

# Enabling Licensed Features

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## SYSTEM ADMINISTRATOR GUIDE

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# 1 Enabling Licensed Features

Certain features and functions that are supported in the SmartEdge router require a paid software license. To make use of one of these features or functions, you must enable it with a password that is provided when that license fee is paid. Each feature or function requires its own unique password.

This document applies to both the Ericsson SmartEdge® and SM family routers. However, the software that applies to the SM family of systems is a subset of the SmartEdge OS; some of the functionality described in this document may not apply to SM family routers.

For information specific to the SM family chassis, including line cards, refer to the SM family chassis documentation.

For specific information about the differences between the SmartEdge and SM family routers, refer to the Technical Product Description *SM Family of Systems* (part number 5/221 02-CRA 119 1170/1) in the **Product Overview** folder of this Customer Product Information library.

**Note:** An individual dual-stack subscriber session requires one IPv4 license and one IPv6 license. Those IPv4 and IPv6 licenses are consumed at the time of authentication, whether subscribers are authenticated locally or through RADIUS. The licenses are not returned to the license pool until the entire subscriber session for both stacks (IPv4 and IPv6) is down. For example, if the IPv4 session for a dual-stack subscriber goes down while the IPv6 session remains active, the IPv4 license is not returned to the license pool until the IPv6 session goes down, at which time both licenses (IPv4 and IPv6) are returned to the pool.

To enable software licensing for one or more of these features and functions, perform the tasks described in Table 1.

Table 1 Enable Software Licensing

#	Task	Root Command	Notes
1.	Enable software licensing and access software license configuration mode.	<i>software license</i>	Enter this command in global configuration mode.
2.	Enable the license for a feature and its functions; enter these commands in software license configuration mode:		
	L2TP features and functions.	<i>l2tp</i>	You must specify the L2TP functions to be enabled.
	IPv6 features and functions		All IPv6 functions are enabled.
	MPLS features and functions.	<i>mpls</i>	All MPLS functions are enabled.



Table 1 Enable Software Licensing

#	Task	Root Command	Notes
	All-ports support.	<i>all-ports</i>	Enables operation of ports 5-8 of a <i>Channelized OC-3/STM-1</i> or <i>OC-12/STM-4</i> line card in the specified chassis slot.
	CES features and functions	<i>ces</i>	Configures the CES licensing key on a <i>Channelized 8-port OC-3/STM-1</i> or <i>2-port OC-12/STM-4</i> line card.
	PIM features and functions	<i>pim</i>	All PIM functions are enabled.
	Simultaneous calls support	<i>media-gateway calls</i>	Enables support for the number of simultaneous calls specified.
	Multimedia support	<i>media-gateway multimedia</i>	Enables support for multimedia calls.
	MSRP B2BUA support.	<i>media-gateway msp</i>	Enables MSRP B2BUA functionality.
	Secure RTP support.	<i>media-gateway srtp</i>	Enables support for Secure RTP calls.
	Enhanced Carrier Grade NAT (CGNAT) features and functions	<i>nat enhanced password</i>	All enhanced CGNAT functions are enabled. For information about these functions, see <i>Configuring NAT Policies</i> .
	IPv4 subscriber features and functions.	<i>subscriber (IPv4 software license configuration)</i>	You must specify the subscriber functions to be enabled.
	IPv6 subscriber features and functions.	<i>subscriber (IPv6 subscriber license configuration)</i>	The SmartEdge router supports a maximum of 500 or 64,000 IPv6 subscribers.



## 2 Example: Enable Software Licensing

The following example enables the features and functions for paid license features and functions; a unique password is required for each feature or function to be enabled:

```
[local]Redback#configure
[local]Redback(config)#software license

!Enable L2TP
[local]Redback(config-license)#l2tp lns password l2tp-password

!Enable MPLS
[local]Redback(config-license)#mpls password mpls-password

!Enable up to 32,000 active subscribers
[local]Redback(config-license)#subscriber active 32000 password
sub-active32-password

!Enable up to 64,000 active IPv6 subscribers
[local]Redback(config-license)#subscriber active ipv6 64000 password sub-active-ipv6-password

!Enable ATM dynamic profiles, CLIPS dynamic circuits, HTTP redirect, RADIUS refresh
[local]Redback(config-license)#subscriber dynamic-service password
sub-dynamic-password

!Enable hitless switchover for subscriber sessions
[local]Redback(config-license)#subscriber high-availability password
sub-high-password

!Enable simultaneous calls over media-gateway
[local]Redback(config-license)#media-gateway calls simultaneous-calls password calls-password

!Enable multimedia service over media-gateway
[local]Redback(config-license)#media-gateway multimedia password multimedia-password

!Enable MSRP B2BUA service over media-gateway
[local]Redback(config-license)#media-gateway msrp password msrp-password

!Enable Secure RTP service over media-gateway
[local]Redback(config-license)#media-gateway srtp password srtp-password
```