Rehost licenses between MC3GX60V Line Cards in a uBR10012 Router

Contents

[Introduction](#)
[Components Used](#)
[Requirements](#)
[Procedure](#)
[Step 1: Get the Device Credential](#)
[Step 2: Request license transfer on license portal](#)
[Step 2.1 Specify source for license transfer](#)
[Step 2.2 Specify target for license transfer](#)
[Step 2.3 Generate the permission ticket for license transfer](#)
[Step 3: Revoke the license on source LC](#)
[Step 4: Get new license for target LC on license portal](#)
[Step 4.1: Enter rehost information](#)
[Step 4.2: Generate license file for target LC](#)
[Step 5: Install new license on target LC.](#)
[Step 5.1: copy license file to CMTS](#)
[Step 5.2: Check the current license status before installing the new license on target LC](#)
[Step 5.3: Install new license on target LC](#)
[Step 5.4: Check the license status after installation](#)

Introduction

This document describes the procedure for rehosting, or in other words, the process of transferring the licenses between 2 Line Cards (LC) of a uBR1002. In this example, 2 DS x 2 US licenses from line card slot 8/1 (that originally has 72x60) are transferred to line card slot 8/0 (that originally has 60x16) on the Cisco uBR-MC3GX60V line card.

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Edited by: Kumar Sridhar

Components Used

Cisco uBR10012 Universal Broadband Router

MC3GC60V Line Cards

Requirements

A log in account with Cisco.com

Access to Cisco License portal https://slexui.cloudapps.cisco.com/SWIFT/LicensingUI/Quickstart#

Procedure

Following are the the steps involved in rehosting the licenses from the source card, in slot 8/1 to target card, in slot 8/0:

Step 1: Get the license credential of the source LC.

Step 2: Request license transfer on license portal.

Step 3: Revoke the license on source LC.

Step 4: Get new license for target LC on license portal.

Step 5: Install new license on target LC.

Step 1: Get the Device Credential

Using the commands shown below, save the device credential of LC 8/1 to disk0 as "81_cred.txt". You can display the contents of the file using the **more** command followed by the file name:

```
ubr10012-1#show license udi

SlotID   PID            SN               UDI

--------------------------------------------------------------------------------

 7/0  UBR-MC20X20V          CAT1441E0L2     UBR-MC20X20V:CAT1441E0L2

 7/1  UBR-MC20X20V          CAT1441E0KH     UBR-MC20X20V:CAT1441E0KH

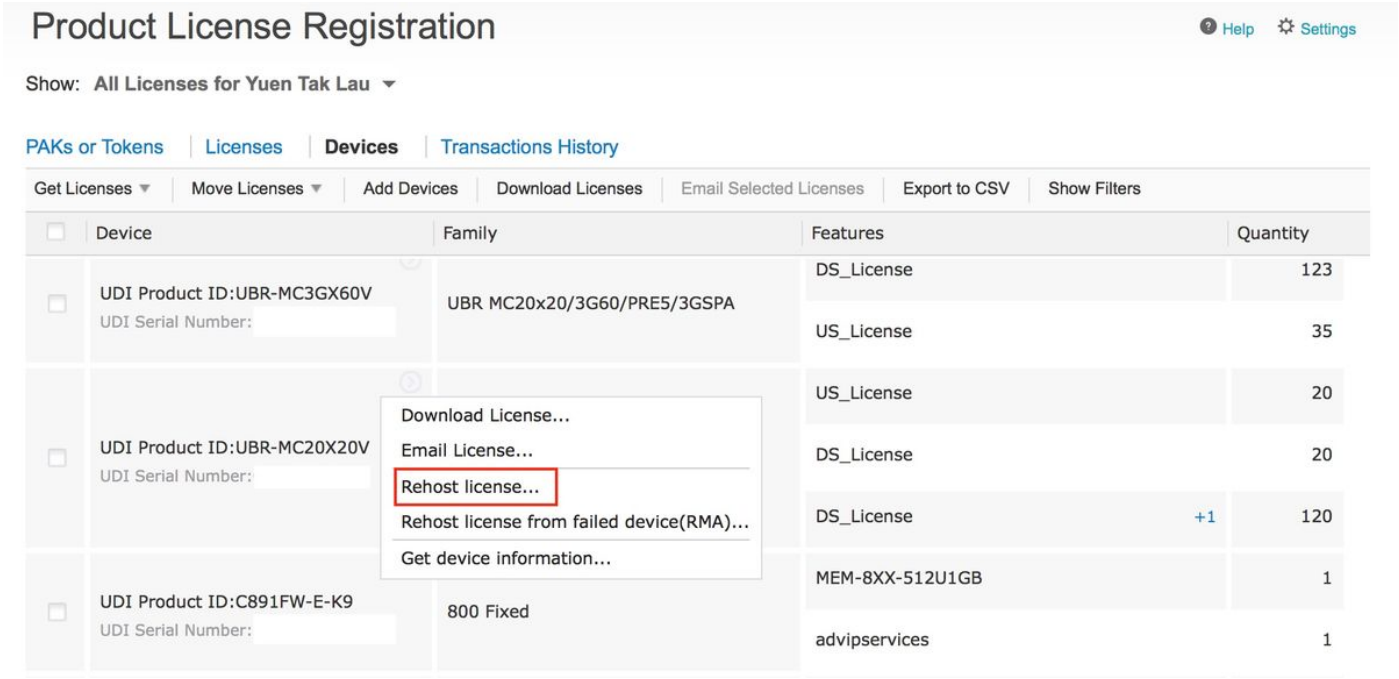
 8/0  UBR-MC3GX60V          CAT1616E015     UBR-MC3GX60V:CAT1616E015
```

```
8/1 UBR-MC3GX60V CAT1435E0TZ UBR-MC3GX60V:CAT1435E0TZ ubr10012-1#license save credential
disk0:81_cred.txt subslot  8/1 Device credential saved ..... to disk0:81_cred.txt ubr10012-1#more
disk0:81_cred.txt <?xml version="1.0" encoding="UTF-8"?><CISCO_WT_ARTIFACTS
version="1.0"><CISCO_WT_REHOST_ARTIFACT version="1.0"><HEADER><ARTIFACT_TYPE>Device
Credentials</ARTIFACT_TYPE><ARTIFACT_VERSION>1.0</ARTIFACT_VERSION><TRANSACTION_ID>T and I trans
id</TRANSACTION_ID><UDI><PID>UBR-
MC3GX60V</PID><SN>CAT1435E0TZ</SN></UDI><SOURCE>Device</SOURCE><CREATE_DATE>2013-07-
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AAAAAAAAAAAAAAAA=</DECIPHER_INFO><CORE_DATA><CIPHER_DATA
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</CORE_DATA><SIGNATURE_INFO
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CYfl8ffm9kRCY+zaQAc3leY0iCVh5/4qa2t4Ns1iS+icrxrw==</SIGNATURE_INFO></CONTENT></CISCO_WT_REHOST_A
RTIFACT></CISCO_WT_ARTIFACTS> ubr10012-1#
```

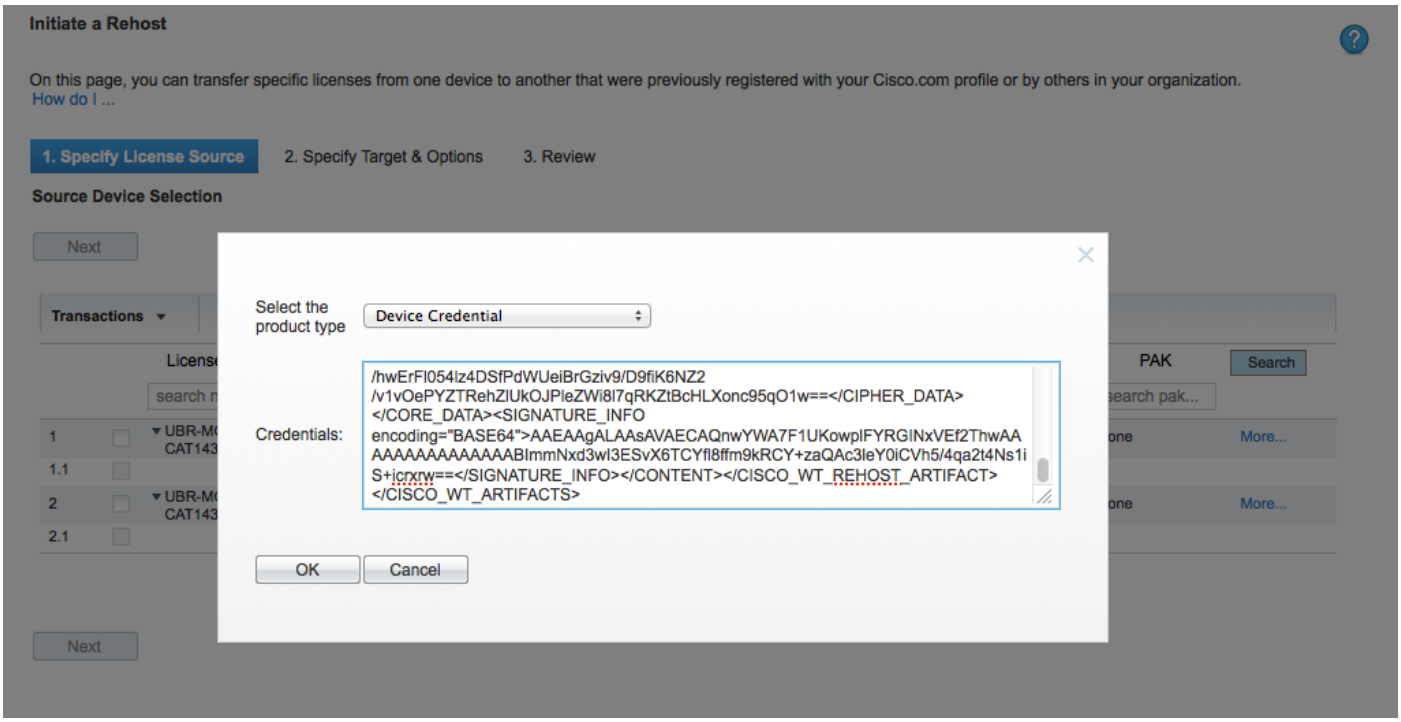
Step 2: Request license transfer on license portal

Go to https://slexui.cloudapps.cisco.com/SWIFT/LicensingUI/Quickstart# website, select the devce from "Devices", click the blue ">" to select "Rehost

license..." and paste the device credential (from the **more** command output as in Step 1) to register and request a license transfer:



If you don't see the device in your CCO profile, click "Add Devices" and add the device to your CCO profile.

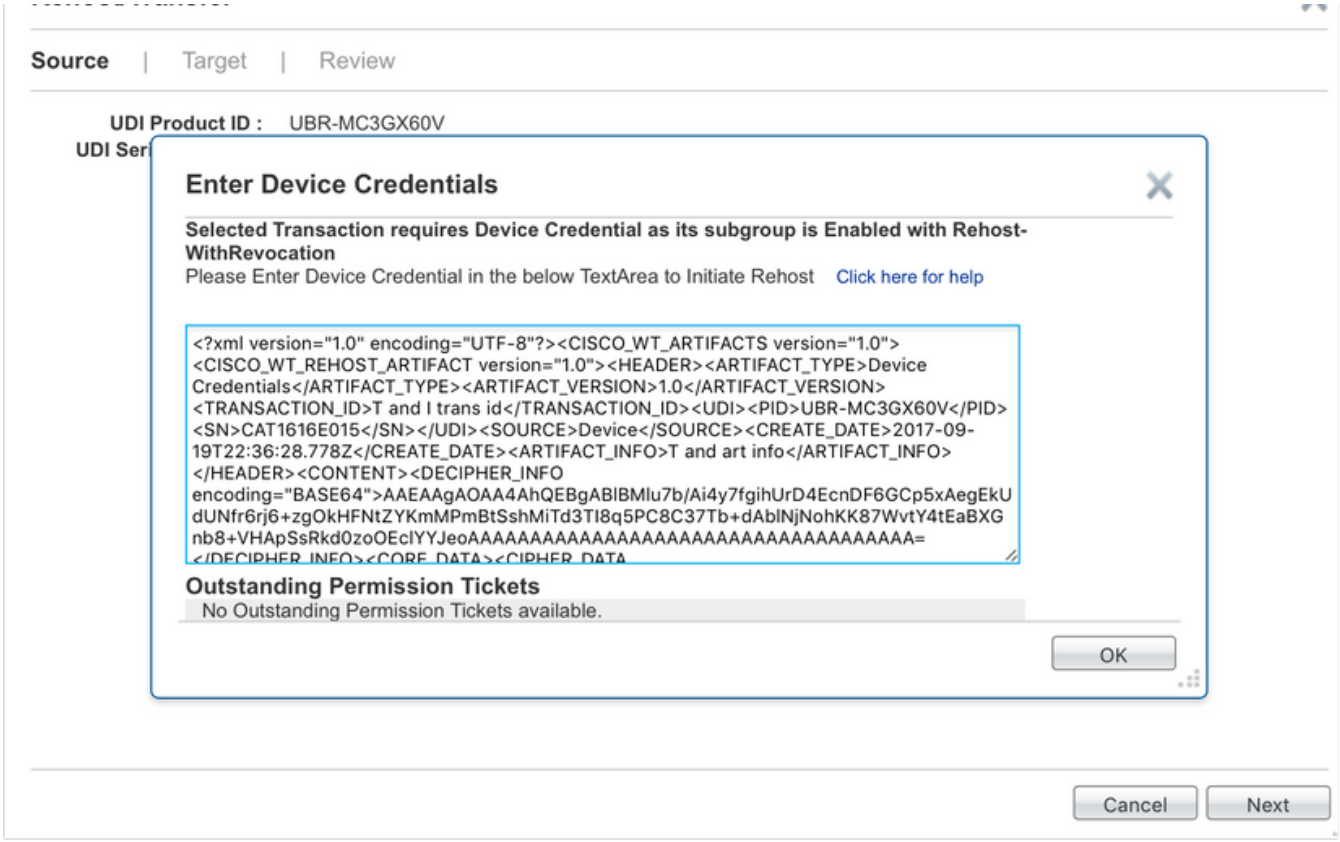


After adding the device, you will see the associated license in the webpage.

Step 2.1 Specify source for license transfer

Select the license you want to transfer:

Fill the text box with the device credential that you obtained in Step 2.

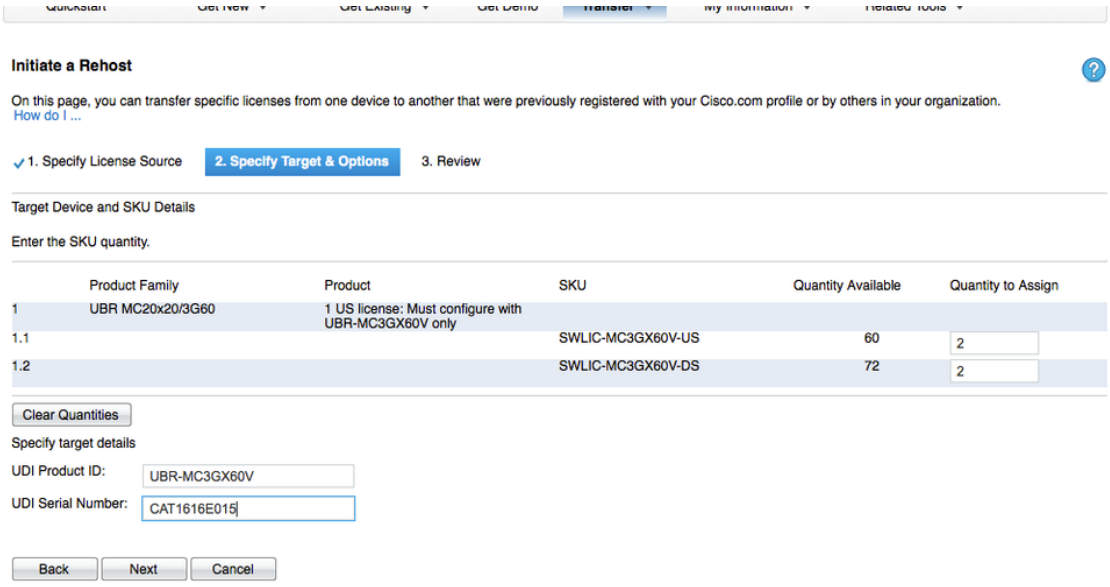


Click “Next”

Step 2.2 Specify target for license transfer

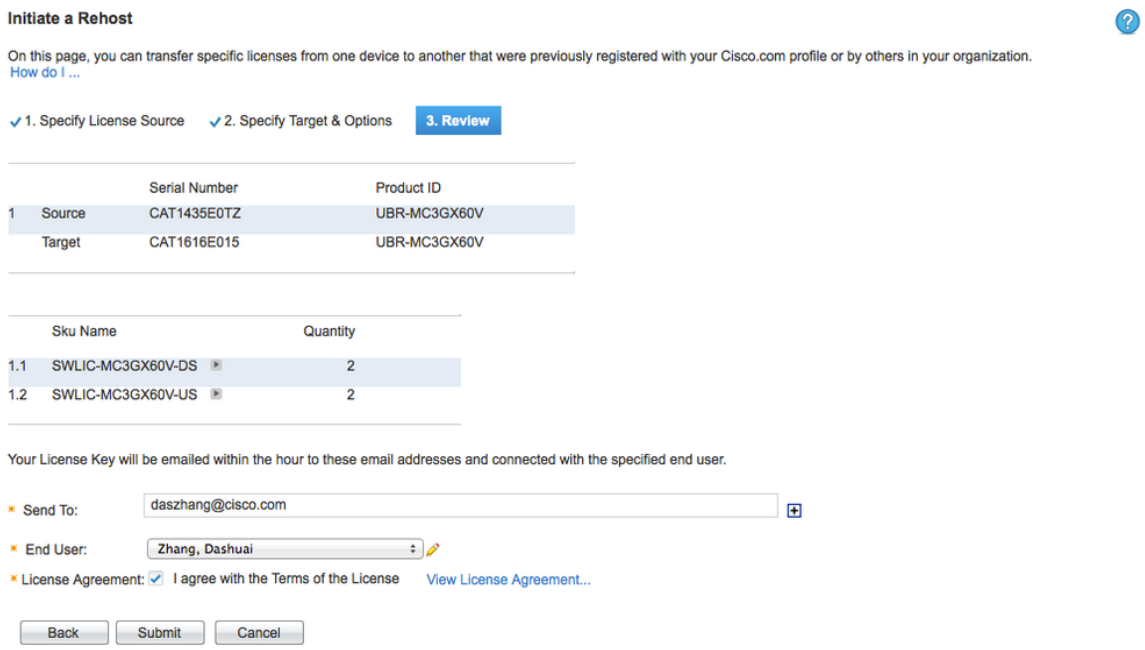
In the “Quantity to Assign”, fill in the license counts you want to transfer from the source Line Card.

In this example, there are 72DSX60US licenses for subslot 8/1. We will transfer 2DSx2US licenses to subslot 8/0. After transferring, 70DSx58US licenses will remain on subslot 8/1.



Click “Next”

Step 2.3 Generate the permission ticket for license transfer



A permission ticked is issued after you click the “Submit” button. It gets emailed to your email address.

Copy the permission ticket license file, from your email, to CMTS using TFTP or any other means available:

```
ubr10012-1#copy tftp://10.66.94.155/CAT1435E0TZ_20130704171351238.lic disk0:

Destination filename [CAT1435E0TZ_20130704171351238.lic]?

Accessing tftp://10.66.94.155/CAT1435E0TZ_20130704171351238.lic...

Loading CAT1435E0TZ_20130704171351238.lic from 10.66.94.155 (via GigabitEthernet1/1/0): !

[OK - 8872 bytes]
```

Step 3: Revoke the license on source LC

Use this permission ticket to start the rehost process by using Cisco IOS commands.

Apply the permissions ticket to the source device by using the license revoke command.

The source device then provides a rehost ticket indicating proof of revocation. A sixty-day grace period license is also installed on the device to allow enough time to transfer the licenses to the destination device.

The Rehost ticket will be used to generate the new license file for the target.

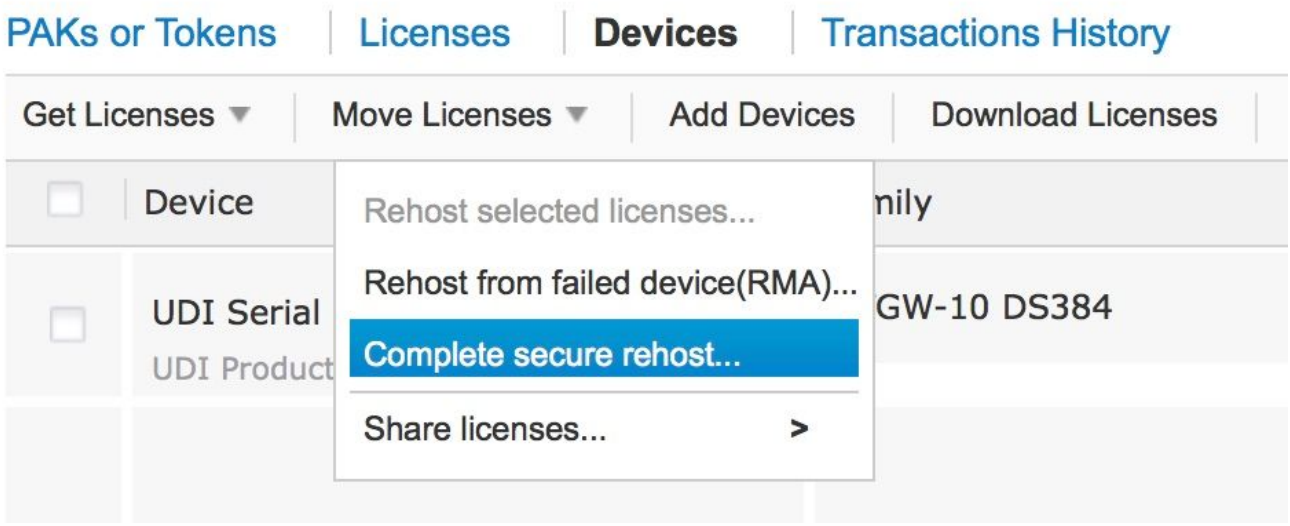
In case you lose the rehost ticket (“disk0:rt” in this case), you can repeat the above “license revoke” procedure to get the rehost ticket.

```
ubr10012-1#license revoke disk0:CAT1435E0TZ_20130704171351238.lic disk0:rt   Following Permanent
license(s) will be revoked from this device Feature Name: DS_License : Count = 72 Feature Name:
US_License : Count = 60 Following Permanent license(s) will be installed on this device Feature
Name: US_License : Count = 58 Feature Name: DS_License : Count = 70 Following Extension
license(s) will be installed on this device Feature Name: US_License : Count = 60 Feature Name:
DS_License : Count = 72 PLEASE READ THE FOLLOWING TERMS CAREFULLY. INSTALLING THE LICENSE OR
LICENSE KEY PROVIDED FOR ANY CISCO PRODUCT FEATURE OR USING SUCH PRODUCT FEATURE CONSTITUTES
YOUR FULL ACCEPTANCE OF THE FOLLOWING TERMS. YOU MUST NOT PROCEED FURTHER IF YOU ARE NOT WILLING
TO BE BOUND BY ALL THE TERMS SET FORTH HEREIN. You hereby acknowledge and agree that the product
feature license is terminable and that the product feature enabled by such license may be shut
down or terminated by Cisco after expiration of the applicable term of the license (e.g., 30-day
```

trial period). Cisco reserves the right to terminate or shut down any such product feature electronically or by any other means available. While alerts or such messages may be provided, it is your sole responsibility to monitor your terminable usage of any product feature enabled by the license and to ensure that your systems and networks are prepared for the shut down of the product feature. You acknowledge and agree that Cisco will not have any liability whatsoever for any damages, including, but not limited to, direct, indirect, special, or consequential damages related to any product feature being shutdown or terminated. By clicking the "accept" button or typing "yes" you are indicating you have read and agree to be bound by all the terms provided herein. ACCEPT? (yes/[no]): yes Rehost ticket saved ..... to disk0:rt ubr10012-1#show license detail subslot 8/1 Index: 1 Feature: DS_License Version: 1.0 License Type: Evaluation License State: Active, In Use Evaluation total period: 8 weeks 4 days Evaluation period left: 8 weeks 3 days Expiry date: Sep 02 2013 06:41:34 License Count: 72/72/0 (Active/In-use/Violation) License Priority: High Store Index: 3 Store Name: Primary License Storage Index: 2 Feature: DS_License Version: 1.0 License Type: Permanent License State: Inactive License Count: 70/0/0 (Active/In-use/Violation) License Priority: Medium Store Index: 1 Store Name: Primary License Storage Index: 3 Feature: DS_License Version: 1.0 License Type: Evaluation License State: Inactive Evaluation total period: 8 weeks 4 days Evaluation period left: 1 week 2 days License Count: 72/0/0 (Active/In-use/Violation) License Priority: Low Store Index: 1 Store Name: Evaluation License Storage Index: 4 Feature: US_License Version: 1.0 License Type: Evaluation License State: Active, In Use --More-- % RPC failed to slot 17 Evaluation total perio 4 days Evaluation period left: 8 weeks 3 days Expiry date: Sep 02 2013 06:46:34 License Count: 60/60/0 (Active/In-use/Violation) License Priority: High Store Index: 2 Store Name: Primary License Storage Index: 5 Feature: US_License Version: 1.0 License Type: Permanent License State: Inactive License Count: 58/0/0 (Active/In-use/Violation) License Priority: Medium Store Index: 0 Store Name: Primary License Storage Index: 6 Feature: US_License Version: 1.0 License Type: Evaluation License State: Inactive Evaluation total period: 8 weeks 4 days Evaluation period left: 8 weeks 4 days License Count: 60/0/0 (Active/In-use/Violation) License Priority: Low Store Index: 0 Store Name: Evaluation License Storage ubr10012-1#

Step 4: Get new license for target LC on license portal

Enter the rehost ticket into the license transfer portal tool by choosing the "Devices > Move licenses > Complete secure rehost..." along with destination device UDI. Refer to picture below:



Extract the text from the Rehost Ticket:

ubr10012-1#more disk0:rt <?xml version="1.0" encoding="UTF-8"?><CISCO_WT_ARTIFACTS version="1.0"><CISCO_WT_REHOST_ARTIFACT version="1.0"><HEADER><ARTIFACT_TYPE>Rehost Artifact</ARTIFACT_TYPE><ARTIFACT_VERSION>1.0</ARTIFACT_VERSION><TRANSACTION_ID>00DD93AAAC</TRANSACTION_ID><UDI><PID>UBR-MC3GX60V</PID><SN>CAT1435E0TZ</SN></UDI><SOURCE>Device</SOURCE><CREATE_DATE>2013-07-04T13:41:34.151Z</CREATE_DATE><CISCO_REHOST_CHANGES><CISCO_REHOST_ADD><CISCO_WT_LICENSE version="1.0"><FEATURE_NAME>US_License</FEATURE_NAME><FEATURE_VERSION>1.0</FEATURE_VERSION><UDI><PID>UBR-MC3GX60V</PID><SN>CAT1435E0TZ</SN></UDI><SOURCE>Cisco HQ</SOURCE><CREATE_DATE>2013-07-05T00:13:44.000Z</CREATE_DATE><LICENSE_LINE_HASH

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05T00:13:44.000Z</CREATE_DATE><LICENSE_LINE_HASH
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YGXZxC0wAZOm9Mdht4W/nSsupcZQROiOB4EPP06jnj6IJ5iNOwSqjGDfQ0rIz9wTe06qvI33uunyq/jih8+g7qqwpzXncc7O
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encoding="BASE64">AAEAAgALAAsAVAECAQlAYiZn2ol/b/XEYyF368laOv/kIQAAAAAAAAAAAAAAAAE/cnMwLdddnDg807K
ZDqj7n5UvftxqDacwxmHnecgM3yfHlctTmyWC0lCdm9Mtt8g==</SIGNATURE_INFO></CONTENT></CISCO_WT_REHOST_A
RTIFACT></CISCO_WT_ARTIFACTS> ubr10012-1#

Step 4.1: Enter rehost information

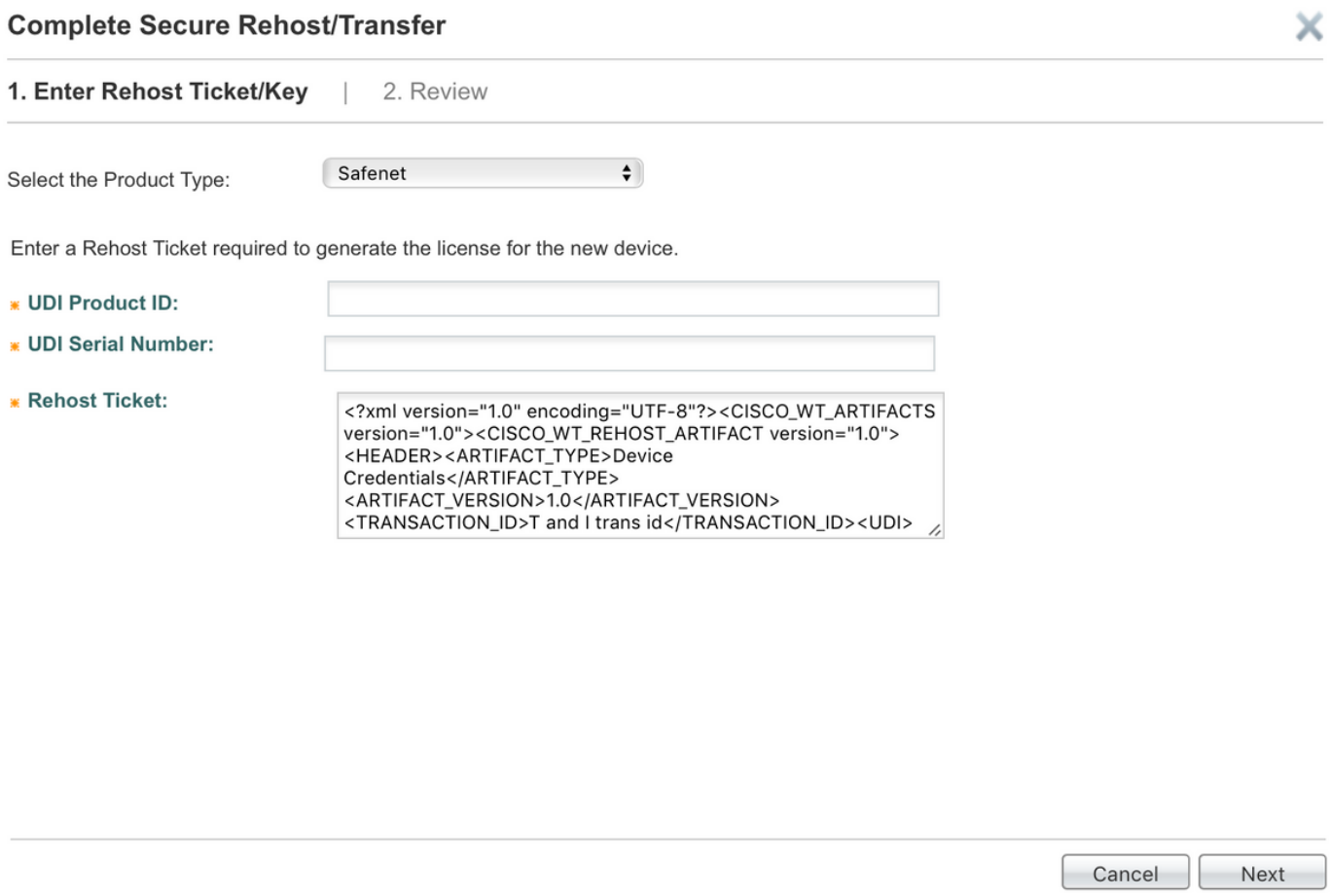
Product Type: “Safenet”

UDI Product ID: <Target PID>

UDI Serial Number: <Target SN>

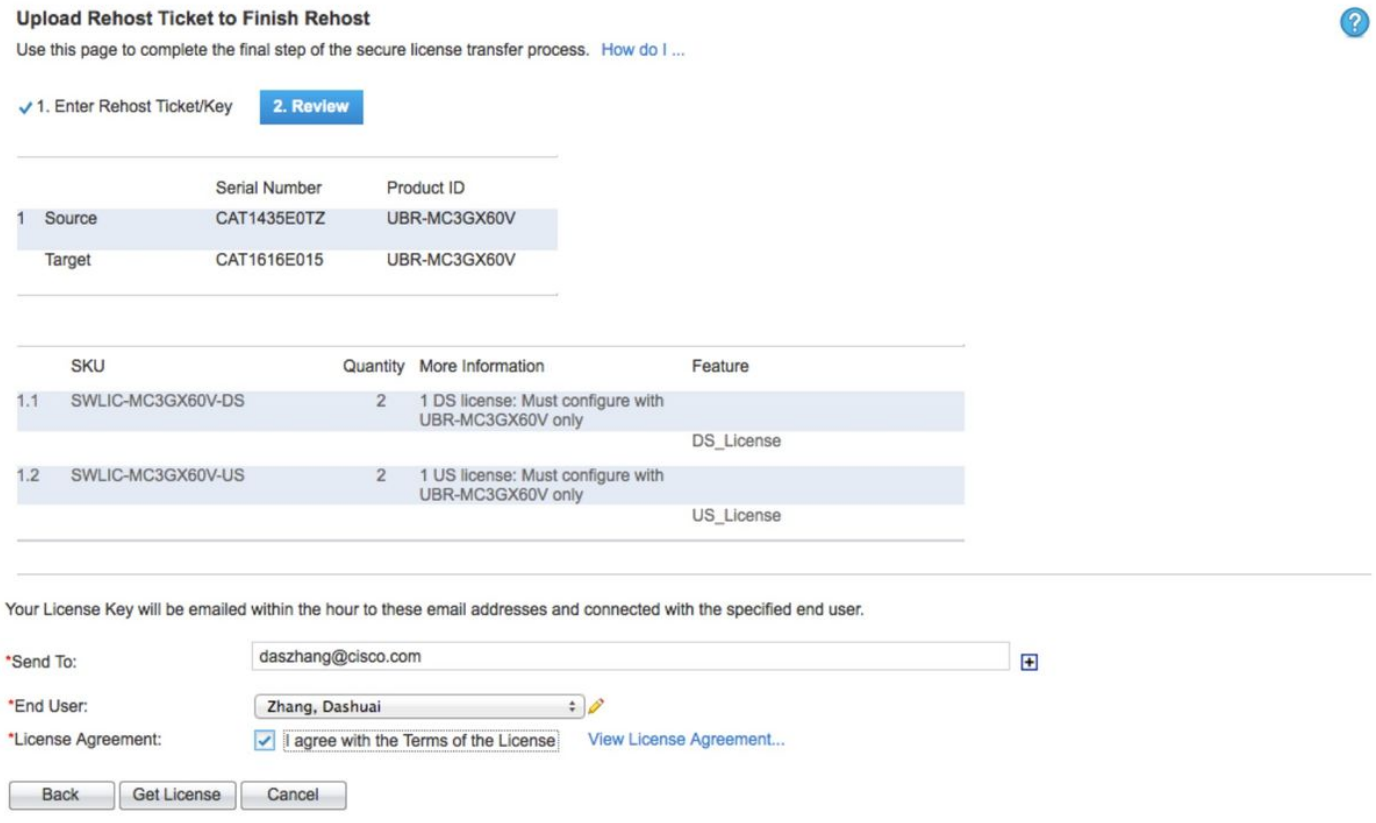
In the "Rehost Ticket" field enter the text extracted from the Rehost Ticket as above.

Then click “Next”



Step 4.2: Generate license file for target LC

Click “Get License”. You will receive a license file by email.



Step 5: Install new license on target LC.

Step 5.1: copy license file to CMTS

Copy the license file from your email to a TFTP server accessible from the uBR10K.

Copy the license file to uBR10K from the TFTP server.

```
ubr10012-1#copy tftp://10.66.94.155/ CAT1616E015_20130704172627009.lic disk0:


Destination filename [CAT1616E015_20130704172627009.lic]?


Accessing tftp://10.66.94.155/CAT1616E015_20130704172627009.lic...


Loading CAT1616E015_20130704172627009.lic from 10.66.94.155 (via GigabitEthernet1/1/0): !


[OK - 2237 bytes]




2237 bytes copied in 0.556 secs (4023 bytes/sec)


ubr10012-1#
```

Step 5.2: Check the current license status before installing the new license on target LC

Check current license status on subslot 8/0 before applying the new license file:

```
ubr10012-1#show license detail subslot 8/0


Index: 1    Feature: DS_License                         Version: 1.0


      License Type: Permanent


      License State: Active, In Use License Count: 60/60/0 (Active/In-use/Violation) License
Priority: Medium Store Index: 0 Store Name: Primary License Storage Index: 2 Feature: DS_License
Version: 1.0 License Type: Evaluation License State: Inactive Evaluation total period: 8 weeks 4
days Evaluation period left: 8 weeks 4 days License Count: 72/0/0 (Active/In-use/Violation)
License Priority: None Store Index: 1 Store Name: Evaluation License Storage Index: 3 Feature:
```

```
US_License Version: 1.0 License Type: Permanent License State: Active, In Use License Count:
16/16/0 (Active/In-use/Violation) License Priority: Medium Store Index: 1 Store Name: Primary
License Storage Index: 4 Feature: US_License Version: 1.0 License Type: Evaluation License
State: Inactive Evaluation total period: 8 weeks 4 days Evaluation period left: 8 weeks 4 days
License Count: 60/0/0 (Active/In-use/Violation)                    License Priority: None Store Index:
Name: Evaluation License Storage ubr10012-1#
```

Step 5.3: Install new license on target LC

Installl the new license:

```
ubr10012-1#license install disk0:CAT1616E015_20130704172627009.lic

Installing licenses from "disk0:CAT1616E015_20130704172627009.lic"

Installing...Feature:US_License...Successful:Supported

Installing...Feature:DS_License...Successful:Supported

2/2 licenses were successfully installed 0/2 licenses were existing licenses 0/2 licenses were
failed to install
```

Step 5.4: Check the license status after installation

Run the **show license detail** command for 8/0 after installing the rehosted 2x2 license. The count changes to 62/18:

```
ubr10012-1#                                                    show license detail subslot 8/0


Index: 1    Feature: DS_License                        Version: 1.0


      License Type: Permanent


      License State: Active, In Use License Count: 62/62/0 (Active/In-use/Violation) License
Priority: Medium Store Index: 3 Store Name: Primary License Storage Index: 2 Feature: DS_License
Version: 1.0 License Type: Permanent License State: Inactive License Count: 60/0/0 (Active/In-
use/Violation) License Priority: Medium Store Index: 0 Store Name: Primary License Storage
Index: 3 Feature: DS_License Version: 1.0 License Type: Evaluation License State: Inactive
Evaluation total period: 8 weeks 4 days Evaluation period left: 8 weeks 4 days License Count:
72/0/0 (Active/In-use/Violation) License Priority: None Store Index: 1 Store Name: Evaluation
License Storage Index: 4 Feature: US_License Version: 1.0 License Type: Permanent License State:
Active, In Use License Count: 18/18/0 (Active/In-use/Violation) License Priority: Medium Store
Index: 2                    Store Name: Primary License Storage Index: 5 Feature: US_License Version: 1
Type: Permanent License State: Inactive License Count: 16/0/0 (Active/In-use/Violation) License
Priority: Medium Store Index: 1 Store Name: Primary License Storage Index: 6 Feature: US_License
Version: 1.0 License Type: Evaluation License State: Inactive Evaluation total period: 8 weeks 4
days Evaluation period left: 8 weeks 4 days License Count: 60/0/0 (Active/In-use/Violation)
License Priority: None Store Index: 0 Store Name: Evaluation License Storage ubr10012-1#
```