



CHAPTER 6

Gateways

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Gateways provide a number of methods for connecting an IP telephony network to the public switched telephone network (PSTN), legacy PBX systems, key systems, or analogue devices. Gateways range from specialized, entry-level and standalone voice gateways to high-end, feature-rich integrated routers and Cisco Catalyst gateways. For general guidance on gateway selection and features, refer to the *Cisco Unified Communications Solution Reference Network Design (SRND)*, available at <http://www.cisco.com/go/ucsrnd>.

This section describes the Cisco voice gateways and interfaces that support IPv6. For gateway configuration examples, see:

- [Configuring Cisco Integrated Services Routers, page B-1](#)
- [Configuring Cisco VG224 Analog Voice Gateway, page C-1](#)
- [Configuring Cisco IOS Gateways, page D-1](#)

The following sections describe the IPv6-capable interfaces and features supported by various types of Cisco voice gateways. All other gateways not listed here support IPv4 only.

Connections that use H.323 and MGCP signaling protocols between Unified CM and the gateway support IPv4 only.

Cisco 2800 and 3800 Series Integrated Services Routers

Cisco 2800 and 3800 Series Integrated Services Routers (ISRs) support the following features:

- TDM connections using SIP trunk signaling to Cisco Unified Communications Manager (Unified CM)
- FXS Analogue port connections using Skinny Client Control Protocol (SCCP) signaling to Unified CM
- Software and hardware media termination points (MTPs) for conversion between IPv4 and IPv6 using SCCP signaling to Unified CM

You can combine TDM, analogue port, and MTP functionality on a single Cisco Integrated Services Router (ISR) platform.

Cisco 2800 and 3800 Series Integrated Services Routers support the above IPv6 functionality in Cisco IOS Release 12.4(22)T.

The appendix on [Configuring Cisco Integrated Services Routers, page B-1](#), contains Cisco ISR configurations for:

- An IPv6 SIP trunk (Note that Cisco TDM gateways support SIP Early Offer only.)
- SCCP-controlled IPv6 FXS ports
- Software MTPs

Cisco AS5400 Series Universal Gateway

Cisco AS5400 Series Universal Gateways support high-density TDM connections using SIP trunk signaling to Unified CM. Cisco AS5400 Series Universal Gateways support this IPv6 functionality in Cisco IOS Release 12.4(22)T.

Cisco VG224 Analog Voice Gateway

Cisco VG224 Analog Voice Gateways support up to 24 FXS ports using SCCP signaling to Unified CM. Cisco VG224 Analog Voice Gateways support this IPv6 functionality in Cisco IOS Release 12.4(22)T.

The appendix on [Configuring Cisco VG224 Analog Voice Gateway, page C-1](#), contains a configuration example for the Cisco VG224 Analog Voice Gateway.

Fax and Modem Support

Fax pass-through and fax relay over IPv6 are supported on SCCP-controlled FXS ports of Cisco Integrated Services Routers and VG224 Analog Voice Gateways.

Modem pass-through and modem relay over IPv6 are supported on SCCP-controlled FXS ports of Cisco Integrated Services Routers and VG224 Analog Voice Gateways.