location 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 location to location. Unequal option levels (base and location) cannot be mixed. Only one type of license can be used on the WCS at one time. For example, if your computer has a location 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 location license with an access point count of 50 and in a year you need to add more access points, you can buy another location license with an access point count of 100, apply it to the WCS, and have a WCS with location 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 location, you will need to purchase a location upgrade license. You need to purchase a location 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 a single location upgrade license 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 email 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 email, 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 version of the Internet Explorer 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** From the Help menu, select **Licensing**.
- Step 6** On the Licensing page, from the Select a command drop-down menu, choose **Add License**.
- Step 7** On the Add License page, click **Browse** to navigate to the location where you saved the .lic file.
- Step 8** 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 “Location Feature.” For example, Base or Location.
- The “Location Feature” (Base or Location) 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.

Managing Licenses

Choose **Help > Licensing** to access the Licenses page.

This page enables you to view a list of the current licenses installed, add a license, and delete a license.

The license information displays the following:

- Host name
- Type
- AP count (for specified number of access points)
- Percentage of what is licensed
- Capacity of licenses currently used

The license list displays the following:

- A summary of each individual license.
- ID: Unique identifier for the license.
- Host: License applies to this host machine.
- Type: Location or base.
- AP Count: Number of access points for listed license. Should correspond with AP Count in License Information column.
- Expires: When license expires.

Adding a License

Follow these steps to add a license.

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- Step 1** From the Select a command drop-down list, choose **Add License** and click **GO**.
- Step 2** Click **Browse** to search for the license file you are adding.
- Step 3** Click **Upload**.
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Deleting a License

Follow these steps to delete a license.

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- Step 1** From the License List portion of the Licenses window, click the check box of the license you want to delete.
- Step 2** From the Select a command drop-down list, choose **Delete License** and click **GO**.
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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 location license, during the reinstall, you need to first install the base license, then install the location license. To backup and restore the WCS database, refer to the “[Backing Up the WCS Database](#)” section on page 11-4 and the “[Restoring the WCS Database](#)” section on page 11-6.

Open Source License Acknowledgements

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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").

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