

# Configuring Microsoft NetMeeting with Cisco IOS Gateways

Document ID: 22384

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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 .

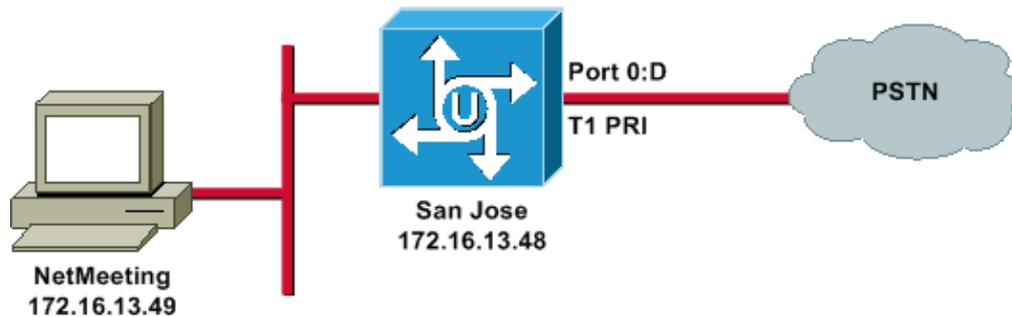
# Configuring Microsoft NetMeeting for VoIP

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

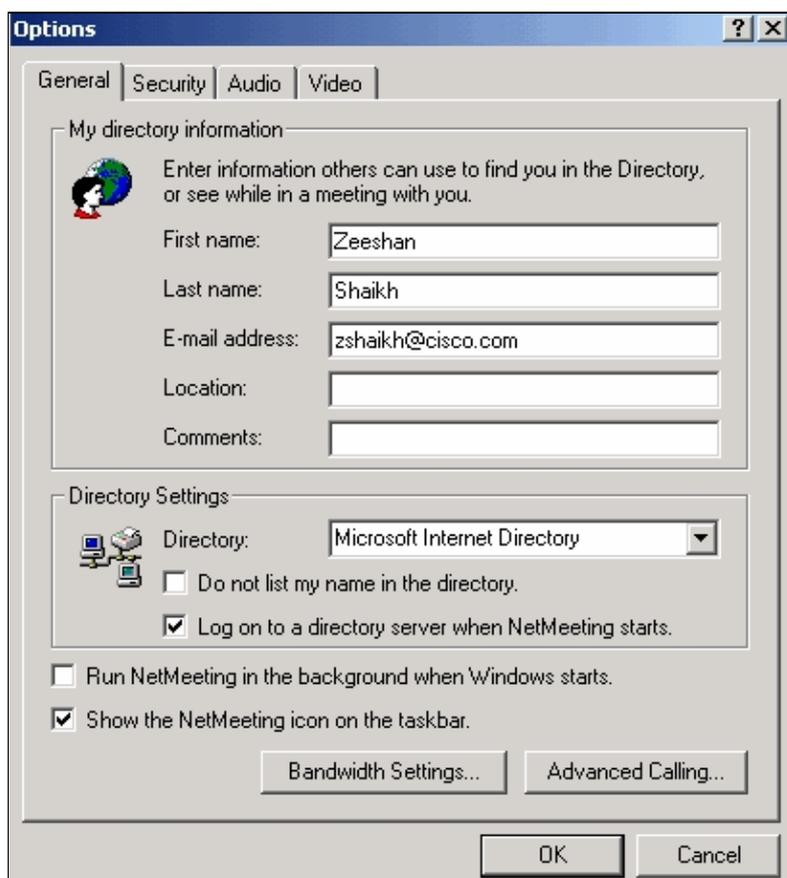
This document uses this network setup:



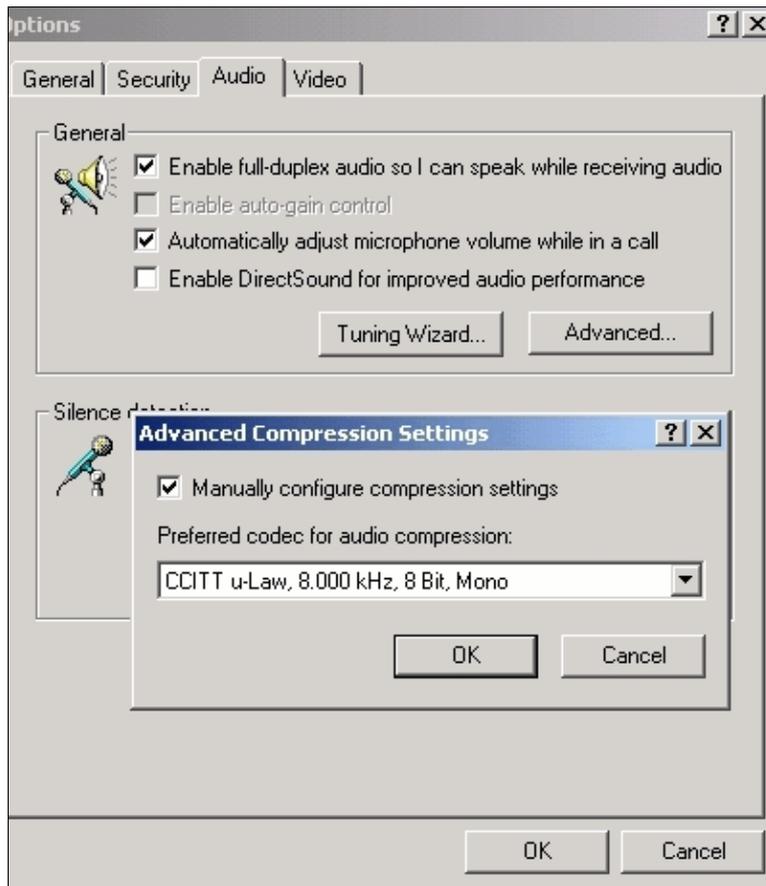
## Step-by-Step Instructions

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

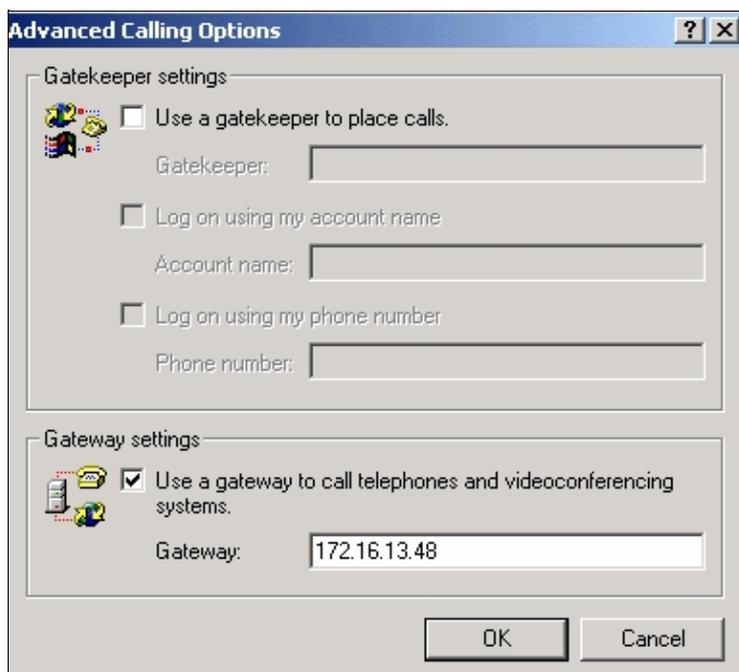
1. Open Microsoft NetMeeting and choose **Tools > Options**.
2. Click the **General** tab and enter your First name, Last name, and E-mail address.



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)
<pre>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</pre>

```

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) .

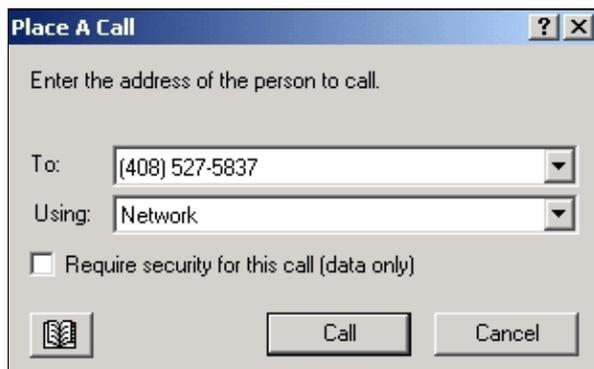
## Initiating a Call Using Microsoft NetMeeting

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.



## 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](#)
  - [Troubleshooting Cisco IP Telephony](#)
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Updated: Feb 02, 2006

Document ID: 22384

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