



Interim Authentication Header Support

An interim authentication header (IAH) is part of every H.248 message generated by the DBE to a resource admission control subsystem (RACS). All its fields are set to zero. DBE accepts any H.248 message sent to it that includes an IAH, but it does not verify any of its content. DBE checks for correct syntax only. This functionality works similarly to the RACS (SBE) behavior, since RACS also only checks that an H.248 message contains an IAH, but does not verify its content.

Feature History for Interim Authentication Header 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:

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Restrictions for Interim Authentication Header Support

- IAH is checked on the receiving message only for correct syntax.
- This feature provides no security support, but lays the groundwork for future security support.

Information About Interim Authentication Header Support

The H.248/Megaco MGC operates over transports secured with IPsec or an IAH, as defined in the H.248/Megaco specifications.

Zero interim header authentication is a Cisco-specified requirement for the SBC implementation of H.248/Megaco and deviates from the standard specification as follows:

- Messages sent over non-IPSec transports have an added Interim AH header, but all fields in this header are explicitly set to zero:
 - SecurityParmIndex is set to 0x00000000
 - SequenceNum is set to 0x00000000
 - AuthData is set to 0x000000000000000000000000
- Messages received over non-IPSec transports should contain an IAH, but this header is not verified for its content. Rather, it is verified for syntactical correctness.
- You cannot enable or disable the level of IAH support at runtime (whether or not validation is actually performed).

**Note**

The transport protocol default setting is UDP.

Configuring Interim Authentication Header Support

This section contains the steps for configuring IAH support. The new `interim-auth-header` keyword is added to the `transport` command to insert the IAH into H.248 messages.

SUMMARY STEPS

1. `configure`
2. `sbc service-name`
3. `db`
4. `vdbe`
5. `controller h248 controller-index`
6. `transport [tcp|udp] interim-auth-header`
7. `commit`
8. `exit`

DETAILED STEPS

	Command or Action	Purpose
Step 1	<code>configure</code> Example: RP/0/0/CPU0:router# <code>configure</code>	Enables the configuration mode.
Step 2	<code>sbc service-name</code> Example: RP/0/0/CPU0:router(config)# <code>sbc mysbc</code>	Enters the mode of an SBC service. Use the <code>service-name</code> argument to define the name of the SBC.

	Command or Action	Purpose
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 Example: RP/0/0/CPU0:router(config-sbc-dbe)# vdbe	Enters a submode to the DBE for configuring virtual (vDBE) parameters.
Step 5	controller h248 controller-index Example: RP/0/0/CPU0:router(config-sbc-dbe-vdbe)# controller h248 1	Enters the submode for configuring an H.248 media gateway controller.
Step 6	transport [udp tcp] interim-auth-header Example: RP/0/0/CPU0:router(config-sbc-dbe-vdbe-h248)# transport tcp interim-auth-header	Configures an H.248 media gateway controller to use a specified transport protocol and inserts an interim authentication header into H.248 messages. Valid protocols: <ul style="list-style-type: none"> • udp—Use UDP as a transport protocol for H.248 signaling • tcp—Use TCP as a transport for H.248 signaling
Step 7	commit Example: RP/0/0/CPU0:router(config-sbc-dbe-vdbe-h248)# commit	Saves the configuration changes. Use the commit command to save the configuration changes to the running configuration file and remain within the configuration session.
Step 8	exit Example: RP/0/0/CPU0:router(config-sbc-dbe-vdbe-h248)# exit	Exits the current configuration mode.

Additional References

The following documentation provides references related to Interim Authentication Header 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	<i>Cisco IOS XR Session Border Controller Command Reference</i>

Related Topic	Document Title
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
H.248.1	<i>Media Gateway Control (Megaco) Protocol Standard, v. 1</i>

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