



Advanced Services



CMTS License Management MOP

Version 4.0

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Document Control

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History

Revision History

Version	Issue Date	Author	Reason for Change
1.0	11/19/2013	Jay Wheeler	Initial version
2.0	5/21/2014	Jay Wheeler	Added RMA transfer section & WebEx training link
3.0	6/27/2014	Jay Wheeler	Portal update changes
4.0	7/11/2014	Jay Wheeler	New RMA update slides

Review

Revision Review

Version	Date	Reviewer's Name
1.0	11/20/2013	Kirby Cooper
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Introduction

This document is intended to provide the customer with a working procedure on how to transfer active licenses from 3Gx60/3GSpa and PRE5's cards. Also included, is the process to move licenses from one card to another due to an RMA.

What is a Token?

- a. A Token is a virtual PAK, which is given to the user when transferring licenses.
- b. When used on the web portal the token can be used to create permanent license files.
- c. The user is able to remove as many licenses as they choose from the token for their specific needs.
- d. Token's never expire

Basic requirements and restrictions

1. Have an active CCO login
2. Have access to the chassis in which the card(s) you are adjusting reside.

Understanding the Process

1. Gather the credentials of the active card that you wish to remove licenses from.
2. Ensure your line card is listed on the web portal.
3. Select the card on the web portal that you want to adjust licenses on and then choose the amount of licenses you want to modify.
4. Receive via two emails
 - a. Your new license file which you will apply to adjust your current licenses
 - b. Your reusable token to be able to assign the licenses you just removed to another device.
5. Apply the new license to your existing card
6. Use/save the Token as needed (see [page 15](#))

Gathering Device Credentials

1. Log into the desired CMTS
2. Display license information
 - a. show cable license all

```
uBR10k#show cable license all
Load for five secs: 10%/0%; one minute: 11%; five minutes: 11%
Time source is NTP, 08:47:45.036 EST Fri Mar 8 2013

Subslot 5/0 : License Configuration : 20X20
-----
License IPC Received : TRUE

Subslot 6/0 : License Configuration : 16X16
-----
Downstream Licenses : Installed : 16 Consumed : 0 Available : 16 Forced-Shut : 0
Upstream Licenses  : Installed : 16 Consumed : 0 Available : 16 Forced-Shut : 0
License IPC Received : TRUE

Subslot 7/0 : License Configuration : 16X16
-----
Downstream Licenses : Installed : 16 Consumed : 0 Available : 16 Forced-Shut : 0
Upstream Licenses  : Installed : 16 Consumed : 0 Available : 16 Forced-Shut : 0
License IPC Received : TRUE
```

- b. show license udi

```
uBR10k#show license udi
Load for five secs: 9%/0%; one minute: 11%; five minutes: 11%
Time source is NTP, 08:49:19.484 EST Fri Mar 8 2013
SlotID  PID          SN          UDI
-----
5/0     UBR-MC20X20V   CAT1517E09V UBR-MC20X20V:CAT1517E09V
6/0     UBR-MC3GX60V   CAT1546E0FY  UBR-MC3GX60V:CAT1546E0FY
7/0     UBR-MC3GX60V   CAT1546E026  UBR-MC3GX60V:CAT1546E026
8/1     UBR-MC20X20V   CAT1329E08P  UBR-MC20X20V:CAT1329E08P
```

3. Save the license credentials for the card you are adjusting to disk0
 - a. license save credential disk0:<name> subslot x/x

```
uBR10k#license save credential disk0:credential subslot 6/0
Device credential saved ..... to disk0:credential
uBR10k#
```

4. Viewing the credential out put
 - a. more disk0:credential
 - b. copy the xml output to a notepad for use on the portal

Adding a Line Card to your CCO account

As mentioned in the basic requirements your CCO login must be associated with any line card you wish to adjust. This section will explain how to add a line card to your CCO account if it does not appear on the web portal.

- Note you only need to perform these steps if the line card you are working on does not appear on the web portal.
 - If your line card **does** appear on the web portal please go to [page 8](#).
1. Proceed to the Product License Registration page at www.cisco.com/go/license
 2. Once on the portal select Devices under the Manage links.
 3. Locate and click the “Actions” drop down menu and then select “Add Device”.

Tools & Resources

Product License Registration

View in French Contact Us Feedback Help

Licenses for jaswheel My Profile Related Tools

What's New? System Messages Supported Browsers

Get New Licenses

Enter 1 to 10 PAKs or token IDs, separated by commas

Manage

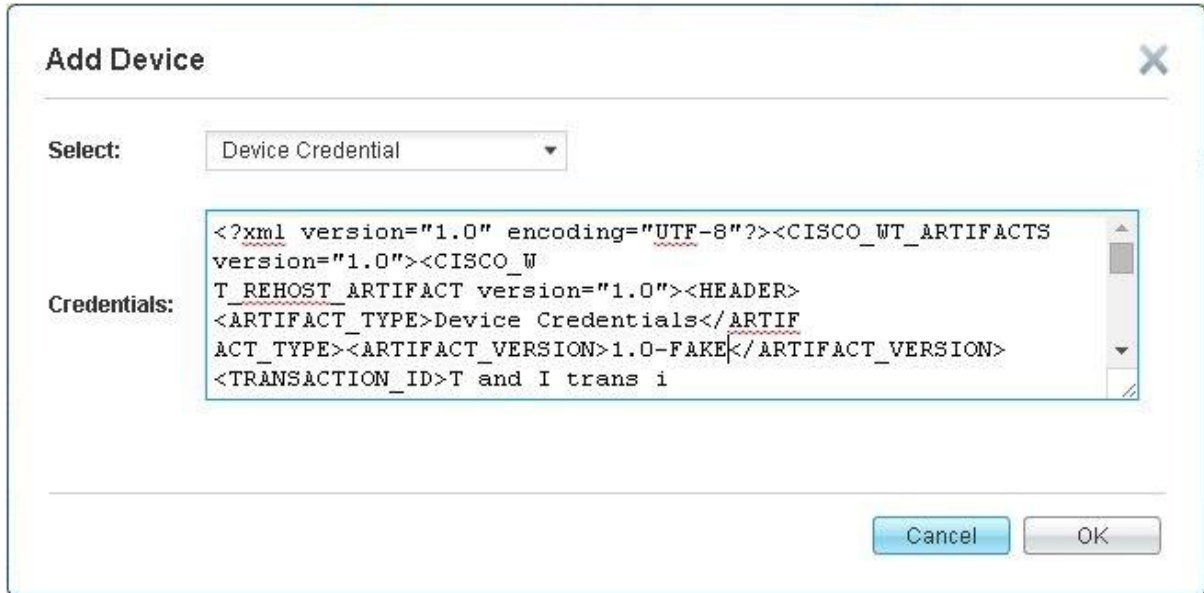
PAKs Licenses **Devices** Transactions History

Actions Filters

- Add Device...
- Download License
- Resend License...
- RMA...
- Rehost/Transfer...
- Complete Secure Rehost/Transfer...

	Product Family	Licensed Features	Used
E0ZP ,	UBR MC20x20/3G60	DS_License	60
E0DP ,	UBR MC20x20/3G60	DS_License	70
SD ,	UBR MC20x20/3G60	DS_License	20
		US_License	20
UBR-MC3GX60V , CAT1525E016 ,	UBR MC20x20/3G60	US_License	90

4. Select "Device Credential" from the drop down list
5. Paste in the credentials for the line card that you obtained using the process from page 6 and click OK.



6. You should now get a box showing the line card being added.



7. Once completed you will now see your line card list on the web portal table

Modifying your existing card

1. Proceed to the Product License Registration page at www.cisco.com/go/license
2. Once on the portal select Devices under the Manage links. Then search for the card that you want to modify in the table and select it.

Tools & Resources
Product License Registration

View in French Contact Us Feedback Help

Licenses for jaswheel My Profile Related Tools

What's New? System Messages Supported Browsers

Get New Licenses

Enter 1 to 10 PAKs or token IDs, separated by commas

Manage

PAKs Licenses **Devices** Transactions History

Actions Filters

<input type="checkbox"/>	Device/Product Instance ID	Product Family	Licensed Features	Used
<input type="checkbox"/>	SPA-UBR10-DS-HD , CAT1741E0ZP ,	UBR MC20x20/3G60	DS_License	60
<input type="checkbox"/>	SPA-UBR10-DS-HD , CAT1742E0DP ,	UBR MC20x20/3G60	DS_License	70
<input checked="" type="checkbox"/>	UBR-MC3GX60V , CAT1509E06D ,	UBR MC20x20/3G60	DS_License	20
			US_License	20
<input type="checkbox"/>	UBR-MC3GX60V , CAT1525E016 ,	UBR MC20x20/3G60	US_License	90
			DS_License	72
<input type="checkbox"/>	UBR-MC3GX60V , CAT1546E026 ,	UBR MC20x20/3G60	US_License	16
			DS_License	16
<input type="checkbox"/>	UBR-MC3GX60V , CAT1546E0FY ,	UBR MC20x20/3G60	US_License	31
			DS_License	-1

1 show 40 records

3. Next click the “Actions” drop down menu and then select “Rehost/Transfer”.

Manage

PAKs | Licenses | **Devices** | Transactions History

Actions ▾ | Filters ▾

	Product Family	Licensed Features	Used
E0ZP ,	UBR MC20x20/3G60	DS_License	60
E0DP ,	UBR MC20x20/3G60	DS_License	70
3D ,	UBR MC20x20/3G60	DS_License	20
		US_License	20
<input type="checkbox"/> UBR-MC3GX60V , CAT1525E016 ,	UBR MC20x20/3G60	US_License	90
		DS_License	72
<input type="checkbox"/> UBR-MC3GX60V , CAT1546E026 ,	UBR MC20x20/3G60	US_License	16
		DS_License	16
<input type="checkbox"/> UBR-MC3GX60V , CAT1546E0FY ,	UBR MC20x20/3G60	US_License	31
		DS_License	-1

1 show 10 records



4. Once you select “Rehost/Transfer” a box will appear asking you to select the card you want to modify. Once selected click Next

Rehost/Transfer ✕

Select Licenses | Target | Review

UDI Version ID:
 UDI Product ID : UBR-MC3GX60V
 UDI Serial Number : CAT1509E06D

Select Licenses

<input type="checkbox"/>	PAK	SKU	Expiry	QTY	Description
<input type="checkbox"/>	NA				
<input checked="" type="checkbox"/>		L-MC3GX60V-SWLIC=	Permanent	1	UBR MC20x20/3G60
		L-MC3GX60V-US	Permanent	20	UBR MC20x20/3G60
		L-MC3GX60V-DS	Permanent	20	UBR MC20x20/3G60

- You will now be asked to enter the Device Credentials you obtained on [page 5](#) and click ok

Enter Device Credentials ✕

Selected Transaction requires Device Credential as its subgroup is Enabled with Rehost-WithRevocation
Please Enter Device Credential in the below TextArea to Initiate Rehost [Click here for help](#)

```
<?xml version="1.0" encoding="UTF-8"?><CISCO_WT_ARTIFACTS
version="1.0"><CISCO_W
T_REHOST_ARTIFACT version="1.0"><HEADER>
<ARTIFACT_TYPE>Device Credentials</ARTIF
ACT_TYPE><ARTIFACT_VERSION>1.0-FAKE</ARTIFACT_VERSION>
<TRANSACTION_ID>T and I trans i
d</TRANSACTION_ID><UDI><PID>UBR-MC3GX60V</PID>
<SN>CAT1509E06D</SN></UDI><SOURCE>
Device</SOURCE><CREATE_DATE>2014-06-
```

Outstanding Permission Tickets
No Outstanding Permission Tickets available.

- Next you will need to choose how many license you want to assign from the current device to the token.

Rehost/Transfer ✕

Select Licenses | **Target** | Review

Target Device and SKU Details
Enter the SKU quantity.

	Product Family	Product	SKU	Quantity Available	Quantity to Assign
1	UBR MC20x20/3G60	1 Count US License for 3Gx60V			
1.1			L-MC3GX60V-US	20	<input type="text" value="20"/>
1.2			L-MC3GX60V-DS	20	<input type="text" value="20"/>

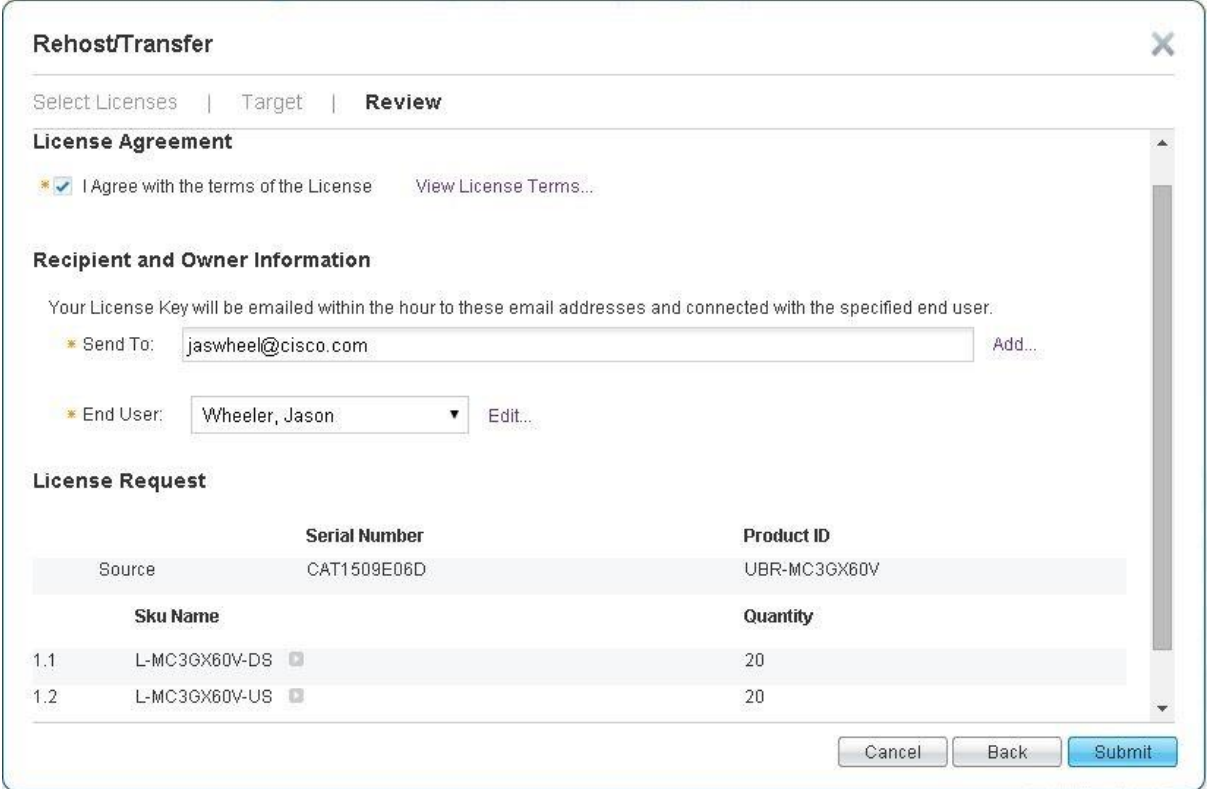
Specify target details

Transfer to Device Transfer to New Token

UDI Product ID:*

UDI Serial Number:*

7. Make sure you select **“Transfer to New Token”**
 - a. When using the Token feature you **DO NOT** fill in:
 - i. **UDI Product ID:**
 - ii. **UDI Serial Number**
8. Click Next
9. Now you must review your changes and agree with the terms before committing to them.



RehostTransfer

Select Licenses | Target | **Review**

License Agreement

I Agree with the terms of the License [View License Terms...](#)

Recipient and Owner Information

Your License Key will be emailed within the hour to these email addresses and connected with the specified end user.

* Send To: [Add...](#)

* End User: [Edit...](#)

License Request

Source	Serial Number	Product ID
	CAT1509E06D	UBR-MC3GX60V
Skus	Skus	Quantity
1.1	L-MC3GX60V-DS	20
1.2	L-MC3GX60V-US	20

10. The “Send To” field should be populated with your email address
11. The End User field should show your name
12. Click Submit and within minutes you will receive two separate emails.
 - a. The first email will contain your new license file that you will apply to modify your existing licenses
 - b. The second email will contain a Token code that you can use to reclaim the licenses you just pulled off. See [page 15](#).
13. Next transfer your new license file to your local TFTP server so you can upload it to the CMTS.

Adjusting your active licenses

1. Next you must adjust your active licenses on your card
2. First copy the new license file from your TFTP server to disk0: on your CMTS
 - a. copy tftp:<license_file> disk0:
3. Run “show license all subslot x/y” to get a full license status of the card you are adjusting.
 - a. **There should be at least two sections on this license screen.**
 - i. Section at the top – Primary License Storage
 - ii. Section at the bottom – Evaluation License Storage
 - b. Note that the current licenses show Active, In Use

```
uBR10k#show license all subslot 7/0
Load for five secs: 1%/0%; one minute: 1%; five minutes: 1%
Time source is NTP, 09:32:21.282 DST Fri Mar 22 2013
License Store: Primary License Storage
StoreIndex: 0 Feature: DS_License Version: 1.0
License Type: Permanent
License State: Active, In Use
License Count: 16/16/0 (Active/In-use/Violation)
License Priority: Medium
StoreIndex: 1 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
License Store: Evaluation License Storage
StoreIndex: 0 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
StoreIndex: 1 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
uBR10k#
```

4. Now in order to install your new license file you must first remove the old licenses. To do this we temporarily activate the evaluation licenses by doing the following commands:

a. **3g60 Line cards**

- i. configure terminal
- ii. license feature evaluation enable all subslot x/y
- iii. You will have to enter “yes” to agree to change both the downstreams and upstreams to the evaluation licenses

```
uBR10k(config)#license feature evaluation enable all subslot 6/0
  Feature: DS_License  Version: 1.0
Index: 1      License Type: Evaluation
  Lock Type: Not Locked
  License Count: 72
  License Priority: Low

Are you sure you want to modify priority? (yes/[no]): yes
  Feature: US_License  Version: 1.0
Index: 1      License Type: Evaluation
  Lock Type: Not Locked
  License Count: 60
  License Priority: Low

Are you sure you want to modify priority? (yes/[no]): yes
uBR10k(config)#
```

b. **3GSpa cards**

- i. From enable access
- ii. license modify priority DS_License high subslot x/y
- iii. You will have to enter “yes” to agree to modify the priority

```
F241-38-06-uBR10K-01#license modify priority DS_License high subslot 3/3
  Feature: DS_License  Version: 1.0
Index: 1      License Type: Evaluation
  Lock Type: Locked
  License Count: 72
  License Priority: Low

Are you sure you want to modify priority? (yes/[no]): yes
Please do NOT remove/reload the SPA/PRE until the CLI returns!!!
```

5. Next from enable mode you must clear the original licenses.

- a. license clear <feature name> subslot x/y

examples:

- a. license clear DS_License subslot x/y
- b. license clear US_License subslot x/y
- c. You will have to enter “yes” to agree to the clearing

```
uBR10k#license clear DS_License subslot 6/0
Feature: DS_License
  1 License Type: Permanent
    License State: Inactive
    License Addition: Exclusive
    License Count: 16
    Comment:
    Store Index: 0
    Store Name: Primary License Storage

Are you sure you want to clear? (yes/[no]): yes

uBR10k#license clear US_License subslot 6/0
Feature: US_License
  1 License Type: Permanent
    License State: Inactive
    License Addition: Exclusive
    License Count: 16
    Comment:
    Store Index: 2
    Store Name: Primary License Storage

Are you sure you want to clear? (yes/[no]): yes
```

6. Now you need to install the new license file that you uploaded to disk0:

- a. license install disk0:<license_file>

```
uBR10k#license install disk0:CAT1546E026_201311190930119640.lic
Installing licenses from "disk0:CAT1546E026_201311190930119640.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
```

7. Once the new license is installed you must deactivate the evaluation licenses

a. **3g60 Line cards**

- i. configure terminal.
- ii. license feature evaluation disable all subslot x/y
- iii. You will have to enter “yes” to agree to modify the priority

```
uBR10k(config)#license feature evaluation disable all subslot 6/0
  Feature: DS_License   Version: 1.0
Index: 1      License Type: Evaluation
  Lock Type: Not Locked
  License Count: 72
  License Priority: High

Are you sure you want to modify priority? (yes/[no]): yes

After the license priority is adjusted,
the license usage count may decrease.

Do you want to proceed? (yes/[no]): yes
  Feature: US_License   Version: 1.0
Index: 1      License Type: Evaluation
  Lock Type: Not Locked
  License Count: 60
  License Priority: High

Are you sure you want to modify priority? (yes/[no]): yes

After the license priority is adjusted,
the license usage count may decrease.

Do you want to proceed? (yes/[no]): yes
```

b. **3GSpa cards**

- i. From enable access
- ii. license modify priority DS_License low subslot x/y
- iii. You will have to enter “yes” to agree to modify the priority

```
F241-38-06-uBR10K-01#license modify priority DS_License low subslot 3/3
  Feature: DS_License   Version: 1.0
Index: 1      License Type: Evaluation
  Lock Type: Locked
  License Count: 72
  License Priority: High

Are you sure you want to modify priority? (yes/[no]): yes

After the license priority is adjusted,
the license usage count may decrease.

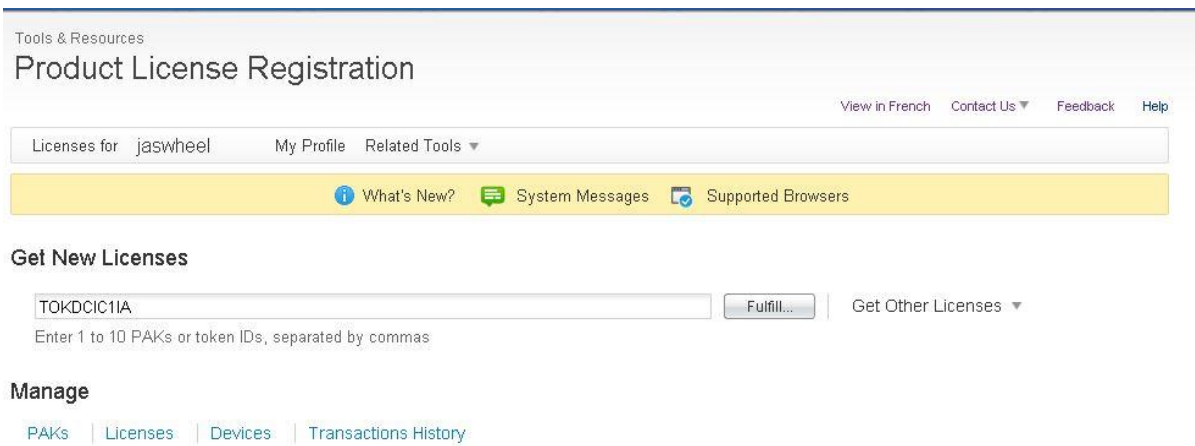
Do you want to proceed? (yes/[no]): yes
Please do NOT remove/reload the SPA/PRE until the CLI returns!!!
```

8. Now you can see your permanent licenses are adjusted and the evaluation licenses are inactive.
 - a. show license detail subplot x/y

```
uBR10k#show license detail subplot 6/0
Load for five secs: 2%/0%; one minute: 2%; five minutes: 2%
Time source is NTP, 12:41:23.061 EST Tue Nov 19 2013
Index: 1      Feature: DS License                      Version: 1.0
  License Type: Permanent
  License State: Active, In Use
  License Count: 6/6/0 (Active/In-use/Violation)
  License Priority: Medium
  Store Index: 1
  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 3 days
  License Count: 72/0/0 (Active/In-use/Violation)
  License Priority: Low
  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: 6/6/0 (Active/In-use/Violation)
  License Priority: Medium
  Store Index: 0
  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 3 days
  License Count: 60/0/0 (Active/In-use/Violation)
  License Priority: Low
  Store Index: 0
  Store Name: Evaluation License Storage
```


Using the Token

1. Proceed to the Product License Registration page at www.cisco.com/go/license
2. In the middle of the page locate “Get New Licenses” and copy your token key into the space provided and click Fulfill



Tools & Resources
Product License Registration

Licenses for jaswheel My Profile Related Tools

What's New? System Messages Supported Browsers

Get New Licenses

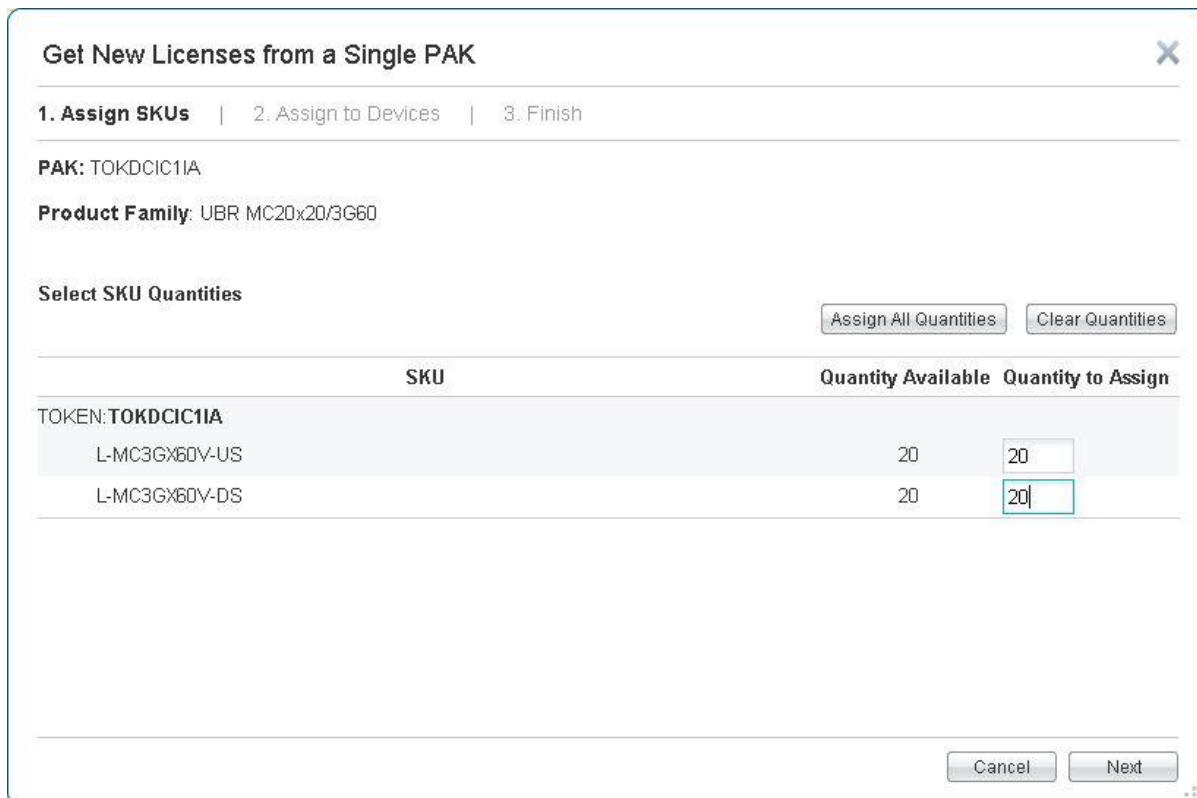
TOKDCIC11A Fulfill... Get Other Licenses

Enter 1 to 10 PAKs or token IDs, separated by commas

Manage

PAKs Licenses Devices Transactions History

3. Now you need to select how many licenses you want to pull from that token and transfer to you intended device. Once you have done this click Next.



Get New Licenses from a Single PAK

1. Assign SKUs | 2. Assign to Devices | 3. Finish

PAK: TOKDCIC11A

Product Family: UBR MC20x20/3G60

Select SKU Quantities

Assign All Quantities Clear Quantities

SKU	Quantity Available	Quantity to Assign
TOKEN: TOKDCIC11A		
L-MC3Gx60V-US	20	20
L-MC3Gx60V-DS	20	20

Cancel Next

4. Next you must enter the UDI Product ID and Serial Number of your device that you plan to load the licenses too.

UDI Product ID Examples:

- a. 3G60 Line card = UBR-MC3GX60V
- b. 3GSpa = SPA-UBR10-DS-HD
- c. 20x20 Line card = UBR-MC20X20V

UDI Product Serial Number Example:

- a. CAT1441EJAY

Get New Licenses from a Single PAK

1. Assign SKUs | **2. Assign to Devices** | 3. Finish

PAK: TOKDCIC1IA

Assign to a Target Device

* UDI Product Id UBR-MC3GX60V

* UDI Serial Number CAT1441EJAY

Cancel Previous Next

5. Finally you must review and Agree to the terms of the License.
 - a. Make sure you have your desired email address filled in
 - b. End User should be your name
 - c. You must agree to the terms of the License
 - d. Click the “Submit” button

Get New Licenses from a Single PAK ✕

1. Assign SKUs | 2. Assign to Devices | **3. Finish**

License Agreement

I Agree with the terms of the License [View License Terms...](#)

Recipient and Owner Information

Your License Key will be emailed within the hour to the email address specified below.

Send To: [Add...](#)

End User: [Edit...](#)

License Request

PAK	SKU Name	Qty
TOKDCIC1IA	L-MC3GX60V-US	20
	L-MC3GX60V-DS	20

6. Next you will receive via email a new license file that will need to be loaded to your TFTP server.
7. Log into the CMTS and copy the license file from the TFTP server to disk0:
 - a. copy tftp:<license_file> disk0:
8. Now you need to install the new license file that you uploaded to disk0:
 - b. license install disk0:<license_file>

```

uBR10k#license install disk0:CAT1546E026_201311190930119640.lic
Installing licenses from "disk0:CAT1546E026_201311190930119640.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
  
```

9. Once installed the new file will automatically over write the existing and you should end up with the desired amount of licenses on that device.

How to Activate Evaluation Licenses on a PRE5

With the launching of the new PRE5's there may come a time you have to adjust the 10G WAN licenses. The following steps will show you how to activate the Evaluation licenses which may be needed to adjust the permanent licenses.

1. Check to see that Evaluation Licenses are present on the PRE5
 - a. show license all

```
F241-38-06-uBR10K-01#show license all
License Store: Primary License Storage
StoreIndex: 0   Feature: WAN_License           Version: 1.0
License Type: Permanent
License State: Active, In Use
Lock type: Node locked
Vendor info: <PID>UBR10-PRE5</PID><SN>CAT1741E1WY</SN>
License Addition: Exclusive
License Generation version: 0x8100000
License Count: 2/2/0 (Active/In-use/Violation)
License Priority: Medium

License Store: Evaluation License Storage
StoreIndex: 0   Feature: WAN License           Version: 1.0
License Type: Evaluation
License State: Inactive
Evaluation total period: 8 weeks 4 days
Evaluation period left: 8 weeks 3 days
Lock type: Non Node locked
Vendor info:
License Addition: Additive
License Generation version: 0x8100000
License Count: 4/0/0 (Active/In-use/Violation)
License Priority: Low
```

2. To activate the Evaluation Licenses run the following:
 - a. license modify priority WAN_License high
 - b. type "yes" if you are sure

```
F241-38-06-uBR10K-01#license modify priority WAN_License high
Feature: WAN_License   Version: 1.0
Index: 1               License Type: Evaluation
Lock Type: Not Locked
License Count: 4
License Priority: Low

Are you sure you want to modify priority? (yes/[no]): yes
Please do NOT remove/reload the SPA/PRE until the CLI returns!!!
```

3. Verify that your change was successful as the Evaluations should now show active
 - a. show license all

```
F241-38-06-uBR10K-01#show license all
License Store: Primary License Storage
StoreIndex: 0   Feature: WAN_License           Version: 1.0
License Type: Permanent
License State: Inactive
Lock type: Node locked
Vendor info: <PID>UBR10-PRE5</PID><SN>CAT1741E1WY</SN>
License Addition: Exclusive
License Generation version: 0x8100000
License Count: 2/0/0 (Active/In-use/Violation)
License Priority: Medium

License Store: Evaluation License Storage
StoreIndex: 0   Feature: WAN_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: Aug 26 2014 11:07:41
Lock type: Non Node locked
Vendor info:
License Addition: Additive
License Generation version: 0x8100000
License Count: 4/4/0 (Active/In-use/Violation)
License Priority: High
```

4. To restore your permanent license back to active perform the following command:
 - a. license modify priority WAN_License low
 - b. type “yes” if you are sure

```
F241-38-06-uBR10K-01#license modify priority WAN_License low
Feature: WAN_License Version: 1.0
Index: 1 License Type: Evaluation
Lock Type: Not Locked
License Count: 4
License Priority: High

Are you sure you want to modify priority? (yes/[no]): yes

After the license priority is adjusted,
the license usage count may decrease.

Do you want to proceed? (yes/[no]): yes
Please do NOT remove/reload the SPA/PRE until the CLI returns!!!
```

Adding Evaluation Licenses to a 3GSpa

Evaluation licenses are temporarily needed when you want to lower the amount active licenses on your 3GSpa. This process shows you how check for evaluation licenses and if needed how to add them should your card(s) not have any.

1. Check what subslots you have 3GSpa's located in.
 - a. show license udi

```
F241-38-06-uBR10K-01#show license udi
SlotID  PID          SN          UDI
-----
*0/0    UBR10-PRE5    CAT1741E1WY  UBR10-PRE5:CAT1741E1WY
3/0     SPA-UBR10-DS-HD CAT1742E0JM  SPA-UBR10-DS-HD:CAT1742E0JM
3/1     SPA-UBR10-DS-HD CAT1741E0TS  SPA-UBR10-DS-HD:CAT1741E0TS
3/2     SPA-UBR10-DS-HD CAT1741E0UW  SPA-UBR10-DS-HD:CAT1741E0UW
3/3     SPA-UBR10-DS-HD CAT1741E0VA  SPA-UBR10-DS-HD:CAT1741E0VA
6/1     UBR-MC3GX60V  CAT1509E06D  UBR-MC3GX60V:CAT1509E06D
8/0     UBR-MC20X20V  CAT1329E08Z  UBR-MC20X20V:CAT1329E08Z
```

2. Check to see if you have evaluation licenses on that SPA card.
 - a. show license detail subslot x/y

```
F241-38-06-uBR10K-01#show license detail subslot 3/0
Index: 1      Feature: DS License      Version: 1.0
License Type: Permanent
License State: Active, In Use
Lock type: Node locked
Vendor info: <PID>SPA-UBR10-DS-HD</PID><<SN>CAT1742E0JM</SN>
License Addition: Exclusive
License Generation version: 0x8100000
License Count: 70/70/0 (Active/In-use/Violation)
License Priority: Medium
Store Index: 0
Store Name: SPA 3/0 Primary License Storage
```

3. If you have evaluation licenses on the card proceed to the beginning of the MOP and run the full process starting on [page 5](#), if not continue on to step 4 to download and install evaluation licenses.

- Navigate to the Product License Registration page at www.cisco.com/go/license and click the “Get Other Licenses” on the top right side of the page.

Tools & Resources
Product License Registration

View in French Contact Us Feedback Help

Licenses for jaswheel My Profile Related Tools

What's New? System Messages Supported Browsers

Get New Licenses

Enter 1 to 10 PAKs or token IDs, separated by commas

Manage

PAKs Licenses **Devices** Transactions History

Actions Filters

Device/Product Instance ID	Product Family	Licensed Feat
<input checked="" type="checkbox"/> SPA-UBR10-DS-HD , CAT1741E0VA ,	UBR MC20x20/3G60	DS_License
<input type="checkbox"/> SPA-UBR10-DS-HD , CAT1741E0ZP ,	UBR MC20x20/3G60	DS_License 60

- Now you must select the Product Family and Product of the card you want licenses for. Because a 3GSpa uses the same downstream licenses as a 3Gx60 card we will select that as our product as you can see below. Then click Next.

Get Demo and Evaluation Licenses

1. Select Product | 2. Specify Target Device and Options | 3. Review and Submit

Search by Keyword

Make a selection from this list of products.

Product Family

- Cable Broadband Troubleshooter
- Network Mgmt Products
- Security Products
- Unified Communications Products
- Routers & Switches**
- Wireless
- Energy Management

Product

- Cisco Nexus 5600 Series
- Cisco Nexus 6000 Series
- ASR901 Series Router- Demo
- Catalyst 3560EX and 3750EX Evaluation
- 800 Fixed Demo
- Catalyst 4500E & Catalyst 4500-X Evaluation
- UBR MC20x20/3G60 Evaluation**
- Cisco Cloud Services Router 1000V
- Cisco Modeling Labs
- Gatekeeper and AMR Demo
- Cisco Nexus 7700 Series
- Download SAN_EXTN_OVER_IP
- PNCv1.2 DEMO
- Cisco 5921 Embedded Services Router
- ASR 1000 Evaluation
- Cisco Virtual Desktop Switching Demo
- Cisco ME 3600X & 3800X Series Ethernet Access Switches
- ASR903-Demo
- Cisco Modeling Labs TnC Subscription
- RF Gateway 10

Cancel Next

6. Now we must select which license feature we want and then assign it to a specific card. For a 3GSpa card please select UBR-MC3GX60V and then fill in the Product ID (SPA-UBR10-DS-HD) and the Serial Number.

Get Demo and Evaluation Licenses ✕

1. Select Product | **2. Specify Target Device and Options** | 3. Review and Submit

UBR MC20x20/3G60 Evaluation
Please enter the **Chassis** UDI (Product ID and Serial number) information below. [Read More...](#)

★ Please select the feature license below:

UBR-MC20X20V (20 DS & 20 US)

UBR-MC3GX60V (72 DS & 60 US)

★ UDI Product ID : ✕

★ UDI Serial Number :

7. Next you will have to review your request and agree with the license terms on the top then click Submit.

Get Demo and Evaluation Licenses ✕

1. Select Product | 2. Specify Target Device and Options | **3. Review and Submit**

License Agreement

I Agree with the terms of the License [View License Terms...](#)

Recipient and Owner Information

Your License Key will be emailed within the hour to the email address specified below.

* Send To: [Add...](#)

* End User: [Edit...](#)

License Request

Product Id	Serial Number
UBR-MC3GX60V	CAT1741E0VA

SKU Name	Qty
UBR-MC3GX60V_eval	1

8. Next you will receive via email a new license file that will need to be loaded to your TFTP server.
9. Log into the CMTS and copy the license file from the TFTP server to disk0:
 - c. copy tftp:<license_file> disk0:

10. Now you need to install the new evaluation license file that you uploaded to disk0:
You will have to accept the install by typing ‘yes’. The US_Licenses will fail to install, this is expected and will be removed in the next step.

a. license install disk0:<license_file>

```
F241-38-06-uBR10K-01#license install disk0:CAT1741E0VA_201406271032438060.lic
Installing licenses from "disk0:CAT1741E0VA_201406271032438060.lic"

Expiring licenses are being installed in the device with
UDI "SPA-UBR10-DS-HD:CAT1741E0VA" for the following features:

    Feature Name: DS_License
    Feature Name: US_License

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
Installing...Feature:DS_License...Successful:Supported
Installing...Feature:US_License...Successful:Not Supported

Please do NOT remove/reload the SPA/PRE until the CLI returns!!!
2/2 licenses were successfully installed
0/2 licenses were existing licenses
0/2 licenses were failed to install
```

11. To remove the unsupported Upstreams enter the following and type “yes”

a. license clear US_License subslot x/y

```
F241-38-06-uBR10K-01#license clear US_License subslot 3/3
Feature: US_License
  1 License Type: Evaluation
    License State: Active, Not in Use, EULA accepted
      Evaluation total period: 8 weeks 4 days
      Evaluation period left: 8 weeks 4 days
    License Addition: Additive
    License Count: 60
    Comment:
    Store Index: 2
    Store Name: SPA 3/3 Primary License Storage

Are you sure you want to clear? (yes/[no]): yes
```

12. Now check to see that you have evaluation licenses installed on your 3GSpa.

a. show license details subplot x/y

```
F241-38-06-uBR10K-01#show license detail subplot 3/3
Index: 1          Feature: DS_License                      Version: 1.0
License Type: Permanent
License State: Active, In Use
Lock type: Node locked
Vendor info: <PID>SPA-UBR10-DS-HD</PID><SN>CAT1741E0VA</SN>
License Addition: Exclusive
License Generation version: 0x8100000
License Count: 70/70/0 (Active/In-use/Violation)
License Priority: Medium
Store Index: 0
Store Name: SPA 3/3 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
Lock type: Node locked
Vendor info: <UDI><PID>SPA-UBR10-DS-HD</PID><SN>CAT1741E0VA</SN></UDI>
License Addition: Additive
License Generation version: 0x8100000
License Count: 72/0/0 (Active/In-use/Violation)
License Priority: Low
Store Index: 1
Store Name: SPA 3/3 Primary License Storage
```

13. Now that you have evaluation licenses on the card proceed to the beginning of the MOP and run the full process starting on [page 5](#).

RMA Transfer Process

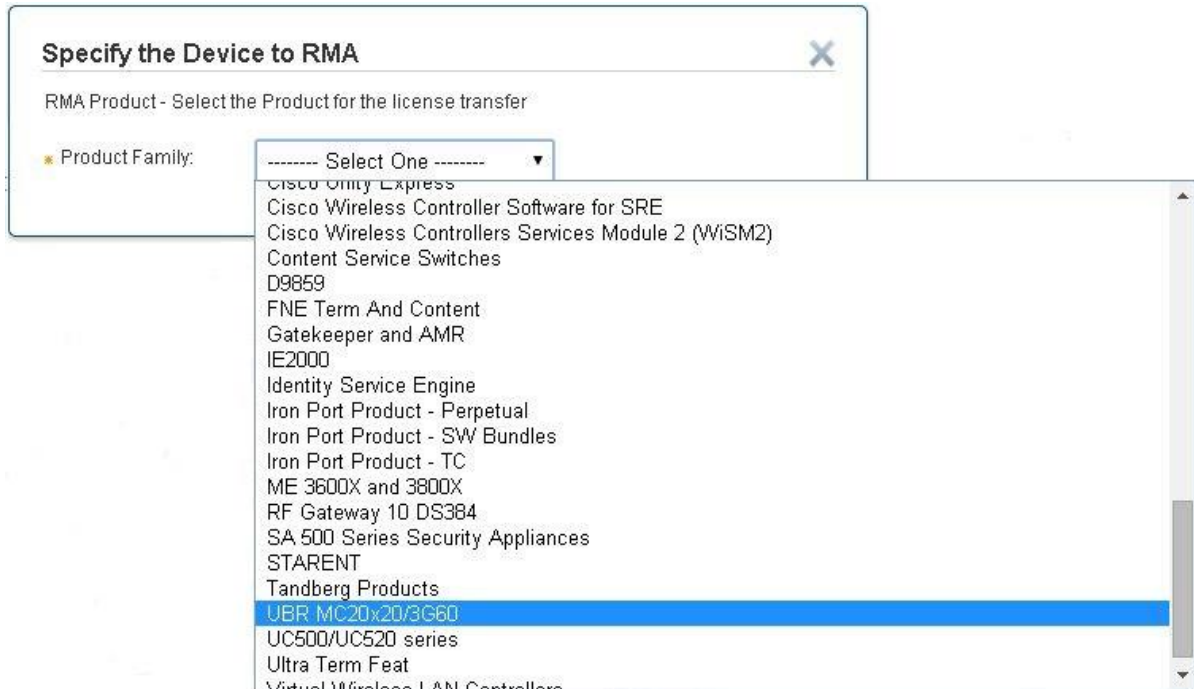
When you have to replace either a PRE5/3G60/3GSpa you will need to transfer the licenses from the failed card to the new replacement. The following steps will show you how to complete this.

1. Gather the Serial numbers of both the failed card and the new replacement card
2. Proceed to the Product License Registration page at www.cisco.com/go/license
3. You will also need the UDI Product ID:
 - a. PRE5 = **UBR10-PRE5**
 - b. 3G60 card = **UBR-MC3GX60V**
 - c. 3GSpa card = **SPA-UBR10-DS-HD**
4. Once on the portal select Devices under the Manage links. Click on the Actions drop down arrow and select RMA

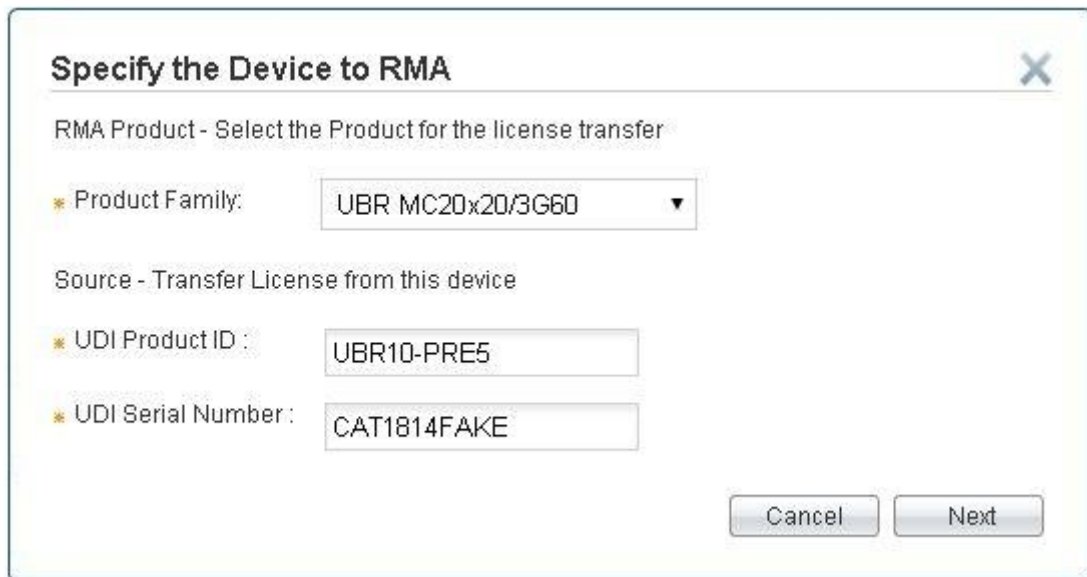
The screenshot shows the Cisco License Management Portal interface. At the top, there is a navigation bar with "Licenses for jaswheel", "My Profile", and "Related Tools". Below this is a yellow banner with "What's New?", "System Messages", and "Supported Browsers". The main content area is titled "Get New Licenses" and includes a search box and a "Fulfill..." button. Below this is a "Manage" section with tabs for "PAKs", "Licenses", "Devices", and "Transactions History". The "Devices" tab is active, and an "Actions" dropdown menu is open, showing options like "Add Device...", "Download License", "Resend License...", "RMA...", "Rehost/Transfer...", and "Complete Secure Rehost/Transfer...". A red arrow points to the "RMA..." option. The background shows a table of devices with columns for "Product Family", "Licensed Features", and "Used".

Product Family	Licensed Features	Used
S-HD	US_License	60
S-HD	DS_License	72
OV	US_License	60
OV	DS_License	72
CAT1742F0LIM SPA-UBR10-DS-HD	US License	60

5. Now you must Specify the Device you are RMA'ing. For all CMTS products select: **UBR MC20x20/3G60**



6. Next you must provide the UDI Product ID and Serial number for the failed card.




7. Now you must provide the Product ID and Serial number for the new card along with the RMA number you were given by TAC.

RMA

Specify Target & Options. | [Review](#)

From	To
UDI Version ID:	* UDI Product ID : UBR10-PRE5
UDI Product ID : UBR10-PRE5	* UDI Serial Number : CAT1819FAKE
UDI Serial Number : CAT1814E16W	Product Family: UBR MC20x20/3G60/PR...
Product Family: UBR MC20x20/3G60/PR...	RMA # : 0123456789



8. Next you must make sure check the “I Agree” box at the top for the terms of the license and ensure your email address and user ID are correct. The click Transfer.

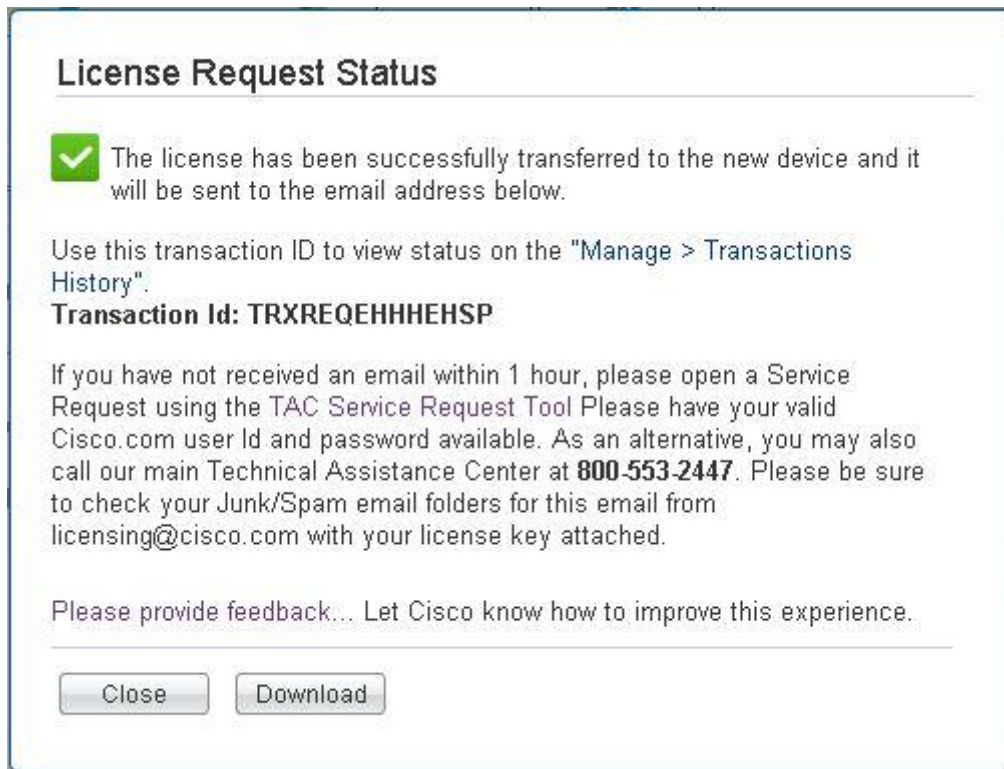
The screenshot shows a window titled "RMA" with a close button in the top right corner. Below the title bar, there are two tabs: "Specify Target & Options" and "Review", with "Review" being the active tab. The main content area is divided into sections:

- License Agreement:** Contains a checked checkbox labeled "I Agree with the terms of the License" and a link "View License Terms...". A red arrow points to the checkbox.
- Recipient and Owner Information:** Includes a note: "The license will be emailed within the hour to the specified email addresses." Below this are two fields:
 - "Send To:" with a text input containing "jaswheel@cisco.com" and an "Add..." button.
 - "End User:" with a dropdown menu showing "Wheeler, Jason" and an "Edit..." button.
- Table:** A table with four columns: "Product Family:", "Product Name", "Description", and "Quantity".

Product Family:	Product Name	Description	Quantity
1	UBR MC20x20/3G60/PRE5/3GSPA		
1.1	SWLIC-PRE5-10G	1 10G license, must configure with PRE5 only	2

At the bottom right of the window, there are three buttons: "Cancel", "Back", and "Transfer". A red arrow points to the "Transfer" button.

9. Now you should receive your new license file via email that can be installed on your new device. You will also get the following screen that will allow you to close the process or download the file.



10. Once you receive the license file you must place it on your local TFTP server so you can upload it to the CMTS.
11. Log into the CMTS and copy the license file from the TFTP server to disk0:
 - a. `copy tftp:<license_file> disk0:`
12. Now you need to install the new license file that you uploaded to disk0:
 - a. `license install disk0:<license_file>`

```
uBR10k#license install disk0:CAT1546E026_201311190930119640.lic
Installing licenses from "disk0:CAT1546E026_201311190930119640.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
```

14. Once installed your new card should have the same amount of licenses that were on the original card.

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<July 11, 2014>

License Management MOP

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