

Basic FXO Gateway Configuration

Mediatrix units with FXO ports

DGW 49.2.2941

2023-08-09

Table of Contents

Information to Know Before Starting	3
Configuring the Mediatrix Unit	4
Logging on to the Mediatrix Unit Web Interface	4
Configuring the Default SIP Servers	5
Creating a Hunt	5
Creating a New Route	6
Configuring Automatic Call Activation on All FXO Ports	7
Configuring Automatic Call Activation on a Specific FXO Port	7
Configuring the Country for all Endpoints	8
Configuring the Dial Tone Detection	9
Configuring the Answering Delay	9
Configuring the Far End Disconnect Parameters	10
Restarting Services	11
Online Help	12
Available Documentation	13
Copyright Notice	14

Information to Know Before Starting

Before starting to use these configuration notes, complete the following table to make sure you have the required information to complete the different steps.

IMPORTANT: If you are not familiar with the meaning of the fields and buttons, click **Show Help**, located at the upper right corner of the Web page. When activated, the fields and buttons that offer online help will change to green and if you hover over them, the description will be displayed.

Note: The Mediatrix unit must be reinitialised to its factory default settings to make sure the configuration can be successfully executed.

This document includes the basic configuration of an FXO gateway. If you wish to add registration and authentication, refer to the [Technical Bulletin - Basic SIP Unit Registration](#) and [DGW Configuration Guide - SIP Authentication](#) documentation published on the [Media5 Documentation Portal](#).

Information	Value	Used in Step
IP address of unit		Logging on to the Mediatrix Unit Web Interface (p.4)
IP address or FQDN of Registrar host		Configuring the Default SIP Servers (p.5)
IP address or FQDN of Proxy host		Configuring the Default SIP Servers (p.5)

Configuring the Mediatrix Unit

Logging on to the Mediatrix Unit Web Interface

Before you start

The computer IP address must be in the same TCP/IP network as the Mediatrix unit.

Information

For better performances, it is recommended to use the latest available version of Microsoft Internet Explorer, Google Chrome, or Mozilla Firefox.

Note: You may not be able to log on to the Mediatrix unit Web interface if you are using older browser versions.

Steps

- 1) In your Web browser, enter the IP address at which the Web interface of your Mediatrix unit can be reached.
 - If your network has an IPv4 DHCP server, connect the primary Ethernet port of the Mediatrix unit to the network (ETH1 port), use the provided DHCP server IP address.
 - You can also connect your computer to the secondary Ethernet port of the Mediatrix unit (ETH2), use the 192.168.0.10 IP address. However, the computer must also own an IP address in the 192.168.0.0/24 network.
- 2) Enter **admin** as your username and **administrator** as the password.

Note: You can also use **public** as a username and leave the password field empty; it has the full administration rights by default.

- 3) Click **Login**.

Result

The **Information** page of the Web interface is displayed.

Related tasks

[Configuring the Default SIP Servers](#) (p.5)

Configuring the Default SIP Servers

Information

In some instances, the configuration of the default servers may already be completed.

Steps

- 1) Go to **SIP/Servers**.
- 2) In the **Registrar Host** field, indicate the server IP address or FQDN of the SIP Registrar server .
- 3) In the **Proxy Host** field, indicate the server IP address or FQDN of the SIP Proxy server.
- 4) In the **Messaging Server Host** field, indicate the server IP address or FQDN of the Messaging server, if needed.
- 5) Leave the **Outbound Proxy Host** field empty, unless specifically instructed to set a value.

Note: Setting the address to 0.0.0.0:0 or leaving the field empty disables the outbound proxy host.

- 6) Click **Apply**.
- 7) Located at the top of the page, click **restart required services**.

Result

Default Servers	
Registrar Host:	sip.registrarserver.com
Proxy Host:	sip.proxyserver.com
Messaging Server Host:	
Outbound Proxy Host:	

Next Step

[Creating a Hunt](#) (p.5)

Creating a Hunt

Steps

- 1) Go to **Call Router/Route Config**.
- 2) In the **Hunt** table, click **+**.
- 3) In the **Name** field, type FXO_Hunt.

- 4) From the drop box next to the **Destinations** field, select **fxo-FXO1**, **fxo-FXO2**, **fxo-FXO3**, **fxo-FXO4**.
- 5) From the drop box next to the **Causes** field, select the causes pertinent to your situation.
- 6) Click **Save**.

Result

Configure New Hunt	
	Suggestion
Name	FXO_Hunt
Destinations	fxo-FXO1, fxo-FXO2, fxo-FXO3, fxo-FXO4 --- Suggestion ---
Selection Algorithm	Sequential
Timeout (seconds)	0
Causes	31, 34, 38, 41, 42, 43, 44, 47 --- Suggestion ---
Config Status	

Next Step

[Creating a New Route](#) (p.6)

Creating a New Route

Before you start

The task [Creating a Hunt](#) (p.5) must be completed.

Steps

- 1) Go to **Call Router/Route Config**.
- 2) In the **Routes** table, click **+**.
- 3) From the dropbox next to the **Sources** field, select **sip-default**.
- 4) From the dropbox next to the **Destination** field, select hunt-FXO_Hunt.
- 5) Click **Save**.
- 6) In the **Routes** table, click **+**.
- 7) From the dropbox next to the **Sources**, select all the used FXO port.
- 8) In the **Destination** field, set **sip-default**.
- 9) Click **Save** to apply the new configuration.

Result

Routes							
Index	Sources	Criteria Property	Criteria Rule	Transformations	Signaling Properties	Destination	
1	sip-default	None				hunt-FXO_Hunt	   
2	fxo-Slot4/FXO1,fxo-Slot4/FXO2,fxo-Slot4/FXO3,fxo-Slot4/FXO4	None				sip-default	   
							

Next Step

Configuring Automatic Call Activation on All FXO Ports (p.7)

Configuring Automatic Call Activation on All FXO Ports

Steps

- 1) Go to **Telephony/Services**.
- 2) Set the **Select Endpoint** selection list to **Default**.
- 3) Set the **Automatic Call Activation** to **Enable**.
- 4) Set the **Automatic Call Target** to the SIP server IVR or desired extension number.

Result

Select Endpoint:

Services Configuration		Unit Defaults
General Configuration		
Hook Flash Processing:		Process Locally
Automatic Call		
Automatic Call Activation:		Enable
Automatic Call Target:		example

Next Step

Configuring Automatic Call Activation on a Specific FXO Port (p.7)

Configuring Automatic Call Activation on a Specific FXO Port

Before you start

These steps are applicable only if the unit performs survivability through FXO ports.

Steps

- 1) Go to **Telephony/Services**.
- 2) From the **Select Endpoint** selection list, select the FXO endpoint to configure.

- 3) In the **Automatic Call** section, set the **Endpoint Specific** selection list to **Yes**.
- 4) Set the **Automatic Call Activation** selection list to **Enable**.
- 5) Set the **Automatic Call Target** selection list to the SIP server IVR or desired extension number.
- 6) Repeat the steps 2 to 5 for each FXO endpoint to configure.
- 7) Click **Apply**.

Result

Calls from the selected endpoints lines will be sent to the configured destination number in the SIP server.

Select Endpoint: FXO1 ▼

Services Configuration	Unit Defaults	Endpoint Specific
General Configuration		
Endpoint Specific:		No ▼
Hook Flash Processing:	Process Locally	Process Locally ▼
Automatic Call		
Endpoint Specific:		Yes ▼
Automatic Call Activation:	Disable	Enable ▼
Automatic Call Target:		example

Next Step

[Configuring the Country for all Endpoints \(p.8\)](#)

Configuring the Country for all Endpoints

Steps

- 1) Go to **Telephony/Misc**.
- 2) Make sure the **Select Endpoint** drop-down list is set to **Default**.
- 3) In the **Country** table, select your country from the drop-down list.
- 4) Click **Apply**.

Result

Country	
Country Selection:	NorthAmerica1 ▼

Next Step

[Configuring the Dial Tone Detection](#) (p.9)

Configuring the Dial Tone Detection

Information

It allows the Mediatrix unit to wait for a dial tone before initiating the dialing sequence. If no dial tone is detected, the line is considered busy.

Steps

- 1) Go to **POTS/FXO Configuration**.
- 2) In the **FXO Dialing Configuration** table, from the **Dial Tone Detection Mode** drop box, select **CountryTone**.

Note: Not all PBX manufacturers produce the country dial tone on the extension line. If this is the case, make sure the **Dial Tone Detection Mode** is disabled, otherwise the Mediatrix unit will not output dialed digits.

Note: Not all PSTN switches produce the country dial tone on the PSTN line. If this is the case, make sure the **Dial Tone Detection Mode** is disabled, otherwise the Mediatrix unit will not output dialed digits.

- 3) Click **Apply**.

Result

FXO Dialing Configuration	
Pre Dial Delay (ms):	0
Dial Tone Detection Mode:	CountryTone ▼
Dial Tone Detection Timeout (ms):	

Next Step

[Configuring the Answering Delay](#) (p.9)

Configuring the Answering Delay

Steps

- 1) Go to **POTS/FXO Configuration**.

- 2) In the **FXO Answering Configuration** table, complete the fields as required.

Note: If the PBX does not pass the caller ID to the Mediatrix unit, you can reduce the **Wait Before Answering Delay** to **2500** to reduce the time before the Mediatrix unit goes off-hook upon ring detection.

- 3) Click **Apply**.

Next Step

[Configuring the Far End Disconnect Parameters](#) (p.10)

Configuring the Far End Disconnect Parameters

Information

Steps

- 1) Go to **POTS/FXO Configuration**.
- 2) In the **FXO Force End of Call** table, from the **Force End Of Call On Tone Detection Mode** drop box, select **Custom Tone**.
- 3) Set the **Tone Detection Custom Frequency** field to **350**.

Note: Verify with your PBX supplier what tone (exact frequency and cadence) the PBX produces on the extension when the far end is disconnected.

- 4) Complete the other fields as required.
- 5) Click **Apply**.

Result

FXO Force End Of Call	
Force End Of Call On Call Failure:	Enable ▾
Call Failure Timeout (sec):	30
Force End of Call On Silence Detection Mode:	Disable ▾
Silence Detection Timeout (sec):	300
Force End Of Call On Tone Detection Mode:	Custom Tone ▾
Tone Detection Custom Frequency:	350
Tone Detection Custom Cadence:	
Detection Custom Repetition:	3 x

Next Step

[Restarting Services](#) (p.11)

Restarting Services

Steps

- 1) Go to **System/Services**.
- 2) In the **restart required services** table, click **restart required services**.

Online Help

If you are not familiar with the meaning of the fields and buttons, click **Show Help**, located at the upper right corner of the Web page. When activated, the fields and buttons that offer online help will change to green and if you hover over them, the description will be displayed.

Available Documentation

For more details, refer to the [Mediatrix Documentation](#) published on the [Media5 Documentation Portal](#).

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