



Cisco UBE RTCP Voice Pass-Through for IPv6

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and 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 table at the end of this module.

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

Information About Cisco UBE RTCP Voice Pass-Through for IPv6

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Cisco Unified Border Element in VoIPv6

The Cisco Unified Border Element (UBE) feature adds IPv6 capability to existing VoIP features. This feature adds dual-stack support on voice gateways and MTP, IPv6 support for SIP trunks, and support for SCCP-controlled analog voice gateways. Real-time control protocol (RTCP) pass-through and T.38 fax over IPv6 have also been added to Cisco UBE.



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RTCP Pass-Through

IPv4 and IPv6 addresses embedded within RTCP packets (for example, RTCP CNAME) are passed on to Cisco UBE without being masked. These addresses are masked on the Cisco UBE ASR 1000.

The Cisco UBE ASR 1000 does not support printing of RTCP debugs.

RTCP is passed through by default. No configuration is required for RTCP pass-through.

How to Configure Cisco UBE RTCP Voice Pass-Through for IPv6

- [Configuring IPv6 Support for Cisco UBE, page 2](#)

Configuring IPv6 Support for Cisco UBE

Perform this task to configure IPv6 support for Cisco UBE.

**Note**

In Cisco UBE, IPv4-only and IPv6-only modes are not supported when endpoints are dual-stack. In this case, Cisco UBE must also be configured in dual-stack mode.

>

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **sip-ua**
4. **protocol mode {ipv4 | ipv6 | dual-stack preference {ipv4 | ipv6}}**
5. **end**

DETAILED STEPS

Command or Action	Purpose
Step 1 enable	Enables privileged EXEC mode.
Example: Router> enable	• Enter your password if prompted.

Command or Action	Purpose
Step 2 configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3 sip-ua Example: Router(config)# sip-ua	Enters SIP user-agent configuration mode.
Step 4 protocol mode {ipv4 ipv6 dual-stack preference {ipv4 ipv6}} Example: Router(config-sip-ua)# protocol mode ipv6	Configures the Cisco IOS SIP stack. • protocol mode dual-stack preference {ipv4 ipv6}--Sets the IP preference when the anat command is configured. • protocol mode {ipv4 ipv6}--Passes the IPv4 or IPv6 address in the SIP invite. • protocol mode dual-stack --Passes both the IPv4 addresses and the IPv6 addresses in the SIP invite and sets priority based on the far-end IP address.
Step 5 end Example: Router(config-sip-ua)# end	Exits SIP user-agent configuration mode.

Configuration Examples for Cisco UBE RTCP Voice Pass-Through for IPv6

- [Example: Verifying RTCP Pass-Through, page 3](#)

Example: Verifying RTCP Pass-Through

```
Router# debug voip rtcp packets
```

```
*Feb 14 06:24:58.799: //1/xxxxxxxxxxx/RTP//Packet/voip_remote_rtcp_packet: Received RTCP
packet
*Feb 14 06:24:58.799: (src ip=2001:DB8:C18:5:21B:D4FF:FEDD:35F0, src port=17699,
dst ip=2001:DB8:C18:5:21D:A2FF:FE72:4D00, dst port=17103)
*Feb 14 06:24:58.799: SR: ssrc=0x1F7A35F0 sr_ntp_h=0xD10346B4 sr_ntp_l=0x13173D8
F sr_timestamp=0x0 sr_npackets=381 sr_nbytes=62176
*Feb 14 06:24:58.799: RR: ssrc=0x1A1752F0 rr_loss=0x0 rr_ehsr=5748 rr_jitter=0 r
r_lsr=0x0 rr_dlsr=0x0
*Feb 14 06:24:58.799: SDES: ssrc=0x1F7A35F0 name=1 len=39 data=0.0.0@2001:DB8:C1
8:5:21B:D4FF:FEDD:35F0
*Feb 14 06:24:58.799: //2/xxxxxxxxxxx/RTP//Packet/voip_remote_rtcp_packet: Send
```

```

ing RTCP packet
*Feb 14 06:24:58.799: (src ip=2001:DB8:C18:5:21D:A2FF:FE72:4D00, src port=23798,
dst ip=2001:DB8:C18:5:21B:D4FF:FED7:52F0, dst port=19416)
*Feb 14 06:24:58.799: SR: ssrc=0x0 sr_ntp_h=0xD10346B4 sr_ntp_l=0x13173D8F sr_ti
mestamp=0x0 sr_npackets=381 sr_nbytes=62176
*Feb 14 06:24:58.799: RR: ssrc=0x1A1752F0 rr_loss=0x0 rr_ehsr=5748 rr_jitter=0 r
r_lsr=0x0 rr_dlsr=0x0
*Feb 14 06:24:58.799: SDES: ssrc=0x1F7A35F0 name=1 len=39 data=0.0.0@2001:DB8:C1
8:5:21B:D4FF:FEDD:35F0
*Feb 14 06:24:58.919:

```

Additional References

Related Documents

Related Topic	Document Title
IPv6 addressing and connectivity	<i>IPv6 Configuration Guide</i>
Cisco IOS commands	Master Commands List, All Releases
IPv6 commands	IPv6 Command Reference
Cisco IOS IPv6 features	IPv6 Feature Mapping

Standards and RFCs

Standard/RFC	Title
RFCs for IPv6	IPv6 RFCs

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 Cisco UBE RTCP Voice Pass-Through for IPv6

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.

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

Table 1 **Feature Information for Cisco UBE RTCP Voice Pass-Through for IPv6**

Feature Name	Releases	Feature Information
Cisco UBE RTCP Voice Pass-Through for IPv6	15.2(1)T	IPv6 supports this feature.

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