

Connecting AudioCodes MediaPack 5xx Voice Gateway to Telnyx

Table of Contents

Notice	1
Security Vulnerabilities	1
WEEE EU Directive	1
Customer Support.....	1
Stay in the Loop with AudioCodes.....	1
Abbreviations and Terminology	1
Document Revision Record	1
Documentation Feedback.....	1
1 Introduction	2
2 Prerequisites on Telnyx Side	3
3 MP-5xx configuration steps	4
3.1 Connect to the Web Interface.....	4
3.2 Access Device through Default LAN IP Address	4
3.3 Configure WAN Interface for Voice Gateway.....	5
3.4 Enable Remote Web-based Management from WAN	6
3.5 Configure Proxy Server and Registration	6
3.6 Configure the Endpoint Phone Numbers	8
3.7 Configure Maximum Digits in the Phone Number	8
3.8 Configure Channel Select Mode.....	9
3.9 Configure Fax-related Parameters	9
3.10 Adopting Number Manipulation Rules.....	11

Notice

Information contained in this document is believed to be accurate and reliable at the time of printing. However, due to ongoing product improvements and revisions, AudioCodes cannot guarantee accuracy of printed material after the Date Published nor can it accept responsibility for errors or omissions. Updates to this document can be downloaded from <https://www.audiocodes.com/library/technical-documents>.

This document is subject to change without notice.
Date Published: March-03-2026

Security Vulnerabilities

All security vulnerabilities should be reported to vulnerability@audiocodes.com.

WEEE EU Directive

Pursuant to the WEEE EU Directive, electronic and electrical waste must not be disposed of with unsorted waste. Please contact your local recycling authority for disposal of this product.

Customer Support

Customer technical support and services are provided by AudioCodes or by an authorized AudioCodes Service Partner. For more information on how to buy technical support for AudioCodes products and for contact information, please visit our website at

<https://www.audiocodes.com/services-support/maintenance-and-support>.

Stay in the Loop with AudioCodes



Abbreviations and Terminology

Each abbreviation, unless widely used, is spelled out in full when first used.

Document Revision Record

LTRT	Description
38111	Initial document

Documentation Feedback

AudioCodes continually strives to produce high quality documentation. If you have any comments (suggestions or errors) regarding this document, please fill out the Documentation Feedback form on our website at <https://online.audiocodes.com/documentation-feedback>.

1 Introduction

This document describes how to connect AudioCodes MediaPack MP-50x Voice Gateways to the Telnyx Operator.

2 Prerequisites on Telnyx Side

To connect AudioCodes MediaPack devices to the Telnyx Operator environment prepare the following on the Telnyx side:

- Create SIP Connection from Credentials type on Telnyx
- Copy Telnyx SIP Connection's credentials (username and password)
- Buy and assign DID numbers for this SIP Connection

3 MP-5xx configuration steps

The following steps are required for configuration of the AudioCodes MediaPack (MP-5xx) Voice Gateways.

3.1 Connect to the Web Interface

You can access the Web- based management interface using the device's default LAN IP address:

Table 3-1: Default LAN IP Address

Networking Parameter	Default Value
IP Address	192.168.0.1
Prefix Length	24 (255.255.255.0)
Default Gateway	0.0.0.0
VLAN ID	1



By default, the device's embedded DHCP server is enabled for the LAN, and with default IP pool addresses relating to the default subnet LAN. The DHCP server allocates this pool of IP addresses to computers connected to its LAN interface. You can disable the DHCP server as required.

3.2 Access Device through Default LAN IP Address

The following procedure describes how to initially access the device using the default LAN interface.

To access the device using the default LAN IP address:

1. Connect the LAN Port directly to your computer's network interface using a straight-through Ethernet cable:



Make sure that your computer is configured to automatically obtain an IP address. The device has an embedded DHCP server, which by default, allocates IP addresses to connected computers.

2. On your computer, start a Web browser and in the URL address field, enter the device's default IP address (see table above); the Web interface's Web Login screen appears:

The screenshot shows a web browser window titled "Web Login". It contains two input fields: "Username" and "Password". Below the "Password" field is a checkbox labeled "Remember Me". To the right of the "Remember Me" checkbox is a blue button labeled "Log In".

3. In the 'Username' and 'Password' fields, enter the case-sensitive, default login username (**Admin**) and password (**Admin**).
4. Click **Log In**.

3.3 Configure WAN Interface for Voice Gateway

The following procedure describes how to configure the device's WAN interface using Gigabit Ethernet (GigabitEthernet 0/0), which is the main interface for connecting the device to the Voice network.



Before configuring the WAN interface, make sure that you have all the required information from your Internet Telephony Service Provider (ITSP).

To configure a WAN IP address:

1. Connect the WAN port to the WAN network (for more information on cabling, refer to the [Hardware Installation Manual](#).)
2. Open the WAN Interface page (**Setup** menu > **Ip Network** tab > **Core Entities** folder > **WAN Interface**).
3. On this page, you can configure:
 - WAN (static or DHCP client - Default WAN interface is **DHCP Client**)
 - DNS (static or Auto - Default DNS settings is **Auto**)

3.4 Enable Remote Web-based Management from WAN

After you have accessed the device through its LAN interface for initial setup, you can enable Web management access from the WAN interface.

To enable remote Web-based management (HTTP/S) from WAN:

1. Open the WEB Settings page (**Setup** menu > **Administration** tab > **Web & CLI** folder > **WEB Settings**).
2. Allow WAN access:
 - For **HTTP**: From the 'Allow WAN access to HTTP' drop-down list, select **Enable**.
 - For **HTTPS**: From the 'Allow WAN access to HTTPS' drop-down list, select **Enable**.
3. Click **Apply** and save to flash.

3.5 Configure Proxy Server and Registration

The following procedure describes how to configure the Proxy Server and SIP registration.

To configure registration:

1. Open the Proxy and Registration page (**Setup** menu > **Signaling & Media** tab > **SIP Definitions** folder > **Proxy & Registration**).
2. From the 'Use Default Proxy' drop-down list, select **Use Proxy**.
3. In the Authentication Section, fill username and password from the Telnyx SIP Connection (saved during prerequisite step, see Chapter 2 above).

Figure 1: Proxy & Registration

The screenshot shows the Audiocodes MP-508 configuration interface. The top navigation bar includes 'MP-508', 'IP NETWORK', 'SIGNALING & MEDIA', and 'ADMINISTRATION'. The left sidebar shows a 'TOPOLOGY VIEW' with various categories like 'CORE ENTITIES', 'CODERS & PROFILES', 'SBC', 'GATEWAY', and 'SIP DEFINITIONS'. The main content area is titled 'Proxy & Registration' and is divided into several sections:

- GENERAL**: Includes fields for Redundancy Mode (Parking), Proxy IP List Refresh Time (60), Proxy DNS Query Type (A-Record), Number of RTX Before Hot-Swap (3), Use Proxy IP as Host (Disable), User-Information Usage (Disable), Add Empty Authorization Header (Disable), Gateway Name, Use Gateway Name for OPTIONS (No), and Challenge Caching Mode (None).
- GATEWAY PROXY**: Includes a dropdown for 'Use Default Proxy' (set to 'Use Proxy'), Proxy Name, Prefer Routing Table (No), Use Routing Table for Host Names and Profiles (Disable), Always Use Proxy (Disable), and Enable Fallback to Routing Table (Disable).
- REGISTRATION**: Includes fields for Registration Time (180) and Re-registration Timing [%] (50).
- AUTHENTICATION**: Includes fields for User Name and Password, both of which are redacted with a grey box.
- SBC AUTHENTICATION**: Includes a field for Cnonce (Default_Cnonce).

At the bottom of the page, there are 'Cancel' and 'APPLY' buttons.

4. From 'Authentication Mode' drop-down list, select **Per Gateway**.
5. From the 'Enable Registration' drop-down list, select **Enable**.
6. In the 'Registrar Name' field, enter regional Telnyx FQDN (e.g., sip.telnyx.com).

Figure 2: Proxy & Registration

The screenshot shows the Audiocodes MP-508 configuration interface for Proxy & Registration. The interface is divided into several sections:

- Registration Time Thresholds:** Re-register On INVITE Failure (Disable), ReRegister On Connection Failure (Disable), GRUU (Disable), Max Generated Register Rate (9).
- Authentication Quality of Protection:** BYE Authentication (Disable).
- GATEWAY AUTHENTICATION:** Authentication Mode (Per Gateway).
- GATEWAY REGISTRATION:** Enable Registration (Enable), Registrar Name (sip.telnyx.com), Registrar IP Address, Registrar Transport Type (Not Configured), Set Out-Of-Service On Registration Failure (Disable).
- SBC REGISTRATION:** User Registration Time [sec] (0), Proxy Registration Time [sec] (0), Survivability Registration Time [sec] (0), User Registration Grace Time [sec] (0), GRUU Mode (As Proxy), DB Routing Search Mode (All permutations), Shared Line Registration Mode (As Configured), URI Comparison Excluded Parameters (ALL).

At the bottom, there are buttons for Register, Un-Register, Cancel, and APPLY. A green arrow points to the APPLY button.

7. Click **Apply**.

To Configure Default Proxy Set:

1. Open the Proxy Sets page (**Setup** menu > **Signaling & Media** tab > **Core Entities** folder > **Proxy Sets**), click the Proxy Set **ProxySet_0**, and then click the **Proxy Address** link located below the table; the Proxy Address table opens.
2. Click **+New**; and configure following parameters:
 - In the 'Proxy Address' field, enter the regional Telnyx FQDN, followed by the port number (e.g., *sip.telnyx.com:5060*).
 - From the 'Transport Type' drop-down list, select **TCP**.

Figure 3: Default Proxy Sets Table

The screenshot shows the Proxy Address configuration dialog box. The dialog has a title bar 'Proxy Address' and a 'GENERAL' section. The fields are:

- Index: 0
- Proxy Address: sip.telnyx.com:5060
- Transport Type: TCP
- Proxy Priority: 0
- Proxy Random Weight: 0

At the bottom, there are buttons for Cancel and APPLY.

3. Click **Apply**.

3.6 Configure the Endpoint Phone Numbers

The 'Trunk Groups' Table allows you to activate the MP-5xx FXS ports (endpoints) by defining telephone numbers. The configuration below uses the example ATA destination phone number '+441234567890'.

To Configure FXS Ports (Trunk Groups):

1. Open the Trunk Groups page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Trunks & Groups** folder > **Trunk Groups**).
2. Configure the appropriate Module and Channel with phone number.

Figure 4: Trunk Groups Table Page

GROUP INDEX	MODULE	FROM TRUNK	TO TRUNK	CHANNELS	PHONE NUMBER	TRUNK GROUP ID	TEL PROFILE NAME
1	Module 2 FXS			1	+441234567890		None
2							None

3. Click **Apply**.

3.7 Configure Maximum Digits in the Phone Number

The following procedure describes how to configure the 'Maximum Digits in Phone Number'.

To Configure Maximum Digits in the phone number:

1. Open the DTMF & Dialing page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **DTMF and Supplementary** folder > **DTMF & Dialing**).
2. In the 'Max Digits In Phone Num' field, enter the value of the Maximum Digits in the Phone Number (e.g., 20).

Figure 5: DTMF & Dialing Page

The screenshot shows the Audiocodes configuration interface. The left sidebar shows a navigation tree with 'DTMF & Dialing' selected. The main content area is titled 'DTMF & Dialing' and contains a 'GENERAL' section. In this section, the 'Max Digits In Phone Num' field is highlighted with a green box and has a value of 20. Other fields include 'Inter Digit Timeout for Overlap Dialing [sec]' (4), 'Declare RFC 2833 In SDP' (Yes), '1st Tx DTMF Option', '2nd Tx DTMF Option', 'RFC 2833 Payload Type' (96), and 'Default Destination Number' (1000).

3. Click **Apply**.

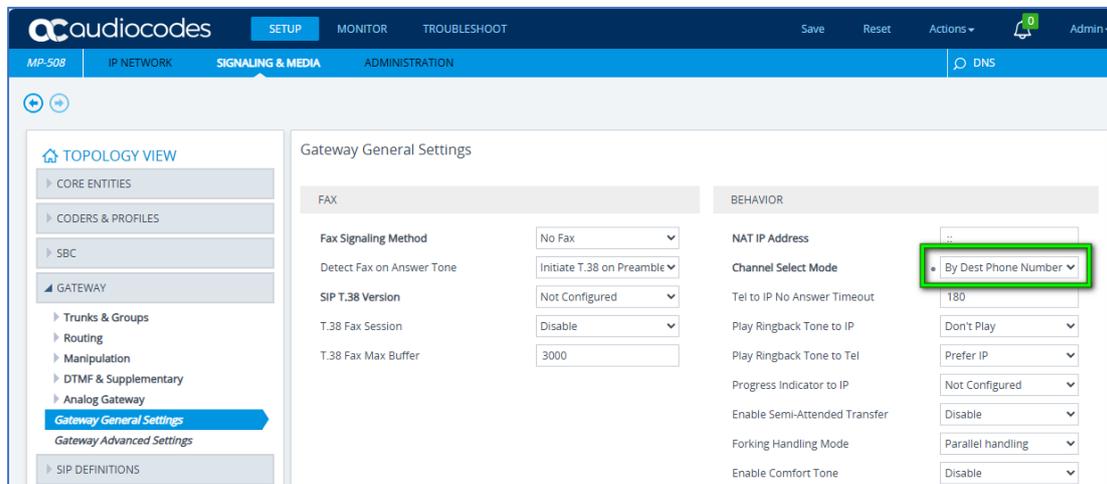
3.8 Configure Channel Select Mode

The following procedure describes how to configure the Channel Select Mode.

To Configure Channel Select Mode:

1. Open the Gateway General Settings page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Gateway General Settings**).
2. From 'Channel Select Mode' drop-down list, select **By Dest Phone Number**.

Figure 6: Channel Select Mode



3. Click **Apply**.

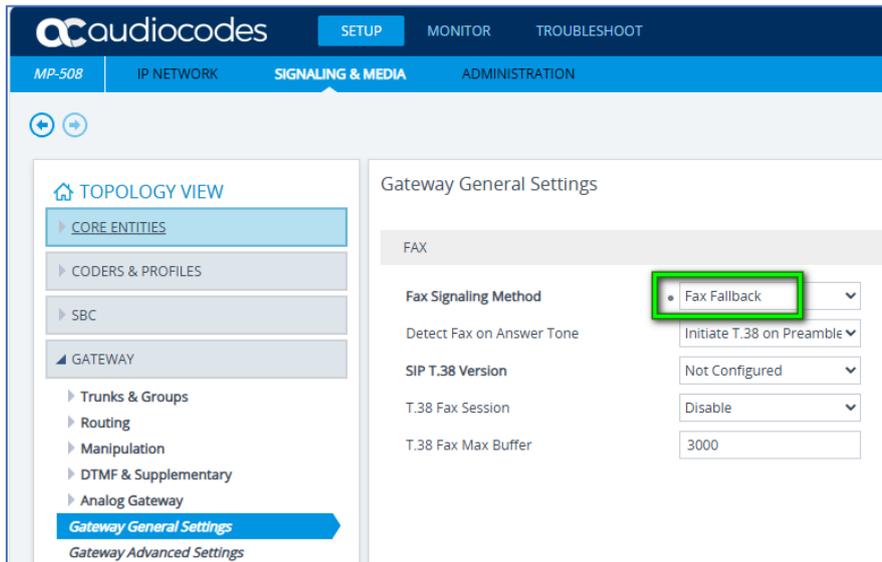
3.9 Configure Fax-related Parameters

In most cases ATA devices are used for interconnecting fax devices. This step describes how to configure the fax-related parameters on the MP-5xx device.

To Configure Fax-related parameters:

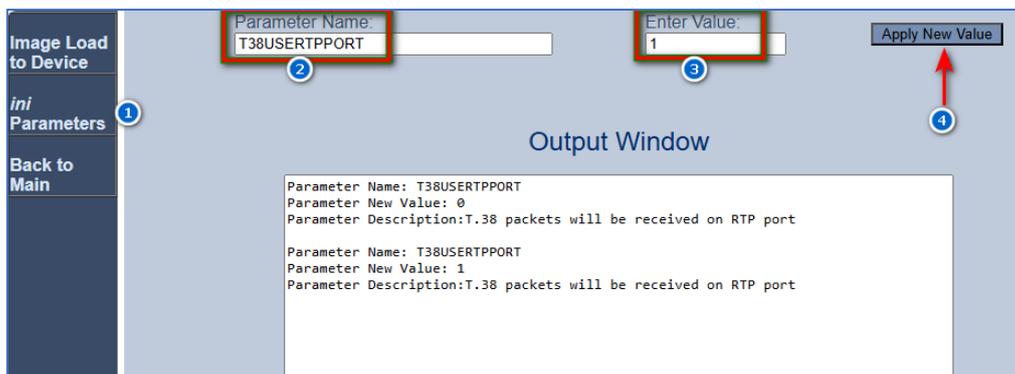
1. Open the Gateway General Settings page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Gateway General Settings**).
2. From the 'FAX Signaling Method' drop-down list, select **Fax Fallback**.

Figure 7: Fax Signaling Method



3. Click **Apply**.
4. Configure the following parameters to overcome firewall issues:
 - Open the Admin page: Append the case-sensitive suffix 'AdminPage' to the device's IP address in your Web browser's URL field (e.g., *http://10.10.10.10/AdminPage*).
 - In the left pane of the page that opens, click **ini Parameters**.

Figure 8: Configuring fax related parameter in AdminPage



5. Enter the following values in the 'Parameter Name' and 'Enter Value' fields:

Parameter	Value
T38UseRTPPort	1

6. Click **Apply New Value**.

3.10 Adopting Number Manipulation Rules

There are differences in the dialing formats for National and International dialing which can be implemented using full E.164 format (leading '+') or leading '0' or leading '00'. This implementation is managed in the Number Manipulation Table.

To configure Number Manipulation rules:

1. Open the Gateway General Settings page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Manipulation** > **Dest Number Tel** -> **IP**).
2. For Outbound calls, add the following two rules to handle situations when '0' or '00' is dialed at the beginning of the called number. Adjust the Country code according to your country.
3. Click **+New**; and configure following parameters:
 - In the 'Name' field, enter meaningful name (e.g., Replace 00 by +).
 - In the 'Destination Phone Pattern' field, enter '00'.
 - In the 'Stripped Digits From Left' field, enter '2'.
 - In the 'Prefix to Add' field, enter '+'.

Figure 9: '00' Manipulation Rule

GENERAL		ACTION	
Index	0	Stripped Digits From Left	2
Name	Replace 00 by +	Stripped Digits From Right	0
MATCH		Number of Digits to Leave	255
Source Trunk Group	-1	Prefix to Add	+
Source Phone Pattern	*	Suffix to Add	
Destination Phone Pattern	00	TON	
Destination IP Group	Any	NPI	
		Presentation	

Cancel APPLY

4. Click **Apply**.
5. Add another rule for '0' at the beginning of the Called number, that will be replaced by your country code (e.g., '+44' for UK).

Figure 10: '0' Manipulation Rule

6. Click **Apply**.

Figure 11: Example of the Number Manipulation Rules

Destination Phone Number Manipulation for Tel-to-IP Calls (2)

+ New Edit Insert ↑ ↓ | Page 1 of 1 | Show 10 records per page

INDEX ↕	NAME	DESTINATION PHONE PATTERN	STRIPPED DIGITS FROM LEFT	STRIPPED DIGITS FROM RIGHT	NUMBER OF DIGITS TO LEAVE	PREFIX TO ADD	SUFFIX TO ADD
0	Replace 00 by +	00	2	0	255	+	
1	Replace 0 by +44	0	1	0	255	+44	

International Headquarters
Naimi Park
6 Ofra Haza Street
Or Yehuda, 6032303, Israel
Tel: +972-3-976-4000
Fax: +972-3-976-4040

AudioCodes Inc.
80 Kingsbridge Rd
Piscataway, NJ 08854, USA
Tel: +1-732-469-0880
Fax: +1-732-469-2298

Contact us: <https://www.audiocodes.com/corporate/offices-worldwide>
Website: <https://www.audiocodes.com>

©2026 AudioCodes Ltd. All rights reserved. AudioCodes, AC, HD VoIP, HD VoIP Sounds Better, IPmedia, Mediant, MediaPack, What's Inside Matters, OSN, SmartTAP, User Management Pack, VMAS, VoIPerfect, VoIPerfectHD, Your Gateway To VoIP, 3GX, AudioCodes One Voice, AudioCodes Meeting Insights, and AudioCodes Room Experience are trademarks or registered trademarks of AudioCodes Limited. All other products or trademarks are property of their respective owners. Product specifications are subject to change without notice.

Document #: LTRT-38111

