



License File Upload

License file contains the information that is needed to enforce licenses for Cisco CallManager application. This chapter contains the following topics:

- [Obtaining a License File, page 26-1](#)
- [License File Contents, page 26-2](#)
- [Uploading a License file, page 26-3](#)
- [Related Topics, page 26-4](#)

Obtaining a License File

Use the following steps to obtain a license file for a new installation of Cisco CallManager 5.0 phones nodes and for updating the licenses when new phones are added.

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- Step 1** When you place an order for Cisco devices, Cisco provides a Product Authorization Key (PAK).
- Step 2** Register the PAK with Cisco CallManager using the License Registration web tool that is provided on CCO.
- Step 3** You must enter the MAC address of the Cisco CallManager server that you are requesting the licenses for, and a valid E-mail Id. You must enter the number of nodes and phone units that you want licenses for.



Note You can determine the number of phone unit licenses that you will require for each phone type using License Calculator in Cisco CallManager Administration. See the [“Calculating License Units”](#) section on page 25-1.

- Step 4** CCO generates a license file with the number of unit licenses that you requested and sends it you via E-mail using the E-mail ID that you provided in [Step 2](#)
- Step 5** You must upload the license file to the server with the matching MAC address that you provided in [Step 3](#). See the [“Uploading a License file”](#) section on page 26-3. This server then takes on the functionality of the license manager.
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Note For updating the licenses when you buy new phones, go to the License Registration web tool that is provided on CCO and follow the steps [3](#) through [5](#).

**Note**

The license file is uploaded into the database, only if the version specified in the license file is greater than or equal to the Cisco CallManager version that is running in the cluster. If the version check fails, an alarm gets generated, and you should get a new license file with the correct version. The system bases the version check only on major releases.

**Note**

The licenses specified in the license file can be used only within the cluster on which the license file is uploaded.

Additional Information

See the [“Related Topics” section on page 26-4](#).

License File Contents

The license file contains the following information:

- Number of Cisco CallManager nodes that are licensed: This indicates number of Cisco CallManager servers in a cluster that are licensed to the customer.
- Versions of the Cisco CallManager that are supported.
- Number of phone units licensed: Instead of creating a separate license for each phone type, a concept of unit license is used. Each phone type corresponds to a fixed number of license units.

**Note**

To determine the number of license unit that are required for each device, choose **System > Licensing > License Unit Calculator**. This window lists the number of license units required for each type of device. See the [“Calculating License Units” section on page 25-1](#).

- MAC address of the server, where the license file can be installed.

To upload a license file to the license server, see the [“Uploading a License file” section on page 26-3](#).

Sample License Files

The following examples describe license files for permanent IP phone licenses and permanent Cisco CallManager node licenses:

Example 26-1 Permanent IP Phone Licenses

```
INCREMENT PHONE_UNIT cisco 5.0 permanent uncounted \

VENDOR_STRING=<Count>1000</Count><OrigMacId>000BCD4EE59D</OrigMacId><LicFileVersion>1.0</L
icFileVersion> \
HOSTID=000bcd4ee59d OVERDRAFT=50 \
NOTICE="<LicFileID>20050826140539162</LicFileID><LicLineID>2</LicLineID> \
<PAK></PAK>" SIGN="112D 17E4 A755 5EDC F616 0F2B B820 AA9C \
0313 A36F B317 F359 1E08 5E15 E524 1915 66EA BC9F A82B CBC8 \
4CAF 2930 017F D594 3E44 EBA3 04CD 01BF 38BA BF1B"
```

The preceding license file includes following information:

- No expiration date for this license exists as indicated by the keyword permanent.
- This license file provides 1000 PHONE_UNIT licenses.
- OVERDRAFT=50 indicates (5% of 1000) allowed overdraft. Cisco determines the overdraft value.
- The Cisco specific fieldLicFileID, identifies this license file.
- You can add multiple increment lines for same feature (phone unit license or node license) in a license file to increase the license count. None of the INCREMENT lines should be identical and each of them should be signed independently.

Example 26-2 Permanent CCM_Node licenses

```
# Optional usage agreement, legal language, tracking information
# Some other comments
INCREMENT CCM_NODE cisco 5.0 permanent uncounted \
VENDOR_STRING=<Count>3</Count><OrigMacId>000BCD4EE59D</OrigMacId><LicFileVersion>1.0</LicF
ileVersion> \
HOSTID=000bcd4ee59d \
NOTICE="<LicFileID>20050826140539162</LicFileID><LicLineID>1</LicLineID> \
<PAK></PAK>" SIGN="19B3 4C6C 25AC 6D22 4D75 DE6A 656B 08C5 \
30E4 16DB 771B 1393 9DC1 DBC4 C5AA 15CC 6E6C B7B8 895A DCBA \
B40F C551 2625 1C97 F20D 9977 6CFF 3603 081E 6FF2"
```

The preceding license file includes the following information:

- No expiration date for this license exists as indicated by the keyword permanent.
- This license file provides three licenses for the version 5.0 of the feature CCM_NODES.
- The Cisco specific fieldLicFileID, identifies this license file.
- You can add multiple increment lines for same feature in a license file to increase the license count. None of the INCREMENT lines should be identical and each of them should be signed independently.

Additional Information

See the [“Related Topics” section on page 26-4](#).

Uploading a License file

Use the following procedure to upload a license file to the Cisco CallManager server with the matching MAC address that is provided when requesting for a license file. For information about obtaining a license file see the [“Obtaining a License File” section on page 26-1](#). The Cisco CallManager server where the license file is loaded takes on the functionality of the license manager.



Note

Upload the license file only on the first node of Cisco CallManager cluster.

Procedure

Step 1 Choose **System > License > Upload License File**.

The License File Upload window displays.

Step 2 The Existing License Files drop-down list box displays the license files that are already uploaded to the server.



Note Click **View File** to view the file content of any existing files.

Step 3 To choose a new license file to upload, click **Upload License File**.

The Upload File pop-up window displays.

Step 4 Browse and choose a license file to upload to the server.

Step 5 Click **Upload License File**.

After the upload process is complete, the Upload Result file displays.

Step 6 Click **Close**.

Step 7 In the License File Upload window, the status of the uploaded file displays.

Additional Information

See the [“Related Topics”](#) section on page 26-4.

Related Topics

- [Obtaining a License File, page 26-1](#)
- [License File Contents, page 26-2](#)
- [Uploading a License file, page 26-3](#)
- [Calculating License Units, page 25-1](#)
- [Generating a License Unit Report, page 24-1](#)
- [Licensing](#), *Cisco CallManager System Guide*
- *Cisco CallManager Features and Services Guide*