H.248.1 v3 Support

This enhancement allows the DBE to interoperate with an SBE that requires H.248.1 version 3 or Media Gateway Controller (MGC) version 3. The DBE now accepts H.248 version 2 through version 3. Once the DBE is configured to support version 3, the DBE rejects attempts to negotiate with the MGC to a lower version.

Feature History for H.248.1 v3 Support

Release	Modification
Release 3.5.0	This command was first introduced on the Cisco CRS-1.
Release 3.6.0	No modification.

Contents

This module contains the following sections:

Restrictions for H.248.1 v3 Support

- If configured to support H.248.1v3, the DBE rejects attempts by the MGC to negotiate down to a lower protocol version.

Information About H.248.1 v3 Support

This enhancement allows the DBE to interoperate with an SBE that requires H.248.1 v3 or Media Gateway Controller (MGC) version 3. The DBE now accepts H.248 version 2 through version 3.

On contacting an SBE, the DBE advertises for H.248.1 version 3 in the ServiceChange request, and confirms the version received in the ServiceChange response from the SBE. If the SBE supports a lower version than was advertised, the DBE logs the event, disconnects from the SBE, and tries an alternative

SBE until an SBE with H.248.1 v3 is found. A new field, bcaGalEntMegacoVersion, is added to the MG-Abstraction Layer entity MIB. This field can be set to either bcaMegacoV2 (the default version 2) or bcaMegacoV3. The DBE does not perform any further H.248.1 version negotiation.

How to Configure H.248.1 v3 Support

This section contains the steps for configuring H.248.1 v3 support. The new h248-version command defines the version of the H.248 protocol, which the DBE uses when forming associations with an H.248 controller.

Configuring H.248.1 v3 Support

SUMMARY STEPS

1. **configure**
2. **sbc** *service-name*
3. **dbe**
4. **vdbe** [**global**]
5. **h248-version** *version*
6. **commit**
7. **exit**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**configure** **Example:** `RP/0/0/CPU0:router# configure`	Enables the global configuration mode.
Step 2	**sbc** *service-name* **Example:** `RP/0/0/CPU0:router(config)# sbc mysbc`	Enters the mode of an SBC service. • Use the *service-name* argument to define the name of the SBC.
Step 3	**dbe** **Example:** `RP/0/0/CPU0:router(config-sbc)# dbe`	Enters the mode of the data border element (DBE) function of the SBC.
Step 4	**vdbe [global]** **Example:** `RP/0/0/CPU0:router(config-sbc-dbe)# vdbe`	Enters the mode for configuring virtual DBE (vDBE) parameters.

	Command or Action	Purpose
Step 5	**h248-version** *version* **Example:** `RP/0/0/CPU0:router(config-sbc-dbe-vdbe)# h248-version 3`	Defines the version of the H.248 protocol, which the DBE should use when forming associations with an H.248 controller. The **no** version of the command leaves the default version 2 of the H.248 protocol. • *version*—Defines the version of the protocol to use. Possible values are 2 and 3. The default is 2. In the example to the left, the command configures the vDBE to use H.248 version 3. All attempts to negotiate to a lower version are subsequently rejected.
Step 6	**commit** **Example:** `RP/0/0/CPU0:router(config-sbc-dbe-vdbe-h248-version)# commit`	Saves configuration changes. Use the **commit** command to save the configuration changes to the running configuration file and remain within the configuration session.
Step 7	**exit** **Example:** `RP/0/0/CPU0:router(config-sbc-dbe-vdbe-h248-version)# exit`	Exits the current mode of the configuration.

Additional References

The following sections provide references related to H.248.1 v3 support.

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	*Cisco IOS XR Session Border Controller Command Reference*
Initial system bootup and configuration information for a router using the Cisco IOS XR Software	*Cisco IOS XR Getting Started Guide*
Cisco IOS XR command modes	*Cisco IOS XR Command Mode Reference*

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: http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

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.	http://www.cisco.com/techsupport