

# Right To Use Licensing

The Cisco Software License Activation feature is a set of processes and components to activate Cisco IOS software feature sets by obtaining and validating fee-based Cisco software licenses.

For information on software license activation and concepts, see the Cisco IOS Software Activation Conceptual Overview.

For information on obtaining and installing licenses, see Configuring the Cisco IOS Software Activation Feature.

### Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release.

Use Cisco Feature Navigator to find information about platform support and Cisco IOS, Catalyst OS, and Cisco IOS XE software image support. To access Cisco Feature Navigator, go to http://www.cisco.com/go/cfn. An account on Cisco.com is not required.


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# Restrictions for using RTU Licenses

- 1588 feature license is *not* supported with RTU.
- OC-3 and OC-12 port licenses are *not* supported with RTU. We recommend that you go with Pay As You Grow model and purchase the license to use the feature.

# Information About Licensing the Cisco ASR 900 Series Routers

For information on software activation and license procedures, see Software Activation Configuration Guide, Cisco IOS XE Release 3S (Cisco ASR 903).

# Right to Use License Support for Cisco ASR 900 Series Routers

The RTU license starts as an evaluation license with a 60-day trial period and changes into a perpetual “Right-To-Use” license after the expiry of the trial period.

The RTU license is shipped with the IOS software image, as a built-in evaluation license (60 days). Once the trial usage period expires and license automatically is converted, you are required to accept the EULA (End User License Agreement) while activating the license. You can verify the license change by executing the **show license** command.

Syslog messages are generated on the 50th, 55th and 60th day of usage as a warning at the end of the evaluation period and conversion to an RTU license

**Note** Permanent licenses have precedence over RTU licenses and node-locked licenses have precedence over RTU licenses.

In a HA setup, to move licenses to the Standby RSP from the active, enable the **standby console enable** command.

```
Router(config)# configure terminal
Router(config)# redundancy
Router(config-red)# main-cpu
Router(config-r-mc)# standby console enable
Router(config-r-mc)# end
```

## Advantages of RTU Licenses

- Offers simplified licensing approach.
- Licenses are converted to permanent licenses after the trial period.

## Right To Use Licenses for Cisco ASR 900 Series

| License Type | RTU |
|---|---|
| **Base License** | |
| Metro Services | Yes |
| Metro IP Services | Yes |
| Metro Aggregation Services | Yes |
| **Feature Licenses** | |
| ATM | Yes |
| 1588 | No |
| OC-3 and OC-12 Port License | No |

## Migration of Existing Licenses to RTU Licenses

When you upgrade to RTU licenses, EULA acceptance prompts for fresh license activation. After the trial period, the license is converted to a permanent license.

| License Type | Migration to RTU License |
|---|---|
| Permanent license is installed | NA |
| Built-in evaluation license | New image boots with default license. |
| Temporary license generated by SWIFT | No issues during migration. After license expiry period (temporary license and RTU trial period), license is converted to permanent. |

# Configuring the Right to Use License

### Procedure

| | Command or Action | Purpose |
|---|---|---|
| **Step 1** | **enable**<br>**Example:**<br>`Router> enable` | Enables privileged EXEC mode.<br>• Enter your password if prompted. |
| **Step 2** | **configure terminal**<br>**Example:**<br>`Router# configure terminal` | Enters global configuration mode. |
| **Step 3** | **license right-to-use move** {**metroaggrservices** \| **metroipservices** \| **metroservices**}<br>**Example:**<br>`Router# license right-to-use move metroipservices` | Installs the RTU license. Accept the end-user license agreement if prompted. |
| **Step 4** | **end**<br>**Example:**<br>`Router# end` | Returns to privileged EXEC mode. |

### Configuration Example

```
Router# license right-to-use move metroipservices

% End User License Agreement is not accepted
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.

Use of this product feature requires  an additional license from Cisco,
```

```
together with an additional  payment.  You may use this product feature
on an evaluation basis, without payment to Cisco, for 60 days. Your use
of the  product,  including  during the 60 day  evaluation  period,  is
subject to the Cisco end user license agreement
http://www.cisco.com/en/US/docs/general/warranty/English/EU1KEN_.html
If you use the product feature beyond the 60 day evaluation period, you
must submit the appropriate payment to Cisco for the license. After the
60 day  evaluation  period,  your  use of the  product  feature will be
governed  solely by the Cisco  end user license agreement (link above),
together  with any supplements  relating to such product  feature.  The
above  applies  even if the evaluation  license  is  not  automatically
terminated  and you do  not receive any notice of the expiration of the
evaluation  period.  It is your  responsibility  to  determine when the
evaluation  period is complete and you are required to make  payment to
Cisco for your use of the product feature beyond the evaluation period.

Your  acceptance  of  this agreement  for the software  features on one
product  shall be deemed  your  acceptance  with  respect  to all  such
software  on all Cisco  products  you purchase  which includes the same
software.  (The foregoing  notwithstanding, you must purchase a license
for each software.
```

# Activating the Right to Use License

**Procedure**

| | Command or Action | Purpose |
|---|---|---|
| **Step 1** | **enable**<br>**Example:**<br>`Router> enable` | Enables privileged EXEC mode.<br>• Enter your password if prompted. |
| **Step 2** | **configure terminal**<br>**Example:**<br>`Router# configure terminal` | Enters global configuration mode. |
| **Step 3** | **license boot level** {**metroaggrservices** \| **metroipservices** \| **metroservices**}<br>**Example:**<br>`Router# license boot level move metroipservices` | Enables the RTU license. |
| **Step 4** | **end**<br>**Example:**<br>`Router# end` | Returns to privileged EXEC mode. |

# Verifying the RTU Licenses

- **show license right-to-use**

Use the **show license right-to-use** command to view the RTU licenses.

```
Router# show license right-to-use
Index 1 Feature: metroaggrservices
        Period left: Life time
        License Type: RightToUse
        License State: Active, In Use
        License Count: Non-Counted
        License Priority: Low
Index 2 Feature: metroipservices
        Period left: Life time
        License Type: RightToUse
        License State: Active, Not in Use, EULA accepted
        License Count: Non-Counted
        License Priority: Low
Index 3 Feature: metroservices
        Period left: Life time
        License Type: RightToUse
        License State: Active, Not in Use, EULA accepted
        License Count: Non-Counted
        License Priority: Low
Index 4 Feature: atm
        Period left: Life time
        License Type: RightToUse
        License State: Active, Not in Use, EULA accepted
        License Count: Non-Counted
        License Priority: Lowe
```

- **show license detail metroaggrservices**

  Use the **show license detail metroaggrservices** command for a detailed view of the licenses.

```
Router# show license detail metroaggrservice
Index: 1        Feature: metroaggrservices                Version: 1.0
        License Type: RightToUse
        License State: Active, In Use
        Lock type: Non Node locked
        Vendor info: <UDI><PID>NOTLOCKED</PID><SN>NOTLOCKED</SN></UDI><T>RTU</T>
        License Addition: Additive
        License Generation version: 0x8200000
        License Count: Non-Counted
        License Priority: Low
        Store Index: 0
        Store Name: Built-In License Storage
```

- **show license detail standby**

  Use the **show license detail standby** command to view the licenses on the Standby RSP.

**Note** If the license accept end user agreement exists, then the EULA agreement is *not* displayed.

```
Router# show license detail standby
Index: 1        Feature: atm                              Version: 1.0
        License Type: EvalRightToUse
        License State: Active, Not in Use, EULA not accepted
            Evaluation total period: 8  weeks 4  days
            Evaluation period left: 8  weeks 4  days
            Period used: 0  minute  0  second
        Lock type: Non Node locked
        Vendor info: <UDI><PID>NOTLOCKED</PID><SN>NOTLOCKED</SN></UDI><T>RTU</T>
        License Addition: Additive
```

```
        License Generation version: 0x8200000
        License Count: Non-Counted
        License Priority: None
        Store Index: 3
        Store Name: Built-In License Storage
Index: 2        Feature: metroaggrservices                Version: 1.0
        License Type: EvalRightToUse
        License State: Active, In Use
            Evaluation total period: 8  weeks 4  days
            Evaluation period left: 8  weeks 2  days
            Period used: 1  day  18 hours
            Transition date: Jun 22 2014 18:28:54
        Lock type: Non Node locked
        Vendor info: <UDI><PID>NOTLOCKED</PID><SN>NOTLOCKED</SN></UDI><T>RTU</T>
        License Addition: Additive
        License Generation version: 0x8200000
        License Count: Non-Counted
        License Priority: Low
Store Index: 0
        Store Name: Built-In License Storage
Index: 3        Feature: metroipservices                  Version: 1.0
        License Type: EvalRightToUse
        License State: Active, Not in Use, EULA not accepted
            Evaluation total period: 8  weeks 4  days
            Evaluation period left: 8  weeks 4  days
            Period used: 0  minute  0  second
        Lock type: Non Node locked
```