

Broadband Smart Licensing

The Broadband Smart Licensing feature supports broadband Lite sessions during the deployment of ASR1000 Aggregation Services Routers.

- Finding Feature Information, page 1
- Prerequisites for Broadband Smart Licensing, page 1
- Restrictions for Broadband Smart Licensing, page 2
- Information About Broadband Smart Licensing, page 2
- How to Configure Broadband Smart Licensing, page 2
- Configuration Examples for Broadband Smart Licensing, page 4
- Additional References for Broadband Smart Licensing, page 5
- Feature Information for Broadband Smart Licensing, page 6

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see **Bug Search Tool** and 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 table.

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 Broadband Smart Licensing

Restrictions for Broadband Smart Licensing

- The Broadband Smart Licensing feature is supported only on AR1K running Polaris 16.5 release and above.
- The feature does not support boradband Lite sessions.
- The stand-by RP does not have an account.
- Only broadband smart licenses that are multiples of two can be requested, 1 license = 2 thousand sessions.

Information About Broadband Smart Licensing

Broadband Sessions

How to Configure Broadband Smart Licensing

Configuring the Subscriber License

To configure broadband smart licensing, configure the **subscriber license** command before starting a broadband session.

Before You Begin

Do the following:

SUMMARY STEPS

- 1. enable
- 2. configure terminal
- 3. subscriber license
- 4. exit

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example: Device> enable	• Enter your password if prompted.

Command or Action	Purpose		
Step 2 configure terminal		Enters global configuration mode.	
Example: Device# configure terminal			
Step 3subscriber licenseConfigures the subscriber license.		ures the subscriber license.	
<pre>Example: Device(config)# subscriber</pre>	Note	The following configurations are essential to establish a connection between the ASR1000 and the licensing server.	
license		License Smart Enable	
		Call Home	
		Device Registration	
Step 4 exit Exits global		lobal configuration mode.	
Example: Device(config)# exit	Note	If the subscriber license command is configured before bringing up a broadband session, irrespective of any earlier broadband license request failure, the range of the license to be requested must be between $2 - 128$ K (range of subscriber license). When the session count exceeds the procured broadband license count by 100, a request is sent for a new license.	
	Note	Ensure that there is no failure of license procurement in the last 24 hours. Use the subscriber license command to release all procured licenses.	
		During procuring and releasing the licenses, a message is displayed with the details about the license and the session count.	
	<pre>configure terminal Example: Device# configure terminal subscriber license Example: Device(config)# subscriber license exit Example:</pre>	configure terminal Enters Example: Device# configure terminal Config subscriber license Config Example: Device (config)# subscriber license Note exit Example: Device (config)# exit Exits g Note Note	

Clearing the Subscriber License

SUMMARY STEPS

1. clear subscriber license

DETAILED STEPS

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	Command or Action	Purpose	
Step 1	clear subscriber license		
	Example: Device# clear subscriber license		
	*Jul 10 10:24:27.217: %SSSMGR-5-BB_LICENSE_REQUEST_SENT: Broadband license request sent for 0 license with configured license count 0		
	*Jul 10 10:24:27.217: %SSSMGR-5-BB_LICENSE_RELEASE_SUCCESS: Successfully released all BroadBand licenses		

1

Comm	nand or Action	Purpose
Sessi	lons: ISG session, except for the lite session	

Verifying Broadband Smart Licensing

SUMMARY STEPS

1. Debug subscriber license

DETAILED STEPS

Debug subscriber license

Configuration Examples for Broadband Smart Licensing

Example: show subscriber license

The **show subscriber license** command tracks the number of procured broadband licenses, the configured value of broadband licenses, current session count on the router, the highest session count reached since the last license request was sent to the server and the time at which it was procured.

The following is sample output of the show subscriber license command

Device# show subscriber license Broadband Smart License Compliance	:	In	Compliar	ice
Total Number of Broadband Licenses Procured	:	0		
Broadband Licenses Configured	:	0		
Current Broadband Session Count	:	0		
Time of Last License Procurement	:	No	License	Procured
Sessions Peak Count Since Last Procurement	:	0		

Use the no subscriber license command to release all procured licenses.

no subscriber license



During procuring and releasing of licenses, a message is displayed with the license details and the session count.

Example: Show license summary

Example: Show license summary

Example: Clear subscriber license

Example: Clear subscriber license

Additional References for Broadband Smart Licensing

Related Documents

Related Topic	Document Title		
Cisco IOS commands	Cisco IOS Master Commands List, All Releases		

Standards and RFCs

Standard/RFC	Title
Standard	Title

MIBs

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

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.	http://www.cisco.com/cisco/web/support/index.html
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.	
Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	

Feature Information for Broadband Smart Licensing

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.

Feature Name	Releases	Feature Information
Broadband Smart Licensing	Cisco IOS XE Everest 16.6.1	The Broadband Smart Licensing feature enables to purchase licenses for any number of broadband sessions that are active during the deployment of ASR1000 Aggregation Services Routers. The following commands were introduced or modified: subscriber license , show subscriber licens

Table 1: Feature Information for Broadband Smart Licensing