

Configuring Cisco IP Phones to Make Use of Local DSP Resources

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Introduction

There are quite a few deployments with Cisco CallManager servers located at a central site and several remote sites that have IP phones. In some scenarios, there are transcoders, conference bridges and other resources deployed at both central and remote sites. This document describes the steps needed to enable the remote phones to make use of local DSP resources.

Prerequisites

Requirements

Readers of this document should be knowledgeable of the following:

- General familiarity with Cisco CallManager configuration (especially Media Resource Group and lists)

Components Used

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

- Cisco CallManager version 3.1.2c

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, see the Cisco Technical Tips Conventions.

Configuration Steps

Follow the instructions provided below:

1. Create the Media Resource Group for the remote site. In the Cisco CallManager Administration page, click **Service > Media Resource Group**. Give a name to the Media Resource Group and assign the

remotely located devices (such as conference bridges, transcoders, or MOH servers) to it.

The screenshot shows the 'Media Resource Group Configuration' page in Cisco CallManager Administration. The page title is 'Media Resource Group Configuration'. On the left, there is a navigation menu with 'Media Resource Groups' selected. The main content area is titled 'Media Resource Group: New' and shows 'Status: Ready'. There are 'Insert' and 'Cancel Changes' buttons. Below this is the 'Media Resource Group Information' section with two text input fields: 'Media Resource Group Name*' containing 'Remote' and 'Description' containing 'Remote'. The 'Devices for this Group' section has two list boxes. The 'Available Media Resources' list box contains 'MDH_NMIRASHI-AV (MDH)' and 'MTP_NMIRASHI-AV (MTP)'. The 'Selected Media Resources*' list box contains 'CFB_NMIRASHI-AV (CFB)'. There are up and down arrow buttons between the two list boxes.

2. Create a Media Resource Group List. Go to **Service > Media Resource Group List** and assign the Media Resource group to it.

The screenshot shows the 'Media Resource Group List Configuration' page in Cisco CallManager Administration. The page title is 'Media Resource Group List Configuration'. On the left, there is a navigation menu with 'Media Resource Group Lists' selected. The main content area is titled 'Media Resource Group List: New' and shows 'Status: Ready'. There are 'Insert' and 'Cancel Changes' buttons. Below this is the 'Media Resource Group List Information' section with one text input field: 'Media Resource Group List Name*' containing 'Remotemedielist'. The 'Media Resource Groups for this List' section has two list boxes. The 'Available Media Resource Groups' list box is empty. The 'Selected Media Resource Groups*' list box contains 'Remote'. There are up and down arrow buttons between the two list boxes. Below the list boxes, there is a note: '(Groups listed in order of priority)' and a legend: '* indicates required item'.

3. Repeat steps 1 and 2 to create multiple media resource groups and lists if needed. Assign the Media Resource Group list to the remote phones.

Phone Configuration (Model = Cisco 7960)	
Device Information	
MAC Address*	003094C3799A
Description	Auto 4001
Device Pool*	Default
Calling Search Space	< None >
Media Resource Group List	Remotemedialist
User Hold Audio Source	< None >
Network Hold Audio Source	< None >

With this configuration, the phones at remote sites will first attempt to find the resource within the first media resource group in the list. If nothing is available, they will attempt to find the resource within the next media resource group (if one is configured) in the media resource group list. If no resource is available within any group in the list, only then will the resource within the default group be used. This enables the remote phones to prefer local resources over central resources and save bandwidth.

Related Information

- [Voice Technology Support](#)
- [Voice and IP Communications Product Support](#)
- [Recommended Reading: Troubleshooting Cisco IP Telephony](#)
- [Technical Support – Cisco Systems](#)

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