

# Using Configuration Scripts to Automate the Configuration of the Mediatrix Unit

All Mediatrix Units

DGW 49.2.2941

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# Configuration Scripts vs. Backup and Restore

## Configuration Scripts

Configuration scripts are files containing textual commands that are sent from the ACS over the network to a Mediatrix unit.

Configuration scripts support all configuration parameters and can be created for a group of units or for a specific unit of the Network.

The automated importation of configuration scripts can be performed with the use of a Customer Profile or using a DHCP server indicating the location of the file server with options 66 or 67. The automated importation to a unit is what is referred to as zero-touch, as the unit is automatically updated with the latest configuration without manual intervention.

When the configuration scripts are received, the unit executes each command line in sequence. Script commands can assign values to configuration parameters, or execute configuration commands. Scripts are written by the system administrator and can be used to accomplish various tasks, such as automating recurrent configuration tasks or batch-applying configuration settings to multiple devices. They can also be scheduled to be executed when the Mediatrix unit restarts.

They can, for example, update the value of parameters, initiate a firmware upgrade, service restart, or unit reboot. The scripts can be imported by the unit in different situations:

- When the unit is restarted
- According to a pre-determined schedule
- Initiated by a DHCP server indicating where the script files are located using options 66 and 67

Scripts can be sent using the following protocols:

- FTP
- TFTP
- HTTP
- HTTPS

The configuration script download feature allows updating the Mediatrix unit configuration by transferring a configuration script from a remote server or from the local file system. The Mediatrix unit is the session initiator, which allows NAT traversal. You can also configure the Mediatrix unit to automatically update its configuration or you can generate a configuration script from the running configuration of the Mediatrix unit.

## Configuration Backup and Restore

Performing a configuration backup allows you to have a copy of the entire configuration at the time the backup was performed.

The configuration backup can be used:

- to revert the running configuration to a valid configuration when the running configuration generates error messages or no longer works;
- to deploy a valid configuration on other units;
- to revert to a known configuration when too many changes were made to the running configuration;
- to deploy a backup configuration on a replacement unit.

The configuration backup includes every aspects of the configuration, i.e.

- the status and configuration parameters;
- the certificates;
- the Rulesets.

But the configuration backup does not include the File service files, except for the Rulesets.

The configuration backup is an XML file and can, if necessary, be encrypted.

**Note:** Media5 corp strongly recommends to use a privacy algorithm (encryption) to protect certificates and passwords.

**IMPORTANT:** Do not edit the configuration image file as it may no longer work.

**IMPORTANT:** You can use a backup file on a unit with a newer or same firmware version than what is was taken from. A backup file can not be restored on an older firmware version than the one it was taken from.

**IMPORTANT:** The configuration image can only be restored on the same platform it was taken from.

| Backup made on firmware version vX | Unit firmware version | Possible |
|------------------------------------|-----------------------|----------|
| Backup.v3                          | Firmware version 3    | YES      |
| Backup.v1                          | Firmware version 3    | YES      |
| Backup.v1                          | Firmware version 1    | YES      |
| Backup.v3                          | Firmware version 1    | NO       |

The Configuration Back and Restore performed on Dgw v2.0.31 includes all Rulesets. However, starting on Dgw v.2.0.32 only the Rulesets modified by the user will be included in the configuration backup and restore. If a configuration backup is performed on Dgw v2.0.31 and restored on a newer version of DGW, all Rulesets existing in v2.0.31 will be copied as custom Rulesets i.e the system will not use the factory Rulesets of the newer version even if they were not modified.

## Configuration Scripts vs. Backup and Restore

- Configuration scripts are files containing textual commands that are sent over the network to a Mediatrix unit. Upon receiving the file, the Mediatrix unit executes each command line in sequence. Script commands can assign values to configuration variables, or execute configuration commands.  
Scripts are written by the system administrator and can be used to execute several operations, such as automating recurrent configuration tasks or batch-applying configuration settings to multiple devices. Scripts can be executed once or periodically at a specified interval. They can also be scheduled to execute when the Mediatrix unit restarts.
- The backup/restore feature is used to backup a specific Mediatrix unit's configuration for safety purposes. When needed, the configuration image file that is generated by a backup operation can be restored to put the unit back into the exact configuration it was when the backup was taken.  
Configuration image files contain a Mediatrix unit's configuration information. They are not intended to be edited and must not be confused with configuration scripts. When restoring a configuration image, the whole Mediatrix unit's current configuration is replaced with the configuration found in the configuration image file. Restoring a configuration image is therefore an operation that is completely different from executing a configuration script.

# Executing a Configuration Script

## Configuring the FTP Server

### Before you start

If you are not familiar with the procedure on how to set the FTP root path, please refer to your FTP server's documentation.

### Information

Perform this procedure if you plan to use the FTP transport protocol.

### Steps

- 1) Set an FTP service on the assigned server.
- 2) Make sure the FTP server can be reached by the Mediatrix unit.

**Note:** If the file server is located behind a firewall, make sure that TCP port 21 is open.

## Configuring the HTTP Server

### Before you start

If you are not familiar with the procedure on how to set the HTTP root path, refer to your HTTP server's documentation.

### Information

Perform this procedure if you plan to use the HTTP transport protocol.

### Steps

- 1) Set an HTTP service on the assigned server.
- 2) Make sure the HTTP server can be reached by the Mediatrix unit.

**Note:** If the file server is located behind a firewall, make sure the TCP port 80 is open.

## Configuring the HTTPS Server

### Before you start

If you are not familiar with the procedure on how to set the HTTPS root path, please refer to your HTTPS documentation.

Make sure the unit is set to the proper date (refer to [Configuring the Mediatrix Unit to Use an SNTP Server](#) (p.14).

## Information

Perform this procedure if you plan to use the HTTPS transport protocol.

## Steps

- 1) Set an HTTPS service on the assigned server.
- 2) Make sure the HTTPS server can be reached by the Mediatrix unit.

**Note:** If the file server is located behind a firewall, make sure the TCP port 443 is open.

- 3) Make sure that in the **Management/Certificates** tab, in the **Certificate Import Through Web Browser** table, there is a certificate that authenticates the HTTPS server selected in the **Path** field, and that **Other** is selected in the **Type** field.
- 4) Set the configuration parameters.

## Configuring the TFTP Server

### Before you start

If you are not familiar with the procedure on how to set the TFTP root path, please refer to your TFTP server's documentation.

## Information

Perform this procedure if you plan to use the TFTP transport protocol.

## Steps

- 1) Set a TFTP service on the assigned server.
- 2) Make sure the TFTP server can be reached by the Mediatrix unit.

**Note:** If the file server is located behind a firewall, make sure the UDP port 69 is open.

## Executing Configuration Scripts from a File Server Periodically

### Before you start

Depending on the type of transport protocol used, one of the following procedures must be completed:

- [Configuring the FTP Server](#) (p.6)
- [Configuring the TFTP Server](#) (p.7)
- [Configuring the HTTP Server](#) (p.6)

- [Configuring the HTTPS Server](#) (p.6)

Mediatrix units do not all include a real time clock allowing them to maintain accurate time when they are shutdown. You must have a time server SNTP that is accessible and properly configured or the automatic configuration update feature may not work properly. Refer to [Configuring the Mediatrix Unit to Use an SNTP Server](#) (p.14).

## Steps

- 1) Go to **Management/Configuration Scripts/Execute**.
- 2) In the **Execute Scripts** table, in the **Generic File Name** and/or **Specific File Name** field, indicate the name of the files you wish to import.

**Note:** The file name is case sensitive, and may be replaced by a macro. For more details, refer to the [Unit Macros](#) (p.19) section. Make sure to add the \*.cfg. file extension.

- 3) From the **Transfer Protocol** selection list, select the type of protocol you wish to use to transfer your script.

**Note:** This must be consistent with the file server you have configured.

- 4) In the **Host Name** field, enter the file server IP address or FQDN.
- 5) In the **Location** field, enter the path relative to the root of the file server where the script is saved.
- 6) If your server requires authentication, enter your username and password.
- 7) If the files are encrypted, provide the privacy key in the **Privacy Parameters** section.

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

- 8) Make sure the file server is started.
- 9) In the **Automatic Script Execution** section, from the **Execute Periodically** selection list, choose **Enable**.
- 10) Complete the **Time Unit**, **Period** and **Time Range** fields according to your needs.

**Note:** The time range ( hh[:mm[:ss]] or hh[:mm[:ss]] - hh[:mm[:ss]]) is based on the **Static Time Zone** field, under the **Network > Host** page.

- 11) As a best practice, enable the **Allow Repeated Execution** field.
- 12) Click **Apply**.

## Result

The configuration script will be imported from the file server at the specified time or at a random time within the specified interval and thereafter at the period defined by the **Period** field. Any change to the script will be applied to the running configuration. The unit configuration is only updated if at least one parameter value defined in the imported configuration scripts is different from the actual unit configuration. Keep in mind that if you import a generic and a specific file, the commands of the specific file will override the commands of the generic file.

| Execute Scripts                          |                                            |                                                                                         |
|------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Transfer Parameters</b>               |                                            |                                                                                         |
| Generic File Name:                       | <input type="text" value="%product%.cfg"/> | --- Suggestion --- ▾                                                                    |
| Specific File Name:                      | <input type="text" value="%mac%.cfg"/>     | --- Suggestion --- ▾                                                                    |
| Transfer Protocol:                       | HTTPS ▾                                    |                                                                                         |
| Host Name:                               | <input type="text" value="0.0.0.0:0"/>     |                                                                                         |
| Location:                                | <input type="text" value="Downloads"/>     |                                                                                         |
| User Name:                               | <input type="text" value="username"/>      |                                                                                         |
| Password:                                | <input type="password" value="....."/>     |                                                                                         |
| <b>Execution Parameters</b>              |                                            |                                                                                         |
| Privacy Key:                             | <input type="password" value="....."/>     |                                                                                         |
| Allow Repeated Execution:                | Enable ▾                                   |                                                                                         |
| <b>Automatic Script Execution</b>        |                                            |                                                                                         |
| Execute On Startup:                      | Disable ▾                                  |                                                                                         |
| Execute Periodically:                    | Enable ▾                                   |                                                                                         |
| Time Unit:                               | Hours ▾                                    |                                                                                         |
| Period:                                  | <input type="text" value="1"/>             |                                                                                         |
| Time Range:                              | <input type="text" value="3:00:00"/>       |                                                                                         |
| Allow DHCP to Trigger Scripts Execution: | Enable ▾                                   |                                                                                         |
|                                          |                                            | <input type="button" value="Apply"/> <input type="button" value="Apply &amp; Execute"/> |

## Executing Configuration Scripts from the Unit File Management System Each Time the Unit is Started

### Before you start

A configuration script must have been imported to the unit's file management system. Refer to [Importing a Configuration Script to the Unit File Management System](#) (p.10).

### Steps

- 1) Go to **Management/Configuration Scripts/Execute**.
- 2) From the **Execute Scripts** table, in the **Generic File Name** and/or **Specific File Name** field, indicate the name of the files you wish to import or use the **Suggestion** selection list.

**Note:** The file name is case sensitive, and may be replaced by a macro. For more details, refer to the [Unit Macros](#) (p.19) section. Make sure to add the \*.cfg. file extension.

- 3) From the **Transfer Protocol** selection list, select **File**.
- 4) If the files are encrypted, provide the privacy key in the **Privacy Parameters** section.
- 5) In the **Automatic Script Execution** section, from the **Execute on Startup** selection list, choose **Enable**.
- 6) As a best practice, enable the **Allow Repeated Execution** field.
- 7) Click **Apply**.

## Result

When the unit is restarted, the configuration script will be imported from the system's file management system, and any changes to the script will be applied to the running configuration. Keep in mind that if you import a generic and specific file, the commands of the specific file will override the commands of the generic file.

| Execute Scripts                          |                                            |                                                                                         |
|------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Transfer Parameters</b>               |                                            |                                                                                         |
| Generic File Name:                       | <input type="text" value="%product%.cfg"/> | --- Suggestion --- ▾                                                                    |
| Specific File Name:                      | <input type="text" value="%mac%.cfg"/>     | --- Suggestion --- ▾                                                                    |
| Transfer Protocol:                       | File ▾                                     |                                                                                         |
| Host Name:                               | <input type="text" value="0.0.0.0:0"/>     |                                                                                         |
| Location:                                | <input type="text"/>                       |                                                                                         |
| User Name:                               | <input type="text"/>                       |                                                                                         |
| Password:                                | <input type="text"/>                       |                                                                                         |
| <b>Execution Parameters</b>              |                                            |                                                                                         |
| Privacy Key:                             | <input type="text"/>                       |                                                                                         |
| Allow Repeated Execution:                | Enable ▾                                   |                                                                                         |
| <b>Automatic Script Execution</b>        |                                            |                                                                                         |
| Execute On Startup:                      | Enable ▾                                   |                                                                                         |
| Execute Periodically:                    | Disable ▾                                  |                                                                                         |
| Time Unit:                               | Hours ▾                                    |                                                                                         |
| Period:                                  | <input type="text" value="1"/>             |                                                                                         |
| Time Range:                              | <input type="text"/>                       |                                                                                         |
| Allow DHCP to Trigger Scripts Execution: | Enable ▾                                   |                                                                                         |
|                                          |                                            | <input type="button" value="Apply"/> <input type="button" value="Apply &amp; Execute"/> |

## Importing a Configuration Script to the Unit File Management System

### Before you start

This option is not available on the Mediatrix 4102S running a firmware version more recent than DGW 2.0.26.451

### Steps

- 1) Go to **Management/File**.
- 2) If you are not using HTTPS, click **Activate unsecure file importation from the Web browser** located at the top of the page.
- 3) In the **Import File Through Web Browser** table, from the **Path** selection list, select **Conf/**.
- 4) Browse to the location of the configuration file.
- 5) Click **Import**.

**Note:** A factory reset will remove the file from the Internal file.

## Result

The imported configuration file will appear in the **Internal files** table, under **Management/File** .



| Import File Through Web Browser |                        |
|---------------------------------|------------------------|
| Path                            | File                   |
| conf/                           | yymmdd_device_name.cfg |

Browse... Import

## Executing Configuration Scripts from the Unit File Management System Periodically

### Before you start

You must have a time server SNTP that is accessible and properly configured or the automatic configuration update feature may not work properly. Refer to [Configuring the Mediatrix Unit to Use an SNTP Server](#) (p.14). Configuration scripts files must be available in the unit's file management system. Refer to [Importing a Configuration Script to the Unit File Management System](#) (p.10).

A configuration script must have been imported to the unit's file management system. Refer to [Importing a Configuration Script to the Unit File Management System](#) (p.10).

### Steps

- 1) Go to **Management/Configuration Scripts/Execute**.
- 2) In the **Execute Scripts** table, in the **Generic File Name** and/or **Specific File Name** field, indicate the name of the files you wish to import or use the **Suggestion** selection list.

**Note:** The file name is case sensitive, and may be replaced by a macro. For more details, refer to the [Unit Macros](#) (p.19) section. Make sure to add the \*.cfg. file extension.

- 3) From the **Transfer Protocol** selection list, select **File**.
- 4) If the files are encrypted, provide the privacy key in the **Privacy Key** field.

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

- 5) In the **Automatic Script Execution** section, from the **Execute Periodically** selection list, choose **Enable**.
- 6) Complete the **Time Unit**, **Period** and **Time Range** fields according to your needs.

**Note:** The time range ( hh[:mm[:ss]] or hh[:mm[:ss]] - hh[:mm[:ss]] ) is based on the **Static Time Zone** field, under the **Network > Host** page.

- 7) As a best practice, enable the **Allow Repeated Execution** field.
- 8) Click **Apply**.

## Result

The configuration script will be imported from the system's file management system at the specified time or at a random time within the specified interval and thereafter at the period defined by the **Period** field. Any change to the script will be applied to the running configuration. The unit

configuration is only updated if at least one parameter value defined in the imported configuration scripts is different from the actual unit configuration. Keep in mind that if you import a generic and specific file, the commands of the specific file will override the commands of the generic file.

| Execute Scripts                                                                         |                                                                            |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Transfer Parameters</b>                                                              |                                                                            |
| Generic File Name:                                                                      | <input type="text" value="%product%.cfg"/> <span>--- Suggestion ---</span> |
| Specific File Name:                                                                     | <input type="text" value="\$mac%.cfg"/> <span>--- Suggestion ---</span>    |
| Transfer Protocol:                                                                      | <input type="text" value="File"/>                                          |
| Host Name:                                                                              | <input type="text" value="0.0.0.0:0"/>                                     |
| Location:                                                                               | <input type="text"/>                                                       |
| User Name:                                                                              | <input type="text"/>                                                       |
| Password:                                                                               | <input type="text"/>                                                       |
| <b>Execution Parameters</b>                                                             |                                                                            |
| Privacy Key:                                                                            | <input type="text" value="....."/>                                         |
| Allow Repeated Execution:                                                               | <input type="text" value="Enable"/>                                        |
| <b>Automatic Script Execution</b>                                                       |                                                                            |
| Execute On Startup:                                                                     | <input type="text" value="Disable"/>                                       |
| Execute Periodically:                                                                   | <input type="text" value="Enable"/>                                        |
| Time Unit:                                                                              | <input type="text" value="Hours"/>                                         |
| Period:                                                                                 | <input type="text" value="1"/>                                             |
| Time Range:                                                                             | <input type="text" value="3:00:00"/>                                       |
| Allow DHCP to Trigger Scripts Execution:                                                | <input type="text" value="Enable"/>                                        |
| <input type="button" value="Apply"/> <input type="button" value="Apply &amp; Execute"/> |                                                                            |

## Executing Configuration Scripts from a File Server Each Time the Unit is Started

### Before you start

Depending on the type of transport protocol used, one of the following procedures must be completed:

- [Configuring the FTP Server](#) (p.6)
- [Configuring the TFTP Server](#) (p.7)
- [Configuring the HTTP Server](#) (p.6)
- [Configuring the HTTPS Server](#) (p.6)

### Steps

- 1) Go to **Management/Configuration Scripts/Execute**.

- 2) From the **Execute Scripts** table, in the **Generic File Name** and/or **Specific File Name** field, indicate the name of the files you wish to import.

**Note:** The file name is case sensitive, and may be replaced by a macro. For more details, refer to the [Unit Macros](#) (p.19) section. Make sure to add the \*.cfg. file extension.

- 3) From the **Transfer Protocol** selection list, select the type of protocol you wish to use to transfer your script.

**Note:** This must be consistent with the file server you have configured.

- 4) In the **Host Name** field, enter the file server IP address or FQDN.
- 5) In the **Location** field, enter the path relative to the root of the file server where the script is saved.
- 6) If your server requires authentication, enter your username and password.
- 7) If the files are encrypted, provide the privacy key in the **Privacy Parameters** section.

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

- 8) Make sure the file server is started.
- 9) In the **Automatic Script Execution** section, from the **Execute on Startup** selection list, choose **Enable**.
- 10) As a best practice, enable the **Allow Repeated Execution** field.
- 11) Click **Apply**.

## Result

When the unit is restarted, the configuration script will be imported from the file server, and any changes to the script will be applied to the running configuration. Keep in mind that if you import a generic and a specific file, the commands of the specific file will override the commands of the generic file.

| Execute Scripts                          |                                            |                                                                                         |
|------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Transfer Parameters</b>               |                                            |                                                                                         |
| Generic File Name:                       | <input type="text" value="%product%.cfg"/> | --- Suggestion --- ▾                                                                    |
| Specific File Name:                      | <input type="text" value="%mac%.cfg"/>     | --- Suggestion --- ▾                                                                    |
| Transfer Protocol:                       | HTTPS ▾                                    |                                                                                         |
| Host Name:                               | <input type="text" value="0.0.0.0"/>       |                                                                                         |
| Location:                                | <input type="text" value="Downloads"/>     |                                                                                         |
| User Name:                               | <input type="text" value="username"/>      |                                                                                         |
| Password:                                | <input type="password" value="••••••"/>    |                                                                                         |
| <b>Execution Parameters</b>              |                                            |                                                                                         |
| Privacy Key:                             | <input type="password" value="••••••"/>    |                                                                                         |
| Allow Repeated Execution:                | Enable ▾                                   |                                                                                         |
| <b>Automatic Script Execution</b>        |                                            |                                                                                         |
| Execute On Startup:                      | Enable ▾                                   |                                                                                         |
| Execute Periodically:                    | Disable ▾                                  |                                                                                         |
| Time Unit:                               | Hours ▾                                    |                                                                                         |
| Period:                                  | <input type="text" value="1"/>             |                                                                                         |
| Time Range:                              | <input type="text"/>                       |                                                                                         |
| Allow DHCP to Trigger Scripts Execution: | Enable ▾                                   |                                                                                         |
|                                          |                                            | <input type="button" value="Apply"/> <input type="button" value="Apply &amp; Execute"/> |

## Configuring the Mediatrix Unit to Use an SNTP Server

### Before you start

Make sure there is an SNTP server available.

### Information

### Steps

- 1) Go to **Network/Host**.
- 2) In the **SNTP Configuration** table, from the **Configuration Source** selection list, select the connection type from which you wish to obtain the SNTP parameters.

**Note:** Complete [Step 3](#) only if you are using static SNTP server(s), otherwise go to [Step 4](#).

- 3) Provide an IP address or domain name and port numbers for each SNTP server you are using.
- 4) If necessary, change the displayed default value of the **Synchronisation Period**.
- 5) If necessary, change the displayed default 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:            | <input type="text" value="Automatic IPv4"/>    |
| Primary SNTP:                    | <input type="text" value="192.168.10.10:123"/> |
| Secondary SNTP:                  | <input type="text"/>                           |
| Third SNTP:                      | <input type="text"/>                           |
| Fourth SNTP:                     | <input type="text"/>                           |
| Synchronization Period:          | <input type="text" value="1440"/>              |
| Synchronization Period On Error: | <input type="text" value="60"/>                |

# Sample Template Configuration Script

The following is a sample configuration script that can be used as a template to start building custom configuration scripts. It performs common configuration tasks on the Mediatix unit.

```
#####  
#  
# Copyright (c) Media5 Corporation  
#  
# This file contains sample script commands to help configure a Mediatix  
# 4000 series unit.  
#  
# Please refer to "Technical Bulletin 0614 - Using Configuration Scripts  
# to  
# Automate Configuration for the Mediatix C740 Series",  
# available on the Mediatix support portal  
#(http://www.mediatrix.com/support.php), and to the Mediatix unit's  
# documentation for more information on using configuration scripts.  
#  
# This script reproduces the configuration described in "Configuration  
# Note  
# 245 - Mediatix C740 VoIP Gateway PSTN Scenario", available on the  
# Mediatix  
# support portal (http://www.mediatrix.com/support.php). It follows the  
# order  
# of the configuration steps from Configuration Note 245, so it is a good  
# idea to read Configuration Note 245 along with the script  
#  
# USING THIS FILE: this file is intended to be used as a sample script to  
# be the  
# base of custom scripts developed by system administrators. Starting from  
# this  
# script, system administrators can build their own configuration scripts  
# by  
# replacing the sample statements and values with their own.  
#  
## NOTE: this script assumes tha the configuration is done from a "factory  
# reset" state.  
#####  
#####  
# Configuration Note 245 step1  
# Physical Connection of the Mediatix C740 to the Network and PSTN  
#####  
# No script commands  
#####  
# Configuration Note 245 step 2  
# IP Address Discovery or Configuration  
#####  
# No script commands  
#####
```

```
# Configuration Note 245 step 3
#   Web Interface Access
#####
# No script commands
#####
# Configuration Note 245 step 4
#   SIP Configuration
#
#   SIP parameters configuration is done in the SipEp (SIP
#   Endpoints)service
#####
# Set the default
#   registrarSipEp.DefaultStaticRegistrarServerHost="192.168.9.201"
# Set the default
#   proxySipEp.DefaultStaticProxyHomeDomainHost="192.168.9.201"
#####
# Configuration Note 245 step 5
#   ISDN Configuration
#
#   ISDN parameters configuration is done in the Isdn (Integrated Services
#   Digital Network) service
#####
# Set the endpoint type for ports Bri1 and Bri2 to TE (option TE has
#   numeric
#   value
#   100)Isdn.BasicRateInterface.EndpointType[Name="Bri1"]="100"Isdn.BasicRateInterface
# Set the connection type forports Bri1 and Bri2 to Point To Point (option
#   Point To Point has numeric value
#   100)Isdn.BasicRateInterface.ConnectionType[Name="Bri1"]="100"Isdn.BasicRateInterfa
# Restart the Isdn service because these parameters require a service
#   restart in
#   order to be correctly applied (command option "restart" has numeric
#   value 10)Scm.ServiceCommands.Restart[Name="Isdn"]=10
#####
# Configuration Note 245 step6
#   Call routing configuration.
#
#   Call routing parameters configuration is done in the CRout (Call
#   Routing)
#   service. After the configuration is done, do not forget to execute the
#   ApplyConfig command to apply the new parameters to the call
#   router(next
#   call will be processed using the new parameters).
#####
#
# Hunt groups
#
# Empty the Hunt Groups table to make sure we create the first one
#   CRout.Hunt.DeleteAllRows
# Create a Hunt group and configure it
#   CRout.InsertHuntCRout.Hunt.Name[Index="1"]="hunt_PSTN"CRout.Hunt.Destinations[Inde
#   Bri1, isdn-Bri2"
#
# Mappings
#
```

```
# Empty the Mapping Types table to make sure we create the first one
CRout.MappingType.DeleteAllRows
# Create the first Mapping Type and configure it (option Called E164 has
# numeric
# value
300)CRout.InsertMappingTypeCRout.MappingType.Name[Index="1"]="From_PSTN"CRout.Mapp
# Empty the Mapping Types table to make sure we create the first one
CRout.MappingExpressions.DeleteAllRows
# Create the first Mapping Expression and configure it
CRout.InsertMappingExpressionCRout.MappingExpression.Name[Index="1"]="From_PSTN"CR
+)CRout.MappingExpression.Transformation[Index="1"]="\\1"
# double backslash needed(escape)
# Create the second Mapping Type and configure it (option Called E164 has
# numeric value
300)CRout.InsertMappingTypeCRout.MappingType.Name[Index="2"]="To_PSTN"CRout.Mappin
# Create the second Mapping Expression and configure
itCRout.InsertMappingExpressionCRout.MappingExpression.Name[Index="2"]="To_PSTN"CR
+"CRout.MappingExpression.Transformation[Index="2"]="030\\0"
#CRout.Route.DeleteAllRows
# Routes
#
# Empty the Routes table to make sure we create the first one
CRout.Route.DeleteAllRows
# Create the first Route and configure it
CRout.InsertRouteCRout.Route.SourceCriteria[Index="1"]="sip-
default"CRout.Route.Destination[Index="1"]="hunt-
hunt_PSTN"CRout.Route.Mappings[Index="1"]="To_PSTN"
# Create the second Route and configure it
CRout.InsertRouteCRout.Route.SourceCriteria[Index="2"]="isdn-
Bri1"CRout.Route.Destination[Index="2"]="sip-
default"CRout.Route.Mappings[Index="2"]="From_PSTN"
# Create the third Route and configure it
CRout.InsertRouteCRout.Route.SourceCriteria[Index="3"]="isdn-
Bri2"CRout.Route.Destination[Index="3"]="sip-
default"CRout.Route.Mappings[Index="3"]="From_PSTN"
#
# Apply configuration
#
# Apply the new parameters to the call router (next call will be processed
# using
# the new parameters)CRout.ApplyConfig
#####
# End
#####
```

## Unit Macros

| Macro           | Description                                    |
|-----------------|------------------------------------------------|
| %mac%           | the MAC address of the unit                    |
| %version%       | the MFP version of the unit (firmware version) |
| %product%       | the Product name of the unit                   |
| %productseries% | the Product series name of the unit.           |

## 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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