



Configuring a Cisco Right-To-Use License

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

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Feature Information for Cisco Right-To-Use License

The following table provides release information about the feature or features described in this module. This table 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.

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

Prerequisites for RTU

- 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.

Information About Cisco RTU License

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 license, you have to accept the global end user license agreement (EULA).

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 available on the Cisco ASR 1000 Series Routers

Evaluation and RTU Licenses	Evaluation and RTU Licenses	License Name	License Description Evaluation License
FLS-ASR1001-5G	FLS-ASR1001-5G	Upgrade from 2.5G to 5G license for Cisco ASR1001 Router	Yes
FLSASR1-IOSRED	Software redundancy license for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes

Evaluation and RTU Licenses	Evaluation and RTU Licenses	License Name	License Description Evaluation License
FLSASR1-IPSEC IPSEC	License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-FW FW	License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-FPI	Flex. Pack. Insp License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-FWNAT-R	Firewall and NAT Stateful Inter-Chassis Redundancy License	Yes	Yes
FLSASR1-LI	Lawful Intercept License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-BB	Broadband License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-BB-4K	Broadband 4K Sessions for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-BB-16K	Broadband 16K Sessions for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-BB-32K	Broadband 32K Sessions for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-CS-250P	CUBE(SP) 250Session License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes

Evaluation and RTU Licenses	Evaluation and RTU Licenses	License Name	License Description Evaluation License
FLSASR1-CS-2KP	CUBE(SP) 2K Session License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-CS-4KP	CUBE(SP) 4K Session License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-CS-16KP	CUBE(SP) 16K Session License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-CS-32KP	CUBE(SP) 32K Session License for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-CS-LAB	CUBE(SP) Lab Use Only Lic for Cisco ASR1000 Series Aggregation Services Routers	Yes	Yes
FLSASR1-CS-TPEX	CUBE(SP) License for ASR1000 in Video/B2BTP Ex	Yes	Yes
SLASR1-AIS	Cisco ASR 1000 Advanced IP Services License	Yes	Yes
SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	Yes	Yes
SLASR1-IPB	Cisco ASR 1000 IP BASE License		
FLS-ASR1001-5G	Throughput performance upgrade from 2.5G to 5G license for ASR1001	Yes	Yes

How to Activate an Evaluation License



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

DETAILED STEPS

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

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
```

Configuring Throughput

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: IPsec

Configure map or tunnels to the interface to trigger the EULA. Perform the following actions when required:

```
step1:
Device#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Device(config)#crypto isakmp policy 1
Device(config-isakmp)#encryption aes
Device(config-isakmp)#hash md5
Device(config-isakmp)#group 2
Device(config-isakmp)#lifetime 86400
Device(config-isakmp)#authentication pre-share
Device(config-isakmp)#exit

step2:
Device(config)#crypto isakmp key cisco address 10.10.0.0

step3:
Device(config)#crypto ipsec transform-set trans esp-aes esp-md5-hmac
Device(cfg-crypto-trans)#mode transport
Device(cfg-crypto-trans)#exit

step4:
Device(config)#crypto map map1 10 ipsec-isakmp
% NOTE: This new crypto map will remain disabled until a peer
and a valid access list have been configured.
Device(config-crypto-map)#set transform-set trans
Device(config-crypto-map)#set peer 10.10.0.0
Device(config-crypto-map)#match address 101
Device(config-crypto-map)#exit

step5:
Device(config)#access-list 101 permit ip 192.168.2.0 0.0.0.255 192.168.1.0 0.0.0.255
Device(config)#access-list 102 permit ip 100.100.100.0 0.0.0.255 100.100.100.0 0.0.0.255
Device(config)#exit

step6:
Device#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Device(config)#int GigabitEthernet0/0/1
```

```
Device(config-if)#crypto map map1
Device(config-if)#end
```

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
```

```
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
```

```
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
```

```
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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: IPSec

Configure map or tunnels to the interface to trigger the EULA. Perform the following actions when required:

step1:

```
Device#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Device(config)#crypto isakmp policy 1
Device(config-isakmp)#encryption aes
Device(config-isakmp)#hash md5
Device(config-isakmp)#group 2
Device(config-isakmp)#lifetime 86400
Device(config-isakmp)#authentication pre-share
Device(config-isakmp)#exit
```

step2:

```
Device(config)#crypto isakmp key cisco address 10.10.0.0
```

step3:

```
Device(config)#crypto ipsec transform-set trans esp-aes esp-md5-hmac
Device(cfg-crypto-trans)#mode transport
Device(cfg-crypto-trans)#exit
```

step4:

```
Device(config)#crypto map map1 10 ipsec-isakmp
% NOTE: This new crypto map will remain disabled until a peer
and a valid access list have been configured.
Device(config-crypto-map)#set transform-set trans
Device(config-crypto-map)#set peer 10.10.0.0
Device(config-crypto-map)#match address 101
Device(config-crypto-map)#exit
```

step5:

```
Device(config)#access-list 101 permit ip 192.168.2.0 0.0.0.255 192.168.1.0 0.0.0.255
Device(config)#access-list 102 permit ip 100.100.100.0 0.0.0.255 100.100.100.0 0.0.0.255
Device(config)#exit
```

step6:

```
Device#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Device(config)#int GigabitEthernet0/0/1
Device(config-if)#crypto map map1
Device(config-if)#end
```


Example: Accepting an EULA for the Lawful Intercept License

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

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

```
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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
```

Sample Output for 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
```

Sample Output for the show license all Command

```

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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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.

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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
  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

```

Cisco ONE Suites

Cisco ONE Suites is a new way for customers to purchase infrastructure software. Cisco ONE offers a simplified purchasing model, centered on common customer scenarios in the data center, wide area network, and local access networks.

Smart Licensing supports Smart License Cisco ONE suite level licenses and image licenses, such as ipbase, Advanced IP Services (AIS), Advanced Enterprise Services (AES) and feature license and throughput performance, crypto throughput and port licensing on ASR 1000 Aggregation Series Routers.

To know more about Cisco One Suites, please refer to [Cisco ONE Suites](#).

How to Activate Cisco One Suite License

SUMMARY STEPS

1. enable
2. configure terminal
3. license boot suite suite-name
4. exit
5. reload

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables the privileged EXEC mode. Enter your password if prompted.
Step 2	configure terminal Example: Router#configure terminal	Enters the global configuration mode.
Step 3	license boot suite suite-name Example: Router(config)# license boot suite FoundationSuiteK9	Enables the suite license. Note This command is required for activating both the evaluation and permanent licenses.
Step 4	exit Example: Router(config)#exit	Exits the global configuration mode.

	Command or Action	Purpose
Step 5	<pre>reload</pre> <p>Example:</p> <pre>Router# reload</pre>	Reloads the router. A reload is required to activate the software suite.

Example

The following example shows how to activate an suite license:

```
Router>enable
Router#configure terminal
Router(config)#license boot suite FoundationSuiteK9
```

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

```
ACCEPT? [yes/no]: yes
% use 'write' command to make license boot config take effect on next boot
```

```
Router(config)#
*Nov 6 01:48:34.023: %LICENSE-6-EULA_ACCEPTED: EULA for feature FoundationSuiteK9 1.0 has
been accepted. UDI=C3900-SPE100/K9:FOC14440KXB; StoreIndex=3:Built-In License Storage
Router(config)#exit
Router#write
Router#reload
```

Additional References

The following sections provide references related to the Call Home feature.

Related Documents

Related Topic	Title
Cisco IOS XE commands	Cisco IOS Master Commands List, All Releases
Explains how the Smart Call Home service offers web-based access to important information on select Cisco devices and offers higher network availability, and increased operational efficiency by providing real-time alerts.	Smart Call Home User Guide
Smart Call Home site page on Cisco.com for access to all related product information.	Cisco Smart Call Home site
Public Key Infrastructure (PKI) and Certificate Authority configuration in Cisco IOS XE software	Cisco IOS XE Security Configuration Guide: Secure Connectivity

Standards

Standard	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

MIBs

MIB	MIBs Link
CISCO-CALLHOME-MIB	To locate and download MIBs for selected platforms, Cisco IOS XE software releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

RFCs

RFC	Title
No new or modified RFCs are supported by this feature, and support for existing RFCs has not been modified by this feature.	—

Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<p>http://www.cisco.com/cisco/web/support/index.html</p>

Feature Information for Call Home

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS XE 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 The Feature Information table below lists only the Cisco IOS XE software release that introduced support for a given feature in a given Cisco IOS XE software release train. Unless noted otherwise, subsequent releases of that Cisco IOS XE software release train also support that feature.

Table 1: Feature Information for Call Home

Feature Name	Releases	Feature Information
Call Home	Cisco IOS XE Release 3.13S	<p>The Call Home feature provides e-mail-based and web-based notification of critical system events. A versatile range of message formats are available for optimal compatibility with pager services, standard e-mail, or XML-based automated parsing applications.</p> <p>The following commands were introduced or modified:</p>

