PAI or PPI Header in Incoming and Outgoing SIP Calls

Prior to the introduction of the PAI or PPI Header in Incoming and Outgoing SIP Calls feature, the P-Asserted-Identity (PAI) or the P-Preferred-Identity (PPI) privacy header was supported for outgoing calls at the global level. The PAI or PPI Header in Incoming and Outgoing SIP Calls feature is an enhancement to support PAI or PPI header for incoming and outgoing calls at the global level and dial-peer configuration mode.

This module describes how to enable support for the PAI or the PPI privacy header in incoming and outgoing Session Initiation Protocol (SIP) requests or response messages.

Finding Feature Information for PAI or PPI Header in Incoming and Outgoing SIP Calls

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the Feature Information for Handling PAI or PPI Header in Incoming and Outgoing SIP Calls, on page 6.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to http://www.cisco.com/go/cfn . An account on Cisco.com is not required.

Contents

Information About PAI or PPI Header in Incoming and Outgoing SIP Calls

PAI or PPI Header Overview

For incoming SIP requests or response messages, when the PAI or PPI privacy header is set, the SIP gateway builds the PAI or PPI header into the common SIP stack, thereby providing support to handle the call data present in the PAI or PPI header. To process the data from the PAI or PPI header of incoming SIP calls, we recommend that you enable the asserted ID for the incoming dial peer.

For outgoing SIP requests or response messages, when the PAI or PPI privacy header is set, privacy information is sent using the PAI or PPI header.

Note   If the PAI or PPI asserted ID is not enabled either in dial-peer configuration mode or at the global level, the call data present in the PAI or PPI header of incoming SIP calls is ignored.

Support for PAI or PPI Header at the Global Level

At the global level, the support for the PAI or PPI header in incoming and outgoing calls is provided using the **asserted-id** command. The **asserted-id** command enables the support for generating the PAI or PPI header, or the Remote-Party-ID (RPID) or FROM header data, to populate outbound calling information.

Support for PAI or PPI Header in Dial-Peer Configuration Mode

In dial-peer configuration mode, the support for the PAI or PPI header in incoming and outgoing calls is provided using the **voice-class sip asserted-id** command. The **voice-class sip asserted-id** command enables the support for generating the PAI or PPI header, or the Remote-Party-ID (RPID) or FROM header data, to populate outbound calling information.

How to Configure PAI or PPI Header in Incoming and Outgoing SIP Calls

Configuring the PAI or PPI Privacy Header at the Global Level

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **voice service voip**
4. **sip**
5. **asserted-id** {**pai** | **ppi**}
6. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**enable** **Example:** `Router> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	**configure terminal** **Example:** `Router# configure terminal`	Enters global configuration mode.
Step 3	**voice service voip** **Example:** `Router(config)# voice service voip`	Enters voice service VoIP configuration mode.
Step 4	**sip** **Example:** `Router(conf-voi-serv)# sip`	Enters voice service VoIP-SIP configuration mode.
Step 5	**asserted-id** {**pai**	**ppi**} **Example:** `Router(conf-serv-sip)# asserted-id pai`	Configures the privacy header for incoming and outgoing SIP requests and response messages. • **pai** --Specifies the PAI type privacy header. • **ppi** --Specifies the PPI type privacy header.

	Command or Action	Purpose
Step 6	**end** **Example:** `Router(conf-serv-sip)# end`	Exits voice service VoIP-SIP configuration mode and returns to privileged EXEC mode.

Configuring the PAI or PPI Privacy Header in Dial-Peer Configuration Mode

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **dial peer voice** *tag*
4. **voice-class sip asserted-id** {**pai** | **ppi** | **system**}
5. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**enable** **Example:** `Router> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	**configure terminal** **Example:** `Router# configure terminal`	Enters global configuration mode.
Step 3	**dial peer voice** *tag* **Example:** `Router(config)# dial peer voice 1`	Enters dial-peer configuration mode.
Step 4	**voice-class sip asserted-id** {**pai**	**ppi**	**system**} **Example:** `Router(config-dial-peer)# voice-class sip asserted-id pai`	Configures the privacy header for incoming and outgoing SIP requests and response messages. • **pai** --Specifies the PAI type privacy header. • **ppi** --Specifies the PPI type privacy header. • **system** --Uses the global-level configuration settings to configure the dial peer.
Step 5	**end** **Example:**	Exits dial-peer configuration mode and returns to privileged EXEC mode.

Command or Action	Purpose
`Router(config-dial-peer)# end`	

Configuration Examples for PAI or PPI Header in Incoming and Outgoing SIP Calls

Example Configuring the PAI or PPI Privacy Header at the Global Level

The following example shows how to enable support for the PAI privacy header:

```
Router> enable
Router# configure terminal
Router(config)# voice service voip
Router(conf-voi-serv)# sip
Router(conf-serv-sip)# asserted-id pai
```

Example Configuring the PAI or PPI Privacy Header in Dial-Peer Configuration Mode

The following example shows how to enable support for the PPI header:

```
Router> enable
Router# configure terminal
Router(config)# dial peer voice 1
Router(conf-voi-serv)# voice-class sip asserted-id ppi
```

Additional References

Related Documents

Related Topic	Document Title
Cisco IOS commands	Cisco IOS Master Commands List, All Releases
Cisco IOS Voice commands	Cisco IOS Voice Command Reference
Cisco IOS Voice Configuration Library	For more information about Cisco IOS voice features, including feature documents, and troubleshooting information: http://www.cisco.com/en/US/docs/ios/12_3/vvf_c/ cisco_ios_voice_configuration_library_glossary/vcl.htm

Standards

Standard	Title
None	--

MIBs

MIB	MIBs Link
None	--

RFCs

RFC	Title
None	--

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for Handling PAI or PPI Header in Incoming and Outgoing SIP Calls

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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Table 1: Feature Information for PAI or PPI Header in Incoming and Outgoing SIP Calls

Feature Name	Releases	Feature Information
PAI or PPI Header in Incoming and Outgoing SIP Calls	12.4(24)T 15.1(3)T	Prior to the introduction of the PAI or PPI Header in Incoming and Outgoing SIP Calls feature, the PAI or the PPI privacy header was supported for outgoing calls at global level. The PAI or PPI Header in Incoming and Outgoing SIP Calls feature is an enhancement to support the PAI or the PPI privacy header for incoming and outgoing calls at the global level and dial-peer configuration mode. The following commands were introduced or modified: **asserted-id**, **voice-class sip asserted-id**.