



APPENDIX **B**

NCS and End-User Licenses

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

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

NCS Licenses

Before you purchase a Cisco Network Control System (NCS) license, decide on the license type and how many access points need to be supported and licensed.

The four types of licenses for Cisco NCS support different feature levels:

- Cisco NCS Evaluation License
- Cisco NCS Device Count License
- Cisco NCS Upgrade License
- Cisco NCS Migration License

See the [“Managing Licenses” section on page 15-131](#) for information on managing NCS licenses on the GUI.

Types of Licenses

Cisco NCS is deployed through physical or virtual appliances, you use the standard License Center Graphical User Interface to add new licenses, which is locked by the standard Cisco Unique Device Identifier (UDI) or Virtual Unique Device Identifier (VUDI) if you are using a virtual appliance.

The licensing information for existing Cisco WCS deployments are being upgraded to support Cisco NCS 1.0. (While previous Cisco WCS SKUs will be available until September 2011, We recommend that you purchase the new Cisco NCS SKUs outlined in the NCS Ordering Guide (http://www.cisco.com/en/US/prod/collateral/wireless/ps5755/ps11682/ps11686/guide_c07-653879.html) for a more seamless migration to licensing. This chapter includes information on new Cisco NCS licenses, migrating from Cisco WCS to Cisco NCS, and deploying the free Cisco NCS demonstration license. The types of Cisco Network Control System (NCS) licenses are as follows:

- L-NCS-DEMO-X—Cisco NCS Evaluation License, provides an evaluation license for X number of devices, and for a duration of 30 days. If you need a custom device count or duration, please contact your Cisco representative. For customers who want to download the new full featured, Cisco NCS 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).

- L-NCS-1.0-X—Cisco NCS Enterprise License with Mobility Services Enablement, High availability, and Support for multiple Cisco NCS servers. If you choose the option of ordering the physical appliances, you will be shipped with PRIME-NCS-APL-K9 along with a PAK for the license quantity you ordered (L-NCS-1.0-X). If you choose the virtual appliance option, download the virtual NCS image and get the L-NCS-1.0-X PAK e-mailed to you once it has been ordered.
- L-NCS-1.0-X-ADD —For customer buying new or expansion Cisco NCS licenses running Cisco Unified Wireless Network Software. It is available as L-NCS-1.0-X-ADD option in increments of 50, 100, or 500 lightweight access points. The larger license quantities, specifically 1K, 2.5K, 5K, and 10K are actually shipped in smaller increments to allow the licenses to be split across different NCS instances.



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



Note For ADD ON License, you must have one and only one device count license (L-NCS-1.0-X) before stacking “ADD-ON” licenses.



Note Cisco 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.

- NCS-2.0-UPGRADE-X-LIC—For customers upgrading from their existing Cisco NCS licenses to new Cisco NCS licenses. It is available as Cisco NCS UPGRADE in increments of 50, 100, or 500 lightweight access points.
- WCS to NCS Migration—The Cisco NCS uses a single-tier license model. When Cisco WCS BASE or WCS PLUS licenses are being migrated, licenses are mapped to the new Cisco Prime NCS single-tier model. This is a two stage process, Obtaining the XML file from existing WCS deployment and uploading the XML into Cisco Migration Portal. The migration licenses that are generated from the Cisco migration portal. These licenses are mapped to NCS 1.0 licenses of equivalent counts. So an WCS 7.0 Base 500 with Spectrum Expert licenses are converted to an NCS 1.0 500 device license.

Licensing Enforcement

Cisco Unified Wireless Network Releases enforces software based licensing. Customers are prompted to enter license files by all new Cisco NCS 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 NCS Ordering Guide.

All Cisco NCS 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 DVD can be purchased from the NCS-1.0-X or NCS-1.0-X-LIC SKU families. The NCS DVD contains software image of Cisco NCS version 1.0. Customers can select the appropriate Cisco NCS release mode to designate whether they would like to get a Physical Appliance software image(ISO) or a Virtual appliance(OVA) version. The Cisco NCS features and access point quantity are activated after installation by inserting the license file that is tied to the original purchased Cisco NCS SKU. This DVD is shipped via U.S. mail to the purchaser's address.

The Cisco NCS free demonstration license, NCS-DEMO-X 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 NCS SKUs by applying license files generated through the purchase of one of the non-expiring Cisco NCS SKU families.

Product Authorization Key Certificate

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

**Note**

All customers that purchase Cisco NCS from Cisco.com via download or DVD must activate their Cisco NCS license by registering at the PAK site. Customers receive the PAK via U.S. mail. Cisco NCS is not 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 NCS options. Only one type of license can be used on the NCS at one time. For example, if your NCS has a NCS-1.0-X license, you cannot add a NCS-1.0-X-LIC license. You can add to the current license by purchasing a license to increase the access point count. For example, if you have a NCS-1.0-50 license with an access point count of 50 and in a year you need to add more access points, you can buy another NCS-1.0-100 Add-on license with an access point count of 100, apply it to the NCS, and have a NCS with license for 150 access points. You can add a license to increase the number of access points in increments of 50, 100, 500, 1000, 2500, 5000 or 10000.

Installing a License

You need to have the Network 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 Network Control System (NCS). Do not edit the contents of the .lic file in any way or you render the file useless.

We 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 NCS server software has been installed and configured on the server.

To install the NCS 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 text box, enter the following URL, replacing IP address or host name of the NCS server: `https://<IP address>`.
 - Step 4** Log in to the NCS server as system administrator. Usernames and passwords are case-sensitive.
 - Step 5** Choose **Administration > License Center**.
 - Step 6** Choose **Files > NCS** from the left sidebar menu.
 - Step 7** Click **Add**. The Add a License File dialog box appears.
 - Step 8** In the Add a License File dialog box, click **Browse** to navigate to the location where you saved the .lic file.
 - Step 9** Click **Upload**.

The NCS server imports the license.

During the upload the following items are checked:

- Validity of the license file.
- Matching UDI on the license and NCS 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 NCS will not require reentering of the license files. However, the restore must be on a system with the same UDI 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. To backup the NCS database, see the [“Backing Up the NCS Database”](#) section on page 4-7.

Notices and Disclaimers

This chapter/appendix contains notices and disclaimers that pertain to Cisco NCS/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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Cisco Network Control System (NCS)

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- Customer obtains a NCS 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 "NCS Data Sheet").

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

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

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