

## Basic Configuration MP-5xx Analog VoIP Gateways

Version 7.2





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## Notice

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## WEEE EU Directive

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## 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.

## Important Notes



This document describes the **recommended** configuration for a typical deployment scenario. However, your deployment may require additional or other settings specific to your network topology. If you have any questions regarding required configuration, please contact your AudioCodes sales representative.

## Related Documentation

Description
<a href="#">MediaPack 504/508 (MP 5xx) Hardware Installation Manual</a>
<a href="#">User's Manual</a>
<a href="#">MSBR Series CLI Reference Guide</a>

## Document Revision Record

LTRT	Description
31635	Initial document release for Version 7.2.
31636	Voice configuration updated.
31638	Product name change.
31639	WAN illustration

## 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

Welcome to AudioCodes MediaPack 5xx (MP-5xx) analog voice gateway series (hereafter, referred to as *device*).

## 2 Getting Started with Initial Connectivity

This section describes how to initially access the device's management interface.

### 2.1 Accessing Device's Management Interface

This section describes initial access to the device's management interface.



After accessing the device through the LAN interface, you can configure Web management access from one of the following interfaces:

- Any of the configured Voice Gateway LAN interfaces (default LAN interface is 192.168.0.1).
- WAN port interface: You need to enable remote access to the WAN port interface, as described in Section Enabling Remote Web-based Management.

#### 2.1.1 Connecting to the Web Interface

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

**Table 2-1: 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.

## 2.1.2 Accessing 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:

**Web Login**

**Username**

**Password**

Remember Me

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

## 2.2 Configuring WAN Interface for Voice Gateway

This section 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, you can 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**)

WAN Interface	
<b>INTERFACE INFORMATION</b>	
Name	GigabitEthernet 0/0
Description	WAN Copper
Status	Connected
State Time	05:43:21
<b>WAN SETTINGS</b>	
IP Address Mode	DHCP
IP Address	10.4.2.47
Subnet Mask	255.255.0.0
Add Default Route to DHCP Gateway	<input checked="" type="checkbox"/>
<b>DNS SETTINGS</b>	
DNS Server Mode	Auto
Primary DNS Server IP Address	10.1.1.10
Secondary DNS Server IP Address	10.1.1.6
<input type="button" value="Cancel"/> <input type="button" value="Apply"/>	



## 2.3 Enabling Remote Web-based Management from WAN

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

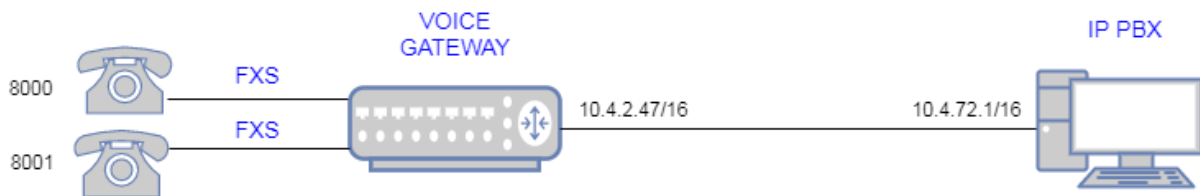
**To enable remote Web-based management (HTTP/S) from WAN:**

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 Voice Gateway using Proxy Server

This example scenario describes how to route calls when the Voice Gateway is configured to operate using a SIP proxy server and FXS ports (basic configuration).

**Figure 3-1: Example of Voice Gateway using SIP Proxy and FXS Ports**



### 3.1 WAN Interface Configuration

This section describes the WAN Interface configuration of the Voice Gateway.

**To configure WAN IP address:**

- Open the **WAN Interface** page (**Setup** menu > **IP NETWORK** tab > **CORE ENTITIES** folder > **WAN Interface**).

WAN Interface	
<b>INTERFACE INFORMATION</b>	
Name	GigabitEthernet 0/0
Description	WAN Copper
Status	Connected
State Time	06:06:28
<b>DNS SETTINGS</b>	
DNS Server Mode	Auto
Primary DNS Server IP Address	10.1.1.10
Secondary DNS Server IP Address	10.1.1.6
<b>WAN SETTINGS</b>	
IP Address Mode	DHCP
IP Address	10.4.2.47
Subnet Mask	255.255.0.0
Add Default Route to DHCP Gateway	<input checked="" type="checkbox"/>

Cancel **Apply**

## 3.2 Voice Configuration

This section describes voice configuration on the Voice Gateway.

### 3.2.1 Configuring Proxy Server Address

This section describes how to configure a SIP proxy server address (IP address or hostname).

To configure proxy server address:

1. Open the Proxy Sets page (**Setup** menu > **Signaling & Media** tab > **Core Entities** folder > **Proxy Sets**).
2. Click **New**.
3. Configure a Proxy Set with an address.

Proxy Sets (1)

[+ New](#) [Edit](#) [Delete](#) Page 1 of 1 Show 10 records per page

INDEX	NAME	SRD	GATEWAY IPV4 SIP INTERFACE	PROXY KEEP-ALIVE TIME [SEC]	REDUNDANCY MODE	PROXY HOT SWAP
0	ProxySet_0	DefaultSRD (#0)	SIPInterface_0	60		Disable

---

#0[ProxySet\_0] ■ DefaultSRD [Edit](#)

**GENERAL**

Name	ProxySet_0
Gateway IPv4 SIP Interface	SIPInterface_0 <a href="#">View</a>
Gateway IPv6 SIP Interface	.. <a href="#">View</a>
TLS Context Name	.. <a href="#">View</a>

**KEEP ALIVE**

Proxy Keep-Alive	Disable
Proxy Keep-Alive Time [sec]	60
Keep-Alive Failure Responses	
Success Detection Retries	1
Success Detection Interval	10
Failure Detection Retransmissions	-1

**REDUNDANCY**

Redundancy Mode	
Proxy Hot Swap	Disable
Proxy Load Balancing Method	Disable
Min. Active Servers for Load Bal...	1

**ADVANCED**

Classification Input	IP Address only
DNS Resolve Method	
Accept DHCP Proxy List	Disable

[Proxy Address 0 Items >>](#)

### 3.2.2 Configuring FXS Ports (Trunk Groups)

This section describes how to configure (enable) the FXS ports used by the Voice Gateway.

To configure FXS ports (Trunk Groups):

- Open the Trunk Groups page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Trunks & Groups** folder > **Trunk Groups**).

Trunk Groups

Add Phone Context As Prefix Disable ▾  
1-12 ▾

GROUP INDEX	MODULE	FROM TRUNK	TO TRUNK	CHANNELS	PHONE NUMBER	TRUNK GROUP ID	TEL PROFILE NAME
1	Module 2 FXS ▾	▾	▾	1	8000	1	None ▾
2	Module 2 FXS ▾	▾	▾	2	8001	1	None ▾
3	▾	▾	▾				None ▾
4	▾	▾	▾				None ▾
5	▾	▾	▾				None ▾
6	▾	▾	▾				None ▾
7	▾	▾	▾				None ▾
8	▾	▾	▾				None ▾
9	▾	▾	▾				None ▾
10	▾	▾	▾				None ▾
11	▾	▾	▾				None ▾
12	▾	▾	▾				None ▾

[Register](#) [Un-Register](#)

[Cancel](#) [APPLY](#)

### 3.2.3 Configuring Trunk Group Settings

This section describes how to configure various settings for the FXS endpoints (Trunk Group).

To configure Trunk Group Settings:

- Open the Trunk Group Settings page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Trunks & Groups** folder > **Trunk Group Settings**).

Trunk Group Settings (1)

[+ New](#) [Edit](#) [Insert](#) | [Action](#) Page 1 of 1 Show 10 records per page

INDEX	NAME	TRUNK GROUP ID	CHANNEL SELECT MODE	REGISTRATION MODE	SERVING IP GROUP	ADMIN STATE	STATUS
0		1	By Dest Phone Number		..	Unlocked	

#0 [Edit](#)

**GENERAL**

Name

Trunk Group ID • 1

Channel Select Mode • By Dest Phone Number

Registration Mode

Used By Routing Server Not Used

**SIP CONFIGURATION**

Gateway Name

Contact User

Serving IP Group .. [View](#)

MWI Interrogation Type

**STATUS**

Admin State Unlocked

Status

### 3.2.4 Configuring FXS Authentication

This section describes how to configure authentication (username and password) for the FXS endpoints.

To configure FXS Authentication:

- Open the Authentication page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Analog Gateway** folder > **Authentication**).

The screenshot shows the 'Authentication' configuration page. At the top, there is a table with columns: INDEX #, MODULE, PORT, PORT TYPE, USER NAME, and PASSWORD. The table contains 8 rows of data. Below the table, there is a section for entry '#0' with two sub-sections: 'GENERAL' and 'CREDENTIALS'. The 'GENERAL' section includes fields for Module (2), Port (1), and Port Type (FXS). The 'CREDENTIALS' section includes fields for User Name (8000) and Password (\*).



Instead of using the Authentication table (as described in this section), you can use the Account table.

### 3.2.5 Configuring Proxy and Registration

This section describes how to enable the use of a SIP proxy server.

To configure proxy and registration:

- Open the Proxy & Registration page (**Setup** menu > **Signaling & Media** tab > **SIP Definitions** folder > **Proxy & Registration**).

The screenshot shows the 'Proxy & Registration' configuration page. It is divided into several sections:
 

- GENERAL:** Includes settings 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).
- REGISTRATION:** Includes settings for Registration Time (180), Re-registration Timing [%] (50), Registration Retry Time (30), Max Registration Backoff Time [sec] (0), Registration Time Threshold (0), Re-register On INVITE Failure (Disable), ReRegister On Connection Failure (Disable), Gateway Registration Name, and (CR) I.I. (Disable).
- GATEWAY PROXY:** Includes settings for Use Default Proxy (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).
- AUTHENTICATION:** Includes fields for User Name, Password, and Cnonce (Default\_Cnonce).
- GATEWAY AUTHENTICATION:** Includes Authentication Mode (Per Endpoint).
- GATEWAY REGISTRATION:** Includes settings for Enable Registration (Enable), Registrar Name, and Registrar IP Address.

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

2. Configure the parameters that are relevant to registration and proxy, for example:
  - 'Use Default Proxy': **Use Proxy**
  - 'Enable Registration': **Enable**



If you want to use Tel-to-IP routing rules (Tel-to-IP Routing table) instead of a proxy server, then configure the 'Use Default Proxy' parameter to **Don't Use Proxy**.

### 3.2.6 Configuring IP-to-Tel Routing

This section describes how to configure IP-to-Tel call routing rules.

To configure IP-to-Tel routing:

- Open the IP -> Tel Routing page (**Setup** menu > **Signaling & Media** tab > **Gateway** folder > **Routing** folder > **IP -> Tel Routing**).

IP-to-Tel Routing (1)

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

INDEX	NAME	SOURCE IP GROUP	SOURCE SIP INTERFACE	SOURCE IP ADDRESS	SOURCE PHONE PATTERN	DESTINATION PHONE PATTERN	TRUNK GROUP ID
0		-	Any	+	+	+	1

#0 Edit

GENERAL		ACTION	
Name		Destination Type	Trunk Group
		Trunk Group ID	1
		Source IP Group	-
		IP Profile	-
		Trunk ID	-1
		Call Setup Rules Set ID	-1

MATCH	
Source SIP Interface	Any <a href="#">View</a>
Source IP Address	+
Source Phone Pattern	+
Source Host Pattern	+
Source Tag	
Destination Phone Pattern	+
Destination Host Pattern	+
Destination Tag	

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