

VLAN Configuration

All Mediatrix Products

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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.5)
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.5)
If your Mediatrix unit is configured to use the IPv6 Link Local	Locate the IP Link Local label underneath your Mediatrix unit.	Logging on to the Mediatrix Unit Web Interface (p.5)
LAN IP address as defined in your network address range		Configuring the Lan1 Network Interface (p.9)
Wan IP address as defined in your network address range.		Configuring the Uplink Network Interface to a static IP address (p.8)
Static Default Router IP address of the Uplink Network Interface		Configuring the Default Network Gateway to a Static IP Address (p.5)
IP address of each DNS server		Configuring the Domain Name Server (DNS) (p.6)
IP address of each SNTP server		Configuring the SNTP Server to a Static IP Address (p.7)
VLAN ID		Associating a VLAN to an Ethernet Link (p.10)

Getting Started

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 Default Network Gateway to a Static IP Address \(p.5\)](#)

Configuring the Default Network Gateway to a Static IP Address

Steps

- 1) Go to **/Host**.

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

Result

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

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

Next Step

[Configuring the Domain Name Server \(DNS\) \(p.6\)](#)

Configuring the Domain Name Server (DNS)

Before you start

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

Steps

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

Result

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

Next Step

Configuring the SNTP Server to a Static IP Address (p.7)

Configuring the SNTP Server to a Static IP Address

Before you start

Make sure there is an SNTP server available.

Steps

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

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

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

Result

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

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

Next Step

Configuring the Lan1 Network Interface (p.9)

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)**.
- 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 v	IpStatic (IPv4 Static) v	Uplink static IP address	Default router IP address	Enable v
					+

Next Step

Associating a VLAN to an Ethernet Link (p.10)

Link Default Values for the Uplink Network Interface

Unit Type	Link Default Value
Sentinel 400	eth1
Sentinel 100	eth1
Mediatrix G7	eth1
Mediatrix S7	eth1
Mediatrix C7 series	eth1
Mediatrix 4102S	Wan

Configuring the Lan1 Network Interface

Steps

- 1) Go to **Network/Interfaces**.
- 2) From the **Link** list located next to **Lan1**, leave the default value.
- 3) In the **Static IP Address** field, enter the LAN static IP address as defined in your network address range.
- 4) Click **Apply** to apply all changes to the configuration.

Note: A Warning message is displayed, but this is normal.

- 5) Click **Apply**.

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 **Lan1** Network Interface will be available in all the lists of the Management Interface where a Network Interface needs to be selected. For example, in the Local Firewall, and Configuration pages.

Network Interface Configuration						
Name	Link	Type	Static IP Address	Static Default Router	Activation	
Lan1	eth2-5	IpStatic (IPv4 Static)	LAN Static IP address/subnet		Enable	-
Uplink	eth1	IpStatic (IPv4 Static)	WAN Static IP address/subnet		Enable	-
						+

Next Step

[Configuring the Uplink Network Interface to a static IP address \(p.8\)](#)

Link Default Values for the Lan1 Network Interface

Unit Type	Link Default Value
Sentinel 400	eth2-5
Sentinel 100	eth2-5
Mediatrix G7 series	eth2-5
Mediatrix S7 series	eth2-5
Mediatrix C7 series	eth2
Mediatrix 4102	lan

Associating a VLAN to an Ethernet Link

Steps

- 1) Go to **Network/VLAN**.
- 2) From the **Link** selection list, select the Ethernet link the VLAN interface will use.
- 3) In the VlanId field, set the VLAN ID used by the VLAN interface.
- 4) In the VLAN configuration table, click +.
- 5) Set the default user priority value.
- 6) To create another VLAN, repeat steps 1 to 5.
- 7) Click **Apply**.

Result

The Vlan will be associated with a physical interface i.e. an Ethernet Link.

VLAN

VLAN Configuration			
Link	VlanId	Default User Priority	
eth1	xxx		+

Next Step

[Associating an Ethernet Link to a Network Interface \(p.11\)](#)

Associating an Ethernet Link to a Network Interface

Steps

- 1) Go to **Network/Interfaces**.
- 2) In the **Network Interface Configuration** table, from the **Link** field , select the link to be associated with a Network Interface (the link will appear as ethx.VlanId).

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

- 3) Complete the fields as required.
- 4) Click **Apply**.

Result

The Network interface is associated with a physical interface i.e. an Ethernet Link.

Network Interface Configuration						
Name	Link	Type	Static IP Address	Static Default Router	Activation	
Lan1	eth1	IpStatic (IPv4 Static)	192.168.0.10/24		Enable	-
Uplink	eth2-5.4	IpDhcp (IPv4 DHCP)	192.168.10.1/24		Enable	-
						+

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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