CHAPTER 10

Configuring a Cisco Right-To-Use License

First Published: July 2012

This guide provides an overview and guidance for configuring the Cisco® ASR 1000 Series Aggregation Services Routers with Right-To-Use License (RTU).

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. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the “Feature Information for Cisco RTU License” section on page 10-13.

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

Contents

• Prerequisites for Cisco RTU License, page 10-1
• Restrictions for Cisco RTU License, page 10-2
• Information About Cisco RTU License, page 10-2
• Configuration Examples for RTU Supported Software Licenses, page 10-6
• Additional References, page 10-11
• Feature Information for Cisco RTU License, page 10-13

Prerequisites for Cisco RTU License

• You must obtain the device certificate from the Cisco licensing infrastructure before you start the installation process.
• You must have a Cisco user login account.
Restrictions for Cisco RTU License

On the Cisco ASR 1001 Router, if you downgrade from the Cisco IOS XE 3.6.0S image to an earlier release, all the licenses installed in IOS XE 3.6.0S become invalid, and you cannot use the associated features.

If you upgrade from an earlier Cisco IOS XE release to Cisco IOS XE 3.6.0S and or a later release, all the licenses are converted automatically. If you downgrade and then upgrade back to Cisco IOS XE 3.6.0S or a later release, the licenses are not converted. The Licenses installed in the downgrade versions are not visible.

Information About Cisco RTU License

- Overview of the Cisco Licensing Mechanism, page 10-2
- RTU Supported Software Licenses, page 10-2
- Evaluation Licenses and RTU Licenses, page 10-3

Overview of the Cisco Licensing Mechanism

The Cisco licensing mechanism provides flexibility to run a device at different technology package levels. This mechanism is referred to as technology package licensing and leverages the universal technology package based licensing solution. A universal image containing all levels of a software package is loaded on to the device. During startup, the device determines the highest level of license and loads the corresponding software features or subsystems.

The Cisco ASR 1001 Router and ASR 1002-X Router support technology package-based licenses that are not node locked. Technology packages and feature licenses are activated using evaluation licenses that are built in. Evaluation licenses are limited period-metered licenses that are valid for 60 days. When the time allowed for an evaluation license expires, the license is automatically upgraded to RTU license. After all the RTU licenses are activated, there is no expiration of license and are valid for a lifetime.

To enable an evaluation licence, you have to accept the global end user license agreement (EULA).

For more information on Cisco IOS XE software activation conceptual overview, see the Software Activation Configuration Guide, Cisco IOS XE Release 3S at this URL:

RTU Supported Software Licenses

This section describes the various RTU-supported software licenses.

| Note | Permanent licenses are not affected by Cisco IOS XE release upgrades. |

An evaluation license is required to activate the licensed features. When a router enters the configuration mode, a check is performed to verify the license. Feature configurations are allowed only valid licenses are available. If a permanent license does not exist, Cisco IOS activates an RTU license when you accept the EULA agreement and the corresponding Cisco IOS functionalities will be available.

The RTU license supports the following software features:
- Inter chassis redundancy
- Lawful intercept
- Software redundancy
- IPsec
- Throughput

Accept the EULA to activate the corresponding feature. Migration of a permanent license from previous versions of the software images are seamless. For information on accepting the EULA, see Example: Accepting the Global EULA, page 10-6.

### Evaluation Licenses and RTU Licenses

Table 10-1 lists the Evaluation licenses and RTU licenses available on the Cisco ASR 1000 Series

<table>
<thead>
<tr>
<th>License Name</th>
<th>License Description</th>
<th>Evaluation License</th>
<th>RTU</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLS-ASR1001-5G</td>
<td>Upgrade from 2.5G to 5G license for Cisco ASR1001 Router</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>FLSASR1-IOSRED</td>
<td>Software redundancy license for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-IPSEC</td>
<td>IPSEC License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-FW</td>
<td>FW License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-FPI</td>
<td>Flex. Pack. Insp License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-FWNAT-R</td>
<td>Firewall and NAT Stateful Inter-Chassis Redundancy License</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-LI</td>
<td>Lawful Intercept License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-BB</td>
<td>Broadband License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-BB-4K</td>
<td>Broadband 4K Sessions for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-BB-16K</td>
<td>Broadband 16K Sessions for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-BB-32K</td>
<td>Broadband 32K Sessions for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-CS-250P</td>
<td>CUBE(SP) 250 Session License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-CS-2KP</td>
<td>CUBE(SP) 2K Session License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-CS-4KP</td>
<td>CUBE(SP) 4K Session License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Chapter 10 Configuring a Cisco Right-To-Use License

Information About Cisco RTU License

How to Activate an Evaluation License

To activate an evaluation license for a technology package perform the steps detailed in this section. For more information on activating the feature licenses, see “Configuration Examples for RTU Supported Software Licenses” section on page 10-6.

**Note**

Evaluation RTU licenses automatically changes to RTU licenses after an evaluation period of 60 days.

Evaluation licenses can be activated using the **license boot level** `{adventerprise | advipservices | ipbase}` command.

**SUMMARY STEPS**

1. `enable`
2. `configure terminal`
3. `license boot level` `{adventerprise | advipservices | ipbase}`
4. `exit`
5. `copy running-config startup-config`
6. `reload`

---

**Table 10-1 Evaluation and RTU Licenses (continued)**

<table>
<thead>
<tr>
<th>License Name</th>
<th>License Description</th>
<th>Evaluation License</th>
<th>RTU</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLSASR1-CS-16KP</td>
<td>CUBE(SP) 16K Session License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-CS-32KP</td>
<td>CUBE(SP) 32K Session License for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-CS-LAB</td>
<td>CUBE(SP) Lab Use Only Lic for Cisco ASR1000 Series Aggregation Services Routers</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FLSASR1-CS-TPEX</td>
<td>CUBE(SP) License for ASR1000 in Video/B2BTP Ex</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SLASR1-AIS</td>
<td>Cisco ASR 1000 Advanced IP Services License</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SLASR1-AES</td>
<td>Cisco ASR 1000 Advanced Enterprise Services License</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SLASR1-IPB</td>
<td>Cisco ASR 1000 IP BASE License</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLS-ASR1001-5G</td>
<td>Throughput performance upgrade from 2.5G to 5G license for ASR1001</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Routers.
### Detailed Steps

<table>
<thead>
<tr>
<th>Command or Action</th>
<th>Purpose</th>
</tr>
</thead>
</table>
| **Step 1** enable | Enables the privileged EXEC mode.  
  * Enter your password if prompted. |
| **Example:** Router> enable | |
| **Step 2** configure terminal | Enters the global configuration mode. |
| **Example:** Router#configure terminal | |
| **Step 3** license boot level {adventerprise | advipservices | ipbase} | Enables the evaluation license. |
| **Example:** license boot level {adventerprise | advipservices | ipbase} | |
| Router(config)#license boot level adventerprise | |
| **Note** Use the ? command with the technology-package command to see the software packages and features supported on your router. |
| **Step 4** exit | Exits the global configuration mode. |
| **Example:** Router(config)#exit | |
| **Step 5** copy running-config startup-config | Saves the configuration. |
| **Example:** Router#copy running-config startup-config | |
| **Step 6** reload | Reloads the router. A reload is required to activate the software package. |
| **Example:** Router#reload | |

### Example

The following example shows how to activate an evaluation license:

```
Router>enable
Router#configure terminal
Router(config)#license boot level adventerprise
% use 'write' command to make license boot config take effect on next boot
Router(config)#exit
Router#copy running-config startup-config
Router#reload
```
Configuration Examples for RTU Supported Software Licenses

This section provides the following configuration examples:

- Configuring Throughput, page 10-6
- Example: Accepting the Global EULA, page 10-6
- Example: Accepting an EULA for Software Redundancy License, page 10-7
- Example: Accepting an EULA for the Inter-Chassis Redundancy License, page 10-7
- Example: Accepting an EULA for the Lawful Intercept License, page 10-8

Configuring Throughput

You can upgrade the throughput of the ESP from 2.5 Gbps to 5 Gbps by activating the RTU license. For information on configuring throughput on the Cisco ASR 1001 Router, see Cisco ASR 1001 Router Quick Start Guide.

For information on configuring throughput on the Cisco ASR 1002-X Router, see Cisco ASR 1001 Router Quick Start Guide.

Example: Accepting the Global EULA

When activating the evaluation license, accept the global EULA. Once accepted, the global EULA will be valid for all the future license activations including the RTU.

Perform the following actions when required:

```
Router(config)#license accept end user agreement

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/EUIKEN_.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 feature you use past the 60 days evaluation period, so that if you enable a software feature on 1000 devices, you must purchase 1000 licenses for use past the 60 day evaluation period.)
```
Activation of the software command line interface will be evidence of your acceptance of this agreement.

ACCEPT? (yes/[no]): Yes
Router(config)#
*Jul 6 09:36:11.293: %LICENSE-6-EULA_ACCEPT_ALL: The Right to Use End User License Agreement is accepted

Example: Accepting an EULA for Software Redundancy License

The following example shows the acceptance of an EULA for the software redundancy feature:

```
Router(config)# redundancy
Router(config-red)# mode
Router(config-red)# mode sso
```

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Activation of the software command line interface will be evidence of your acceptance of this agreement.

ACCEPT? (yes/[no]): yes
Router(config)#

Example: Accepting an EULA for the Inter-Chassis Redundancy License

The following example shows the acceptance of an EULA for the application redundancy feature:

```
Router(config-red)# application redundancy
```
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 feature you use past the 60 days evaluation period, so that if you enable a software feature on 1000 devices, you must purchase 1000 licenses for use past the 60 day evaluation period.)

Activation of the software command line interface will be evidence of your acceptance of this agreement.

Accept? (yes/[no]): yes

Example: Accepting an EULA for the Lawful Intercept License

The following MIBs are required to activate lawful intercept license:

- snmp-server view INTERCEPT_VIEW ciscoIpTapMIB
- snmp-server view INTERCEPT_VIEW cisco802TapMIB
- snmp-server view INTERCEPT_VIEW ciscoTap2MIB

The following example shows the acceptance of an EULA for the lawful intercept feature:

```
Router(config-red)#snmp-server view INTERCEPT_VIEW ciscoIpTapMIB included
```

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
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Activation of the software command line interface will be evidence of your acceptance of this agreement.

ACCEPT? (yes/[no]): yes

Example: Sample Output for show Commands

In the following examples, the output for the show commands:

Sample Output for the show license EULA Command

```
Router#show license EULA
Feature name      EULA Accepted
----------------- ---------------
adventerprise    yes
advipservices     no
ipbase            n/a
avc               n/a
broadband         n/a
broadband_4k      n/a
cube_250          n/a
cube_250_red      n/a
cube_ent_100      n/a
cube_ent_100_red  n/a
cube_lab          n/a
cube_video_b2btp  n/a
cube_video_b2btp_red  n/a
firewall          n/a
fpi               n/a
fwnat_red         no
gtp_addon_aic     n/a
internal_service  n/a
ipsec             no
lawful_intr       no
lisp              n/a
nat64_stateful_2m n/a
otv               n/a
sgt_fw            n/a
sw_redundancy     yes
throughput_10g    no
throughput_20g    no
throughput_36g    no
vpls              n/a
```

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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 feature you use past the 60 days evaluation period, so that if you enable a software feature on 1000 devices, you must purchase 1000 licenses for use past the 60 day evaluation period.)

Activation of the software command line interface will be evidence of your acceptance of this agreement.

Sample Output for the show license all Command

```
Router#show license all
License Store: Primary License Storage
License Store: Built-In License Storage
StoreIndex: 0   Feature: adventerprise                     Version: 1.0
                License Type: EvalRightToUse
                License State: Active, In Use
                Evaluation total period: 8 weeks 4 days
                Evaluation period left: 6 weeks 2 days
                Period used: 2 weeks 1 day
                Transition date: Aug 24 2012 05:14:39
                License Count: Non-Counted
                License Priority: Low
StoreIndex: 1   Feature: advipservices                     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
                License Count: Non-Counted
                License Priority: None
StoreIndex: 2   Feature: fwnat_red                         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
                License Count: Non-Counted
                License Priority: None
StoreIndex: 3   Feature: ipsec                             Version: 1.0
                License Type: EvalRightToUse
                License State: Active, Not in Use, EULA not accepted
```

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.


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Activation of the software command line interface will be evidence of your acceptance of this agreement.
Evaluation total period: 8 weeks 4 days
Evaluation period left: 8 weeks 4 days
Period used: 0 minute 0 second
License Count: Non-Counted
License Priority: None
StoreIndex: 4 Feature: lawful_intr 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
License Count: Non-Counted
License Priority: None
StoreIndex: 5 Feature: sw_redundancy Version: 1.0
License Type: RightToUse
License State: Active, In Use
License Count: Non-Counted
License Priority: Low
StoreIndex: 6 Feature: throughput_10g 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
License Count: Non-Counted
License Priority: None
StoreIndex: 7 Feature: throughput_20g 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
License Count: Non-Counted
License Priority: None
StoreIndex: 8 Feature: throughput_36g 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
License Count: Non-Counted
License Priority: None

Additional References

Related Documents

<table>
<thead>
<tr>
<th>Related Topic</th>
<th>Document Title</th>
</tr>
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<tbody>
<tr>
<td>Cisco IOS commands</td>
<td>Cisco IOS Master Commands List, All Releases</td>
</tr>
<tr>
<td>Cisco IOS Software Activation Commands</td>
<td>Cisco IOS Software Activation Command Reference</td>
</tr>
</tbody>
</table>
### MIBs

<table>
<thead>
<tr>
<th>MIB</th>
<th>MIBs Link</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>snmp-server view INTERCEPT_VIEW ciscoIpTapMIB</code></td>
<td>To locate and download MIBs for selected platforms, Cisco software releases, and feature sets, use Cisco MIB Locator found at the following URL: <a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a></td>
</tr>
<tr>
<td><code>snmp-server view INTERCEPT_VIEW cisco802TapMIB</code></td>
<td></td>
</tr>
<tr>
<td><code>snmp-server view INTERCEPT_VIEW ciscoTap2MIB</code></td>
<td></td>
</tr>
</tbody>
</table>

### Technical Assistance

<table>
<thead>
<tr>
<th>Description</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.</td>
<td><a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a></td>
</tr>
</tbody>
</table>
Feature Information for Cisco RTU License

Table 10-2 lists the features in this module and provides links to specific configuration information.

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to http://www.cisco.com/go/cfn. An account on Cisco.com is not required.

Note

Table 10-2 lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

<table>
<thead>
<tr>
<th>Feature Name</th>
<th>Releases</th>
<th>Feature Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuring Cisco RTU License</td>
<td>IOS XE 3.7</td>
<td>The Cisco ASR 1001 Router and ASR 1002-X Router support technology package-based licenses that are not node locked.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In Cisco IOS XE Release 3.7, this feature was introduced on the Cisco ASR 1000 Aggregation Services Routers.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The following sections provide information about this feature:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Information About Cisco RTU License, page 10-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Configuration Examples for RTU Supported Software Licenses, page 10-6</td>
</tr>
</tbody>
</table>