

# Configuring Voice over IP for the Cisco 3600 Series

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This chapter shows you how to configure Voice over IP (VoIP) on the Cisco 3600 series. For a description of the commands used to configure Voice over IP, refer to the “Voice-Related Commands” chapter in the *Voice, Video, and Mobile Applications Command Reference*.

VoIP enables a Cisco 3600 series router to carry voice traffic (for example, telephone calls and faxes) over an IP network. Voice over IP is primarily a software feature; however, to use this feature on a Cisco 3600 series router, you must install a voice network module (VNM). The VNM can hold either two or four voice interface cards (VICs), each of which is specific to a particular signaling type associated with a voice port. For more information about the physical characteristics, installing or configuring a VNM in your Cisco 3600 series router, refer to the *Voice Network Module and Voice Interface Card Configuration Note* that came with your VNM.

Voice over IP offers the following benefits:

- Toll bypass
- Remote PBX presence over WANs
- Unified voice/data networking
- POTS–Internet telephony gateways

## How Voice over IP Processes a Telephone Call

Before configuring Voice over IP on your Cisco 3600 series router, it helps to understand what happens at an application level when you place a call using Voice over IP. The general flow of a two-party voice call using Voice over IP is as follows:

- 1 The user picks up the handset; this signals an off-hook condition to the signaling application part of Voice over IP in the Cisco 3600 series router.
- 2 The session application part of Voice over IP issues a dial tone and waits for the user to dial a telephone number.
- 3 The user dials the telephone number; those numbers are accumulated and stored by the session application.
- 4 After enough digits are accumulated to match a configured destination pattern, the telephone number is mapped to an IP host via the dial plan mapper. The IP host has a direct connection to either the destination telephone number or a PBX that is responsible for completing the call to the configured destination pattern.

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**Andrew G. Mason, Mark J. Newcomb**



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Currently Andrew is leading a project to design and implement the most secure ISP network in Europe Andrew holds the Cisco CCNP and CCDP certifications

Mark Newcomb is currently a consulting engineer at Aurora Consulting Group in Spokane Washington Mark holds CCNP and CCDP certifications Mark has 4 years experience working with network security issues and a total of over 20 years experience within the networking industry Mark is a frequent contributor and reviewer for books by Cisco Press McGraw Hill Coriolis New Riders and Macmillan Technical Publishing

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