

Configuration Scripts Import and Export
For All Mediatrix Units

DGW 49.2.2941
2023-08-09

Table of Contents

Configuration Scripts Import and Export	4
Simple Network Time Protocol (SNTP)	5
DHCPv4 Auto-Provisioning	6
Unit Macros	7
Basic File Server Tasks	8
Configuring the FTP Server	8
Configuring the TFTP Server	8
Configuring the HTTP Server	9
Configuring the HTTPS Server	9
Configuring the Mediatrix Unit to Use an SNTP Server	10
Basic Export Tasks	12
Exporting a Configuration Script Using a File Server	12
Exporting a Configuration Script to Your PC	13
Basic Import Tasks	14
Importing a Configuration Script Using a File Server	14
Executing a Configuration Script from the Unit File Management System	15
Executing Inline Scripts	16
Importing a Configuration Script from Your PC	17
Importing a Configuration Script to the Unit File Management System	18

Basic Automation Tasks	19
Executing Configuration Scripts from a File Server Periodically	19
Executing Configuration Scripts from the Unit File Management System Periodically	20
Executing Configuration Scripts from a File Server Each Time the Unit is Started	22
Executing Configuration Scripts from the Unit File Management System Each Time the Unit is Started	24
Configuring the DHCP to Trigger Configuration Script Execution	25
Advanced Configuration Scripts Parameters	28
Online Help	29
DGW Documentation	30
Copyright Notice	31

Configuration Scripts Import and Export

Importing and exporting configuration scripts allows you to modify in whole or in part the configuration script used on your unit.

Configuration scripts are files containing textual commands that are sent over the network to a Mediatrix unit. Upon receiving the file, the unit executes each command line in sequence. Script commands can assign values to configuration variables, or execute configuration commands.

A configuration script can be used on any firmware version, regardless of the firmware version it was exported from. It is possible to import a complete configuration script, a subset of the configuration script or even a few lines of a configuration script.

Importing a configuration script can be useful to:

- Change one or several script commands
- Add new commands
- Change parameter values
- Add parameters
- Replace the complete configuration script

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. Scripts can be executed once or periodically at a specified interval. They can also be scheduled to be executed when the Mediatrix unit starts.

Simple Network Time Protocol (SNTP)

The Simple Network Time Protocol (SNTP) is used to update and synchronise the clock of the Mediatrix unit (day, month, time) when it is restarted.

Mediatrix units do not all include a real time clock allowing them to maintain accurate time when they are shutdown. Your system needs to have access to accurate time, for example if you are using HTTPS or for the caller ID feature. The Mediatrix unit implements a SNTP client, which can synchronise the local clock with remote NTP/SNTP servers. The configuration can be automatic (through DHCP for example), with fallback, or static, with up to four servers.

DHCPv4 Auto-Provisioning

The Mediatrix unit can be configured to automatically download new configuration scripts upon receiving options 66 (tftp-server) or 67 (bootfile), or vendor-specific option 43 using sub-options 66 and 67 in a DHCPv4 answer

A DHCP server answer includes both Bound and Renew. The contents of option 66, 67 or 43 defines which script to download. The unit's configuration is not used to download the script. This allows the unit, for instance, to download a script from a server after a factory reset and to reconfigure itself without a specific profile. If the imported configuration script is identical to the last executed script, it will not be run again. The script retry mechanism is not enabled for the DHCPv4 triggered scripts. If options 66, 67 and 43 are received, all scripts are executed independently. The script defined by the tftp-server (option 66) option is executed first. If you are using HTTPS to transfer scripts, you must have a time server SNTP that is accessible and properly configured.

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.

Basic File Server Tasks

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.

Next Step

[Exporting a Configuration Script Using a File Server \(p.12\)](#)

[Importing a Configuration Script Using a File Server \(p.14\)](#)

[Executing Configuration Scripts from a File Server Periodically \(p.19\)](#)

[Executing Configuration Scripts from a File Server Each Time the Unit is Started \(p.22\)](#)

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.

Next Step

[Exporting a Configuration Script Using a File Server \(p.12\)](#)

[Importing a Configuration Script Using a File Server \(p.14\)](#)

[Executing Configuration Scripts from a File Server Periodically \(p.19\)](#)

[Executing Configuration Scripts from a File Server Each Time the Unit is Started \(p.22\)](#)

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.

Next Step

[Exporting a Configuration Script Using a File Server \(p.12\)](#)

[Importing a Configuration Script Using a File Server \(p.14\)](#)

[Executing Configuration Scripts from a File Server Periodically \(p.19\)](#)

[Executing Configuration Scripts from a File Server Each Time the Unit is Started \(p.22\)](#)

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 \(p.10\)](#)).

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.

Next Step

[Configuring the Mediatrix Unit to Use an SNTP Server](#) (p.10)

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:	Automatic IPv4	
Primary SNTP:	192.168.10.10:123	
Secondary SNTP:		
Third SNTP:		
Fourth SNTP:		
Synchronization Period:	1440	
Synchronization Period On Error:	60	

Next Step

[Exporting a Configuration Script Using a File Server](#) (p.12)

[Importing a Configuration Script Using a File Server](#) (p.14)

[Executing Configuration Scripts from a File Server Periodically](#) (p.19)

[Executing Configuration Scripts from a File Server Each Time the Unit is Started \(p.22\)](#)

Basic Export Tasks

Exporting a Configuration Script Using a File Server

Before you start

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

- [Configuring the FTP Server](#) (p.8)
- [Configuring the TFTP Server](#) (p.8)
- [Configuring the HTTP Server](#) (p.9)
- [Configuring the HTTPS Server](#) (p.9)

Steps

- 1) Go to **Management/Configuration Scripts/Export**.
- 2) In the **Export Script** table, from the **Content** selection list, choose if you wish to export only what is different from the factory configuration script or the complete configuration.
- 3) From the **Service Name** selection list, choose if you wish to export the configuration script of a specific service or of all services.
- 4) In the **Send To URL** field, enter the `protocol://[user[:password]@]hostname[:port]/[path/]filename` where to export the configuration file.

Note: This must be consistent with the file server you have configured. The file name may be replaced by a macro. For more details, refer to the [Unit Macros](#) (p.7) section. As a best practice, add the *.cfg extension to the file name.

Note: Remember, if you have several units with several configurations and plan to reuse the configuration on another unit, the name must be explicit. Indicate the date of your script, the interfaces used, the device model, etc.

- 5) If you wish to use encryption for transfer operations, enter a encryption key in the **Privacy Key** field.

Note: Media5 corp strongly recommends to use encryption to protect certificates and passwords.

- 6) Make sure the file server is started.
- 7) Click **Export and Download**.

Result

The configuration script will be exported to the specified file server.

Export Script	
Content:	Modified Config ▾
Service Name:	All --- Suggestion --- ▾
Send To URL:	ftp://file.server.com/folder/yymdd_device_name.cfg
Privacy Key:	••••••••

Exporting a Configuration Script to Your PC

Steps

- 1) Go to **Management/Configuration Scripts/Export**.
- 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 **Download Script From Web Browser** table, from the **Content** selection list, choose if you wish to export only what is different from the factory configuration script or the complete configuration.
- 4) If you wish to use encryption for transfer operations, complete the **Privacy Key** field.

Note: Media5 strongly recommends to use encryption to protect certificates and passwords.

- 5) Click **Export and Download**.

Result

The configuration script will be exported to your PC in the Downloads folder. The system generates a macAddress.cfg file name.

Download Script From Web Browser	
Content:	All Config ▾
Privacy Key:	
Export & Download	

Basic Import Tasks

Importing a Configuration Script Using a File Server

Before you start

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

- [Configuring the FTP Server](#) (p.8)
- [Configuring the TFTP Server](#) (p.8)
- [Configuring the HTTP Server](#) (p.9)
- [Configuring the HTTPS Server](#) (p.9)

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 on macros, refer to the [Unit Macros](#) (p.7) 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 configuration 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 configuration 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 Key** field.

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

- 8) Make sure the file server is started.
- 9) Depending on your use case, set the **Allow Repeated Execution** field to **Enable** or **Disable**. This parameter defines if the Mediatrix unit will execute a script or not, when it is the same as the last executed script."
- 10) Click **Apply & Execute**.

Result

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		
Transfer Parameters		
Generic File Name:	%product%.cfg	--- Suggestion --- ▾
Specific File Name:	%mac%.cfg	--- Suggestion --- ▾
Transfer Protocol:	HTTPS ▾	
Host Name:	0.0.0.0:0	
Location:	Downloads	
User Name:	username	
Password:	•••••	
Execution Parameters		
Privacy Key:	••••••	
Allow Repeated Execution:	Enable ▾	
Automatic Script Execution		
Execute On Startup:	Disable ▾	
Execute Periodically:	Enable ▾	
Time Unit:	Hours ▾	
Period:	1	
Time Range:	3:00:00	
Allow DHCP to Trigger Scripts Execution:	Enable ▾	
		Apply Apply & Execute

Executing a Configuration Script from the Unit File Management System

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.18).

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.7) section. Make sure to add the *.cfg file extension.

- 3) From the **Transfer Protocol** selection list, select **File**.

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

- 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) As a best practice, enable the **Allow Repeated Execution** field.

- 6) Click **Apply & Execute**.

Result

The configuration script will be imported from the unit'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	
Transfer Parameters	
Generic File Name:	%product%.cfg --- Suggestion ---
Specific File Name:	%mac%.cfg --- Suggestion ---
Transfer Protocol:	File
Host Name:	0.0.0.0:0
Location:	Downloads
User Name:	username
Password:	
Execution Parameters	
Privacy Key:	
Allow Repeated Execution:	Enable
Automatic Script Execution	
Execute On Startup:	Disable
Execute Periodically:	Enable
Time Unit:	Hours
Period:	1
Time Range:	3:00:00
Allow DHCP to Trigger Scripts Execution:	Enable
Apply Apply & Execute	

Executing Inline Scripts

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 **Execute Inline Script** table, insert the configuration lines.

- 4) Click **Execute**.

Result

All the lines of the script will be transferred to the unit, executed in batch in background, and applied to the running configuration. The **Scripts Status Execute** table will display the current state and result of the execution.

Configuration Scripts

Execute Export

Operation in progress... Refresh to update the scripts status.

Scripts Status Execute	
Current State:	Executing
Last Result:	Success
Last Successful:	2019-03-20 17:30:11

Execute Inline Script	
# Insert configuration lines here.	(Clear Script)
Execute	

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	

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/	yymdd_device_name.cfg Browse ... Import

Basic Automation Tasks

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.8)
- [Configuring the TFTP Server](#) (p.8)
- [Configuring the HTTP Server](#) (p.9)
- [Configuring the HTTPS Server](#) (p.9)

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.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.

Note: The file name is case sensitive, and may be replaced by a macro. For more details, refer to the [Unit Macros](#) (p.7) 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		
Transfer Parameters		
Generic File Name:	%product%.cfg	--- Suggestion ---
Specific File Name:	%mac%.cfg	--- Suggestion ---
Transfer Protocol:	HTTPS	
Host Name:	0.0.0.0:0	
Location:	Downloads	
User Name:	username	
Password:		
Execution Parameters		
Privacy Key:		
Allow Repeated Execution:	Enable	
Automatic Script Execution		
Execute On Startup:	Disable	
Execute Periodically:	Enable	
Time Unit:	Hours	
Period:	1	
Time Range:	3:00:00	
Allow DHCP to Trigger Scripts Execution:	Enable	
		Apply Apply & Execute

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.10). 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.18).

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.18).

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.7) 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		
Transfer Parameters		
Generic File Name:	%product%.cfg	--- Suggestion --- ▾
Specific File Name:	\$mac%.cfg	--- Suggestion --- ▾
Transfer Protocol:	File ▾	
Host Name:	0.0.0.0:0	
Location:		
User Name:		
Password:		
Execution Parameters		
Privacy Key:	••••••	
Allow Repeated Execution:	Enable ▾	
Automatic Script Execution		
Execute On Startup:	Disable ▾	
Execute Periodically:	Enable ▾	
Time Unit:	Hours ▾	
Period:	1	
Time Range:	3:00:00	
Allow DHCP to Trigger Scripts Execution:	Enable ▾	
		Apply Apply & 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.8)
- [Configuring the TFTP Server](#) (p.8)
- [Configuring the HTTP Server](#) (p.9)
- [Configuring the HTTPS Server](#) (p.9)

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.7) 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		
Transfer Parameters		
Generic File Name:	%product%.cfg	--- Suggestion ---
Specific File Name:	%mac%.cfg	--- Suggestion ---
Transfer Protocol:	HTTPS	
Host Name:	0.0.0.0:0	
Location:	Downloads	
User Name:	username	
Password:		
Execution Parameters		
Privacy Key:		
Allow Repeated Execution:	Enable	
Automatic Script Execution		
Execute On Startup:	Enable	
Execute Periodically:	Disable	
Time Unit:	Hours	
Period:	1	
Time Range:		
Allow DHCP to Trigger Scripts Execution:	Enable	
		Apply Apply & 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.18).

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.7) 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		
Transfer Parameters		
Generic File Name:	%product%.cfg	--- Suggestion --- ▾
Specific File Name:	%mac%.cfg	--- Suggestion --- ▾
Transfer Protocol:	File ▾	
Host Name:	0.0.0.0:0	
Location:		
User Name:		
Password:		
Execution Parameters		
Privacy Key:		
Allow Repeated Execution:	Enable ▾	
Automatic Script Execution		
Execute On Startup:	Enable ▾	
Execute Periodically:	Disable ▾	
Time Unit:	Hours ▾	
Period:	1	
Time Range:		
Allow DHCP to Trigger Scripts Execution:	Enable ▾	
		Apply Apply & Execute

Configuring the DHCP to Trigger Configuration Script Execution

The Mediatrix unit can be configured to automatically import new configuration scripts upon receiving options 66 (tftp-server) or 67 (bootfile), or vendor-specific option 43 using sub-options 66 and 67 in a DHCPv4 answer. A DHCP answer includes both Bound and Renew.

Before you start

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

- [Configuring the FTP Server](#) (p.8)
- [Configuring the TFTP Server](#) (p.8)
- [Configuring the HTTP Server](#) (p.9)
- [Configuring the HTTPS Server](#) (p.9)

Mediatrix units do not all include a real time clock allowing them to maintain accurate time when they are shutdown. If you are using HTTPS, you must have an SNTP server 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.10).

Information

For more details on DHCPv4 Auto-Provisioning, refer to [DHCPv4 Auto-Provisioning](#) (p.6)

Steps

- 1) Go to **Management/Configuration Scripts/Execute**.
- 2) In the **Automatic Script Execution** section, from the **Allow DHCP to Trigger Scripts Execution** selection list, choose **Enable**.
- 3) Click **Apply**.

Result

The instructions sent FROM the DHCP server can be in different formats and will be understood by the Mediatrix unit according to what was chosen for the **ScriptsDhcpOptionsFormat** MIB parameter (not accessible via Web page). Possible values with their respective formats are:

- Fully Qualified: Script=[protocol]://[username] :[password]@[server]/[path]/[file].
- Url: [protocol]:// [username] :[password]@[server]/[path]/[file]
- ServerHost: Allow one DHCP option to specify the IP address or FQDN of a file server. Uses the path and filename specified in the ScriptLocation and ScriptGenericFileName parameters, use the transfer protocol, username and password specified in ScriptTransferProtocol, ScriptTransferUsername and ScriptTransferPassword parameters.
- AutoDetect: A value beginning with "Script=" is considered as "FullyQualified", A value beginning with "[protocol]://" is considered as a URL. A value that looks like an IPv4/IPv6 address or domain name is considered as a "ServerHost". (default value)

When the unit starts, it will receive the location of the config script from the DHCP response, as per the format defined by the **ScriptsDhcpOptionsFormat** parameter. The unit will then import and execute the configuration scripts from the specified location. Any changes 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.

Execute Scripts		
Transfer Parameters		
Generic File Name:	%product%.cfg	--- Suggestion ---
Specific File Name:	%mac%.cfg	--- Suggestion ---
Transfer Protocol:	HTTPS	
Host Name:	0.0.0.0:0	
Location:	Downloads	
User Name:	username	
Password:		
Execution Parameters		
Privacy Key:		
Allow Repeated Execution:	Enable	
Automatic Script Execution		
Execute On Startup:	Enable	
Execute Periodically:	Enable	
Time Unit:	Hours	
Period:	1	
Time Range:	3:00:00	
Allow DHCP to Trigger Scripts Execution:	Enable	
		Apply Apply & Execute

Advanced Configuration Scripts Parameters

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

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

For more details on the following parameters, refer to the [DGW Configuration Guide - Reference Guide](#) published on the [Media5 Documentation Portal](#). The Reference Guide contains all the parameters used in the DGW software with their description, default values, and interactions.

Scripts Transfer Certificate Validation

Refer to **Conf. ScriptsTransferCertificateValidation**.

Scripts Transfer Certificate Trust Level

Refer to **Conf. ScriptsTransferCertificateTrustLevel**.

Scripts Transfer Cipher Suite

Refer to **Conf. ScriptsTransferCipherSuite**.

Scripts Transfer Tls Version

Refer to **Conf. ScriptsTransferTlsVersion** .

Scripts Dhcp Options Format

Refer to **Conf. ScriptsDhcpOptionsFormat**.

Scripts Transfer Retries Number

Refer to **Conf. ScriptsTransferRetriesNumber**.

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.

Copyright Notice

Copyright © 2023 Media5 Corporation.

This document contains information that is proprietary to Media5 Corporation.

Media5 Corporation reserves all rights to this document as well as to the Intellectual Property of the document and the technology and know-how that it includes and represents.

This publication cannot be reproduced, neither in whole nor in part, in any form whatsoever, without written prior approval by Media5 Corporation.

Media5 Corporation reserves the right to revise this publication and make changes at any time and without the obligation to notify any person and/or entity of such revisions and/or changes.



media5corp.com