

# Configuring Microsoft NetMeeting with Cisco IOS Gateways

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## Introduction

### Prerequisites

Requirements

Components Used

Conventions

### Configuring Microsoft NetMeeting for VoIP

Network Diagram

Step-by-Step Instructions

Configuring the Gateway

### Verify

### Troubleshoot

### Initiating a Call Using Microsoft NetMeeting

### NetPro Discussion Forums – Featured Conversations

### Related Information

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## Introduction

Microsoft NetMeeting is a Windows-based application that enables multi-user interaction and collaboration from a single PC over the Internet or an intranet. Clients or gateways can connect directly with one another, if the destination IP address of the other client or gateway is reachable.

## Prerequisites

### Requirements

There are no specific requirements for this document.

### Components Used

The information in this document is based on these software and hardware versions:

- Cisco AS5300 with T1 PRI Controller Card
- Cisco IOS® Software Release 12.1 and later with IP Plus
- Microsoft NetMeeting Version 3.01

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

### Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions .

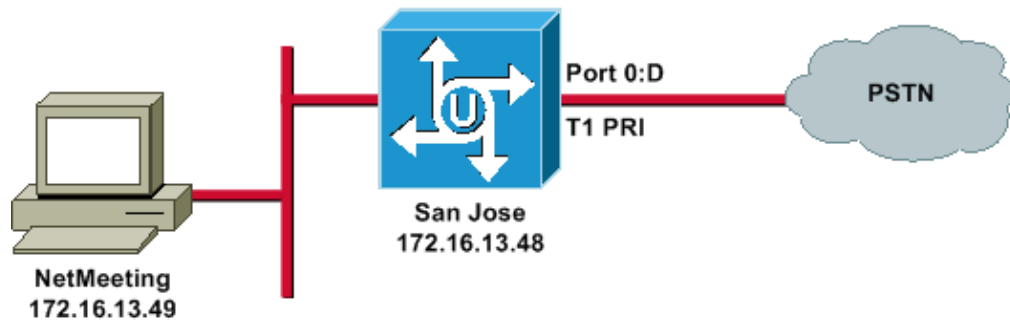
# Configuring Microsoft NetMeeting for VoIP

In this section, you are presented with the information to configure the features described in this document.

**Note:** To find additional information on the commands used in this document, use the Command Lookup Tool (registered customers only).

## Network Diagram

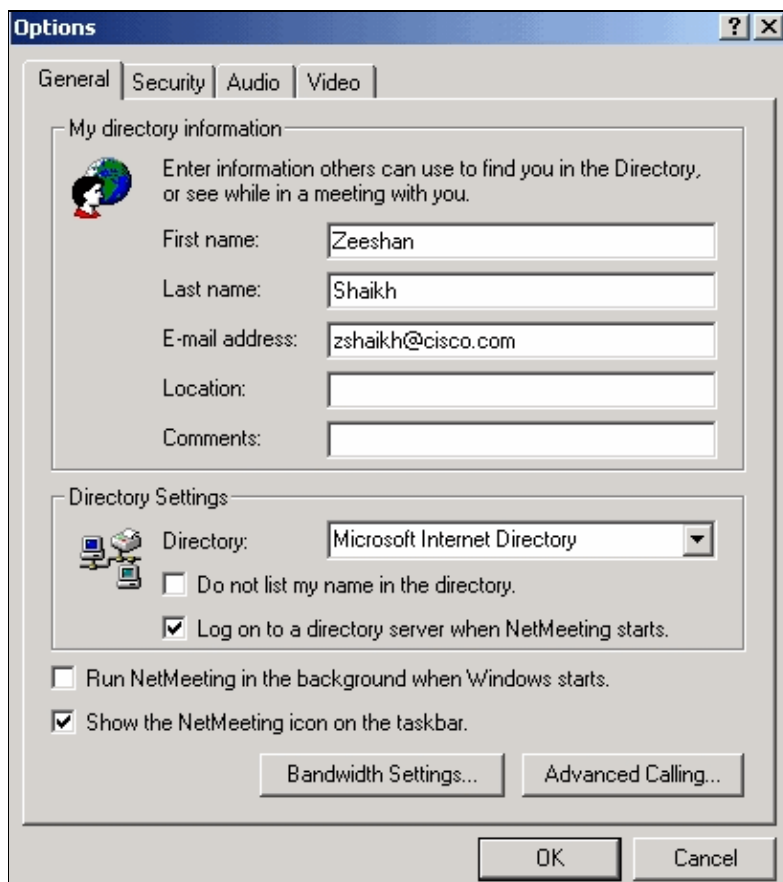
This document uses this network setup:



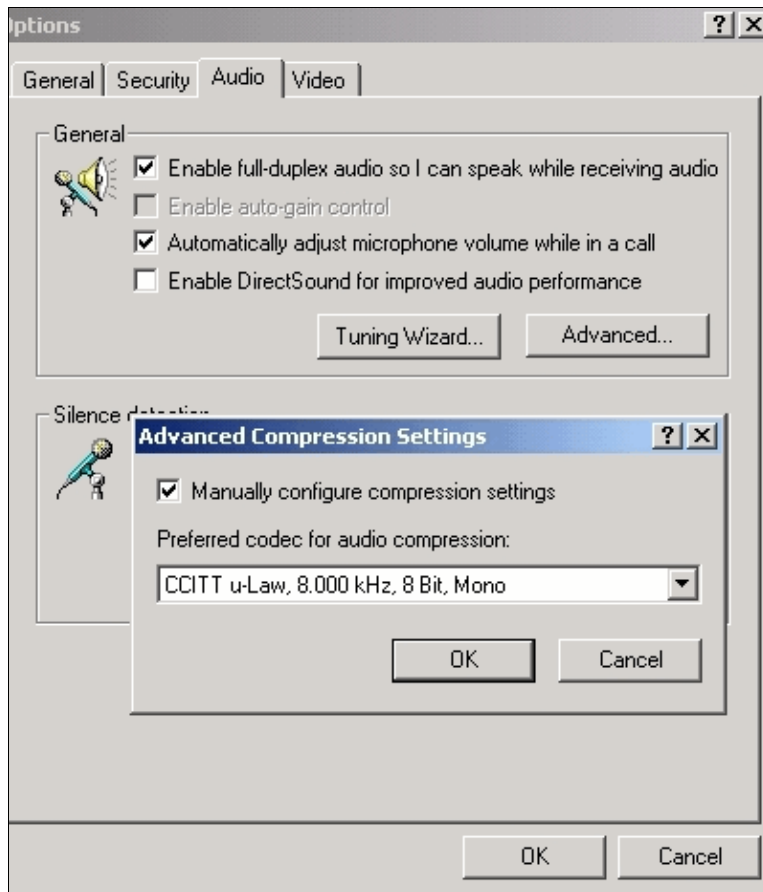
## Step-by-Step Instructions

To configure Microsoft NetMeeting to work with the VoIP gateway, use this procedure:

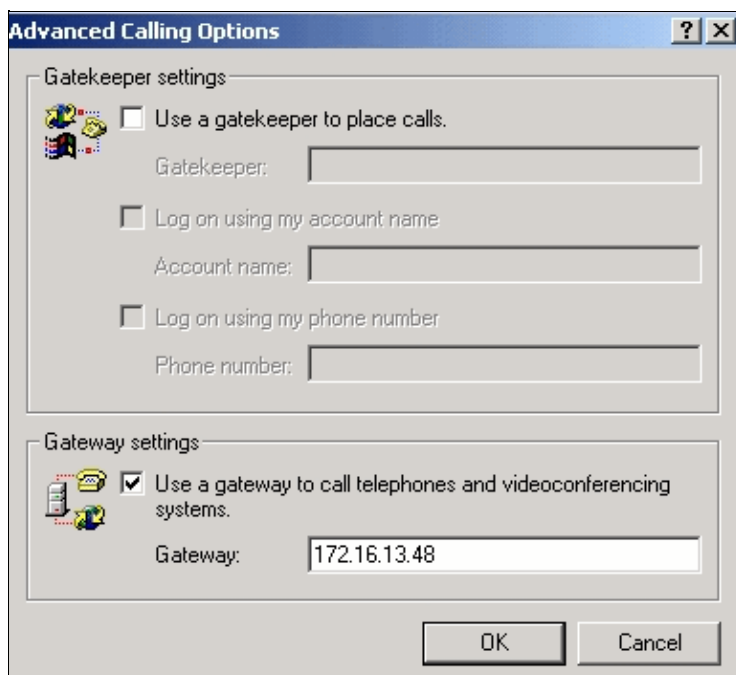
1. Open Microsoft NetMeeting and choose **Tools > Options**.
2. Click the **General** tab and enter your First name, Last name, and E-mail address.



3. On the Audio tab, click **Advanced**.
4. Check **Manually configure compression settings** and select **CCITT u-Law, 8.000kHz, 8 Bit, Mono** from the Preferred codec for audio compression drop-down list. Click **OK** on both dialog boxes.



5. From the NetMeeting Tools menu, choose **Options > General > Advance calling**.
6. In the Gateway settings area, check **Use a gateway to call telephones and videoconferencing systems** and enter **172.16.13.48** in the Gateway field.



## Configuring the Gateway

To configure VoIP to support Microsoft NetMeeting, create a VoIP peer that contains this information:

- **Session Target** IP address or Domain Name System (DNS) name of the PC that is running NetMeeting
- **CODEC** g711ulaw, g711alaw, or g723r63

## Verify

This section provides information that you can use to confirm whether your configuration is working properly.

Certain **show** commands are supported by the Output Interpreter Tool ( registered customers only) , which allows you to view an analysis of **show** command output.

- **show run** Issue this command to verify the source IP address of the gateway.

```
AS5300 (San Jose)
zshaikh# show run
Building configuration...

Current configuration:

!
version 12.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
service internal
!
hostname zshaikh
enable password cisco
!
username 3006 password 0 1234

isdn switch-type primary-ni
interface Ethernet0
 ip address 172.16.13.48 255.255.255.224
 no ip route-cache
 no ip mroute-cache
!
interface Serial0:23
 no ip address
 isdn switch-type primary-ni
 isdn incoming-voice modem
 no cdp enable
!
controller T1 0
 framing esf
 clock source line primary
```

```

linecode b8zs
pri-group timeslots 1-24
!

controller T1 1
clock source internal

!

voice service voip

!--- Enters voice service configuration mode and specifies a voice encapsulation
!--- type as VoIP encapsulation. Voice service configuration mode is used for
!--- packet Telephony service commands that affect the gateway globally.

h323

!--- Used to enable the H.323 voice service configuration commands.

h245 caps mode restricted

!--- The h245 caps mode restricted prevents Dual Tone Multifrequency (DTMF)
!--- Named Telephone Events (NTEs) as well as T.38 capability indication in the
!--- H.245 Terminal Capability Set packet. When these options are present, it
!--- can prevent the H.245 negotiation from completing with some devices,
!--- specifically with NetMeeting. Without the h245 caps mode restricted
!--- command, calls in either direction will fail.

h245 tunnel disable

!--- By default, H.245 tunneling is enabled. This H.323 feature allows any H.245
!--- message to use the existing H.225 TCP session instead of bringing up a
!--- second TCP session for H.245. Issue the h245 tunnel disable command to
!--- disable this feature.

dial-peer voice 1 voip

!--- Configure Microsoft NetMeeting for Voice over IP.

destination-pattern 1000
codec g711ulaw

!--- CODEC: g711ulaw, g711alaw, or g723r63

session target ipv4:172.16.13.49

!--- Session Target: IP address or DNS name of the PC that is running NetMeeting

!

dial-peer voice 2 pots

destination-pattern .T

direct-inward-dial

port 0:D

```

## Troubleshoot

For troubleshooting information, refer to Troubleshooting ISDN Call Failures Originated from NetMeeting or Similar 3rd Party H.323 Devices.

**Note:** If you are running Cisco IOS Software Release 12.2(11)T, and H.323 version 4 is running on your router, then you may experience trouble with NetMeeting. Refer to Cisco bug ID CSCdw49975 ( registered customers only) .

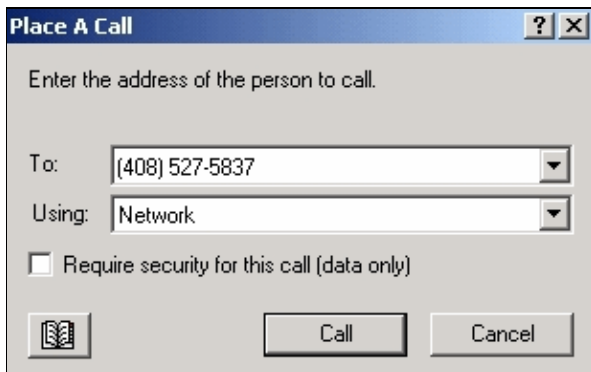
## Initiating a Call Using Microsoft NetMeeting

To initiate a call with Microsoft NetMeeting, use this procedure:

1. In the Microsoft NetMeeting application, click the Call icon (telephone) to open the NetMeeting call dialog box.



2. In the NetMeeting call dialog box, choose **Call > H.323 gateway**.
3. In the **Place A Call** dialog box, enter the telephone number in the To field and click **Call** to initiate a call to the Cisco AS5300 series router from Microsoft NetMeeting.



## NetPro Discussion Forums – Featured Conversations

Networking Professionals Connection is a forum for networking professionals to share questions, suggestions, and information about networking solutions, products, and technologies. The featured links are some of the most recent conversations available in this technology.

NetPro Discussion Forums – Featured Conversations for Voice
Service Providers: Voice over IP
Voice & Video: Voice over IP
Voice & Video: IP Telephony

Voice & Video: IP Phone Services for End Users
Voice & Video: Unified Communications
Voice & Video: IP Phone Services for Developers
Voice & Video: General

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## Related Information

- **Understanding Dial Peers and Call Legs on Cisco IOS Platforms**
  - **Understanding Inbound and Outbound Dial Peers on Cisco IOS Platforms**
  - **Understanding Direct-Inward-Dial (DID) on IOS Voice Digital (T1/E1) Interfaces**
  - **Distinguishing Modem and Voice Calls on Cisco AS5xxx Gateways**
  - **Voice Technology Support**
  - **Voice and Unified Communications Product Support**
  - **Recommended Reading: Troubleshooting Cisco IP Telephony**
  - **Technical Support & Documentation – Cisco Systems**
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