



Cisco Smart Licensing for CUCM 12.5 and 14 BE6000-specific Licenses

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Cisco Smart Licensing for Unified Communications Manager 12.5 and 14 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 or are using version 14 licenses (which are only sold as Collaboration Flex Plan) (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.
 - 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.
 2. 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:

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.X)	Prepaid	10	0	+10		Actions
UC Manager Basic License (12.X)	Prepaid	10	0	+10		Actions
UC Manager CUM, 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 Licenses	Prepaid	10	0	+10		Actions

Showing all 9 Records

- 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):

Virtual Account: BU-Prod-UCM-SLM-Dev2

Product Instance Registration Tokens

The registration tokens below can be used to register new product instances in this virtual account.

Token	Expiration Date	Uses	Export-Controlled	Description	Created By	Actions
W5A25P0TUVZDE12	2020-Nov-27 13:23:34 (in 36...)	Allowed			rajgill	Actions
Zhr72N04V0L70m...	2020-Oct-22 14:44:35 (in 33...)	Not Allowed	Not Allowed	Token for BU-Prod-UCM-SLM-Dev2	delivras	Actions

The token will be expired when either the expiration or the maximum uses is reached.

Showing all 2 Records

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 'License Management' section is active, displaying the following information:

- Smart Software Licensing:**
 - Registration Status: Unregistered
 - License Authorization Status: Evaluation Mode (94 days remaining)
 - Registration Functional: Not Allowed
 - Transport Settings: Configure
 - Licensing Mode: Enterprise
 - Register: Button
- 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 environment.
 - Update Usage Details | Usage Details Last updated: 2019-11-28 19:32:52
- License Requirements by Type:**

Type	License Type	Current Usage	Status	Value	Report
Licensing Mode	CVL	2	Evaluation	Unreg'd Device(s)	Unreg'd Device(s)
	Enhanced Plus	3	Evaluation	Unreg'd Device(s)	Unreg'd Device(s)
	Enhanced	10	Evaluation	Unreg'd Device(s)	Unreg'd Device(s)
	Basic	10	Evaluation	Unreg'd Device(s)	Unreg'd Device(s)
	Essential	20	Evaluation	Unreg'd Device(s)	Unreg'd Device(s)
Telepresence Room	1	Evaluation	Unreg'd Device(s)	Unreg'd Device(s)	
- Users and Unregistered devices:**
 - Users: 5 (View Details)
 - Unregistered Devices: 41 (View Details)
- 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):

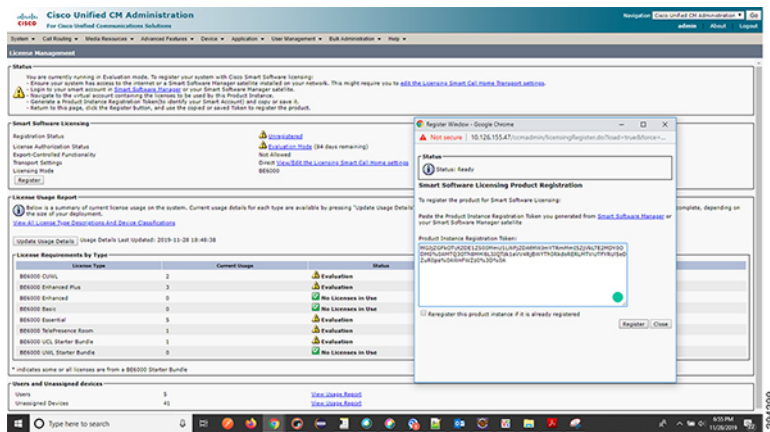
The screenshot shows the Cisco Unified CM Administration interface. The 'License Management' section is active, displaying registration status as 'Successful' and license authorization status as 'Evaluation Mode (79 days remaining)'. The 'License Usage Report' section shows a table of license requirements by type. The 'BE6000 UCL Starter Bundle' is highlighted in red, showing a current usage of 1 unit. The 'BE6000 UWL Starter Bundle' is also highlighted in red, showing a current usage of 0 units.

License Type	Current Usage	Status	Report
BE6000 Core	0	No Licenses in Use	View Details Unassigned Devices
BE6000 Enhanced Plus	1	Evaluation	View Details
BE6000 Enhanced	0	No Licenses in Use	* View Details Unassigned Devices
BE6000 Basic	0	No Licenses in Use	* View Details Unassigned Devices
BE6000 Essential	10	Evaluation	* View Details Unassigned Devices
BE6000 TelePresence Room	1	Evaluation	* View Details Unassigned Devices
BE6000 UCL Starter Bundle	1	Evaluation	
BE6000 UWL Starter Bundle	0	No Licenses in Use	

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*.

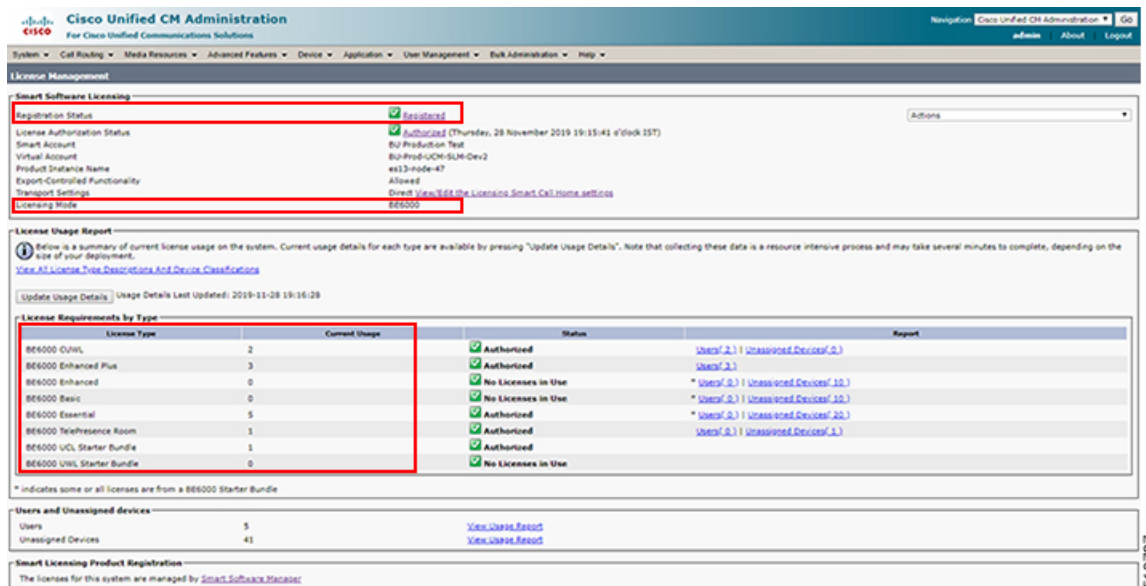
Enter the Registration Token obtained in Step 3 on the Unified Communications Manager 12.5 Publisher.



The 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:



Cisco Smart Software Manager:

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.X)	Prepaid	10	0	+10		Actions
UC Manager Basic License (12.X)	Prepaid	10	0	+10		Actions
UC Manager CUM, 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 Licens...	Prepaid	10	0	+10		Actions

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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:

License Type	Current Usage	Status	Report
UCL	2	Evaluation	UCL (1) Unassigned Dec 2013
Enhanced Plus	3	Evaluation	UCL (2)
Enhanced	10	Evaluation	UCL (1) Unassigned Dec 2013
Basic	10	Evaluation	UCL (1) Unassigned Dec 2013
Essential	10	Evaluation	UCL (1) Unassigned Dec 2013
Telepresence Room	1	Evaluation	UCL (1) Unassigned Dec 2013

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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.
    
```

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

The screenshot shows the 'License Management' page in Cisco Unified CM Administration. The 'License Usage Report' table is highlighted with a red box. The table lists various license types and their current usage.

License Type	Current Usage	Status	Report
BE6000 Core	2	Evaluation	View Report
BE6000 Enhanced Plus	2	Evaluation	View Report
BE6000 Enhanced	0	No Licenses in Use	View Report
BE6000 Base	0	No Licenses in Use	View Report
BE6000 Essential	1	Evaluation	View Report
BE6000 Next-Gen Room	1	Evaluation	View Report
BE6000 UCL Starter Bundle	1	Evaluation	View Report
BE6000 UWL Starter Bundle	0	No Licenses in Use	View Report

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:

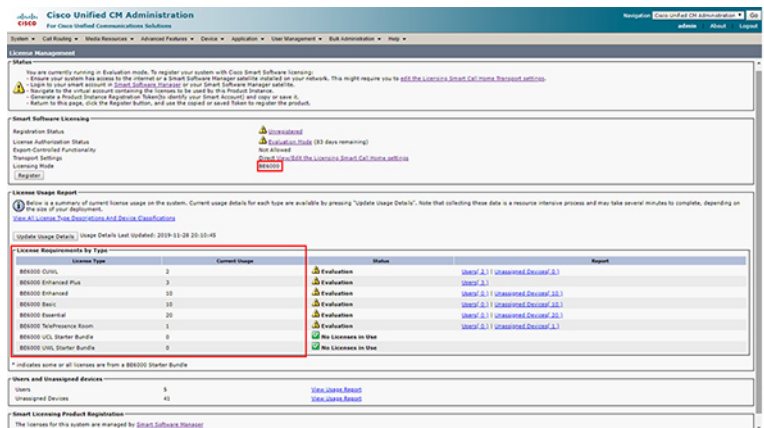
The screenshot shows the 'License Management' page in Cisco Unified CM Administration after the command execution. The 'License Usage Report' table is highlighted with a red box, showing that the 'BE6000 UWL Starter Bundle' usage is now 1.

License Type	Current Usage	Status	Report
BE6000 Core	0	No Licenses in Use	View Report
BE6000 Enhanced Plus	0	No Licenses in Use	View Report
BE6000 Enhanced	0	No Licenses in Use	View Report
BE6000 Base	0	No Licenses in Use	View Report
BE6000 Essential	1	Evaluation	View Report
BE6000 Next-Gen Room	1	Evaluation	View Report
BE6000 UCL Starter Bundle	0	No Licenses in Use	View Report
BE6000 UWL Starter Bundle	1	Evaluation	View Report

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 UWL Starter Bundle
3. NONE
3
Service restart is in progress, please wait...
BE6000 mode is enabled with starter bundle :NONE.
```

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



Addon User License Consumption

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

