



## RADIUS VPN Support

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This feature enables the SBC to interact with one or more RADIUS servers within a Virtual Private Network (VPN). Therefore, the SBC can now support remote account billing on configured VPNs with different types of VRFs.

### Feature History for RADIUS VPN Support

Release	Modification
Release 3.5.1	This feature was introduced on Cisco XR 12000 Series Router.
Release 3.6.0	No modification.

## Contents

This module contains the following sections:

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## Restrictions for Configuring RADIUS VPN Support

When configuring RADIUS VPN support on the SBC, note that if multiple RADIUS servers have been defined, all of these RADIUS servers must be defined within the same VRF. This feature cannot be implemented if the RADIUS servers are defined in separate VRFs.

## Information About RADIUS VPN Support

The SBC allows users to specify which VPN to use for configuring the AAA IPv4 addresses. All the servers that the SBC accesses must be within the VPN configured on the AAA control address CLI. The RADIUS messages are then sent to the IPv4 address configured with the VPN.



### Note

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If a VPN is not configured, the global address space is used as the default address.

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# How to Configure RADIUS VPN Support

This section contains the steps for configuring the SBC with RADIUS VPN Support:

## SUMMARY STEPS

1. **configure**
2. **sbc** *service-name*
3. **sbe**
4. **control address aaa ipv4** *ipv4\_address* **vrf** *vrf\_name*
5. **commit**
6. **exit**

## DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>configure</b>  <b>Example:</b> RP/0/0/CPU0:router# configure	Enables the global configuration mode.
Step 2	<b>sbc</b> <i>service-name</i>  <b>Example:</b> RP/0/0/CPU0:router(config)# sbc mysbc	Enters the mode of an SBC service.  Use the <i>service-name</i> argument to define the name of the SBC.
Step 3	<b>sbe</b>  <b>Example:</b> RP/0/0/CPU0:router(config-sbc)# sbe	Enters the mode of the signaling border element (SBE) function of the SBC.
Step 4	<b>control address aaa ipv4</b> <i>ipv4_address</i> <b>vrf</b> <i>vrf-name</i>  <b>Example:</b> RP/0/0/CPU0:router(config-sbc-sbe)# control address aaa ipv4 10.0.0.0 vrf vpn3	Configures the specified AAA control address within the VRF. <ul style="list-style-type: none"> <li>• Use the <i>ipv4_address</i> argument to specify the local address of the SBC RADIUS client.</li> <li>• Use the <i>vrf-name</i> argument to specify the name of the VRF to use for the RADIUS client.</li> </ul>
Step 5	<b>commit</b>  <b>Example:</b> RP/0/0/CPU0:router(config-sbc-sbe-adj-h323)# commit	Saves configuration changes. Use the <b>commit</b> command to save the configuration changes to the running configuration file and remain within the configuration session.
Step 6	<b>exit</b>  <b>Example:</b> RP/0/0/CPU0:router(config-sbc-sbe)# exit	Exits the SBE mode.

## Additional References

The following sections provide references related to RADIUS VPN support on the SBC.

### Related Documents

Related Topic	Document Title
Cisco IOS XR master command reference	Cisco IOS XR Master Commands List
Cisco IOS XR SBC interface configuration commands	<i>Cisco IOS XR Session Border Controller Command Reference</i>
Initial system bootup and configuration information for a router using the Cisco IOS XR Software	<i>Cisco IOS XR Getting Started Guide</i>
Cisco IOS XR command modes	<i>Cisco IOS XR Command Mode Reference</i>

### Standards

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

### MIBs

MIBs	MIBs Link
—	To locate and download MIBs using Cisco IOS XR software, use the Cisco MIB Locator found at the following URL and choose a platform under the Cisco Access Products menu: <a href="http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml">http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml</a>

### Technical Assistance

Description	Link
The Cisco Technical Support website contains thousands of pages of searchable technical content, including links to products, technologies, solutions, technical tips, and tools. Registered Cisco.com users can log in from this page to access even more content.	<a href="http://www.cisco.com/techsupport">http://www.cisco.com/techsupport</a>

