

Configuring an FXO Mediatrix Gateway as a MS Lync 2010 PSTN Gateway

Mediatrix units with FXO ports

DGW 49.2.2941

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Table of Contents

Information to Know Before Starting	3
Mediatrix Gateway as a MS Lync 2010 PSTN gateway	4
Setting the SIP Proxy Server	4
Configuring Transport Protocols	4
Enabling Default Codecs	5
Configuring DTMF Transport - Out of Band Using RTP	6
Configuring Inbound PSTN Call Handling - Specific Endpoint	6
Creating a Hunt	7
Creating the Inbound and Outbound Routes	8
Parameters	9
DGW Documentation	10
Copyright Notice	11

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.

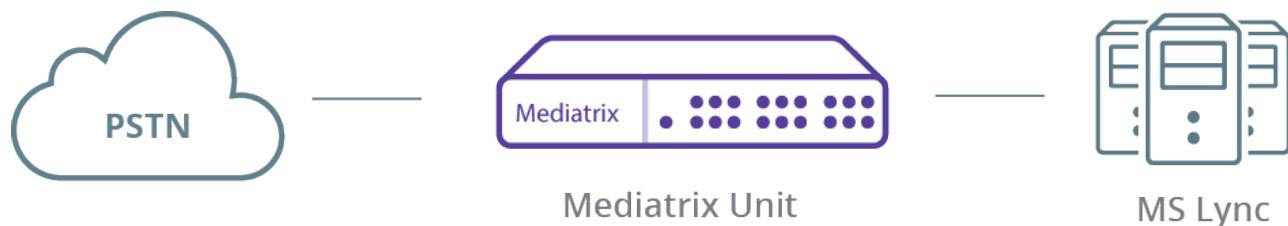
IMPORTANT: If you are not familiar with the meaning of the fields and buttons, click **Show Help**, located at the upper right corner of the Web page. When activated, the fields and buttons that offer online help will change to green and if you hover over them, the description will be displayed.

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

Information	Value	Used in Step
IP address and port of the MS Lync server		Setting the SIP Proxy Server (p.4)

Mediatrix Gateway as a MS Lync 2010 PSTN gateway

This document describes how to configure a Mediatrix gateway as a MS Lync 2010 PSTN gateway.



Note: This document covers SIP over TCP only.

Setting the SIP Proxy Server

Steps

- 1) Go to **SIP/Servers**.
- 2) In the **Default Servers** table, set the **Proxy Host** to the IP address of the MS Lync server followed with its SIP port number.
- 3) Click **Apply**.

Result

Default Servers		
Registrar Host:		
Proxy Host:	IPAddress:portnumber	
Messaging Server Host:		
Outbound Proxy Host:		

Configuring Transport Protocols

Steps

- 1) Go to **SIP/Transport**.
- 2) In the **Protocol Configuration** table, set:
 - a) **UDP** to **Disable**.
 - b) **TCP** to **Enable**.
 - c) **TLS** to **Disable**.

- 3) Click **Apply**.

Result

Protocol Configuration						
UDP	UDP QValue	TCP	TCP QValue	TLS	TLS QValue	
Disable ▾		Enable ▾		Disable ▾		

Enabling Default Codecs

Steps

- 1) Go to **Media/Codecs**.
- 2) From the **Select Codec Bank**, choose if you want the G.722 , the G.723.1, G.726 or G.729 codec.

Note: All Codec Banks include the T.38, the Clear Mode, the Clear Channel, and the X-CCD codecs.

- 3) In the **Codec** table, select the desired codecs and **Enable** / **Disable** them.

Note: Codecs that appear in Red are not part of the selected codec Bank, thus they can be disabled without a problem.

- 4) Click  for Advanced codec settings.

Note: When enabling two codecs or more, the priority order can be modified by selecting the advanced options.

- 5) Click **Apply**.

Result

Select Codec Bank: **G.723.1, G.726, and G.729** (always includes G.711, T.38, Clear Mode, Clear Channel, and X-CCD)

Select Endpoint: **Default**

Codec	Voice	Data	Advanced	
G.711 a-Law	Enable	Enable		
G.711 u-Law	Enable	Enable		
G.722	Disable			
G.723.1	Disable			
G.726 16Kbps	Disable			
G.726 24Kbps	Disable			
G.726 32Kbps	Disable	Disable		
G.726 40Kbps	Disable	Disable		
G.729	Enable			
T.38		Enable		
Clear Mode	Disable	Disable		
Clear Channel	Disable	Enable		
X-CCD	Disable	Disable		

Configuring DTMF Transport - Out of Band Using RTP

Steps

- 1) Go to **Media/Misc.**
- 2) In the **DTMF Transport** table, set the **Transport Method** to **Out-of-Band using RTP**.
- 3) In the **Payload Type** field, type 101.
- 4) Click **Apply**.

Result

DTMF Transport		
Transport Method:	Out-of-Band using RTP	
SIP Transport Method:	Draft Choudhuri SIP Info Digit 00	
Payload Type:	101	

Configuring Inbound PSTN Call Handling - Specific Endpoint

Steps

- 1) Go to **Telephony/Services**.

- 2) Set the **Select Endpoint** to the first port.
 - a) Set **Endpoint Specific** to **Yes**.
 - b) Set **Automatic Call Activation** to **Enable**.
 - c) Set **Automatic Call Target** to the phone number the call has to be forwarded to.
 - d) Click **Apply**.
 - e) Repeat steps **a** to **d** for each port.

Result

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

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		
	Value	Suggestion
Name	FXO_Hunt	
Destinations	fxo-FXO1, fxo0FXO2, fxo-FXO3, fxo-FXO4	--- Suggestion ---
Selection Algorithm	Sequential	
Timeout (seconds)	0	
Causes	31, 34, 38, 41, 42, 43, 44, 47	--- Suggestion ---
Config Status		

Creating the Inbound and Outbound Routes

Before you start

The task [Creating a Hunt](#) (p.7) must be completed.

Steps

- 1) Go to **Call Router/Route Config**.
- 2) In the **Routes** table, click **+**.
- 3) From the drop box next to the **Sources** field, select **sip-default**.
- 4) From the drop box next to the **Destination** field, select hunt-FXO_Hunt.
- 5) Click **Save**.
- 6) In the **Routes** table, click **+**.
- 7) From the drop box 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	   
							

Parameters

Although the services can be configured in great part in the web browser, some aspects of the configuration can only be completed with the MIB parameters by:

- using a MIB browser, such as the Mediatrix Unit Manager Network (UMN);
- using the CLI;
- creating a configuration script containing the configuration parameters.

Parameters for Call Transfer with a Lync Client

- SipEp.InteropSdpDirectionAttributeLevel = MediaAndSessionLevel
- cm.RestartRequiredServices

For more details on parameters, refer to the [Reference Guide](#) published on the Media5 documentation portal. at <https://documentation.media5corp.com>

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DGW Documentation

Mediatrix devices are supplied with an exhaustive set of documentation.

Mediatrix user documentation is available on the [Media5 Documentation Portal](#).

Several types of documents were created to clearly present the information you are looking for. Our documentation includes:

- **Release notes:** Generated at each GA release, this document includes the known and solved issues of the software. It also outlines the changes and the new features the release includes.
- **Configuration notes:** These documents are created to facilitate the configuration of a specific use case. They address a configuration aspect we consider that most users will need to perform. However, in some cases, a configuration note is created after receiving a question from a customer. They provide standard step-by-step procedures detailing the values of the parameters to use. They provide a means of validation and present some conceptual information. The configuration notes are specifically created to guide the user through an aspect of the configuration.
- **Technical bulletins:** These documents are created to facilitate the configuration of a specific technical action, such as performing a firmware upgrade.
- **Hardware installation guide:** They provide the detailed procedure on how to safely and adequately install the unit. It provides information on card installation, cable connections, and how to access for the first time the Management interface.
- **User guide:** The user guide explains how to customise to your needs the configuration of the unit. Although this document is task oriented, it provides conceptual information to help the user understand the purpose and impact of each task. The User Guide will provide information such as where and how TR-069 can be configured in the Management Interface, how to set firewalls, or how to use the CLI to configure parameters that are not available in the Management Interface.
- **Reference guide:** This exhaustive document has been created for advanced users. It includes a description of all the parameters used by all the services of the Mediatrix units. You will find, for example, scripts to configure a specific parameter, notification messages sent by a service, or an action description used to create Rulesets. This document includes reference information such as a dictionary, and it does not include any step-by-step procedures.

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