

BRI Gateway Step-by-Step Configuration

BRI Mediatrix units

DGW 49.2.2941

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Table of Contents

1 Basic Settings	4
1.1 Enabling Power Feeding	4
1.2 Selecting the Source of the Clock Reference	4
1.3 Configuring the Syslog Server	5
1.4 Enabling Diagnostic Traces	5
1.5 Configuring the Default Network Gateway to a Static IP Address	6
1.6 Configuring the SNTP Server to a Static IP Address	7
1.7 Configuring the Domain Name Server (DNS)	8
1.8 Configuring a Network Interface	9
2 ISDN Configuration	10
2.1 Configuring the BRI Interface	10
2.2 Configuring Interoperability	11
2.3 Enabling Calling Line Information Presentation	12
3 SIP Configuration Parameters	14
3.1 Registering Endpoints to All Gateways	14
3.2 Configuring Default SIP Servers	14
3.3 Configuring Endpoint Authentication	15
3.4 Configuring OPTIONS Method Support	16
4 Optional Configuration Parameters	17
4.1 Enabling Default Codecs	17
4.2 Configuring DTMF Transport	18
4.3 Enabling the Payload Type Found in the Answer	19
4.4 Adding the * Star Code Dial Map	19

4.5 Adding the # Key Dial Map	20
5 Configuring the Call Router	21
5.1 Creating a Hunt	21
5.2 Creating a Route from a SIP Gateway to a Destination	22
5.3 Creating a Route from a Physical Interface to a SIP Destination	23
6 Restarting Services	25
7 Online Help	26
8 DGW Documentation	27
9 Copyright Notice	28

1 Basic Settings

1.1 Enabling Power Feeding

Information

Note: Your unit must support Power Feeding.

Steps

- 1) Go to **System/Hardware**.
- 2) From the **BRI Cards Configuration** table, from the **Power Feeding** drop down list, select **Enable**.
- 3) Click **Apply**.

Result

Unit will feed power to the selected BRI interface.

BRI Ports Configuration		
Port	Power Feeding	
Bri1	Enable	▼
Bri2	Disable	▼

Next Step

[Selecting the Source of the Clock Reference \(p.4\)](#)

1.2 Selecting the Source of the Clock Reference

Steps

- 1) Go to **System/Hardware**.
- 2) From the **Clock Reference Configuration** table, select from the **Suggestion** list, several clock reference sources.
- 3) Click **Apply**.

Result

The selected **Clock Reference** sources for each available telephony card, according to the unit type, are displayed in the **Value** field of the **Clock Reference Configuration** table. The first selected source will be used as a the clock reference. The following one will be used as the fallback source, in the listed order, if the first one becomes unavailable. Only one source is used at a time for the **Clock Reference**.

Clock Reference Configuration	
	Suggestion
Clock Reference Source:	Telephony interface --- Suggestion --- ▼

Next Step

[Configuring the Syslog Server \(p.5\)](#)

1.3 Configuring the Syslog Server

Steps

- 1) Go to **System/Event Log**.
- 2) In the **Syslog Configuration** table, in the **Remote Host** field, enter the IP address of the syslog server.

Note: If you are gathering packets using Wireshark, you can also use the IP of the PC that takes the Wireshark capture.

- 3) Click **Apply**.

Result

Syslog Configuration	
Remote Host:	syslog server IP address
Technical Assistance Centre	
Diagnostic Traces:	Disable ▼
Filter:	Edit

1.4 Enabling Diagnostic Traces

Information

Note: Enabling the **Diagnostic Traces** should only be done when debugging an issue, as it can reduce the overall performance of the unit.

Steps

- 1) Go to **System/Syslog**.

- 2) In the **Technical Assistance Center** section (bottom of page), from the selection list located next to **Diagnostic Traces**, select **Enable**.

Result

Technical Assistance Centre	
Diagnostic Traces:	Enable ▼
Filter:	Edit

1.5 Configuring the Default Network Gateway to a Static IP Address

Steps

- 1) Go to **Network/Host**.
- 2) In the **Default Gateway Configuration** table, from the **IPv4/Configuration Source** selection list, select **Static**.
- 3) In the **IPv4/Default Gateway** field, enter the IP address used as the **Static Default Router** for the Uplink Network Interface.
- 4) In the **Default Gateway Configuration** table, from the **IPv6/Configuration Source** selection list, select **Static**.
- 5) In the **IPv6/Default Gateway** field, enter the IP address used as the **Static Default Router** for the Uplink Network Interface.
- 6) Click **Apply**.

Result

The specified address is used as the current default router address.

Default Gateway Configuration	
IPv4	
Configuration Source:	Static
Default Gateway:	IP address
IPv6	
Configuration Source:	Static
Default Gateway:	IP address

1.6 Configuring the SNTP Server to a Static IP Address

Before you start

Make sure there is an SNTP server available.

Steps

- 1) Go to **Network/Host**.
- 2) In the **SNTP Configuration** table, from the **Configuration Source** selection list, select **Static**.
- 3) Provide an IP address or domain name and port numbers for each SNTP server you are using.

Note: The best practice is to use the servers supplied by your Internet Service Provider, then complement with servers from a different network close to your geographical area. For example: time.nist.gov (USA), ntp4.sptime.se (Sweden), time1.isu.net.sa (Saudi Arabia), ntp.nict.jp (Japan), time.google.com (Worldwide), pool.ntp.org or one of their regional server pools (see <https://www.ntppool.org/> for more information).

- 4) If necessary, change the value of the **Synchronisation Period**.
- 5) If necessary, change the value of the **Synchronisation Period on Error**.
- 6) Click **Apply**.

Result

The SNTP host name and port will be displayed in the **Host Status** table under **Network/Status**.

SNTP Configuration	
Configuration Source:	Static
Primary SNTP:	address of primary SNTP server
Secondary SNTP:	address of secondary SNTP server
Third SNTP:	address of third SNTP server
Fourth SNTP:	address of fourth SNTP server
Synchronization Period:	1440
Synchronization Period On Error:	60

1.7 Configuring the Domain Name Server (DNS)

Before you start

Although it is possible to use public DNS servers you should always ask your internet service provider to provide at least the primary and secondary DNS servers.

Steps

- 1) Go to **Network/Host**.
- 2) In the **DNS Configuration** table, form the **Configuration Source** selection list, select **Static**.
- 3) For each DNS used, enter the IP address of the DNS.
- 4) Click **Apply**.

Result

DNS Configuration		
Configuration Source:	Static ▼	
Primary DNS:	Example (Google): 8.8.8.8	
Secondary DNS:	Example (Cloudflare): 1.1.1.1	
Third DNS:	Example (OpenDNS): 208.67.222.222	
Fourth DNS:	Example (Level3): 209.244.0.3	

1.8 Configuring a Network Interface

Information

When configuring network interfaces, Media5 recommends to have a syslog client properly configured and enabled in order to receive any message related to the network interfaces behaviour. The interface used to access the syslog client must also be properly enabled.

Steps

- 1) Go to **Network/Interfaces**.

IMPORTANT: Use extreme care when configuring network interfaces, especially when configuring the network interface used to contact the unit for management. Be careful never to disable or delete the network interface used to contact the unit. Also be careful to always set the unit's management interface to be an interface that you can contact.

- 2) In the **Network Interface Configuration** table, complete the fields as required.
- 3) From the **Activation** drop-down list, select **Enable**.
- 4) Click **Apply**.

2 ISDN Configuration

2.1 Configuring the BRI Interface

Before you start

You must be using a BRI phone.

Steps

- 1) Go to **ISDN/Basic Rate Interface**.
- 2) From the **Select Interface** dropbox, select **Bri1**
- 3) In the **Interface Configuration** table, set **Endpoint Type** to **NT**.
- 4) Set **Connection Type** to **Point to Multipoint**.
- 5) Set **Inband DTMF Dialing** to **Enable**.
- 6) Set **Exclusive B-Channel Selection** to **Enable**.
- 7) Set the **Send Restart On Startup**.
- 8) Leave all the other parameters to their default values.
- 9) From the **Apply To The Following Interfaces** select the interfaces for which the configuration will be applied to.
- 10) Click **Apply**.

Result

Basic Rate Interface

Select Interface: Slot2/Bri1

Interface Configuration	
Endpoint Type:	NT
Clock Mode:	Auto
Monitor Link State:	Enable
Connection Type:	Point To Multipoint
Signaling Protocol:	DSS1
Network Location:	User
Preferred Encoding Scheme:	G.711 a-Law
Fallback Encoding Scheme:	G.711 u-Law
Channel Allocation Strategy:	Ascending
Maximum Active Calls:	0
Signal Information Element:	Disable
Inband Tone Generation:	Enable
Inband DTMF Dialing:	Disable
Overlap Dialing:	Enable
Calling Name Max Length:	34
Exclusive B-Channel Selection:	Enable
Sending Complete:	Enable
Send Restart On Startup:	Enable
Link Establishment:	On Demand
Hook-Flash Keypad:	
Accepted Status Causes:	
Accepted Progress Causes:	1-127
Send Isdn Progress:	Send All
Send Progress Indicator IE:	Send All
TEI Negotiation:	Link Up
Default TON for Calling Party Number IE:	Unknown
Default NPI for Calling Party Number IE:	Unknown
Default PI for Calling Party Number IE:	Presentation Allowed
Default SI for Calling Party Number IE:	Context Dependent
Default TON for Called Party Number IE:	Unknown
Default NPI for Called Party Number IE:	Unknown
Notification User Suspended:	Ignore

Apply To The Following Interfaces		Check All	Uncheck All
☐ Slot2/Bri0	☒ Slot2/Bri1	☐ Slot2/Bri2	☐ Slot2/Bri3
☐ Slot2/Bri4			

2.2 Configuring Interoperability

Steps

- 1) Go to **ISDN/Interop**.

- 2) From the **Select Interface** selection list, choose **an interface**.
- 3) In the **Interop Configuration** table, select **Enable** for all fields.
- 4) In the **Apply To The Following Endpoints** table, select the interfaces you wish to apply the interoperability configuration.
- 5) Click **Apply**.

Note: When facing issues in call establishment, disable the parameters one by one.

Result

✦ Interop

Select Interface: Slot2/Bri0 ▾

Interop Configuration		
Progress Indicator In Setup:	Enable ▾	
Progress Indicator In Setup Ack:	Enable ▾	
Progress Indicator In Call Proceeding:	Enable ▾	
Progress Indicator In Progress:	Enable ▾	
Progress Indicator In Alerting:	Enable ▾	
Progress Indicator In Connect:	Enable ▾	
Maximum Facility Waiting Delay (ms):	0	
Use Implicit Inband Info:	Enable ▾	
Call Proceeding Delay (ms):	0	
Calling Name Delivery:	Signaling Protocol ▾	
Allow TEI Broadcast in Point-to-Point:	Enable ▾	

Apply To The Following Interfaces

Check All

Uncheck All

☒ Slot2/Bri0

☐ Slot2/Bri1

☐ Slot2/Bri2

☐ Slot2/Bri3

☐ Slot2/Bri4

2.3 Enabling Calling Line Information Presentation

Steps

- 1) Go to **ISDN/Services**.
- 2) From the **Select Interface** drop-down menu, select the interface you want to configure.
- 3) In the **Services Configuration** table, set **Facility Services** to **Enable**.
- 4) Set **Calling Line Information Presentation** to **Enable**.

- 5) In the **MSN** field, enter the numbers that will be allowed when a call is incoming from the SIP side.

Note: Please refer to **Show Help** to apply the appropriate syntax.

- 6) From the **Apply To The Following Interfaces** section, select the interfaces for which the configuration will be applied to.
- 7) Click **Apply**.

Result

Support of ISDN FACILITY messages will be enabled.

Services

Select Interface: Bri1 ▼

Services Configuration		
Facility Services:	Enable ▼	
Calling Line Information Presentation:	Enable ▼	
Calling Line Information Restriction:	Disable ▼	
Calling Line Information Restriction Override:	Disable ▼	
Connected Line Identification Presentation:	Disable ▼	
Connected Line Identification Restriction:	Disable ▼	
Connected Line Identification Restriction Override:	Disable ▼	
Outgoing Notify:	Disable ▼	
Maintenance Service Call Termination:	Graceful ▼	
Date/Time IE Support:	Disable ▼	
AOC-E Support:	No ▼	
AOC-D Support:	No ▼	
Call Rerouting Behavior:	Unsupported ▼	
MSN:	MSN 1, MSN 2, MSN 3	

3 SIP Configuration Parameters

3.1 Registering Endpoints to All Gateways

Steps

- 1) Go to **SIP/Registrations**.

Note: If two or more endpoints have the same user name, a single registration request and/or subscription request will be performed under that user name.

- 2) For each endpoint requiring registration, repeat the following 2 steps.
- 3) From the **Register** selection list, select **Enable**.
- 4) From the **Gateway Name** selection list, select **All** for each endpoint.
- 5) Click **Apply and Refresh**.

Result

Endpoints Registration					
Endpoint	User Name	Friendly Name	Register	Messaging	Gateway Name
Endpoint 1	user_name1		Enable	Disable	all
Endpoint 2	user_name2		Enable	Disable	all
Endpoint 3	user_name3		Enable	Disable	all
Endpoint 4	user_name4		Enable	Disable	all

3.2 Configuring Default SIP Servers

Before you start

Steps

- 1) Go to **SIP/Servers**.
- 2) In the **Default Servers** table, in the **Registrar Host** field, enter the IP Address or the FQDN and port of your Registrar host.

Note: :0 represents the 5060 default port. If you use the FQDN, using :0 will make the Mediatrix unit issue DNS SRV requests.

- 3) In the **Proxy Host** field, enter the FQDN and port of your Proxy host.

Note: :0 represents the 5060 default port. If you use the FQDN, using :0 will make the Mediatrix unit issue DNS SRV requests.

- 4) If you are using an Outbound proxy, enter its IP address and port in the **Outbound Proxy Host** field.
- 5) Click **Apply**.
- 6) Click **restart required services** located at the top of the page.

Result

All gateways will use the default SIP servers, unless specified otherwise.

Servers

Default Servers	
Registrar Host:	FQDN or IP address and port
Proxy Host:	FQDN or IP address and port
Messaging Server Host:	
Outbound Proxy Host:	IP address and port

3.3 Configuring Endpoint Authentication

Steps

- 1) Go to **SIP/Authentication**.
- 2) Click **Edit All Entries** located at the bottom of the page.
- 3) In the **Authentication** table, from the **Criteria** selection list, select **Endpoint** for all endpoints needing registration.
- 4) From the **Endpoint** selection list, select the related FXS port for each entry.
- 5) From the **Realm** field, enter the provided realm and from the **Validate Realm** selection list, select **Enable**. If no **Realm** was provided, leave the field empty and from the **Validate Realm** selection list, select **Disable**.
- 6) In the **User Name** field, enter the SIP user name for each entry.
- 7) In the **Password** field, enter the appropriate password for each entry.
- 8) Click **Apply and Refresh Registration**.

Result

The endpoints will be registered.

Authentication								
Priority	Criteria	Endpoint	Gateway	Username Criteria	Validate Realm	Realm	User Name	Password
1	Endpoint	Endpoint 1			Disable		SIP user_name	*****
2	Endpoint	Endpoint 2			Disable		SIP user_name	*****
3	Endpoint	Endpoint 3			Disable		SIP user_name	*****
4	Endpoint	Endpoint 4			Disable		SIP user_name	*****

3.4 Configuring OPTIONS Method Support

Information

Note: This step is required if your server is configured to only receive 200 OK by the Mediatrix unit, when it polls the Mediatrix with SIP OPTIONS.

Note: This is not supported by all SIP servers, this feature is not mandatory in most use cases.

Steps

- 1) Go to **SIP/Interop**.
- 2) In the **SIP Interop** table, from the **OPTIONS Method Support** selection list, select **Always 200 OK**.
- 3) Click **Apply**.

Result

The unit will always answer 200 OK to SIP OPTIONS messages received (Keep Alive).

SIP Interop	
Secure Header:	Disable
Default Username Value:	Anonymous
OPTIONS Method Support:	Always 200 OK
Ignore OPTIONS on no Usable Endpoints:	Disable
SIP URI User Parameter Value:	
Behavior on Machine Detection:	Re-INVITE on Fax T38 Only
Registration Contact Matching:	Strict
Transmission Timeout:	32

4 Optional Configuration Parameters

4.1 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		

4.2 Configuring DTMF Transport

Steps

- 1) Go to **Media/Misc.**
- 2) In the **DTMF Transport** table, set the **Transport Method** to the one set in the VoIP server.
 - a) **In-band**
 - b) **Out-of-Band using RTP** (RFC2833). This is usually the preferred method. Remember to set the payload type if different (e.g.: 96, 101 or 110 in some cases).
 - c) **Out-of-Band using SIP**. For Cisco or Avaya systems, from the **SIP Transport Method** field, use **Info DTMF Relay**. For legacy Nortel and others, leave **Draft Choudhuri SIP Info Digit 00**.
 - d) **Signaling Protocol Dependent**: choose this method if unsure. It will try to use the method negotiated by the VoIP server.
- 3) Click **Apply**.

Result

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

4.3 Enabling the Payload Type Found in the Answer

Information

You cannot access this parameter from the DGW Web page, you must use the Command Line Interface (CLI).

Steps

- 1) In the CLI, enter `sipEp.interopUseDtmfPayloadTypeFoundInAnswer=1`

Note: For more details on the `sipEp.interopUseDtmfPayloadTypeFoundInAnswer` parameter, refer to the [DGW Configuration Guide - Reference Guide](#) published on the [Media5 Documentation Portal](#) or type "help SipEp.interopUseDtmfPayloadTypeFoundInAnswer".

- 2) Click Enter.

Result

The **Payload Type** found in the answer is used instead of the configured **Payload Type** (Media/Misc/DTMF Transport).

4.4 Adding the * Star Code Dial Map

Information

The Mediatrix unit dial map * key is deactivated by default.

Steps

- 1) Go to **Telephony/DTMF Maps**.
- 2) In the **Allowed DTMF Map** table, complete the fields as required.

Note: *xx - for code, e.g. *69

Result

For more details on DTMF map configuration, refer to the [DGW Configuration Guide -DTMF Map Configuration -Dial Plan](#) published on the [Media5 Documentation Portal](#).

Allowed DTMF Map								
Index	Enable	Apply To	Endpoints	Suggestions	DTMF Map	Transformation	Target	Emergency
1	Enable ▾	Unit ▾		--- Suggestion --- ▾	*xx	x		Disable ▾

4.5 Adding the # Key Dial Map

Information

The Mediatrix unit dial map # key is deactivated by default.

Steps

- 1) Go to **Telephony/DTMF Maps**.
- 2) In the **Allowed DTMF Map** table, complete the fields as required.

Note: x.# - for speed dialling, e.g. 267# , call will be dialled right away once the # key is hit.

Result

For more details on DTMF map configuration, refer to the the [DGW Configuratio Guide -DTMF Map Configuration -Dial Plan](#) published on the [Media5 Documentation Portal](#).

Allowed DTMF Map								
Index	Enable	Apply To	Endpoints	Suggestions	DTMF Map	Transformation	Target	Emergency
1	Enable ▾	Unit ▾		--- Suggestion --- ▾	x.#	x{#}		Disable ▾

5 Configuring the Call Router

5.1 Creating a Hunt

Steps

- 1) Go to **Call Router/Route Config**.
- 2) In the **Hunt** table,
 - click  located on the same row as an existing hunt to add a new hunt above or,
 - click  located at the bottom of the table to add a hunt at the end of the table.

Note: You can create up to 40 hunts.

- 3) In the **Configure Hunt** table, enter a name in the **Name** field.
- 4) From the **Suggestion** selection list next to the **Destinations** field, select 1 or several destinations.
- 5) From the **Suggestion** selection list next to the **Causes** field, select the causes pertinent to your situation.
- 6) To create another hunt group, repeat steps 2 to 5.

Note: Up to 40 hunt groups can be created.

- 7) Click **Save**.

Result

The hunt is available to be used in a route.

Configure New Hunt		
	Value	Suggestion
Name	Name	
Destinations	Select Destination	--- Suggestion ---
Selection Algorithm	Sequential	
Timeout (seconds)	0	
Causes	Select Causes	--- Suggestion ---
Config Status		

5.2 Creating a Route from a SIP Gateway to a Destination

Steps

- 1) Go to **Call Router/Route Config**.
- 2) In the **Routes** table, click **+**.
 - click **+** located on the same row as an existing route to add a new route above or,
 - click **+** located at the bottom of the table to add a route at the end of the table.

Note: A maximum of 40 routes can be created.

- 3) In the **Configure Route** table, from the selection list of the **Sources** field, select a SIP gateway.
- 4) If necessary, from the selection list of the **Destination** field, select an Interface or a hunt group.

Note: Leave the **Signaling Properties**, the **Transformations** and **Criteria Property** fields empty.

- 5) Click **Save**.

Result

A new route is created and will appear in the **Routes** table.

Configure New Route		
	Value	Suggestion
Sources	Sip Gateway	--- Suggestion ---
Criteria Property	None	
Criteria Rule		--- Suggestion ---
Transformations		--- Suggestion ---
Signaling Properties		--- Suggestion ---
Destination	Destination	--- Suggestion ---
Config Status		

5.3 Creating a Route from a Physical Interface to a SIP Destination

Steps

- 1) Go to **Call Router/Route Config**.
- 2) In the **Routes** table, click **+**.
- 3) In the **Configure Route** table, from the selection list of the **Sources** field, select an interface.
- 4) From the selection list of the **Destination** field, select a SIP Gateway or a SIP hunt group.

Note: Leave the **Signaling Properties**, the **Transformations** and **Criteria Property** fields empty.

Note: A maximum of 40 routes can be created.

- 5) Click **Save**.

Result

Configure New Route		
	Value	Suggestion
Sources	Interface	--- Suggestion ---
Criteria Property	None	
Criteria Rule		--- Suggestion ---
Transformations		--- Suggestion ---
Signaling Properties		--- Suggestion ---
Destination	Sip-Gateway	--- Suggestion ---
Config Status		

6 Restarting Services

Steps

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

7 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.

8 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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