

AudioCodes™ MP-104 Gateway

Quick Start Installation Guide

INTRODUCTION

This quick start guide contains information about how to install and configure the v4.4 AudioCodes™ MP-104 Gateway. This gateway is the latest version that is available through the Inter-Tel® CommSource™ division.

PARTS

This shipment consists of the following items:

- AudioCodes MP-1xx Media Gateway Fast Track Installation Guide
- AudioCodes MP-1xx CD-ROM
- Inter-Tel IP Devices CD-ROM (Part No. 827.9162)
- Inter-Tel AudioCodes Quick Start Guide
- Power cord

ADDITIONAL SUPPLIES NEEDED

In addition to the previously listed parts, you will also need an Ethernet cable.

SYSTEM REQUIREMENTS

The following lists the system requirements for installing the AudioCodes MP-104 Gateway:

- Internet Protocol Resource Card (IPRC) firmware version 1.5.2, 8.2.0, or later
- Axxess® v7.0 or later

The AudioCodes MP-104 Gateway also must meet the following telephony requirements:

- **Loop Current:** 20mA, preferably down to an 18mA loop current (25 to 45mA may not suffice and will increase the risk of poor audio).
- **Line Voltage:** 24 to 48vdc. Must pass the test called out in EIA/TIA-464B 4.1.2.3.3 (generally 42.5V ~56.5V).
- **Ring Voltage:** 40 to 150 vac ring voltage 20 to 30 Hz. Must pass the requirements called out in EIA/TIA-464B 4.1.2.2.5 (generally 55~130Vrms for Class A; 40~130Vrms for Class B).
- **Db Levels:** At least +3dBm without distortion into a 600 ohm load. Must pass the transmission requirements called out in Section 5 of EIA/TIA-464B.

SYSTEM DATABASE PROGRAMMING

The IPRC firmware version determines how Axxess is programmed to support the gateways. For details about system database programming, refer to the documents listed below.

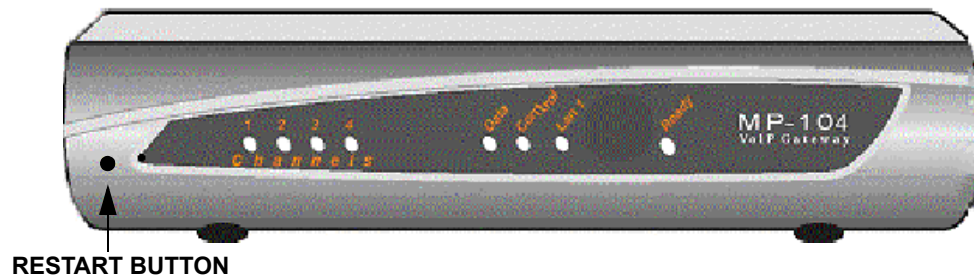
If you are installing the gateway on a:

- *v1.5.1 firmware IPRC*, see the latest version of the *IP Devices Manual*.
- *v8.2.x or later firmware IPRC*, see the *Addendum to the v8.0 Installation and Maintenance Manual*.



AUDICODES MP-104 GATEWAY INSTALLATION

This section describes how to install and configure the AudioCodes MP-104 gateway, shown below.



The AudioCodes MP-104 FXO gateway supports up to four loop start line (FXO - foreign exchange office) ports. Although the MP-104 is similar to the MP-100, each gateway uses a different switch type for configuring the device. The MP-100 uses DIP switches, and the MP-104 uses a command line switch (-fb) (see [page 7](#)). For details about command-line switches, refer to the *AudioCodes MP-1xx Media Gateway Fast Track Installation Guide*.

The MP-104 on a v8.1 or later system with a v8.2.x or later firmware IPRC supports the peer-to-peer (P2P) audio feature. This feature allows certain IP and SIP devices to transmit and receive audio directly with each other. With this feature, the audio is not transmitted or received through the system cabinet. This reduces delay and removes the audio stream from the Time Division Multiplex (TDM) highway.

To use P2P audio:

- The devices must be members of the same Network Group.
- The IPRC and IP devices must be upgraded to version 8.1 firmware. (SIP endpoints do not require firmware upgrades.)
- The devices must terminate on an IPRC with v8.2.x or later firmware.
- There cannot be a NAT or firewall between the communicating devices.
- For SIP endpoints, the latest version of SIP Server (v1.1 or later) must be installed.

Because the devices are not using cabinet resources, devices connected in a P2P call cannot use the following features:

- Agent Help
- Record-A-Call
- Station Monitor

The MP-104 on a v8.2.x or later IPRC firmware also does not support the following features:

- Tick Tone as an audio source for CO calls. This is normally used for features that require audio sources, such as the Music-On-Hold feature.
- Pause digits. These digits are normally used to program a speed-dial or other digit string.

NOTE: The MP-104 must be running software version 4.2 or later when connected to an IPRC running version 8.1 or later firmware.

Quick Start Installation Outline

The following steps outline the MP-104 installation. For details, refer to the pages shown in parentheses in each step.

To install the MP-104:

1. Unpack the box and check the parts list to make sure nothing is missing from the shipment.
2. Set up the MP-104 gateway device through the AudioCodes BootP/TFTP Server program (see [page 4](#)).

NOTE: Ensure you have added the -fb command to the `ramMP1XXFXO.cmp` and this file is selected as the Boot file (see [page 7](#))

3. Reset the Server. Progress can be viewed in the BootP/TFTP Server window (make sure it is not paused). See [page 9](#).
4. Configure the MP-104 application through the AudioCodes MP-104 Web administrator (see [page 19](#)).
5. Verify that the **Call Agent IP** address in the Advanced Configuration - Protocol Management page matches the IPRC IP address (see [page 12](#)).
6. Configure the IPRC ports through the IPRC Administrative Session Web page and verify the following:
 - The gateway is configured as an MGCP gateway and endpoint (the first circuit), and each additional endpoint is attached to the correct circuit (see [page 19](#)).
 - All information is correct (MAC address, IP address, etc.).
 - The connection is active in the Circuit Status page.

The AudioCodes MP-104 Gateway is now ready for connection to the CO.

Setting Up the MP-104

Follow the instructions below to set up the MP-104.

WARNING

DO NOT use the manufacturer-provided CD-ROM that contains generic downloading files and the Media Pack MP-1xx Media Gateway Fast Track Installation Guide. For the AudioCodes MP-100/104 Gateway to work properly with the Inter-Tel Axxess system, you must use the customized downloading files and the quick start guide that are provided on the Inter-Tel IP Devices CD-ROM (part number 827.9162). Using the manufacturer-provided files may cause application errors, and the system may not work properly.

To set up the MP-104:

1. Attach the Ethernet cable to the ETH-1 RJ-45 connector to connect to your LAN.
2. Plug in the AC power cord and connect the DC power supply. The green lamps on the LAN and Ready light-emitting diodes (LEDs) light. For details on LED indicators, refer to the *MP-104 User's Manual & Installation Guide*. The back view of an MP-104 is shown below.



3. Attach up to four phone lines (e.g., loop start lines) to the RJ-11 connectors.

NOTE: Up to 200 m (660 ft) of 24AWG twisted pair cable can be used for phone lines.

4. Create a new directory (e.g., Audiocodes MP_104) in the Windows Explorer on the PC that is connected to the MP-104.

NOTE: Make sure the MP-104 and BootP/TFTP Server are on the same subnet because the BootP/TFTP Server does not work across subnets.

5. Unzip the **MP104v44** zip file (part no. 841.0165) that is provided in the Inter-Tel IP Devices CD into this folder.
6. You may want to create a subfolder for the **BootP** zip file within the same folder, and unzip the **BootP** zip file into this folder. The folder looks like the one shown below.

Name	Size	Type	Date Modified
BootP.zip	6,003 KB	WinZip File	5/20/2004 7:24 PM
call_progress_uk.dat	1 KB	DAT File	5/18/2004 2:55 PM
call_progress_usa.dat	1 KB	DAT File	5/18/2004 2:55 PM
LTRT-61601 MP Series Release Notes Ver 4.4.pdf	534 KB	Adobe Acrobat Doc...	6/15/2004 8:12 AM
MP1xx10-2-16khz-TBR21-fxo_uk.dat	19 KB	DAT File	5/20/2004 7:24 PM
MP1xx12-1-12khz-fxo_usa.dat	19 KB	DAT File	5/20/2004 7:24 PM
MP1XXFXO_uk.ini	2 KB	Configuration Settings	8/3/2004 3:18 PM
MP1XXFXO_usa.ini	2 KB	Configuration Settings	8/3/2004 3:18 PM
mp104v44b setup process.doc	21 KB	Microsoft Word Doc...	8/2/2004 3:20 PM
ramMP10X.cmp	1,862 KB	CMP File	6/8/2004 12:09 PM

7. Copy the following files that you just unzipped and paste them into the BootP server folder (under C:\Program Files\AudioCodes\BootP). This will allow the system to find the required files automatically.

NOTE: The file names may be different depending on the version and date that the files are created.

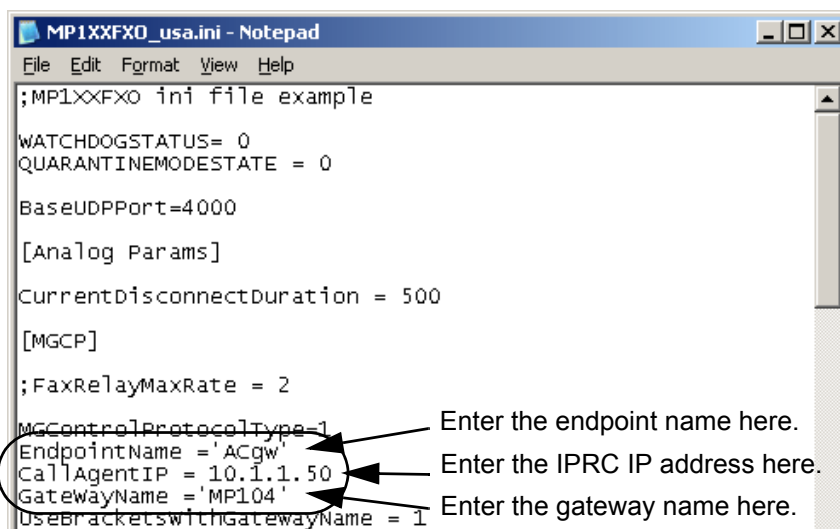
ALSO: The `_usa` files are for US systems, and the `_uk` files are for European systems.

- **BOOT file** (e.g., `ramMP10X.cmp`) — Contains a compressed, downloadable software image file.
 - **INI file** (e.g., `MP1XXFXO_usa/uk.ini`) — Contains the default settings for the MP-104.
 - **Coefficient file** (e.g., `MP1xx12-1-12khz-fxo_usa.dat` or `MP1xx10-2-16khz-TBR21-fxo_uk.dat`) — Contains a set of parameters for the signal processor of the loop interface devices.
 - **Call Progress Tone file** (e.g., `call_progress_usa/uk.dat`) — Contains the definitions of the call progress tones that the MP-104 will detect/generate.
8. Open the `MP1XXFXO_usa/uk.ini` file by using a word processor, such as Notepad, Microsoft® Word, etc. and add the following settings:

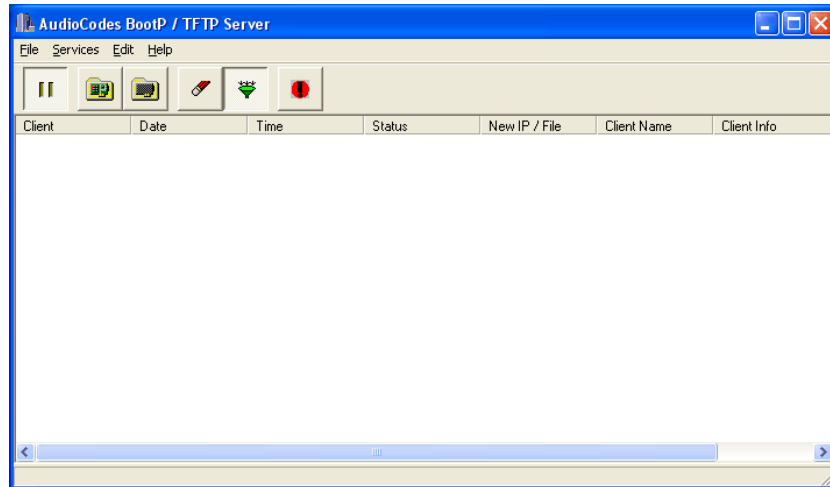
- The MP-104 needs to communicate with an IPRC. Determine the IPRC that you are going to use and enter the IPRC IP address (e.g., 10.1.1.50) in the CallAgentIP field, as shown below.

NOTE: Programming the IPRC IP address in the `.ini` file provides a more reliable Call Agent ID setting for the MP-104, when files are loaded via the TFTP server. If not modified in the `.ini` file, this value is overwritten every time the MP-104 files are reloaded during a reset, using the value in this file. If the `.ini` file is “read only” by default, you may need to modify this characteristic to allow updating. To change the attributes, right-click the file name in the Windows Explorer and open **Properties**. Uncheck **Read-only** in the Attributes field and click **OK**.

- Enter the endpoint name in the EndpointName field and the gateway name in the GateWayName field, if necessary. The default values are set to “ACgw” and “MP104,” respectively. These values must match those in Axxess Database Programming (under System\Devices and Feature Codes\Trunks) and in the AudioCodes Web administrator (see page 11).

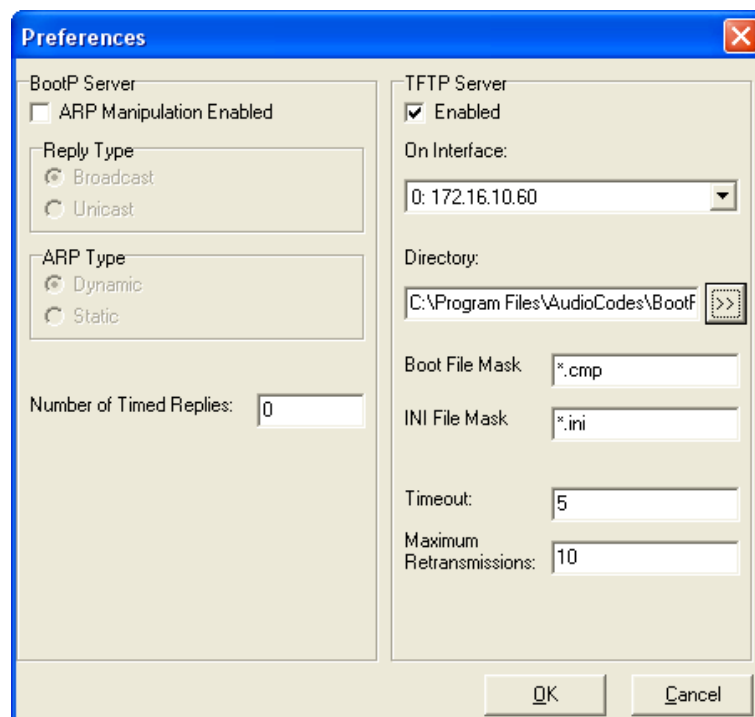


9. Save and close the file as **.ini** file.
10. Double-click **SETUP.EXE** in the BootP folder to install the AudioCodes BootP/TFTP Server application.
11. Double-click **bootp.exe** (under C:\Program Files\AudioCodes\BootP) to launch the AudioCodes BootP/TFTP Server program. A reminder message about unpausing the program after configuring appears. Click **OK**. The following screen appears.

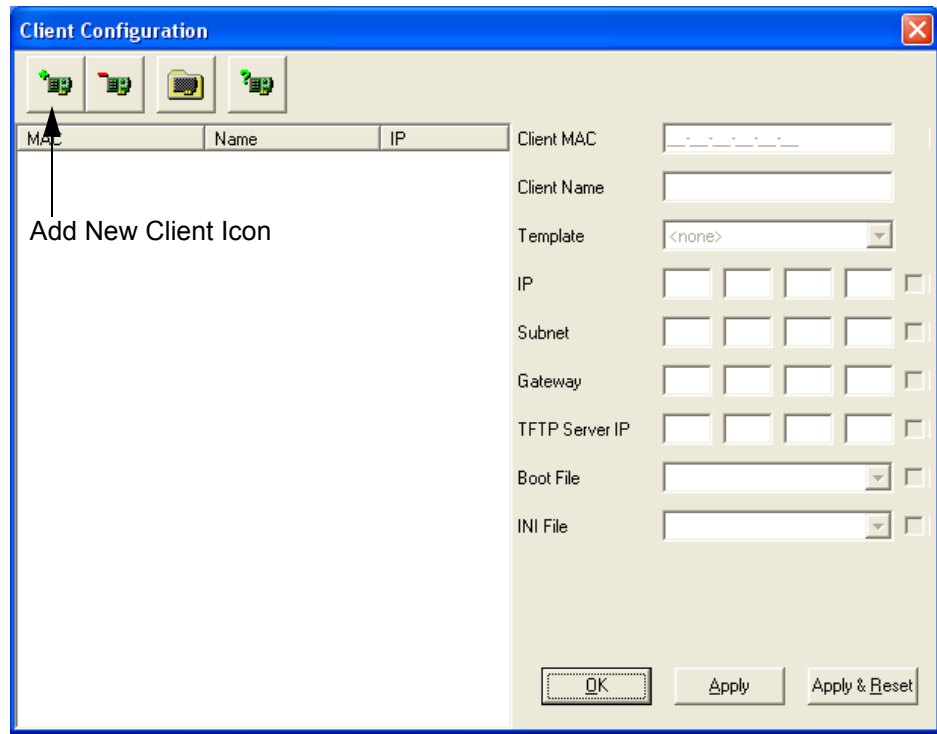


NOTE: Ensure the AudioCodes BootP/TFTP Server application is the only BootP server running. If another server is running at the same time, it may cause problems with the download.

12. Select **Preferences** from the Edit menu. The following dialog box appears. Select (or browse to) the directory path, where the four MP-104 configuration files and BootP files are located, in the Directory text box.



13. In the main BootP/TFTP Server screen, select **Clients** from the Services menu or click the Edit Clients icon (🖨️). The following blank dialog appears. This Client Configuration dialog allows the client (AudioCodes MP-104 gateway) to connect to the server application for code and configuration updates.

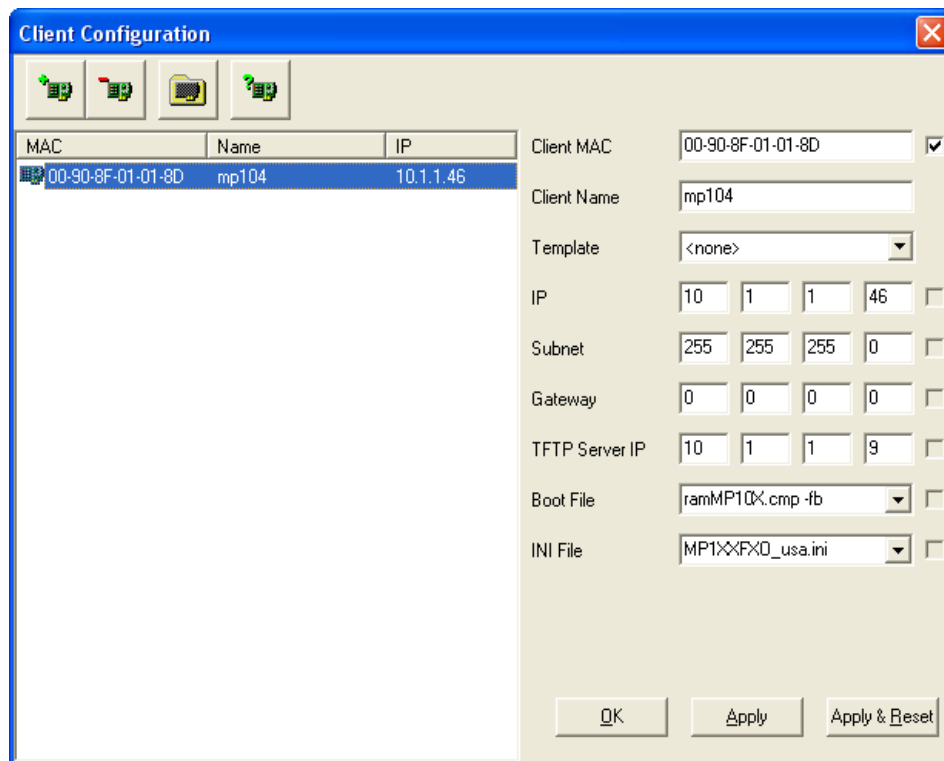


The image shows a 'Client Configuration' dialog box with a blue title bar and a close button (X) in the top right corner. Below the title bar are four icons: a green plus sign in a square, a red minus sign in a square, a yellow folder icon, and a green question mark in a square. Below these icons is a table with three columns: 'MAC', 'Name', and 'IP'. The 'MAC' column is currently empty. An arrow points from the text 'Add New Client Icon' to the green plus icon. To the right of the table are several input fields: 'Client MAC' (a text box with a dashed line pattern), 'Client Name' (a text box), 'Template' (a dropdown menu showing '<none>'), 'IP' (a text box), 'Subnet' (a text box), 'Gateway' (a text box), 'TFTP Server IP' (a text box), 'Boot File' (a dropdown menu), and 'INI File' (a dropdown menu). At the bottom right are three buttons: 'OK', 'Apply', and 'Apply & Reset'.

14. Click the Add New Client icon (🖨️), and configure the settings as described below. After configuring, the dialog should look like the one shown on the following page.
- **Client MAC:** Enter the MAC address, which can be found on the bottom of the MP-104 device.
 - **Client Name:** Enter the desired name (e.g., mp104).
 - **Template:** Select **<none>**.
 - **IP:** Obtain the IP address of the MP-104 from your network administrator, and enter the value in this field.
 - **Subnet:** Enter the subnet mask of the MP-104.
 - **Gateway:** Obtain the default gateway IP address of the MP-104 from your network administrator, and enter the value in this field.
 - **TFTP Server IP:** Enter the IP address of the computer that the BootP/TFTP Server application is running.
 - **Boot File:** Select **ramMP10X.cmp** from the drop-down list. Then, add the **-fb** switch after the file name (**ramMP10X.cmp -fb**). This switch automatically burns the **ram.cmp** into the flash memory.

NOTE: If you do not add the **-fb** switch, the system will not burn the boot file into the flash memory automatically.

- **INI File:** Select **MP1XXFXO_usa/uk.ini** from the drop-down list.



15. Highlight the desired client (if you have more than one client) in the list on the left. Click **OK**.

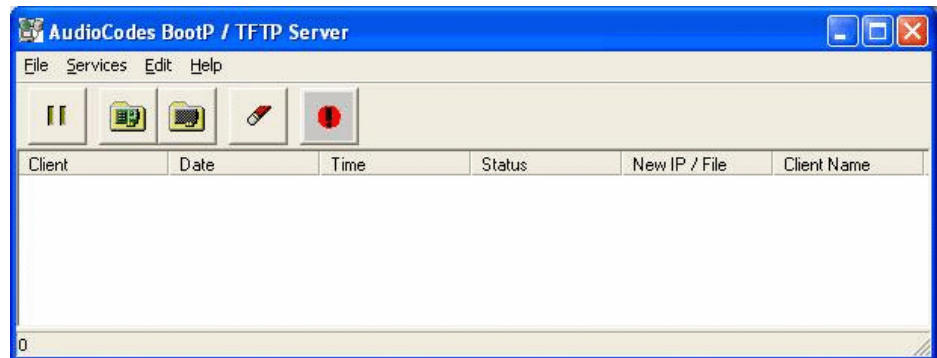
NOTE: Make sure the Pause icon (II) in the main screen is not pressed.

16. Reset the MP-104 by doing one of the following:
- Click **Apply & Reset** in the Client Configuration dialog.
 - Click the **RESET** button (ⓘ) on the main screen. When prompted, enter the IP address of the MP-104 and click **Reset** and **Close**.
 - Unplug the AC power cord from the back of the MP-104 and plug it in again.
 - Press the **RESTART** button, shown on [page 2](#), using a long pinhole tool (such as a bent paper clip). You should hear a “click” when you press the button.

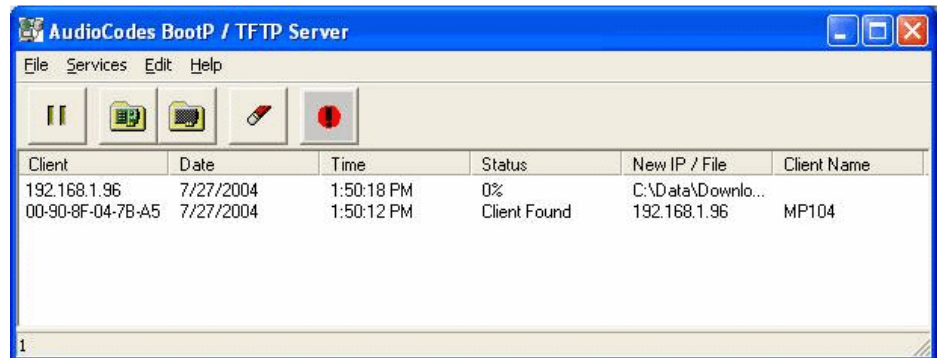
The green lamps of the LAN and Ready LEDs should change to yellow and return to green. If the color of the lamps don't change, try resetting the client by pressing **RESTART** button using a long pinhole tool.

NOTE: If you have more than one AudioCodes MP-104 gateway, repeat steps 8 through 14. The endpoint name and gateway name in the .ini file for each gateway must also be renamed accordingly.

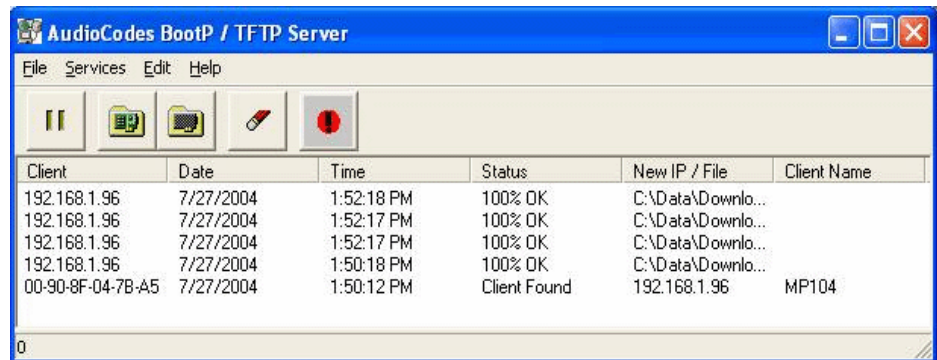
17. Click **Apply**. The following blank screen appears.



After a couple of minutes, the BootP status appears, as shown below. If the status does not appear in the screen, try resetting the client by pressing **RESTART** button using a long pinhole tool, and click **Apply**.



When complete, four files should have loaded and all four should show "100% OK." The green lamps on the LAN and Ready LEDs also light. If not, there is a problem with the file location. Verify that the file location is accurate and reconfigure the Client Configuration dialog, if necessary.



Follow the instructions on the following pages to launch the MP-104 Web administrator and configure the application.

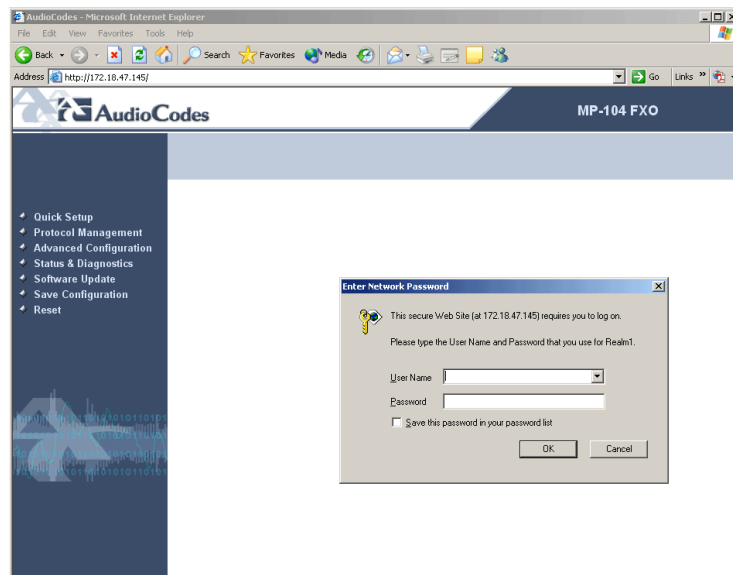
Configuring the MP-104

Once the BootP Client is set up, configure the MP-104 in the AudioCodes Web administrator.

To configure the MP-104:

1. Open the Web browser and enter the IP address of your MP-104 gateway in the Address field. Then, press **ENTER**. The following home page appears.

NOTE: The IP address can be found in the **IP** field in the Client Configuration dialog, shown on [page 7](#).



2. When the login dialog box appears, enter the username and password. The default username and password are both **Admin** (case-sensitive). If you are unable to log on, verify that the Client Configuration is set up correctly (see [page 7](#)).
3. The MP-104 has the following options:
 - Quick Setup (see [page 11](#))
 - Protocol Management (see [page 12](#))
 - Advanced Configuration (see [page 13](#))
 - Status and Diagnostics (see [page 17](#))
 - Software Update (see [page 18](#))
 - Save Configuration (see [page 18](#))
 - Reset (see [page 18](#))

To configure the settings, click any of the options and follow the instructions on the following pages.

NOTE: Make sure that the **Call Agent IP** address in the Advanced Configuration - Protocol Management page matches the IPRC IP address (see [page 12](#)).

4. **Quick Setup:** Configure the Quick Setup field, as described below.

Quick Setup	
IP Configuration	
IP Address	172.18.47.145
Subnet Mask	255.255.240.0
Default Gateway Address	172.18.32.1
DNS Primary Server IP	0.0.0.0
DNS Secondary Server IP	0.0.0.0
Control Protocol Configuration	
Control Protocol Type	MGCP
Call Agent IP	172.18.47.121
Call Agent Port	2427
Call Agent Domain Name	
Gateway Name	mp104lab4
Endpoint Name	lab4gw
Reset	
Click this button to restart the system	

- **IP Address:** Enter the IP address of the MP-104.
- **Subnet Mask:** Enter the subnet mask of the MP-104.
- **Default Gateway Address:** Enter the default gateway address if you are using a static IP address or need to change the subnet mask or gateway address. Ensure these match those on the IPRC Device Configuration page if using static IP addressing.
- **DNS Primary Server IP:** Should be set to **255.255.255.255**.
- **DNS Secondary Server IP:** Should be set to **255.255.255.255**.
- **Control Protocol Type:** Should be set to **MGCP**.
- **Call Agent IP:** Should match the IPRC IP address.
- **Call Agent Port:** Should be set to **2427**.
- **Call Agent Domain Name:** Leave this field blank.
- **Gateway Name:** Enter the name to identify this gateway on the network, such as MP104v4.4 (case-sensitive with no spaces or special characters). The default name is set to the IP address of the MP-104 (e.g., [172.17.112.61]).

NOTE: With a v8.2.x or later firmware IPRC, ensure the names match those in Axxess Database Programming (under System\Cabinets\IPRC (32-Device)\Devices\MGCP Gateway and Endpoint).

- **Endpoint Name:** The default endpoint name is “ACgw” (case-sensitive) and should not be changed to avoid hostname resolution complications. Each endpoint has a number appended to it. For example, line 1 is assigned the name “ACgw0,” line 2 is “ACgw1,” and line 4 is “ACgw3.”

NOTE: With a v1.5.1 firmware IPRC, ensure the names match those on the MGCP Endpoint Name Settings page in the IPRC Web page. With a v8.2.x or later firmware IPRC, ensure the names match those in Axxess Database Programming (under System\Cabinets\IPRC (32-Device)\Devices\MGCP Endpoint).

To restart the system, click **RESET**.

5. **Protocol Management:** Configure the Protocol Management field, as described below.

Protocol Definition	
Protocol	
Control Protocol Type	MGCP
MGCP Parameters	
Call Agent IP	172.18.47.121
Call Agent Port	2427
Call Agent Domain Name	
Redundant Call Agent IP	0.0.0.0
Redundant Call Agent Port	2427
Redundant Call Agent Domain Name	
Communication Layer Timeout	30
PacketCable Support	No
Profile	NORMAL
Gateway Name	mp104lab4
Endpoint Name	lab4gw
SUBMIT	

- **Control Protocol Type:** Should be set to **MGCP**.
- **Call Agent IP:** Should match the IPRC IP address.
- **Call Agent Port:** Should be set to **2427**.
- **Call Agent Domain Name:** Leave this field blank.
- **Redundant Call Agent IP:** Should be set to **0.0.0.0**.
- **Redundant Call Agent Port:** Should be set to **2427**.
- **Redundant Call Agent Domain Name:** Leave this field blank. Inter-Tel does not currently support this feature.
- **Communication Layer Timeout:** Should be set to **60** seconds.
- **Packet Cable Support:** Should be set to **No**.
- **Profile:** Should be set to **NORMAL**.
- **Gateway Name:** Enter the name to identify this gateway on the network, such as MP104v4.4 (case-sensitive with no spaces or special characters).

NOTE: With a v8.2.x or later firmware IPRC, ensure the names match those in Axxess Database Programming (under System\Cabinets\IPRC (32-Device)\Devices\MGCP Gateway and Endpoint).

- **Endpoint Name:** The default endpoint name is “ACgw” (case-sensitive) and should not be changed to avoid hostname resolution complications. Each endpoint has a number appended to it. For example, line 1 is assigned the name “ACgw0,” line 2 is “ACgw1,” and line 4 is “ACgw3.”

NOTE: With a v1.5.1 firmware IPRC, ensure the names match those on the MGCP Endpoint Name Settings page in the IPRC Web page. With a v8.2.x or later firmware IPRC, ensure the names match those in Axxess Database Programming (under System\Cabinets\IPRC (32-Device)\Devices\MGCP Endpoint).

To apply the changes, click **SUBMIT**.

6. **Advanced Configuration:** This page has the Network Settings, Channel Settings, Configuration File, Regional Settings, and Change Password fields.
- **Network Settings:** Configure the Network Settings as described below.

Network Settings	
IP Settings	
IP Address	172.18.47.145
Subnet Mask	255.255.240.0
Default Gateway Address	172.18.32.1
DNS Primary Server IP	0.0.0.0
DNS Secondary Server IP	0.0.0.0
Syslog Settings	
Syslog Server IP Address	0.0.0.0
Enable Syslog	Disable
RTP Settings	
RTP Base UDP Port	4000
RTP IP Diff Serv	0
RTP IP TOS	0
RTP IP Precedence	0
Ethernet Ports Information	
Port 1 Duplex Mode	Full Duplex
Port 1 Speed	100 mbps
SUBMIT	

- **IP Address:** Enter the IP address of the MP-104.
- **Subnet Mask:** Enter the subnet mask of the MP-104.
- **Default Gateway Address:** Enter the default gateway address if you are using a static IP address or need to change the subnet mask or gateway address. Ensure these values match those on the IPRC Device Configuration page if using static IP addressing.
- **DNS Primary Server IP:** Should be set to **255.255.255.255**.
- **DNS Secondary Server IP:** Should be set to **255.255.255.255**.
- **Syslog Server IP Address:** Leave this field at default or enter any IP address of a system that is equipped with a system logging application.
- **Enable Syslog:** Should be set to **Disable**.
- **RTP Base UDP Port:** Should be set to **4000**.
- **RTP IP Diff Serv:** Should be set to **0**.
- **RTP IP TOS:** Should be set to **0**.
- **RTP IP Precedence:** Should be set to **0**.
- **Port 1 Duplex Mode:** Shows the mode that your system is using.
- **Port 1 Speed:** Shows the speed that your system is using.

To apply the changes, click **SUBMIT**.

- **Channel Settings:** Configure the Channel Settings field, as described below.

Channel Settings	
Voice Settings	
Voice Volume (-31 to 31 dB)	0
Input Gain (-31 to 31 dB)	0
Silence Suppression	Disable
Echo Canceled	On
DTMF Transport Type	RFC2833 Relay DTMF
MF Transport Type	RFC2833 Relay MF
DTMF Volume (-31 to 0 dB)	-11
Enable Answer Detector	Disable
Answer Detector Activity Delay	0
Answer Detector Silence Time	10
Answer Detector Redirection	Disable
Answer Detector Sensitivity	0
Fax/Modem/CID Settings	
Fax Transport Mode	T.38 Relay
Caller ID Transport Type	MUTE
Caller ID Type	Bellcore
V21 Modem Transport Type	Disabled
V22 Modem Transport Type	Bypass Enable
V23 Modem Transport Type	Bypass Enable
V24 Modem Transport Type	Bypass Enable

Programming Required → [DTMF Transport Type, MF Transport Type]

Required for Caller ID → [Caller ID Transport Type, Caller ID Type]

All settings, except the following, should remain the same as they are shown in the screen. For more details, refer to the *AudioCodes MP-104 User's Manual*.

- **DTMF Transport Type:** Should match the DTMF Encoding Setting on the IPRC Device page (with a v1.5.2 firmware IPRC) and the settings in Axxess Database Programming (with a v8.2.0 or later firmware IPRC).

If the system uses G.711 vocoder:

- (With a v1.5.2 firmware IPRC) The Audio Settings and DTMF Encoding Setting pages in the IPRC Web page must be set to **G.711 Mu/A-Law**.
- (With a v8.2.0 or later firmware IPRC) The DTMF Encoding Setting under System\IP-Related Information\Call Configurations in Axxess Database Programming must be set to **G.711 Mu/A-Law**.
- The DTMF Transport Type and MF Transport Type, shown above, must be set to **Transparent DTMF** and **Transparent MF**, respectively.

If the system uses G.729 or RFC 2833 vocoder:

- (With a v1.5.2 firmware IPRC) The Audio Settings page in the IPRC Web page must be set to **G.729**, and the DTMF Encoding Setting page must be set to **Out-Of-Band**.
- (With a v8.2.0 or later firmware IPRC) The DTMF Encoding Setting under System\IP-Related Information\Call Configurations in Axxess Database Programming must be set to **G.729** or **RFC2833**.
- The DTMF Transport Type and MF Transport Type, shown above, must be set to **RFC2833 Relay DTMF** and **RFC2833 Relay MF**, respectively.

- **Fax/Modem Bypass Coder Type:** Select **G711MuLaw** for US Systems and **G711Alaw_64** for European Systems.
- If you are using Caller ID receivers, change the following settings as described below.

- **Caller ID Transfer Type:** Select **MUTE**.
- **Caller ID Type:** Select **Bellcore**.

To apply the changes, click **SUBMIT**.

- **Configuration File:** Allows you to update the **.ini** file for the gateway.

*To download the file, click **Get INI FILE**.*

*To upload the file to the gateway, click **Browse** to select the file that you just downloaded and then click **Send INI File**.*

*To restore the settings, click **Restore All Defaults**.*

Configuration File	
Get the INI file from the device to your computer	
Get INI FILE	
Send the INI file from your computer to the device	
	Browse... Send INI File
Restore the default configuration of the device	
Restore All Defaults	

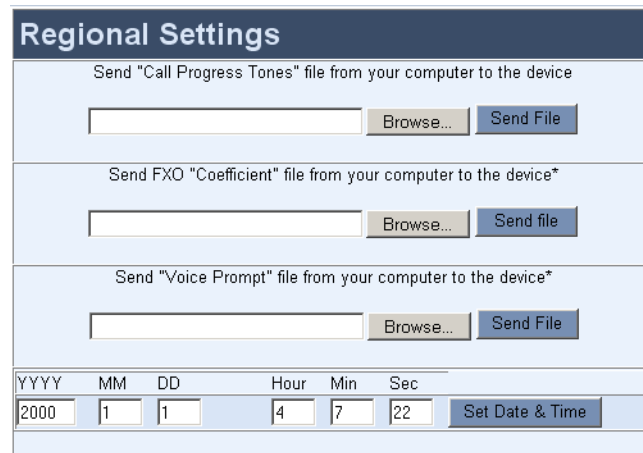
NOTE: Uploading an **.ini** file overwrites the existing settings in the AudioCodes Configuration Web page. After uploading, you must reprogram the AudioCodes Configuration (see [page 4](#)).

- **Regional Settings:** Allows you to update the Call Progress Tone (`call_progress_usa/uk.dat`) and Coefficient (`MP1xx12-1-12khz-fxo_usa.dat` or `MP1xx10-2-16khz-TBR21-fxo_uk.dat`) files for the gateway.

NOTE: Currently the Voice Prompt file is not used on Axxess systems.

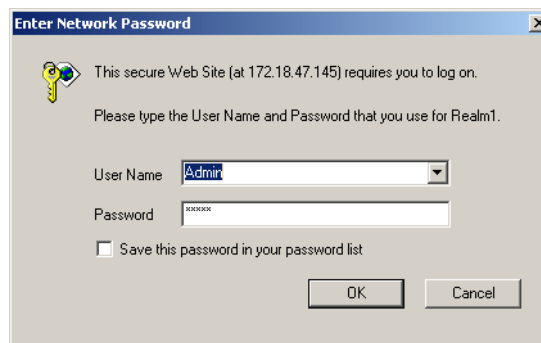
To upload the files, click **Browse** to select the appropriate file(s) and then click **Send File**.

To set the date and time, enter the date and time where the gateway is installed and click **Set Data & Time**. This is useful when reading logs.



The 'Regional Settings' form has a title bar and three sections for file uploads. Each section contains a text input field, a 'Browse...' button, and a 'Send File' button. The first section is for 'Call Progress Tones', the second for 'FXO Coefficient', and the third for 'Voice Prompt'. Below these sections is a date and time selection area with fields for Year (YYYY), Month (MM), Day (DD), Hour, Minute (Min), and Second (Sec). The current values are 2000, 1, 1, 4, 7, and 22 respectively. A 'Set Date & Time' button is located to the right of these fields.

- **Change Password:** Allows you to change the password. To apply the new password, click **OK**.



The 'Enter Network Password' dialog box has a title bar and a message area. The message area contains a key icon and text stating that the web site requires login. Below the message are fields for 'User Name' (with a dropdown menu showing 'Admin') and 'Password' (with masked characters). There is a checkbox for 'Save this password in your password list' and 'OK' and 'Cancel' buttons at the bottom.

7. **Status and Diagnostics:** Allows you to see the Channel Status, Message Log, and Versions of the MP-104.

- **Channel Status:** Indicates the status of the channels, as shown below.

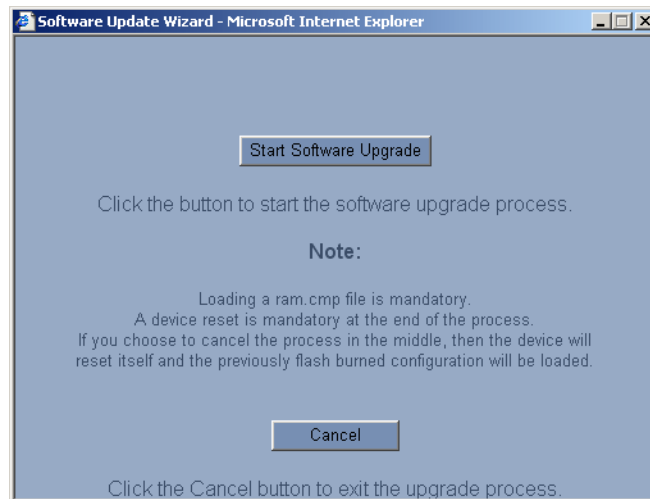
The screenshot shows the 'Channel Status' interface. At the top, there are four numbered buttons (1, 2, 3, 4) with corresponding status icons below them: a blue icon for channel 1, and red icons for channels 2, 3, and 4. To the right of these is a 'Color-Code Key' table.

Color-Code Key	
Red Channel	Phone Not Connected
Gray Channel	Inactive
Blue Channel	Handset Off-hook
Green Channel	Call Connected

- **Message Log:** Shows the call history.
- **Versions:** Contains various version information. Make sure you have version ID 4.40.1.0 or later.

Versions		
General		
Version ID:	4.40.1.0	
DSP Type:	0	
DSP Software Version:	20512	
DSP Software Name:	104IM	
Flash Version:	182	
MAC Address:	00908f03dfda	
Serial Number:	253914	
Board Type:	25	
Loaded Files		
Call Progress Tone File Name:	call_progress_usa.dat	Delete
FXO Coefficient File Name:	MP1xx12-1-12khz-fxo.dat	Delete

8. **Software Update:** Allows you to update configuration files using TFTP or HyperText Transfer Protocol (HTTP).
 - **Software Upgrade Wizard:** Allows you to download the configuration files. This Wizard is helpful when upgrading to version newer than v4.4. To download the files, click **Start Software Upgrade** and follow the instructions on the Wizard.



- **Load Auxiliary Files:** Allows you to upload the INI, Coefficient, and Call Progress Tone files. To upload the files, click **Browse** to select the appropriate file(s), then click **Send File**.

NOTE: Currently the Voice Prompt and Pre Recorded Tones files are not used on Axxess systems.

Auxiliary Files	
Send "INI" file from your computer to the device	
	Browse... Send File
Send FXO "Coefficient" file from your computer to the device*	
	Browse... Send file
Send "Voice Prompt" file from your computer to the device*	
	Browse... Send File
Send "Call Progress Tone" file from your computer to the device	
	Browse... Send File
Send "Pre Recorded Tones" file from your computer to the device*	
	Browse... Send file

9. **Save Configuration:** Click **Save Configuration** to save configuration to the system.
10. **Reset:** Check **Burn** and click **Reset** to restart the system.

Configuring the IPRC

NOTE: The following instructions are used only for a system with a v1.5.1 firmware IPRC. For instructions about how to configure the IPRC with a v8.2.x or later firmware IPRC, see the *Addendum to the v8.0 Installation and Maintenance Manual*.

Once the MP-104 is set up, configure the ports for the MP-104 in the IPRC Web page.

To configure the ports:

1. Open the Web browser and enter the IP address of the IPRC in the **Address** field.
2. Press **ENTER**. The IPRC Administrative Session page appears.
3. Select one of the following fields, depending on how you want to setup the ports:
 - **Quick Setup — Device:** Gives you step by step instructions on how to configure the ports. This is the quickest method.
 - **Circuit Configuration — Device Type and Device Information:** Allows you to manually configure the ports.
4. Select the port (a.k.a. circuit) to configure and follow the instructions below:

*For port 1, select **MGCP Gateway Device + Endpoint** as the device type.*

*For ports 2, 3, and 4, select **MGCP Add'l Endpoint** as the device types.*

NOTE: The same rule applies even when you have more than one gateway installed in a network system. Configure the device type as **MGCP Gateway Device+Endpoint** for port 1 and as **MGCP Add'l Endpoint** for ports 2-4.

Then follow the instructions in the *IP Devices Manual* for the Quick Setup field and Circuit Configuration field.

5. Make sure the connection(s) are active in the Circuit Status page.

The AudioCodes MP-104 Gateway is now ready for connection to the CO.