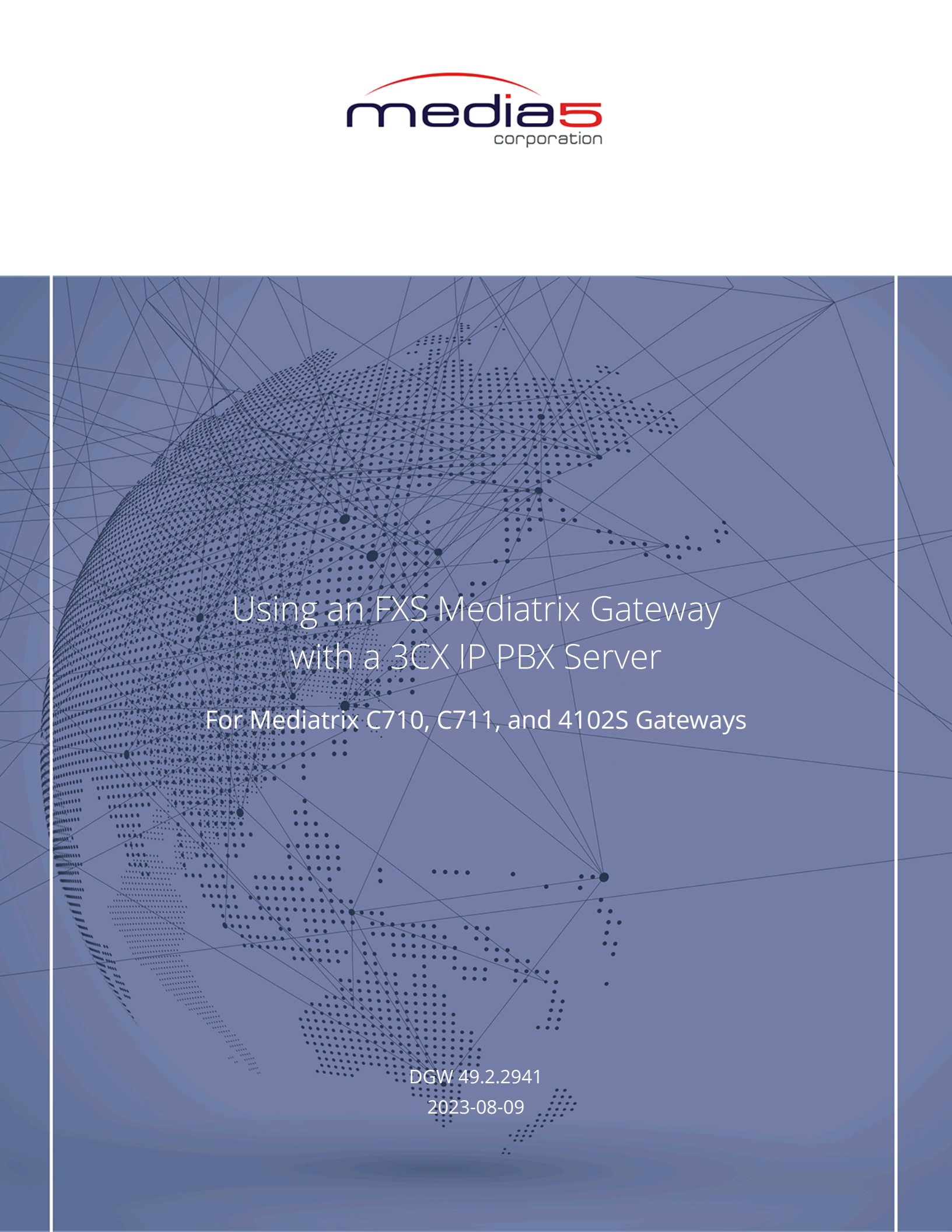


The background of the page is a dark blue gradient with a complex, abstract network graphic. It consists of numerous small black dots connected by thin, light blue lines, forming a dense, interconnected web that resembles a globe or a complex data structure. The lines and dots are more concentrated in the center and fade out towards the edges.

Using an FXS Mediatrix Gateway with a 3CX IP PBX Server For Mediatrix C710, C711, and 4102S Gateways

DGW 49.2.2941
2023-08-09

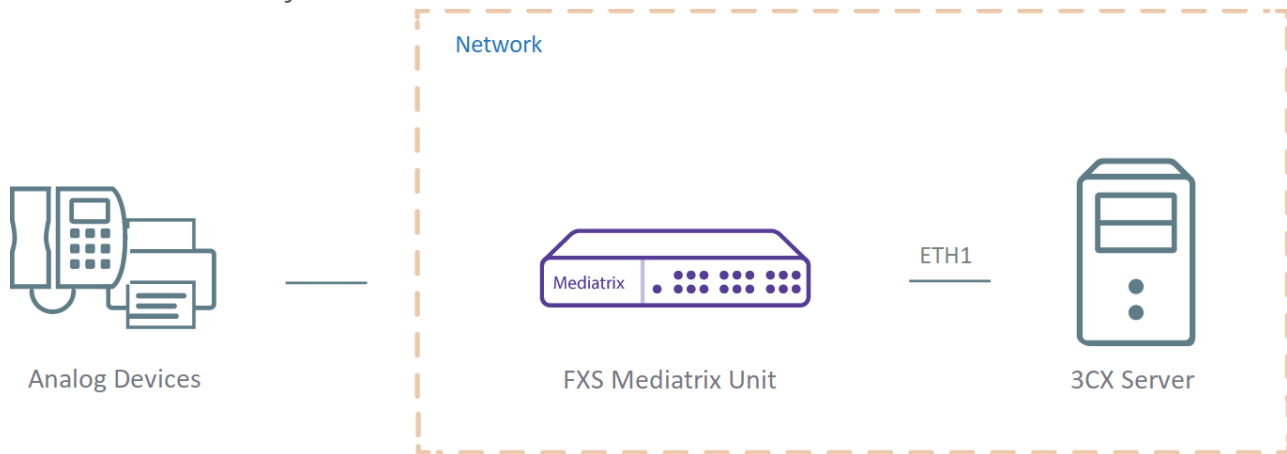
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Requirements

- Minimum supported 3CX version: 3CX v15 SP4
- Minimum DGW supported Firmware version: Dgw2.0.30.555
- You must first download the 3CX templates from [Configuration Notes - 3CX integration templates](#) published on the [Media5 Documentation Portal](#) for your specific unit:
 - Mediatrix 4102S : Mediatrix-4102S-FXS-2.fxs
 - Mediatrix C710: Mediatrix-C710-FXS-4.fxs
 - Mediatrix C711: Mediatrix-C711-FXS-8.fxs

Dgw2.0 firmware can be downloaded from Media5 Support Portal. If you do not have an account to access Media5 Support Portal, please contact your Mediatrix product dealer or Media5 Technical Assistance Center if you have an SLA contract.



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 used by your Mediatrix unit to communicate with the Management Interface. If your computer is connected to the Ethernet port meant to be connected to the Local Area Network (LAN), i.e. Eth2 on most devices	Use this value 192.168.0.10	Logging on to the Mediatrix Unit Web Interface (p.9)
If your Mediatrix unit is configured to use a DHCP server, use the DHCP server-provided IP address.		Logging on to the Mediatrix Unit Web Interface (p.9)
Port number used		Exporting the 3CX Configuration Script to your PC (p.8)
MAC address of the Mediatrix unit		Exporting the 3CX Configuration Script to your PC (p.8)
Name of your Mediatrix unit		Exporting the 3CX Configuration Script to your PC (p.8)

Configuration on the 3CX Server Side

Installing the Mediatrix Gateway Templates on the 3CX Server

Before you start

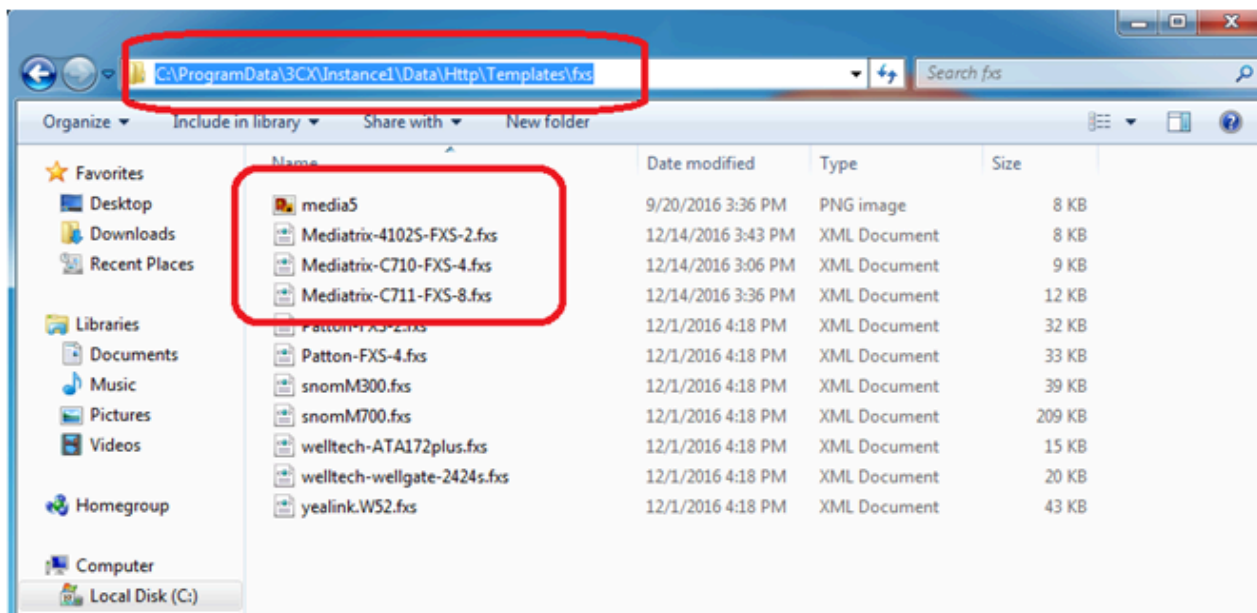
Templates must first be downloaded from our documentation portal at the following link: [Configuration Notes - 3CX integration templates](#) published on the [Media5 Documentation Portal](#).

Steps

- 1) If 3CX server was installed using the default settings and folder, go to C:\ProgramData\3CX\Instance1\Data\Http\Templates\fxs, either way locate the 3CX templates folder in your system and open it. For Debian installation, templates are located under: /var/lib/3cxpbx/Instance1/Data/Http/Templates/
- 2) Copy the Mediatrix gateway templates in the fxs folder.
- 3) Click CTRL + F5 to refresh your browser.

Note: You do not need to restart the 3CX server.

Result



The Mediatrix devices will then appear in the FXS/DECT gateway selection list.

Next Step

[Adding the Mediatrix FXS Gateway to the 3CX Server \(p.6\)](#)

Adding the Mediatrix FXS Gateway to the 3CX Server

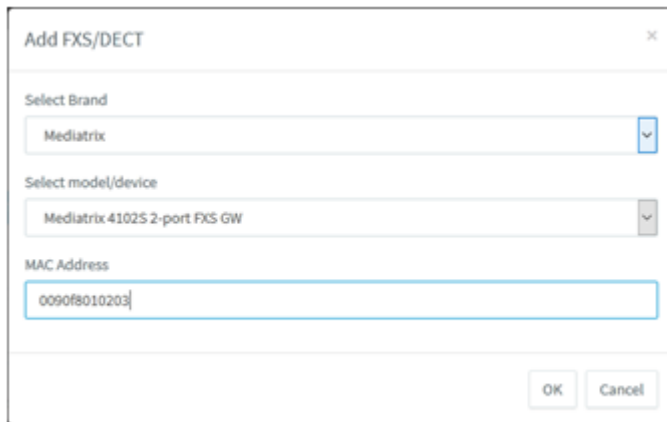
Steps

- 1) In the 3CX Web interface, click **FXS/DECT**, located on the left-hand side of the window.
- 2) In the **FXS/DECT** section, click **+ Add FXS/DECT**.
- 3) In the **Add FXS/DECT** dialog box, from the **Select Brand** selection list, choose **Mediatrix**.
- 4) From the **Select model/device** selection list, choose your unit model.
- 5) In the **MAC Address** field, enter the MAC address of your Mediatrix unit.

Note: To locate your MAC address, refer to [Locating the MAC Address of Your Mediatrix Unit \(p.6\)](#).

- 6) Click **OK**.

Result



Next Step

[Configuring the FXS Mediatrix Gateway in the 3CX Server \(p.7\)](#)

Locating the MAC Address of Your Mediatrix Unit

Information

The MAC address of the unit is:

- printed on a label located under the Mediatrix unit

- displayed in the **Current Status** table of the Web Interface (**System/Information**)

Configuring the FXS Mediatrix Gateway in the 3CX Server

Before you start

The [Adding the Mediatrix FXS Gateway to the 3CX Server](#) (p.6) step must be completed.

Information

Steps

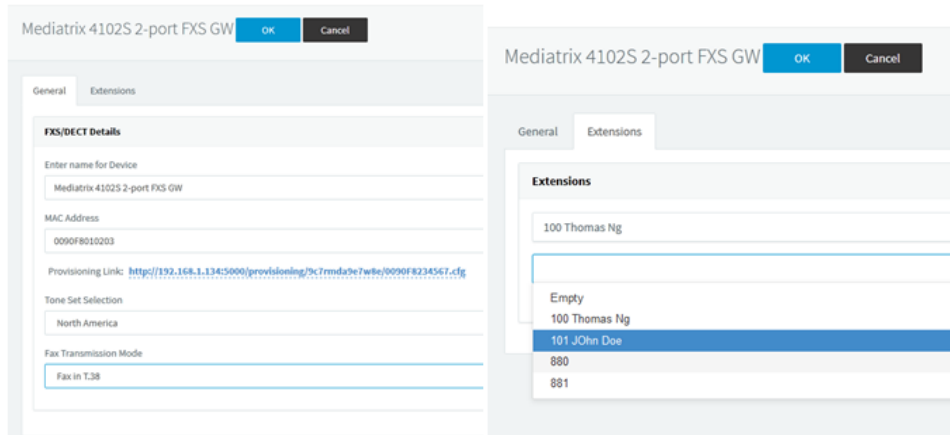
- 1) In the 3CX Web interface, in the **FXS GW** dialog box, under the **General** tab, in the **Enter name of Device**, type the name of the Mediatrix device.
- 2) From the **Tone Set Selection** selection list, chose your location.
- 3) In the **Fax Transmission Mode**, enter either **T.38** or **G.711 clear channel** according to your configuration.
- 4) Select the **Extension** tab.
- 5) In the first field, enter an extension number for the first FXS port.
- 6) In the next field, enter an extension number for the next FXS port.
- 7) Repeat the previous step for all FXS ports used.

IMPORTANT: Every single port must have a legitimate extension number (not Empty), otherwise the configuration script will not be generated which is the normal behavior of the 3CX server.

- 8) Click **OK**.

Result

The provisioning Link is automatically populated.



Next Step

Exporting the 3CX Configuration Script to your PC (p.8)

Exporting the 3CX Configuration Script to your PC

Before you start

The [Configuring the FXS Mediatrix Gateway in the 3CX Server](#) (p.7) step must be completed.

Steps

- 1) Go to n the **General** tab.
- 2) Click the link located in the **Provisioning Link** field.

Result

The file is saved locally on the PC in the Web browser download folder.

Next Step

[Connecting the Mediatrix Unit to the Network](#) (p.9)

Configuration on the Mediatrix Unit Side

Connecting the Mediatrix Unit to the Network

Steps

- 1) Connect a 10/100 BaseT Ethernet RJ-45 cable in the ETH1 port of the Mediatrix unit.
- 2) Connect the other end of the 10/100 BaseT Ethernet RJ-45 cable to the Network.

Next Step

[Logging on to the Mediatrix Unit Web Interface](#) (p.9)

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 Uplink Network Interface to a static IP address \(p.10\)](#)

[Importing a Configuration Script from Your PC \(p.10\)](#)

Configuring the **Uplink** Network Interface to a static IP address

Steps

- 1) Go to **Network/Interfaces**.
- 2) In the **Network Interface Configuration** table, from the **Link** selection list located next to **Uplink**, leave the default value, i.e. ETH1.
- 3) From the **Type** selection list, select **IpStatic (IPv4 Static)**.

Note: The **Uplink** Network Interface must be set with a fixed public IP address for the NAT/router to be able to do port-forwarding to the unit. It will also be easier for the PBX to communicate with the unit if the address is static.

- 4) In the **Static IP Address** field enter the assigned static IP address.
- 5) From the **Activation** selection list, select **Enable**.
- 6) Click **Apply** to apply all changes to the configuration.

Note: Once the changes are applied, the connection with the unit might be lost. You may need to reconnect to the Web page using the new address.

Result

The unit can be reached (via the Web) through the Uplink static IP address

Network Interface Configuration						
Name	Link	Type	Static IP Address	Static Default Router	Activation	
Uplink	eth1	IpStatic (IPv4 Static)	Uplink static IP address	Default router IP address	Enable	-
						+

Importing a Configuration Script from Your PC

Steps

- 1) Go to **Management/Configuration Scripts/Execute**.
- 2) If you are not using HTTPS, click **Activate unsecure file importation from the Web browser**.
- 3) In the **Upload Script Through Web Browser** table, browse to the location of the file you wish to import.

- 4) If the file is encrypted, complete the **Privacy Key** field.

Note: The privacy key must match the privacy key used to encrypt the file.

- 5) Click **Upload and Execute**.
6) Located at the top of the page, click **Refresh**.

Result

The configuration script will be imported from your PC and any changes to the script will be applied to the running configuration.

Upload Script Through Web Browser	
Browse...	No file selected. (Clear Selection)
Privacy Key:	
Upload & Execute	

Next Step

Configuring the Uplink Network Interface to a static IP address (p.10)

Checking the Port Registration Status (p.11)

Checking the Port Registration Status

Steps

- 1) In the DGW Web Interface, go to **SIP/Registration**
2) In the **Registrations** page, check in the **Status** column if all ports are **Registered**.

Result

At this point you can test calls. Refer to the [Technical Bulletin - Testing Telephony Services](#) published on the [Media5 Documentation Portal](#).

✚ Registrations

Endpoints Registration Status				
Endpoint	User Name	Gateway Name	Registrar	Status
Phone-Fax1	100	default	192.168.1.134:5060	Registered
Phone-Fax2	101	default	192.168.1.134:5060	Registered

Endpoints Messaging Subscription Status				
Endpoint	User Name	Gateway Name	Messaging Host	MWI Status

Unit Registration Status			
User Name	Gateway Name	Registrar	Status

Endpoints Registration					
Endpoint	User Name	Friendly Name	Register	Messaging	Gateway Name
Phone-Fax1	100	Thomas Ng	Enable	Disable	all
Phone-Fax2	101	John Doe	Enable	Disable	all

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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