



## Cisco Smart Licensing for CUCM 12.5 BE6000-specific Licenses

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### Cisco Smart Licensing for Unified Communications Manager 12.5 BE6000-specific Licenses

For a general overview of Cisco Smart Licensing, and how it is used in conjunction with Unified Communications Manager 12.0 and higher, see the *Cisco Smart Software Licensing with Cisco Unified Communications Manager Solution Overview*.

The instructions in this appendix only apply if you have purchased BE6000-specific UCL and UWL 12.5 starter packs and add on user licenses. These licenses are described in the *Business Edition 6000 Ordering Guide* available to partners and Cisco employees.

- If you are using a different license offer (such as non-BE6000-specific UCL, UWL, Enterprise Agreement or Collaboration Flex Plan), stop now and see the Cisco Smart Software Licensing with *Cisco Unified Communications Manager Solution Overview* for instructions.
  - Smart Licensing for BE6000-specific licenses are only available for Collaboration System Release from 12.5 and above.
  - Unified Communications Manager 12.5 in BE6000-specific licensing requires use of Cisco Smart Licensing, and for the UCM 12.5 Publisher to have 'BE6000 mode' enabled using the CLI.
  - Remember that Unified Communications Manager 11.5 in BE6000-specific licensing continues to require the use of Cisco Product Authorization Keys (PAKs) and Cisco Prime License Manager, not Cisco Smart Licensing.
  - You must create a Cisco Smart Account (this can be done prior to installation). You must deposit the newly purchased BE6000 12.5 licenses in this account. Installed base customers must migrate licenses to 12.5 and deposit in this account.
1. Obtain your BE6000-specific 12.5 licenses. These instructions assume that you have already completed the required purchase/fulfillment processes. Partners and Cisco employees may consult the Business Edition 6000 12.5 Ordering Guide.

- Provision your Smart Account / Virtual Account in Cisco Smart Software Manager; ensure that your BE6000-specific licenses are assigned to your Smart Account / Virtual Account.

For more information, see the Cisco Smart Software Licensing with *Cisco Unified Communications Manager Solution Overview*.

Ensure that your BE6000-specific licenses for starter packs and add-on users are properly assigned to your Smart Account / Virtual Account.

See the following screenshot of Cisco Smart Software Manager showing a Smart Account/Virtual Account that has BE6000 12.5 specific and starter pack licenses assigned to it:

The screenshot shows the 'Smart Software Licensing' interface for a Virtual Account named 'UCM-Saurabh'. The 'Licenses' tab is active, displaying a table of licenses. The license 'BE6000 Starter Bundle UCL 35 (12.X)' is highlighted with a green box. Other licenses include 'BE6000 Starter Bundle LMS 35 (12.X)', 'Emergency Responder User License (12.X)', and various 'UC Manager' licenses.

License	Billing	Purchased	In Use	Balance	Alerts	Actions
BE6000 Starter Bundle UCL 35 (12.X)	Prepaid	2	0	+2		Actions
BE6000 Starter Bundle LMS 35 (12.X)	Prepaid	2	0	+2		Actions
Emergency Responder User License (12.X)	Prepaid	10	0	+10		Actions
UC Manager Basic License (12.X)	Prepaid	10	0	+10		Actions
UC Manager CUMI License (12.X)	Prepaid	10	0	+10		Actions
UC Manager Enhanced License (12.X)	Prepaid	10	0	+10		Actions
UC Manager Enhanced Plus License (12.X)	Prepaid	10	0	+10		Actions
UC Manager Essential License (12.X)	Prepaid	10	0	+10		Actions
UC Manager Telepresence Room License (12.X)	Prepaid	10	0	+10		Actions

- Obtain a Registration Token for Unified Communications Manager 12.5 from Cisco Smart Software Manager.

For more information, see the *Cisco Smart Software Licensing with Cisco Unified Communications Manager Solution Overview*.

See the following screenshot of where the Registration Token is copied or downloaded from (you will need this in step 6):

The screenshot shows the 'Product Instance Registration Tokens' section in the Cisco Smart Software Manager interface. A table lists registration tokens with columns for Token, Expiration Date, Uses, Export Controlled, Description, Created By, and Actions. The 'Copy' button in the Actions column for the token '2hr72yQ4e5Dun7zu...' is highlighted with a red box.

Token	Expiration Date	Uses	Export Controlled	Description	Created By	Actions
WQa25Ph0Fu02DE12	2020-Nov-27 13:23:34 (in 36...)		Allowed		regtel	Actions
2hr72yQ4e5Dun7zu...	2020-Oct-22 14:44:35 (in 33...)		Not Allowed	Token for BU-Prod-UCM-SLM-Dev2	delvivas	Copy Download... Refresh...

4. Install Unified Communications Manager 12.5 (or version-upgrade Unified Communications Manager from an older release to 12.5).

When Unified Communications Manager in BE6000 is initially installed as 12.5, or version-upgraded from an older release to 12.5, Unified Communications Manager 12.5 immediately enters the following modes:

- Registration Status 'Unregistered'.
- License Authorization Status 'Evaluation Mode'. Unified Communications Manager 12.5 remains in 'Evaluation Mode' for either 90 days, or until it is registered with Cisco Smart Software Manager (whichever comes first).
- Licensing Mode 'Enterprise'.

The following is a screenshot of what the initial mode settings look like immediately after you install of Unified Communications Manager 12.5 and configured devices in it:

The screenshot shows the Cisco Unified CM Administration interface. The main content area is titled 'License Management' and includes several sections:

- Status:** A warning icon indicates the system is in Evaluation Mode. A message states: "You are currently running in Evaluation mode. To register your system with Cisco Smart Software Licensing, ensure your system has access to the internet or a Smart Software Manager satellite installed on your network. This might require you to add the License Smart Call Home Timeout settings." Below this, there are instructions to log in to a Smart account, generate a Product Instance Registration Token, and click the Register button.
- Smart Software Licensing:** Shows 'Registration Status' as 'Unregistered', 'License Authorization Status' as 'Evaluation Mode (94 days remaining)', 'Export-Centriq Functionality' as 'Not Allowed', and 'Licensing Mode' as 'Enterprise'. A 'Register' button is visible.
- License Usage Report:** A summary of current license usage. Below this is a table titled 'License Requirements by Type' with columns for License Type, Current Usage, Status, and Report.

License Type	Current Usage	Status	Report
CUWL	2	Evaluation	Usage/2/1 Unassigned/Decomf/2/1
Enhanced Plus	3	Evaluation	Usage/3/1
Enhanced	10	Evaluation	Usage/3/1 Unassigned/Decomf/3/1
Basic	10	Evaluation	Usage/3/1 Unassigned/Decomf/3/1
Essential	20	Evaluation	Usage/3/1 Unassigned/Decomf/3/1
Telepresence Room	1	Evaluation	Usage/3/1 Unassigned/Decomf/3/1

Below the table, there are sections for 'Users and Unassigned devices' (Users: 5, Unassigned Devices: 41) and 'Smart Licensing Product Registration' (The licenses for this system are managed by Smart Software Manager).

If 'Evaluation Mode' ends after 90 days without registration, then Unified Communications Manager 12.5 enters 'Enforced Mode', and administrative changes are disabled.

After registration, Unified Communications Manager 12.5 periodically syncs with Cisco Smart Software Manager (CSSM) to verify authorization status of Unified Communications Manager 12.5 and validates the customer's registered licenses with locally consumed or used licenses for this Unified Communications Manager 12.5 cluster. If CSSM reports 'Authorization Expired' or insufficient quantity of registered licenses vs. consumed/used licenses, then, Unified Communications Manager 12.5 enters 'Out of Compliance' status. You have an overage period of 90 days to bring licensing back into compliance, at the end of which Unified Communications Manager 12.5 enters 'Enforced Mode', and administrative changes are disabled.

For more information, see the *Cisco Smart Software Licensing with Cisco Unified Communications Manager Solution Overview*.

5. Set the Unified Communications Manager 12.5 cluster to 'BE6000 mode' and specify which BE6000 starter pack you want to use.

On the Unified Communications Manager 12.5 Publisher node, run the platform command line interface **utils BE6000Mode enable** and specify which BE6000 starter pack license you use for your install of or version-upgrade to 12.5:

- BE6000 UCL Starter Bundle (for UCL Enhanced + voicemail)
- BE6000 UWL Starter Bundle (for UWL Standard)
- NONE

The following is a screenshot of the command line to use:

```
admin:utils BE6000Mode enable
Executing this command will enable BE6000 mode and must restart the "Cisco Smart License Manager" service for changes to take effect.
Continue (y/n)?y
Please select the starter bundle from these options (1/2/3) :
1. BE6000 UCL Starter Bundle
2. BE6000 UWL Starter Bundle
3. NONE
1
Service restart is in progress, please wait...
BE6000 mode is enabled with starter bundle :BE6000 UCL Starter Bundle.
admin:
```

As an example, see the following screenshot about what Unified Communications Manager 12.5 displays immediately after being placed into 'BE6000 mode' with 'BE6000 UCL starter bundle' (shows consuming or using one unit that has not yet been requested from registered licenses in Cisco Smart Software Manager):

The screenshot shows the Cisco Unified CM Administration interface. The 'Smart Software Licensing' section is active, displaying 'Registration Status' as 'Registered' and 'License Administration Status' as 'Not Allowed'. The 'License Usage Report' section shows a table of license requirements by type. The 'BE6000 UCL Starter Bundle' is highlighted with a red box, showing a current usage of 1 unit. The status for this bundle is 'Evaluation'.

License Type	Current Usage	Status	Report
BE6000 Core	0	No Licenses in Use	<a href="#">View Report</a>   <a href="#">Unassigned Devices</a>
BE6000 Enhanced Plus	1	Evaluation	<a href="#">View Report</a>
BE6000 Enhanced	0	No Licenses in Use	* <a href="#">View Report</a>   <a href="#">Unassigned Devices</a>
BE6000 Basic	0	No Licenses in Use	* <a href="#">View Report</a>   <a href="#">Unassigned Devices</a>
BE6000 Essential	10	Evaluation	* <a href="#">View Report</a>   <a href="#">Unassigned Devices</a>
BE6000 TelePresence Room	1	Evaluation	<a href="#">View Report</a>   <a href="#">Unassigned Devices</a>
BE6000 UCL Starter Bundle	1	Evaluation	<a href="#">View Report</a>   <a href="#">Unassigned Devices</a>
BE6000 UWL Starter Bundle	0	No Licenses in Use	

\* indicates some or all licenses are from a BE6000 Starter Bundle

6. Register the BE6000 Unified Communications Manager 12.5 with Cisco Smart Software Manager, using the Registration Token.

For more information, see *Cisco Smart Software Licensing with Cisco Unified Communications Manager Solution Overview*.

Enter the Registration Token obtained in Step 3 on the Unified Communications Manager 12.5 Publisher.

The screenshot shows the Cisco Unified CM Administration interface. A 'Register Window - Google Chrome' dialog box is open, displaying the 'Smart Software Licensing Product Registration' status as 'Ready'. The background shows the 'License Usage Report' table with columns for License Type, Current Usage, and Status.

License Type	Current Usage	Status
BE6000 Core	2	Evaluation
BE6000 Enhanced Plus	3	Evaluation
BE6000 Enhanced	0	No Licenses in Use
BE6000 Basic	0	No Licenses in Use
BE6000 Essential	5	Evaluation
BE6000 Telepresence Room	1	Evaluation
BE6000 UCL Starter Bundle	1	No Licenses in Use
BE6000 UWL Starter Bundle	0	No Licenses in Use

The Unified Communications Manager 12.5 Publisher then attempts to request and consume or use a single BE6000 Starter Bundle from your registered license inventory on Cisco Smart Software Manager. The starter bundle feature-level requested is the one you specified at the time of running the platform command line interface **utils BE6000Mode enable**. A Unified Communications Manager 12.5 cluster with its Publisher in 'BE6000 mode' may only request and consume or use a single BE6000 starter pack license. The cluster may request and consume or use any number of BE6000-specific or non-BE6000-specific add-on user licenses, subject to capacity limits of BE6000 solutions.

As an example, for a successfully registered and authorized Unified Communications Manager 12.5 in 'BE6000 mode' using a BE6000 UCL starter pack, see the following screenshots of what you would see on the Unified Communications Manager 12.5 Publisher and on Cisco Smart Software Manager (showing consuming or using one unit that is authorized and registered):

Unified Communications Manager:

The screenshot shows the Cisco Unified CM Administration interface. The 'Registration Status' is 'Registered'. The 'License Usage Report' table shows the 'BE6000 UCL Starter Bundle' with a status of 'Authorized'.

License Type	Current Usage	Status	Report
BE6000 Core	2	Authorized	Users' 2   Unassigned Devices' 0
BE6000 Enhanced Plus	3	Authorized	Users' 3
BE6000 Enhanced	0	No Licenses in Use	* Users' 0   Unassigned Devices' 10
BE6000 Basic	0	No Licenses in Use	* Users' 0   Unassigned Devices' 10
BE6000 Essential	5	Authorized	* Users' 0   Unassigned Devices' 20
BE6000 Telepresence Room	1	Authorized	Users' 1   Unassigned Devices' 1
BE6000 UCL Starter Bundle	1	Authorized	
BE6000 UWL Starter Bundle	0	No Licenses in Use	

Cisco Smart Software Manager:

Virtual Account: UCM-Saurabh

License	Billing	Purchased	In Use	Balance	Alerts	Actions
BE6000 Starter Bundle UCL 35 (12.X)	Prepaid	2	0	+2		Actions
BE6000 Starter Bundle UML 35 (12.X)	Prepaid	2	0	+2		Actions
Emergency Responder User License (12...	Prepaid	10	0	+10		Actions
UC Manager Basic License (12.x)	Prepaid	10	0	+10		Actions
UC Manager CUWL License (12.X)	Prepaid	10	0	+10		Actions
UC Manager Enhanced License (12.x)	Prepaid	10	0	+10		Actions
UC Manager Enhanced Plus License (12...	Prepaid	10	0	+10		Actions
UC Manager Essential License (12.x)	Prepaid	10	0	+10		Actions
UC Manager Telepresence Room Licens...	Prepaid	10	0	+10		Actions

Showing all 9 Records

394019

## Starter Bundle License Consumption

The following is a screenshot of what the initial mode settings look like immediately once you install Unified Communications Manager, after customer configuring the devices in 12.5:

System: Call Routing > Media Resources > Advanced Features > Device > Application > User Management > Bulk Administration > Help

License Management

Smart Software Licensing

Registration Status: **Unregistered**  
 License Authorization Status: **Not Allowed**  
 Export-Controlled Functionality: **Not Allowed**  
 Transport Settings: **Check link**  
 Licensing Mode: **Check link**

License Usage Report

Update Usage Details | Usage Details Last updated: 2019-11-28 19:32:02

License Type	Current Usage	Status	Report
CUWL	2	Evaluation	Usage (1)   Unassigned Device (1)
Enhanced Plus	2	Evaluation	Usage (1)
Enhanced	10	Evaluation	Usage (1)   Unassigned Device (1)
Basic	10	Evaluation	Usage (1)   Unassigned Device (1)
Essential	20	Evaluation	Usage (1)   Unassigned Device (1)
Telepresence Room	1	Evaluation	Usage (1)   Unassigned Device (1)

Users and Unassigned devices

Smart Licensing Product Registration

394294

When the user runs `utils BE6000Mode enable` and select **BE6000 UCL Starter Bundle**

```
admin:utils BE6000Mode enable
Executing this command will enable BE6000 mode and must restart the "Cisco Smart License Manager" service for changes to take effect.
Continue (y/n)?y
Please select the starter bundle from these options (1/2/3) :
1. BE6000 UCL Starter Bundle
2. BE6000 UML Starter Bundle
3. NONE
1
Service restart is in progress, please wait...
BE6000 mode is enabled with starter bundle :BE6000 UCL Starter Bundle.
```

394296

The following image shows the change in the License consumption for the above selection:

**License Requirements by Type**

License Type	Current Usage	Status	Report
BE6000 CUVL	2	Evaluation	Usage' 2.1   Unassigned Devices' 2.1
BE6000 Enhanced Plus	3	Evaluation	Usage' 3.1
BE6000 Enhanced	5	No Licenses in Use	Usage' 5.1   Unassigned Devices' 5.1
BE6000 Basic	0	No Licenses in Use	Usage' 0.1   Unassigned Devices' 0.1
BE6000 Essential	5	Evaluation	Usage' 5.1   Unassigned Devices' 5.1
BE6000 Telepresence Room	1	Evaluation	Usage' 1.1   Unassigned Devices' 1.1
BE6000 UCL Starter Bundle	1	No Licenses in Use	
BE6000 UWL Starter Bundle	0	No Licenses in Use	

\* indicates some or all licenses are from a BE6000 Starter Bundle

**Users and Unassigned Devices**

Users	Unassigned Devices
5	41

When the user runs `utils BE6000Mode enable` and select **BE6000 UWL Starter Bundle**

```
admin:utils BE6000Mode enable
Executing this command will enable BE6000 mode and must restart the "Cisco Smart License Manager" service for changes to take effect.
Continue (y/n)?y

Please select the starter bundle from these options (1/2/3) :
1. BE6000 UCL Starter Bundle
2. BE6000 UWL Starter Bundle
3. NONE
2
Service restart is in progress, please wait...
BE6000 mode is enabled with starter bundle :BE6000 UWL Starter Bundle.
```

The following image shows the change in the License consumption for the above selection:

**License Requirements by Type**

License Type	Current Usage	Status	Report
BE6000 CUVL	0	No Licenses in Use	Usage' 0.1   Unassigned Devices' 0.1
BE6000 Enhanced Plus	0	No Licenses in Use	Usage' 0.1
BE6000 Enhanced	0	No Licenses in Use	Usage' 0.1   Unassigned Devices' 0.1
BE6000 Basic	0	No Licenses in Use	Usage' 0.1   Unassigned Devices' 0.1
BE6000 Essential	10	Evaluation	Usage' 10.1   Unassigned Devices' 10.1
BE6000 Telepresence Room	1	Evaluation	Usage' 1.1   Unassigned Devices' 1.1
BE6000 UCL Starter Bundle	0	No Licenses in Use	
BE6000 UWL Starter Bundle	1	Evaluation	

\* indicates some or all licenses are from a BE6000 Starter Bundle

**Users and Unassigned Devices**

Users	Unassigned Devices
5	41

When the user runs `utils BE6000Mode enable` and select **None**

```

admin:utils BE6000Mode enable

Executing this command will enable BE6000 mode and must restart the "Cisco Smart License Manager" service for changes to take effect.
Continue (y/n)?y

Please select the starter bundle from these options (1/2/3) :
1. BE6000 UCL Starter Bundle
2. BE6000 UML Starter Bundle
3. NONE
>
Service restart is in progress, please wait...

BE6000 mode is enabled with starter bundle :NONE.

```

394307

The following image shows the change in the License consumption for the above selection:

The screenshot shows the Cisco Unified CM Administration interface. The 'License Management' section is active, displaying the 'License Usage Report'. A table titled 'License Requirements by Type' is highlighted with a red box. The table lists various license types and their current usage. The 'BE6000 UCL Starter Bundle' is listed with a current usage of 0. The 'BE6000 UML Starter Bundle' is also listed with a current usage of 0. The 'BE6000 UCL Starter Bundle' is highlighted with a red box. The 'BE6000 UML Starter Bundle' is also highlighted with a red box. The 'BE6000 UCL Starter Bundle' is listed with a current usage of 0. The 'BE6000 UML Starter Bundle' is also listed with a current usage of 0. The 'BE6000 UCL Starter Bundle' is listed with a current usage of 0. The 'BE6000 UML Starter Bundle' is also listed with a current usage of 0.

License Type	Current Usage	Status	Report
BE6000 Civil	2	Evaluation	Usage of 2.1   Unassigned Device(s) 0
BE6000 Enhanced Plus	3	Evaluation	Usage of 2.1
BE6000 Enhanced	10	Evaluation	Usage of 2.1   Unassigned Device(s) 10.1
BE6000 Basic	10	Evaluation	Usage of 2.1   Unassigned Device(s) 10.1
BE6000 Essential	20	Evaluation	Usage of 2.1   Unassigned Device(s) 20.1
BE6000 TelePresence Room	1	Evaluation	Usage of 2.1   Unassigned Device(s) 1.1
BE6000 UCL Starter Bundle	0	No Licenses in Use	Usage of 2.1   Unassigned Device(s) 0
BE6000 UML Starter Bundle	0	No Licenses in Use	

394308

### Addon User License Consumption

In BE6000 mode, Unified Communications Manager 12.5 consumes BE6000 Starter Bundle addons along with Enterprise addons.

**Cisco Unified CM Administration**  
For Cisco Unified Communications Solutions

Navigation: Cisco Unified CM Administration **admin** About Logout

System Call Routing Media Resources Advanced Features Device Application User Management Bulk Administration Help

**License Management**

**Status**  
You are currently running in Evaluation mode. To register your system with Cisco Smart Software licensing:  
 - Ensure your system has access to the internet or a Smart Software Manager satellite installed on your network. This might require you to [edit the Licensing Smart Call Home Transport settings](#).  
 - Login to your smart account in [Smart Software Manager](#) or your Smart Software Manager satellite.  
 - Navigate to the virtual account containing the licenses to be used by this Product Instance.  
 - Generate a Product Instance Registration token (to identify your Smart Account) and copy or save it.  
 - Return to this page, click the Register button, and use the copied or saved Token to register the product.

**Smart Software Licensing**

Registration Status: ⚠ Unregistered  
 License Authorization Status: ⚠ Evaluation Mode (80 days remaining)  
 Export-Controlled Functionality: Not Allowed [Edit Call Home settings](#)

Licensing Mode: BE6000

**License Usage Report**  
 Below is a summary of current license usage on the system. Current usage details for each type are available by pressing "Update Usage Details". Note that collecting these data is a resource intensive process and may take several minutes to complete, depending on the size of your deployment.  
[View All License Type Descriptions And Device Classifications](#)

Usage Details Last Updated: 2020-03-09 10:55:20

License Type	Current Usage	Status	Report
CUWL	1	<span style="color: orange;">⚠</span> Evaluation	<a href="#">Users( 1 )   Unassigned Devices( 0 )</a>
Enhanced Plus	1	<span style="color: orange;">⚠</span> Evaluation	<a href="#">Users( 1 )</a>
Enhanced	6	<span style="color: orange;">⚠</span> Evaluation	<a href="#">Users( 0 )   Unassigned Devices( 41 )</a>
Basic	1	<span style="color: orange;">⚠</span> Evaluation	<a href="#">Users( 0 )   Unassigned Devices( 1 )</a>
Essential	1	<span style="color: orange;">⚠</span> Evaluation	<a href="#">Users( 0 )   Unassigned Devices( 1 )</a>
TelePresence Room	1	<span style="color: orange;">⚠</span> Evaluation	<a href="#">Users( 0 )   Unassigned Devices( 1 )</a>
BE6000 UCL Starter Bundle	1	<span style="color: orange;">⚠</span> Evaluation	<a href="#">Users( 0 )   Unassigned Devices( 1 )</a>
BE6000 UWL Starter Bundle	0	<span style="color: green;">✔</span> No Licenses in Use	

\* Indicates some or all licenses are from a BE6000 Starter Bundle

**Users and Unassigned devices**

Users: 2 [View Usage Report](#)  
 Unassigned Devices: 44 [View Usage Report](#)

**Smart Licensing Product Registration**  
 The licenses for this system are managed by [Smart Software Manager](#)

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