

Hardware Configuration User Guide

Mediatrix units with ONLY 2 Ethernet ports

DGW 49.2.2941

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Clock Reference

A clock reference is needed to synchronise the PRI or BRI frames.

If the clock reference is not configured according to the network environment, the clock will slip and voice quality may degrade.

The clock reference can be generated internally or obtained from an external source (e.g., PRI or BRI telephony provider). If you have an interface connected to a PRI or BRI telephony provider, the clock reference must be selected from the DGW Web interface. The clock reference provides error-free data and fax transmission. The clock reference may either be provided by the network or by one of the BRI, PRI, or Sync port of the Mediatrix unit.

The Mediatrix 3000 has a TDM for each card. Therefore, each extension card can be configured to use a different source for the Clock Reference. This means that depending on the telephony ports being used, up to two Clock Reference sources can be used simultaneously on the Mediatrix 3000 Series units. All other Mediatrix units have only one TDM, therefore only one source for the Clock Reference can be used at a time. Fallback can however be configured on all Mediatrix units with a PRI, BRI, or external Sync port, since in this case, only one Clock Reference source can be used at a time.

Setting the Clock Reference

Information

IMPORTANT: This feature is only available on Mediatrix units with PRI, BRI, or external Sync ports.

Steps

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

Result

The clock reference source is displayed in the **Value** field of the **Clock Reference Configuration** table. If the source is unavailable, the unit will remain operational, however, audio quality may be altered and data transmission may not be accurate. This is an example of the Web page on a Sentinel.

Clock Reference Configuration	
	Suggestion
Clock Reference Source:	Value SYNCIN --- Suggestion ---

Setting Fallback Clock Reference Sources

Information

IMPORTANT: This feature is only available on Mediatrix units with PRI, BRI, or external Sync ports.

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 clock reference sources are displayed in the **Value** field of the **Clock Reference Configuration** table. When the first source is unavailable, the second source is used, and so on. If no source is available, the unit will remain operational, however, audio quality may be altered and data transmission may not be accurate.

Clock Reference Configuration	
	Suggestion
Clock Reference Source:	Value Slot1/E1T1, Slot3/E1T1, SYNCIN --- Suggestion ---

PRI/BRI Card Configuration

Associating a PRI Port to a Line Type and Protocol

Steps

- 1) Go to **System/Hardware**.
- 2) In the **PRI Ports Configuration** table, from the **Line Type** selection list, select either E1 or T1.
- 3) From the **Signaling** selection list, associate a type of signaling to the PRI port.
- 4) Click **Apply**.
- 5) Restart the unit.

Result

The selected line type will appear under **ISDN/Primary Rate Interface**. This is an example of a PRI port association.

PRI Ports Configuration			
Port	Line Type	Signaling	
Slot1/E1T1	E1 ▼	Isdn ▼	
Slot3/E1T1	E1 ▼	Isdn ▼	

Associating a BRI Port to a Line Type and Protocol

Steps

- 1) Go to **System/Hardware**.
- 2) In the **PRI Ports Configuration** table, from the **Line Type** selection list, select either E1 or T1.
- 3) From the **Signaling** selection list, associate a type of signaling to the PRI port.
- 4) Click **Apply**.

Result

The selected line type will appear under **ISDN/Primary Rate Interface**. This is an example of a PRI port association.

PRI Ports Configuration			
Port	Line Type		Signaling
Slot1/E1T1	E1		Isdn
Slot3/E1T1	E1		Isdn

Power Feeding

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	▼	

Disabling Power Feeding

Information

IMPORTANT: Your unit must have a BRI card.

Steps

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

Result

The unit will no longer receive power from the BRI card.

BRI Ports Configuration		
Port	Power Feeding	
Bri1	Enable	
Bri2	Disable	

Bridging

Bridging two Ethernet Ports

Information

IMPORTANT: This feature is not available on Mediatrix Sentinel and Mediatrix G7 units.

IMPORTANT: Bridging both Ethernet ports will have a direct impact on your Network Interfaces. All existing Links will become invalid. Please make sure that your Network Interfaces are associated with an active link under **Network/Interfaces**.

Steps

- 1) Go to **System/Hardware**.
- 2) In the **Unit Configuration** table, select **Bridge**.
- 3) Click **Apply**.

IMPORTANT: At this point DO NOT restart the unit just yet. (Even if the Web interface displays a message to do so). If you restart the unit before completing the [Creating the Bridging Interface](#) (p.10), you may lose contact with the unit and need to perform a factory reset.

Result

A new Link will be created. The name is automatically generated and varies from one type of unit to another (e.g. eth1-2 or wan-lan). The new link will be available in the **Network Interface Configuration** table (**Network/Interfaces**).

Unit Configuration	
Eth Ports:	Bridge ▼

Next Step

[Creating the Bridging Interface](#) (p.10)

Creating the Bridging Interface

Before you start

[Bridging two Ethernet Ports](#) (p.9) must be completed.

Information

IMPORTANT: This feature is only available on units with 2 Ethernet ports.

Steps

- 1) Go to **Network/Interfaces**.
- 2) In the **Network Interface Configuration** table, enter **Temporary** in the empty field.
- 3) Click **+**.
- 4) Replicate all the settings the **Uplink** Network Interface has for the new **Temporary** Network Interface.
- 5) From the **Activation** drop-down menu, select **Enable** for the **Temporary** Network Interface.
- 6) From the **Activation** drop-down menu, select **Disable** for the **Lan1** Network Interface.

Note: At this point, a new bridging link is created, either **wan-lan** or **eth1-2** depending on your unit.

- 7) For the **Uplink** Network Interface, from the **Link** selection list, choose the new link created for bridging.
- 8) For the **UplinkV6** Network Interface, from the **Link** selection list, choose the new link created for bridging.
- 9) Click **Apply**.
- 10) Click **Restart the Unit**, located at the top of the page.
- 11) When the unit is restarted, go to **Network/Interfaces**.
- 12) Click - to delete the temporary Network Interface as it is no longer needed.

Result

Network Interface Configuration							
Name	Link	Type	Static IP Address	Static Default Router	Activation		
Lan1	eth2	IpStatic (IPv4 Static)	192.168.0.10/24		Disable	—	
Uplink	eth1-2	IpDhcp (IPv4 DHCP)	192.168.10.1/24		Enable	—	
UplinkV6	eth1-2	Ip6AutoConf (IPv6 Auto-Conf)			Disable	—	
Temporary	eth1	IpDhcp (IPv4 DHCP)	192.168.0.10/24		Enable	—	
						+	

Hardware Advanced Parameters

Some aspects of the Hardware configuration can only be completed with the MIB parameters.

These parameters can be accessed and configured by:

- using a MIB browser
- using the CLI
- creating a configuration script containing the configuration variables

For the complete list of available parameters, refer to the Hardware section of the [DGW Configuration Guide - Reference Guide](#) published on the [Media5 Documentation Portal](#).

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.

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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