



*Mitel 3300 ICP  
Configuration Guide  
for the  
VoIP Ceiling Speaker*

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MITEL

# Technical | Release Notes

## How-To-Guide Configure the Mitel 3300 ICP for use with the Cyberdata VOIP Indoor Paging Speaker



## **About this document**

This How-To-Guide is intended for Customer Service and Installation Personnel involved in the installation and maintenance of Mitel 3300 ICPs.

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# How-To-Guide configure the Mitel 3300 ICP for use with the Cyberdata VOIP Indoor Paging Speaker

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## Table of Contents

<b>Overview .....</b>	<b>4</b>
<b>Software &amp; Hardware Setup .....</b>	<b>4</b>
<b>Device Limitations .....</b>	<b>4</b>
<b>3300 Setup Notes .....</b>	<b>5</b>
<b>Network Requirements .....</b>	<b>5</b>
<b>Assumptions for the 3300 ICP programming .....</b>	<b>5</b>
<b>Licensing and Option Selection - SIP Licensing .....</b>	<b>6</b>
<b>Multiline IP Set Configuration .....</b>	<b>7</b>
<b>Class of Service Assignment .....</b>	<b>8</b>
<b>SIP Device Capabilities Assignment .....</b>	<b>10</b>
<b>Station Service Assignment .....</b>	<b>11</b>
<b>Multiline Set Key Assignment .....</b>	<b>12</b>
<b>Cyberdata Speaker Setup Notes .....</b>	<b>13</b>

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## Overview

This document provides a reference to Mitel Authorized Solutions providers for configuring the Mitel 3300 ICP to host the Cyberdata VOIP Indoor Paging Speaker SIP device. The different devices can be configured in various configurations depending on your VoIP solution. This document covers a basic setup with required option setup.

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## Software & Hardware Setup

This was the test setup to generate a basic SIP call between the Cyberdata VOIP Indoor Paging Speaker SIP device and the 3300 ICP.

Manufacturer	Variant	Software Version
Mitel	3300 ICP – Mx platform	9.0.1.17
Cyberdata	VOIP Indoor Paging Speaker (Model 010844)	Kernel V4.00 App V4.02

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## Device Limitations

This is a list of problems or not supported features when the Cyberdata VOIP Indoor Paging Speaker SIP device is connected to the Mitel 3300.

Feature	Problem Description
Call Hold and Retieve	Any feature that requires the Cyberdata speaker to be placed on hold while in a call with a SIP phone will fail when retrieved. Such features include transfers and conference.
Deregister	There is an Unregister on Reboot option in the Web interface of the Cyberdata Speaker but it does not work properly and the set does not Unregister on reboot.

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## 3300 Setup Notes

The following steps show how to program a 3300 ICP to connect with the Cyberdata VOIP Indoor Paging Speaker SIP device.

### Network Requirements


- There must be adequate bandwidth to support the voice over IP. As a guide, the Ethernet bandwidth is approx 85 Kb/s per G.711 voice session and 29 Kb/s per G.729 voice session (assumes 20ms packetization). As an example, for 20 simultaneous SIP sessions, the Ethernet bandwidth consumption will be approx 1.7 Mb/s for G.711 and 0.6Mb/s. Almost all Enterprise LAN networks can support this level of traffic without any special engineering. Please refer to the 3300 Engineering guidelines for further information.
- For high quality voice, the network connectivity must support a voice-quality grade of service (packet loss <1%, jitter < 30ms, one-way delay < 80ms).

### Assumptions for the 3300 ICP programming

- The SIP signaling connection uses UDP on Port 5060.

## Licensing and Option Selection - SIP Licensing

Ensure that the 3300 ICP is equipped with enough SIP Device licences for the connection of SIP end points. This can be verified within the License and Option Selection form.

 License and Option Selection

Online Licensing with the Application Management Center

Application Record ID: \_\_\_\_\_

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**Purchased Options**

IP User Licenses:	30
ACD Agent Licenses:	5
IP Device Licenses:	30
Mailbox Licenses:	20
Digital Link Licenses:	2
Compression Licenses:	8
SIP Trunk Licenses:	12
Analog Line Licenses:	16
SIP User Licenses:	30
XNET Networking:	Yes
IP Networking:	Yes
Voice Mail Networking:	Yes
Advanced Voice Mail:	Yes
Voice Mail Hospitality/PMS:	Yes
Tenanting:	Yes
MLPP:	No
Remote Management:	No
Hardware Identifier:	
Password:	*****

**Configuration Options**

Country:	North America
Networking Option:	No
Mitai/Tapi Computer Integration:	Yes
Extended Agent Skill Group:	No
Maximum Elements per Cluster:	30
Maximum Configurable IP Devices:	700
Extended Hunt Group:	No

Figure 1 – License and Option Selection



## Multiline IP Set Configuration

On the Mitel 3300 ICP, a SIP device can be programmed either in the User Configuration form or the Multiline IP Set Configuration form and are programmed as a “Generic SIP Phone”. Enterprise Manager can also be used to provision where this application is installed.

The Login PIN is the SIP authentication password and the username is the DN. The Number and Login PIN must match the information in the Cyberdata VOIP Indoor Paging Speaker SIP device configuration. All other field names should be programmed according to the site requirements or left at default.

Range Programming -- Webpage Dialog

https://172.16.1.2/uwi/range\_programming/uwi\_RPWizardFS.asp?ApplicationID=GenericForms&FunctionID=

### Add Range Programming - Multiline IP Set Configuration

This form allows you to add one or more records.

1. Enter the number of records to add:

2. Define the Add Range Programming Pattern:

Field Name	Value to Add	Increment by
Device Id:		-
Hot Desk User:	<input checked="" type="radio"/> No <input type="radio"/> Yes	-
Device Type:	Generic SIP Phone	-
Auxiliary Module:	None	-
Number:	5223	
Login PIN:	••••	-
Confirm Login PIN:	••••	-
ACD Enabled:	<input checked="" type="radio"/> No <input type="radio"/> Yes	-
Line Type:	Not Assigned	-
Interconnect Number:	1	
Language:		-
Max Call History Records:	0	
MAC Address:		-
Tenant Number:	1	
Lock Default Configuration:	<input checked="" type="radio"/> No <input type="radio"/> Yes	-

Preview Save Cancel

https://172.16.1.2/uwi/range\_programming/uwi\_RPWizardFS.asp?ApplicationID=Ge Internet

Figure 2 – Multiline IP Set Configuration

## Class of Service Assignment

The Class of Service Options Assignment form is used to create or edit a Class of Service and specify its options. Classes of Service, identified by Class of Service numbers, are referenced by the Station Service Assignment form for the SIP devices. Ensure Public Access via DPNSS is enabled.

The figure displays four screenshots of the 'Class of Service Options Assignment' web page dialog, arranged in a 2x2 grid. Each screenshot shows a list of configuration options with radio buttons for 'No' and 'Yes'.

**Top-Left Screenshot:** Shows the 'Class of Service Number' set to '10' and the 'Comment' field containing 'gpon'. The 'Account Code Verified' option is selected 'No'. Other options include 'ACD Make Busy on Login', 'ACD Silent Monitor Accept', 'ACD Silent Monitor Allowed', 'ACD Silent Monitor Notification', 'Allow Directed Call Pickup Of Attendant Call', 'ANI/DNIS/ISDN Number Delivery Trunk', 'Auto Answer Allowed', 'Brokers Call', 'Busy Override Security', 'Call Announce Line', 'Call Forwarding Accept', 'Call Forwarding (External Destination)', 'Call Forwarding (Internal Destination)', 'Call Forward Override', 'Call Forwarding Reminder Ring (CFFM and CFIAM only)', 'Call Hold', 'Call Hold Remote Retrieve', 'Call Hold - Retrieve with Hold Key', 'Call Park-Allowed To Park', 'Call Pickup Dialed Accept', 'Call Pickup Directed Accept', 'Call Privacy', 'Call Reroute after CFFM to Busy Destination', 'Call Waiting Swap', and 'Called Party Features Override'.

**Top-Right Screenshot:** Continues the list of options from the top-left. Options include 'Call Privacy', 'Call Reroute after CFFM to Busy Destination', 'Call Waiting Swap', 'Called Party Features Override', 'Calling Name Display - Internal - ONS', 'Calling Number Display - Internal - ONS', 'Calling Party Name Substitution', 'Campan Tone Security / FAX Machine', 'Check COR after PSTN Dial Tone', 'Clear All Features Remote', 'Conference Call', 'COV/ONS/E&M Voice Mail Port', 'DASS II OLU/TLI Provided', 'Dialled Night Service', 'Disable Call Reroute Chaining On Diversion', 'Disable Conference Join Tone', 'Disable Executive Busy Override Tone', 'Disable Send Message', 'Display ANI/ISDN Calling Number Only', 'Display ANI/DNIS/ISDN Calling/Called Number', 'Display Caller ID on multicall/keylines', 'Display DNS/Calling Number Before Digit Modification', 'Display Dialed Digits during Outgoing Calls', 'Display Held Call ID on Transfer', 'Display Transfer Destination on Recall', 'Do Not Disturb', 'Do Not Disturb - Access to Remote Phones', 'Do Not Disturb Permanent', 'Emergency Call Notification - Audio', 'Emergency Call Notification - Visual', 'Enable Call Duration Limit on External Calls', and 'Enable Call Duration Limit on Internal Calls'.

**Bottom-Left Screenshot:** Continues the list of options. Options include 'Emergency Call Notification - Audio', 'Emergency Call Notification - Visual', 'Enable Call Duration Limit on External Calls', 'Enable Call Duration Limit on Internal Calls', 'Executive Busy Override', 'External Trunk Standard Ringback', 'Flexible Answer Point', 'Follow 2nd Alternate Reroute for Recall to Busy ACD Agent', 'Forced Verified Account Code', 'Forced Non-Verified Account Code', 'Group Call Forward Follow Me Accept', 'Group Call Forward Follow Me Allow', 'Group Page Accept', 'Group Page Allow', 'Handset Volume Adjustment Saved', 'Handsfree AnswerBack Allowed', 'HCI/CTI/TAPI Call Control Allowed', 'HCI/CTI/TAPI Monitor Allowed', 'Head Set Switch Mute', 'Hot Desk Remote Logout Enabled', 'Hot Desk Login Accept', 'Hotel Room Monitor Setup Allowed', 'Hotel Room Monitoring Allowed', 'Hotel/Motel Room Personal Wakeup Call Allowed', 'Hotel/Motel Room Remote Wakeup Call Allowed', 'Individual Trunk Access', 'Local Music On Hold source', 'Loudspeaker Pager Override', 'Loudspeaker Pager Equivalent Zone Override Security', 'Maintain Ringing Party During Recall', 'Message Waiting', and 'Message Waiting Audible Tone Notification'.

**Bottom-Right Screenshot:** Continues the list of options. Options include 'Loudspeaker Pager Equivalent Zone Override Security', 'Maintain Ringing Party During Recall', 'Message Waiting', 'Message Waiting Audible Tone Notification', 'Message Waiting Deactivate On Off-Hook', 'Message Waiting - Disable Ringing Lamp Notification', 'Message Waiting Inquire', 'Multiline Set Loop Test', 'Multiline Set Message Center Remote Read Allowed', 'Multiline Set Music', 'Multiline Set On-hook Dialing', 'Multiline Set Phonebook Allowed', 'Multiline Set Voice Mail Callback Message Erasure Allowed', 'Music on Hold on Transfer', 'Name Suppression on outgoing Trunk Call', 'Non DID Extension', 'Non-Prime Public Network Identity', 'Non-Verified Account Code', 'Off-Hook Voice Announce Allowed', 'ONS CLASS/CLIP: Message Waiting Activate/Deactivate', 'ONS CLASS/CLIP: Set', 'ONS CLASS/CLIP: Visual Call Waiting', 'Originator's Display Update In Call Forwarding/Rerouting', 'Override Interconnect Restriction on Transfer', 'Pager Access All Zones', 'Pager Access Individual Zones', 'Phonebook Lookup - Default to User Location', 'Phonebook Lookup - Display User Location', 'Privacy Released', 'Public Network Access via DPNSS', and 'Public Network Identity Provided'.

Figure 3 – Class of Service Assignment

**Web Page Dialog**

Phonebook Lookup - Display User Location:  No  Yes

Privacy Released:  No  Yes

Public Network Access via DPNSS:  No  Yes

Public Network Identity Provided:  No  Yes

Public Network To Public Network Connection Allowed:  No  Yes

Public Trunk:  No  Yes

R2 Call Progress Tone:  No  Yes

Recall If Transferred to Original Call Destination:  No  Yes

Record A.Call Active:  No  Yes

Record A.Call - Start Recording Automatically:  No  Yes

Record A.Call - Save Recording on Hang-up:  No  Yes

Recorded Announcement Device:  No  Yes

Recorded Announcement Device - Advanced:  No  Yes

Redial Facilities:  No  Yes

Return Disconnect Tone When Far End Party Clears:  No  Yes

Ringing Line Select:  No  Yes

SC1000 Attendant Basic Function Key:  No  Yes

SMDR External:  No  Yes

SMDR Internal:  No  Yes

Speak@Ease Preferred:  No  Yes

Suppress Delivery of Caller ID Display between Sets:  No  Yes

Suppress Delivery of Caller ID Display between Sets - Override:  No  Yes

Suppress Display Of Account Code Numbers:  No  Yes

Suppress Redial Display:  No  Yes

Suppress Simulated CCM after ISDN Progress:  No  Yes

Third Party Call Forward Follow Me Accept:  No  Yes

Third Party Call Forward Follow Me Allow:  No  Yes

Timed Reminder Allowed:  No  Yes

Trunk Calling Party Identification:  No  Yes

Trunk Flash Allowed:  No  Yes

Two B-Channel Transfer Allowed:  No  Yes

Use Held Party Device for Call Re-routing:  No  Yes

**Save** **Cancel**

**Web Page Dialog**

Trunk Calling Party Identification:  No  Yes

Trunk Flash Allowed:  No  Yes

Two B-Channel Transfer Allowed:  No  Yes

Use Held Party Device for Call Re-routing:  No  Yes

Use Called Party Call Hold Timer:  No  Yes

Voice Mail Softkey:  No  Yes

Account Code Length:

After Answer Display Time:

Answer Plus Delay To Message Timer:

Answer Plus Expected Off-hook Timer:

Answer Plus Message Length Timer:

Answer Plus System Reroute Timer:

Attendant Busy Out Timer:

Auto Campon Timer:

Busy Tone Timer:

Call Duration:

Call Duration Forced Cleardown Timer:

Call Forward - Delay:

Call Forward No Answer Timer:

Call Hold Timer:

Call Park Timer:

Campon Recall Timer:

Delay Ring Timer:

Dialing Conflict Timer:

Display Caller ID On Multicall/Keylines Timer:

Emergency Call - Audio Level for Set:

First Digit Timer:

Inter Digit Timer:

**Save** **Cancel**

**Web Page Dialog**

Call Duration:

Call Duration Forced Cleardown Timer:

Call Forward - Delay:

Call Forward No Answer Timer:

Call Hold Timer:

Call Park Timer:

Campon Recall Timer:

Delay Ring Timer:

Dialing Conflict Timer:

Display Caller ID On Multicall/Keylines Timer:

Emergency Call - Audio Level for Set:

First Digit Timer:

Inter Digit Timer:

Lockout Timer:

ACD 2000 Logout Agent No Answer Timer:

Message Waiting Ringing Start Time Hour:

Message Waiting Ringing Start Time Minute:

Message Waiting Ringing Stop Time Hour:

Message Waiting Ringing Stop Time Minute:

No Answer Recall Timer:

ONS VMail-Delay Dial Tone Timer:

Ringing Timer:

Work Timer:

Key A:

Key B:

Key C:

Key D:

**Save** **Cancel**

Figure 4 – Class of Service Assignment (C)

## SIP Device Capabilities Assignment

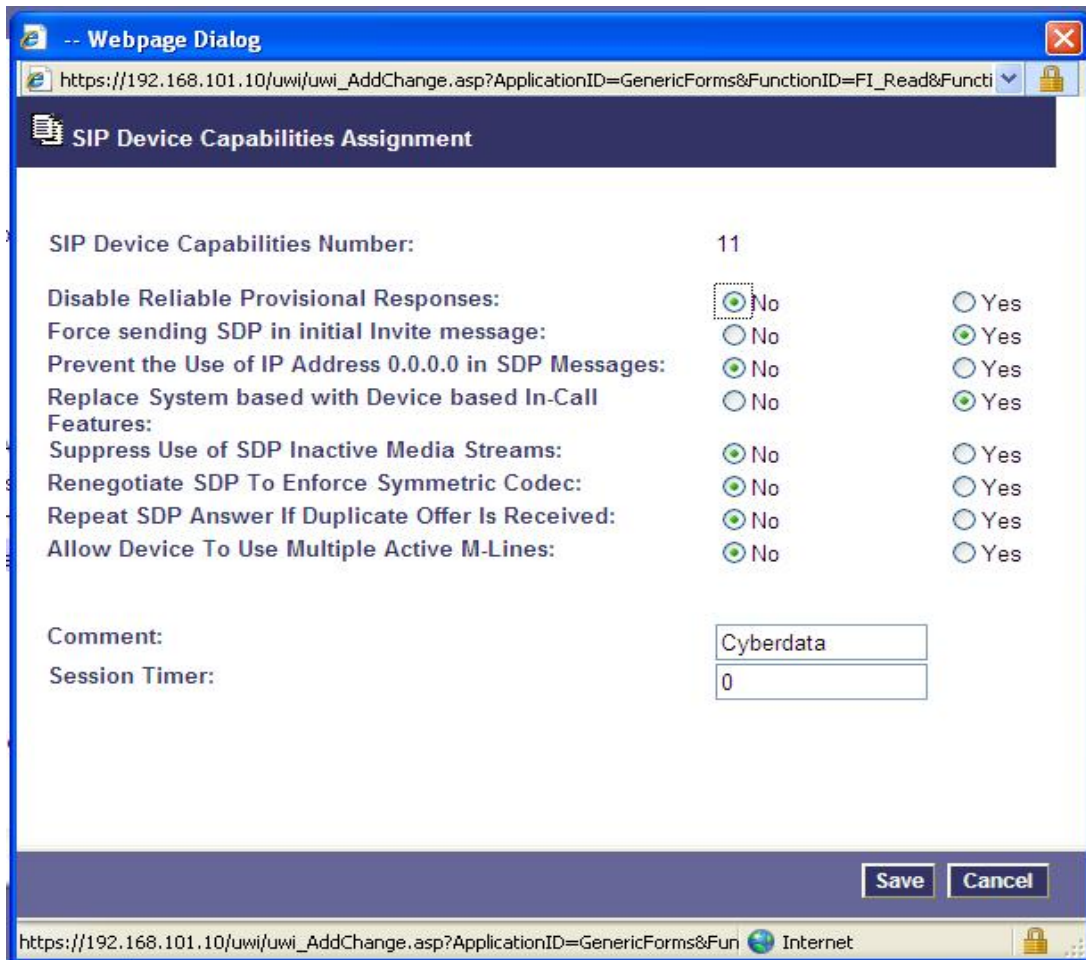
This form provides configuration options that can be applied to various types of SIP devices. The association between the SIP device and the form is similar to how the Class of Service options work. The SIP Device Capabilities number provides a SIP profile that can be applied to particular SIP devices to allow for alternate capabilities as recommended through the Mitel interop process.

The Cyberdata VOIP Indoor Paging Speaker SIP device can only be associated with a single SIP Device Capabilities Assignment form, though a form may be assigned to several devices, for example, one SIP Device Capabilities Assignment form can be assigned to all of one type of SIP device.

In the Device Capabilities form, program a SIP Device Capabilities Number for the Cyberdata VOIP Indoor Paging Speaker SIP device.

Ensure the following:

- Replace System based with Device based In-Call Feature is set to 'Yes'
- Force sending SDP in initial Invite message is set to 'Yes'



The screenshot shows a web browser window titled "-- Webpage Dialog" with the URL [https://192.168.101.10/uwi/uwi\\_AddChange.asp?ApplicationID=GenericForms&FunctionID=FI\\_Read&FunctionID=FI\\_Read](https://192.168.101.10/uwi/uwi_AddChange.asp?ApplicationID=GenericForms&FunctionID=FI_Read&FunctionID=FI_Read). The page title is "SIP Device Capabilities Assignment".

The form contains the following fields and options:

SIP Device Capabilities Number:	11
Disable Reliable Provisional Responses:	<input checked="" type="radio"/> No <input type="radio"/> Yes
Force sending SDP in initial Invite message:	<input type="radio"/> No <input checked="" type="radio"/> Yes
Prevent the Use of IP Address 0.0.0.0 in SDP Messages:	<input checked="" type="radio"/> No <input type="radio"/> Yes
Replace System based with Device based In-Call Features:	<input type="radio"/> No <input checked="" type="radio"/> Yes
Suppress Use of SDP Inactive Media Streams:	<input checked="" type="radio"/> No <input type="radio"/> Yes
Renegotiate SDP To Enforce Symmetric Codec:	<input checked="" type="radio"/> No <input type="radio"/> Yes
Repeat SDP Answer If Duplicate Offer Is Received:	<input checked="" type="radio"/> No <input type="radio"/> Yes
Allow Device To Use Multiple Active M-Lines:	<input checked="" type="radio"/> No <input type="radio"/> Yes
Comment:	<input type="text" value="Cyberdata"/>
Session Timer:	<input type="text" value="0"/>

At the bottom of the form are "Save" and "Cancel" buttons. The browser's status bar shows the URL and "Internet" connection.

Figure 5 – SIP Device Capabilities Assignment

## Station Service Assignment

Use the Station Service Assignment form to assign the previously configured Class of Service and SIP Device Capability number to each of the Cyberdata VOIP Indoor Paging Speaker SIP devices in the 3300. This form utilizes Range programming.

Select the Cyberdata VOIP Indoor Paging Speakers' number then select Change. Enter the previously configured SIP Device Capability number and Class of Service for Day, Night 1 & Night 2.

The screenshot shows the SIPIntero 3300 ICP web interface in Internet Explorer. The left sidebar contains a navigation tree with 'Station Service Assignment' selected. The main content area displays a table titled 'Station Service Assignment' with the following data:

Number	Intercept Number	Class of Service - Day	Class of Service - Night1	Class of Service - Night2	Class of Restriction - Day	Class of Restriction - Night1	Class of Restriction - Night2	Default Acct. Code	Zone Assignment Method	Zone ID	SIP Ca
1000	1	1	1	1	1	1	1		Default	1	1
1001	1	1	1	1	1	1	1		Default	1	1
1002	1	10	10	10	1	1	1		Default	1	2
1003	10	10	10	10	1	1	1		Default	1	2
1004	10	10	10	10	1	1	1		Default	1	2
1005	10	10	10	10	1	1	1		Default	1	2
1006	10	10	10	10	10	10	10		Default	1	2
1007	10	10	10	10	10	10	10		Default	1	2
1008	1	1	1	1	1	1	1		Default	1	1
1009	1	1	1	1	1	1	1		Default	1	1
1010	10	10	10	10	10	10	10		Default	1	1
1011	1	1	1	1	1	1	1		Default	1	1
1012	1	1	1	1	1	1	1		Default	1	1
1013	1	1	1	1	1	1	1		Default	1	1
1014	1	1	1	1	1	1	1		Default	1	1

Figure 6 – Station Service Assignment

## Multiline Set Key Assignment

You use the Multiline Set Key Assignment form to assign the line type, ring type, and directory number to each line select key of the Cyberdata VOIP Indoor Paging Speaker SIP device.

Cyberdata VOIP Indoor Paging Speaker SIP device will support up to 1 additional key line appearances. Each key assignment of the Cyberdata VOIP Indoor Paging Speaker SIP device should be defined as multicall type and should specify that a call to the key's directory number will ring the set.

The screenshot shows the 'Multiline Set Key Assignment' form in the sipint2 web interface. The search bar is set to find a field named 'Directory Number'. The main table lists assignments for directory numbers 2003 through 2008. Below it, the 'Programmable Keys' table shows button numbers 2 through 6, with button 2 assigned to directory number 2003 and others unassigned.

Directory Number	Ring Type	Prime Line Type	Name
2003	Ring	Multicall	test,2003
2004	Ring	Multicall	i752004
2006	Ring	Multicall	test,2006
2007	Ring	Multicall	
2008	Ring	Single Line	mitel2008

Button Number	Label	Line Type	URL	Button Directory Number	Ring Type	MiXML Application Feature
2	key2	Multicall		2003	Ring	Not Assigned
3		Not Assigned				Not Assigned
4		Not Assigned				Not Assigned
5		Not Assigned				Not Assigned
6		Not Assigned				Not Assigned

Figure 7 – Multiline Set Key Assignment Form

## Cyberdata VOIP Indoor Paging Speaker SIP device Setup Notes

The following steps show how to program the Cyberdata Indoor Speaker to interconnect with the 3300 ICP.

For more detailed configuration or questions about the Cyberdata Indoor Speaker click on the following link: <http://www.cyberdata.net/support/voip/ceilingspeaker.html>

### Step 1

Plug network cable into the RJ-45 jack at back of Speaker. The speaker must be plugged into a network switch port that is supplying Power over Ethernet.

### Step 2

The default IP address of the speaker is 192.168.3.10. Press the RTFM button on the front of the speaker with a paper clip or thumbtack. This should read back its IP address to confirm.

Access the Configuration Portal:

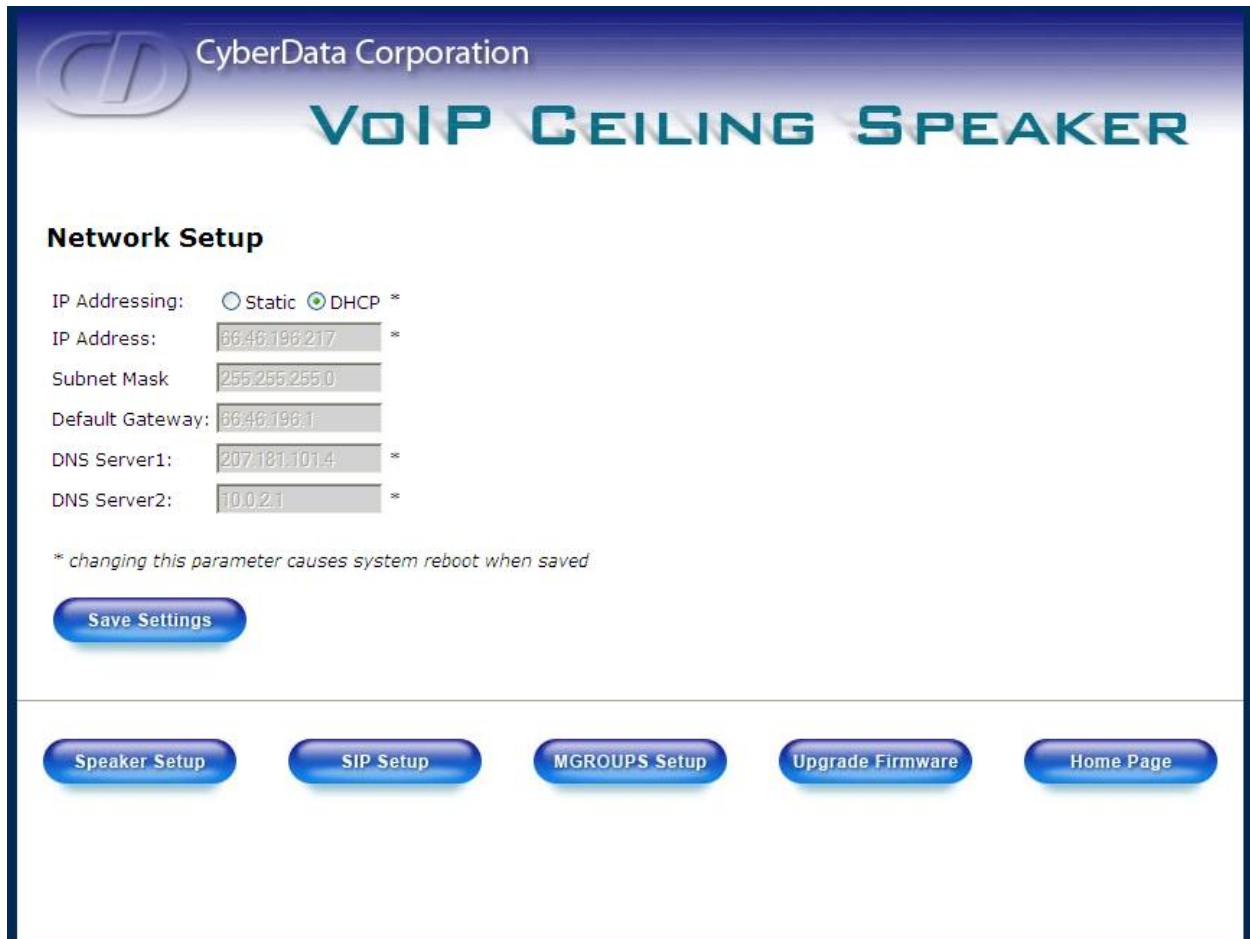
<http://192.168.3.10>

Username: admin

Password: admin

### Step 3

Click "Network Setup". Set "IP Addressing" to "DHCP" or if you prefer you can use static IP addressing. When you save settings the speaker will reboot.



The screenshot shows the configuration interface for a CyberData Corporation VOIP CEILING SPEAKER. The page title is "CyberData Corporation VOIP CEILING SPEAKER". The main heading is "Network Setup".

IP Addressing:  Static  DHCP \*

IP Address:  \*

Subnet Mask:

Default Gateway:

DNS Server1:  \*

DNS Server2:  \*

*\* changing this parameter causes system reboot when saved*

Navigation buttons:

**Step 4**

The speaker will beep once when it has booted completely. Access the Configuration Portal and click on Speaker Setup. For "Select Speaker Function" choose "SIP" and Save Settings.

The screenshot shows the configuration page for a VoIP Ceiling Speaker. At the top, there is a logo for CyberData Corporation and the title "VOIP CEILING SPEAKER". Below this is the "Speaker Setup" section. The form includes several fields and options:

- Device Name:** A text input field containing "Ceiling Speaker".
- Select Speaker Function:** Radio buttons for "SIP" (selected) and "MGROUPS". An asterisk (\*) is next to the "MGROUPS" option.
- Change Web Access Username:** A text input field containing "admin".
- Change Web Access Password:** An empty text input field.
- Re-enter New Password:** An empty text input field.
- Speaker Beep Before Paging:** Radio buttons for "Yes" and "No" (selected).
- Speaker Beep After Initialization:** Radio buttons for "Yes" (selected) and "No".
- RTFM Announcement:** Radio buttons for "Yes" (selected) and "No".

Below the form, there is a note: "\* changing this parameter causes system reboot when saved". At the bottom of the form area, there are two buttons: "Save Settings" and "Audio Test".

At the very bottom of the page, there is a navigation bar with five buttons: "Network Setup", "SIP Setup", "MGROUPS Setup", "Upgrade Firmware", and "Home Page".



**Step 5**

Click "SIP Setup".

For "SIP server" and "Outbound Proxy" enter the IP address of the 3300.

Enter 5060 for "Remote SIP port" and "Local SIP Port".

Enter the SIP User ID Authenticate ID as the extension programmed in the 3300.

Enter the authenticate Password as the Login PIN programmed in the 3300.

For SIP Registration select "Yes"

CyberData Corporation  
**VOIP CEILING SPEAKER**

### SIP Setup

SIP Server:	<input type="text" value="192.168.101.10"/>	*
Outbound Proxy:	<input type="text" value="192.168.101.10"/>	*
Remote SIP Port:	<input type="text" value="5060"/>	*
Local SIP Port:	<input type="text" value="5060"/>	*
SIP User ID:	<input type="text" value="3823"/>	*
Authenticate ID:	<input type="text" value="3823"/>	*
Authenticate Password:	<input type="text" value="3823"/>	*
SIP Registration:	<input checked="" type="radio"/> Yes <input type="radio"/> No	*
Unregister on Reboot:	<input checked="" type="radio"/> Yes <input type="radio"/> No	*
Register Expiration (minutes):	<input type="text" value="8"/>	*

*\* changing this parameter causes system reboot when saved*

[Save Settings](#)

[Network Setup](#) [Speaker Setup](#) [MGROUPS Setup](#) [Upgrade Firmware](#) [Home Page](#)