



Configuring DBE Overload Reporting

This chapter describes configuration commands that facilitate SBC's detailed reporting of the DBE overload conditions. The DBE's reports are used by the SBE to take appropriate actions. The DBE reports the following:

- Overload of the control plane
- Overload of the data plane
- Congestion of resources

Different types of overload and congestion are reported in a way which allows the SBE to differentiate between their causes.

Feature History for Configuring DBE Overload Reporting

Release	Modification
Release 3.4.1	This feature was introduced on the Cisco XR 12000 Series Router.
Release 3.5.0	No modification.
Release 3.6.0	No modification.

Contents

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Information About DBE Overload

Overload Reporting

H.248 (or Megaco), a VoIP signaling protocol, is used to communicate between SBC and DBE in a distributed SBC system. The Megaco package H.248.11 allows a Media Gateway (MG) to generate events when requests to add new terminations exceed a defined threshold. The DBE is extended to support this package. Note that the SBE is not extended to utilize this package. The H.248.11 package is added as an optional package in the H.248 Gate Control profile.

How to Configure DBE Overload Reporting

This section contains the steps for configuring DBE Overload reporting.

Configuring DBE Overload Reporting

SUMMARY STEPS

1. **configure**
2. **sbc** *service-name*
3. **dbe**
4. **overload-time-threshold** *time*
5. **commit**
6. **exit**
7. **show services sbc** *service-name* **dbe** **vdbe-media-stats** *vdbe-name*

DETAILED STEPS

	Command or Action	Purpose
Step 1	configure Example: RP/0/0/CPU0:router# configure	Enables global configuration mode.
Step 2	sbc <i>service-name</i> Example: RP/0/0/CPU0:router(config)# sbc mysbc	Enters the mode of an SBC service. <ul style="list-style-type: none"> • Use the <i>service-name</i> argument to define the name of the service.
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.

	Command or Action	Purpose
Step 4	<p><code>overload-time-threshold time</code></p> <p>Example: RP/0/0/CPU0:router(config-sbc-dbe)# overload-time-threshold 400</p>	<p>Configures the threshold time (in milliseconds) for MG overload control detection.</p> <p>If an SBE has subscribed for overload control events, the DBE sends an overload event notification every time a request to add a new flow takes longer than this threshold to process.</p> <p>The range is 0 – 2000000000. The default is 100.</p>
Step 5	<p><code>commit</code></p> <p>Example: RP/0/0/CPU0:router(config-sbc-dbe-vdbe)# <code>commit</code></p>	<p>Saves configuration changes. Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.</p>
Step 6	<p><code>exit</code></p> <p>Example: RP/0/0/CPU0:router(config-sbc-dbe)# <code>exit</code></p>	<p>Exits the DBE mode and returns to the SBC mode.</p>
Step 7	<p><code>show services sbc service-name db</code> <code>vdbe-media-stats vDBE-name</code></p> <p>Example: RP/0/0/CPU0:router(config-sbc)# <code>show services sbc db vdbe-media-stats myVDBE</code></p>	<p>Lists the statistics for a given vDBE, including congestion-related information.</p> <p><i>vDBE-name</i>: The name of the vDBE to query</p>

Additional References

The following sections provide references related to DBE overload in 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: http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

RFCs

RFCs	Title
RFC 3261	<i>SIP: Session Initiation Protocol</i>
RFC 2543	<i>Session Initiation Protocol</i>

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