



Managing Port Licenses

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Port Licenses

Port licenses for each Cisco UCS fabric interconnect are factory-installed and shipped with the hardware. At a minimum, each fabric interconnect ships with the following licenses pre-installed:

- Cisco UCS 6120XP fabric interconnect—pre-installed licenses for the first eight Ethernet ports and any Fibre Channel ports on expansion modules
- Cisco UCS 6140XP fabric interconnect—pre-installed licenses for the first sixteen Ethernet ports and any Fibre Channel ports on expansion modules

If you purchase additional expansion modules or want to use additional ports in the fixed module, you must purchase and install licenses for those ports.

At this time, you can only install port licenses through Cisco UCS Manager CLI.

Obtaining the Host ID for a Fabric Interconnect

The host ID is also known as the serial number. You can also view the serial number in the Cisco UCS Manager GUI on the **General** tab for the fabric interconnect.

Procedure

	Command or Action	Purpose
Step 1	UCS-A# connect local-mgmt	Enters local management mode.
Step 2	UCS-A(local-mgmt)# show license host-id	Obtains the host ID or serial number for the fabric interconnect. Tip Use the entire host ID that displays after the equal (=) sign.

The following example obtains the host ID for a fabric interconnect:

```
UCS-A# connect local-mgmt
UCS-A(local-mgmt)# show license host-id
License hostid: VDH=FLC12121212
```

What to Do Next

Obtain the port license from Cisco.

Obtaining a Port License

**Note**

This process may change after the release of this document. If one or more of these steps no longer applies, contact your Cisco representative for information on how to obtain a license file.

Before You Begin

Obtain the following:

- Host ID or serial number for the fabric interconnect
- Claim certificate or other proof of purchase document for the fabric interconnect or expansion module

Procedure

-
- Step 1** Obtain the product authorization key (PAK) from the claim certificate or other proof of purchase document.
- Step 2** Locate the website URL in the claim certificate or proof of purchase document.
- Step 3** Access the website URL for the fabric interconnect and enter the serial number and the PAK. Cisco sends you the license file by email. The license file is digitally signed to authorize use on only the requested fabric interconnect. The requested features are also enabled once Cisco UCS Manager accesses the license file.
-

What to Do Next

Install the port license on the fabric interconnect.

Installing a Port License on a Fabric Interconnect

You must use Cisco UCS Manager CLI to install a port license.

Before You Begin

Obtain the port license from Cisco.

Procedure

	Command or Action	Purpose
Step 1	UCS-A# connect local-mgmt	Enters local management mode.
Step 2	UCS-A(local-mgmt)# copy <i>from-filesystem:[from-path]/license_filename</i> Workspace:license_filename	Copies the port license from its source location to its destination location. For the <i>from-filesystem:</i> argument, use one of the following syntax: <ul style="list-style-type: none"> • ftp://server-ip-addr • scp://username@server-ip-addr • sftp://username@server-ip-addr • tftp://server-ip-addr ;port-num
Step 3	UCS-A(local-mgmt)# install-license workspace:license_filename	Installs the port license.

The following example uses FTP to copy a port license to the workspace and then installs that port license:

```
UCS-A # connect local-mgmt
Cisco UCS 6100 Series Fabric Interconnect
```

```
TAC support: http://www.cisco.com/tac
```

```
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```

```
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http://www.gnu.org/licenses/gpl.html and
http://www.gnu.org/licenses/lgpl.html
```

```
UCS-A(local-mgmt) # copy ftp://192.168.10.10/license/port9.lic workspace:/port9.lic
UCS-A(local-mgmt) # install-license workspace:port9.lic
```

Viewing the Port Licenses Installed on a Fabric Interconnect

Procedure

	Command or Action	Purpose
Step 1	UCS-A# connect local-mgmt	Enters local management mode.
Step 2	UCS-A(local-mgmt)# show license [brief file [license_filename]]	Displays the port licenses installed on the fabric interconnect with the level of detail specified in the command.

The following example displays full details of the port licenses installed on a fabric interconnect:

```
UCS-A# connect local-mgmt
UCS-A(local-mgmt)# show license file

enter.lic:
SERVER this_host ANY
VENDOR cisco
INCREMENT ENTERPRISE_PKG cisco 1.0 permanent uncounted \
  VENDOR_STRING=<LIC_SOURCE>UCS_SWIFT</LIC_SOURCE><SKU>ENTERPRISE_PKG=</SKU> \
  HOSTID=VDH=FLC12360025 \
  NOTICE="<LicFileID>20090519230254773</LicFileID><LicLineID>1</LicLineID> \
  <PAK></PAK>" SIGN=134D2848E9E0

port1.lic:
SERVER this_host ANY
VENDOR cisco
INCREMENT ETH_PORT_ACTIVATION_PKG cisco 1.0 permanent 1 \
  VENDOR_STRING=<LIC_SOURCE>UCS_SWIFT</LIC_SOURCE><SKU>N10-L001=</SKU> \
  HOSTID=VDH=FLC12360025 \
  NOTICE="<LicFileID>20090519200954833</LicFileID><LicLineID>1</LicLineID> \
  <PAK></PAK>" SIGN=C01FAE4E87FA

port2.lic:
SERVER this_host ANY
VENDOR cisco
INCREMENT ETH_PORT_ACTIVATION_PKG cisco 1.0 permanent 8 \
  VENDOR_STRING=<LIC_SOURCE>UCS_SWIFT</LIC_SOURCE><SKU>ETH_PORT_ACTIVATION_PKG=</SKU>
\
  HOSTID=VDH=FLC12360025 \
  NOTICE="<LicFileID>20090519231228131</LicFileID><LicLineID>1</LicLineID> \
  <PAK></PAK>" SIGN=DF6A586C43C6
UCS-A(local-mgmt)#
```

Viewing Port License Usage for a Fabric Interconnect

Procedure

	Command or Action	Purpose
Step 1	UCS-A# connect local-mgmt	Enters local management mode.

	Command or Action	Purpose
Step 2	UCS-A(local-mgmt)# show license usage	Displays the license usage table for all license files installed on the fabric interconnect.

The following example displays full details of the licenses installed on a fabric interconnect:

```
UCS-A# connect local-mgmt
UCS-A(local-mgmt)# show license usage
Feature                               Ins Lic Status Expiry Date Comments
                                Count
-----
FM_SERVER_PKG                         No  -  Unused          -
ENTERPRISE_PKG                        No  -  Unused          -
FC_FEATURES_PKG                       No  -  Unused          Grace expired
ETH_PORT_ACTIVATION_PKG               No  8  Unused Never
ETH_MODULE_ACTIVATION_PKG             No  0  Unused          -
-----
UCS-A(local-mgmt)#
```

Uninstalling a Port License from a Fabric Interconnect

You can only uninstall a permanent license that is not in use. If you try to delete a permanent license that is being used, Cisco UCS Manager rejects the request with an error message.

If you attempt to use a port that does not have an installed license, Cisco UCS initiates a grace period. The grace period is measured from the first use of the feature without a license and is reset when a valid license file is installed. After the grace period expires, the ports are not functional. Contact your Cisco representative for information about the length of the grace period for your fabric interconnect.



Note Permanent licenses cannot be uninstalled if they are in use.

Before You Begin

- Back up the Cisco UCS Manager configuration
- Disable the port associated with the port license you want to uninstall

Procedure

	Command or Action	Purpose
Step 1	UCS-A# connect local-mgmt	Enters local management mode.
Step 2	UCS-A(local-mgmt)# clear license license_filename	Uninstalls the port license that you specify by name.

The following example shows the uninstallation of port9.lic:

```
UCS-A # connect local-mgmt
Cisco UCS 6100 Series Fabric Interconnect
TAC support: http://www.cisco.com/tac
```

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```
UCS-A(local-mgmt)# clear license port9.lic
Clearing license port9.lic:
SERVER this_host ANY
VENDOR cisco
INCREMENT ETH_PORT_ACTIVATION_PKG cisco 1.0 permanent 1 \
  VENDOR_STRING=<LIC_SOURCE>UCS_SWIFT</LIC_SOURCE><SKU>N10-L001=</SKU> \
  HOSTID=VDH=FLC12360025 \
  NOTICE="<LicFileID>20090519200954833</LicFileID><LicLineID>1</LicLineID> \
  <PAK></PAK>" SIGN=C01FAE4E87FA

Clearing license .....done
UCS-A(local-mgmt)#
```

What to Do Next

For a cluster configuration, uninstall the port license for the same port on the other fabric interconnect.