

The background of the page is a dark blue gradient with a complex, abstract graphic. It features a network of thin white lines connecting various points, some of which are larger black dots. On the left side, there is a curved, grid-like structure that resembles a stylized globe or a data visualization. The overall aesthetic is technical and modern.

# Basic SIP Unit Registration

For all Mediatrix units with telephony cards

DGW 49.2.2941

2023-08-09

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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.

**IMPORTANT:** The SIP gateway must be configured as a Trunk.

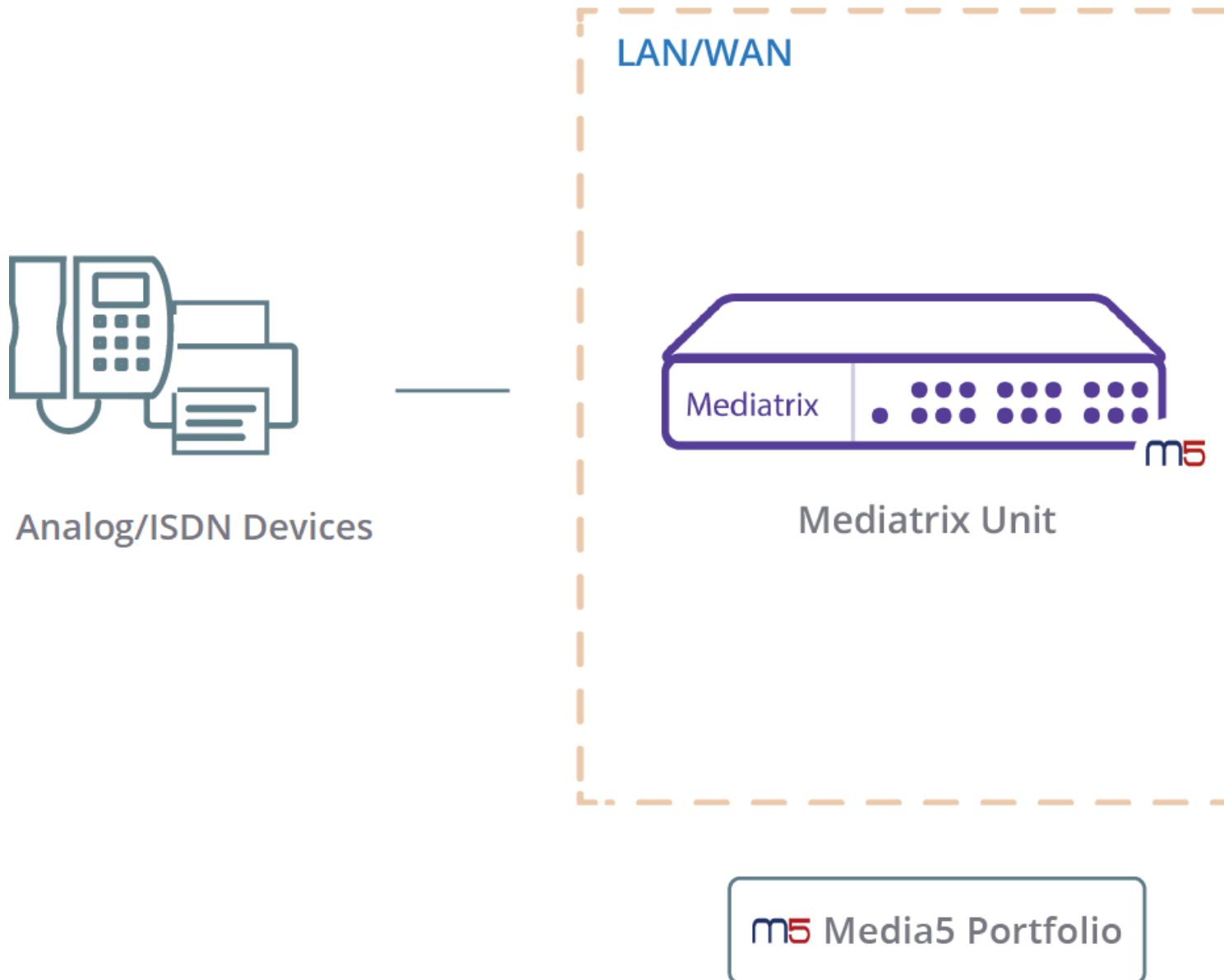
**Note:** The Mediatrix unit must be reinitialised to its factory default settings to make sure the configuration can be successfully executed.

| Information                                                                                                                                                                                                                                                                       | Value                           | Used in Step                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------|
| <p>IP address used by your Mediatrix unit to communicate with the Management Interface.</p> <ul style="list-style-type: none"> <li>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</li> </ul> | Use this value:<br>192.168.0.10 | <a href="#">Logging on to the Mediatrix Unit Web Interface (p.6)</a> |
| <ul style="list-style-type: none"> <li>If your Mediatrix unit is configured to use a DHCP server, use the DHCP server-provided IP address.</li> </ul>                                                                                                                             |                                 | <a href="#">Logging on to the Mediatrix Unit Web Interface (p.6)</a> |
| IP address or FQDN of the SIP <b>Registrar Host</b>                                                                                                                                                                                                                               |                                 | <a href="#">Configuring the Default SIP Servers (p.6)</a>            |
| IP address or FQDN of the <b>Proxy Host</b>                                                                                                                                                                                                                                       |                                 | <a href="#">Configuring the Default SIP Servers (p.6)</a>            |
| IP address or FQDN of the SIP Proxy Host of <b>Messaging Server Host</b> (if required)                                                                                                                                                                                            |                                 | <a href="#">Configuring the Default SIP Servers (p.6)</a>            |
| SIP username and password of each unit                                                                                                                                                                                                                                            |                                 | <a href="#">Configuring Unit Authentication (p.7)</a>                |
| Realm used for each unit.                                                                                                                                                                                                                                                         |                                 | <a href="#">Configuring Unit Authentication (p.7)</a>                |

# Basic SIP Unit Registration

This scenario describes how to perform a Basic Sip Unit Registration for the Mediatrix units.

The Network configuration is not covered in this document. For more details on network configuration, refer to the [DGW Configuration Guides - Basic Network Configuration](#) published on the [Media5 Documentation Portal](#).



## 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 SIP Servers \(p.6\)](#)

## Configuring the Default SIP Servers

### Information

In some instances, the configuration of the default servers may already be completed.

### Steps

- 1) Go to **SIP/Servers**.

- 2) In the **Registrar Host** field, indicate the server IP address or FQDN of the SIP Registrar server .
- 3) In the **Proxy Host** field, indicate the server IP address or FQDN of the SIP Proxy server.
- 4) In the **Messaging Server Host** field, indicate the server IP address or FQDN of the Messaging server, if needed.
- 5) Leave the **Outbound Proxy Host** field empty, unless specifically instructed to set a value.

**Note:** Setting the address to 0.0.0.0:0 or leaving the field empty disables the outbound proxy host.

- 6) Click **Apply**.
- 7) Located at the top of the page, click **restart required services**.

## Result

| Default Servers        |                                                      |
|------------------------|------------------------------------------------------|
| Registrar Host:        | <input type="text" value="sip.registrarserver.com"/> |
| Proxy Host:            | <input type="text" value="sip.proxyserver.com"/>     |
| Messaging Server Host: | <input type="text"/>                                 |
| Outbound Proxy Host:   | <input type="text"/>                                 |

## Next Step

[Configuring the Keep Alive feature \(p.7\)](#)

## Configuring the Keep Alive feature

### Before you start

**IMPORTANT:** This is not supported by all SIP servers, this feature is not mandatory in most use cases.

### Steps

- 1) Go to **SIP/Servers**.
- 2) In the **Keep-Alive** table, complete the fields as required.
- 3) If you selected an alternate destination, complete the fields of the **Alternate Destination** table.

## Next Step

[Configuring Unit Authentication \(p.7\)](#)

## Configuring Unit Authentication

### Before you start

The SIP gateway must be configured as a Trunk.

Unit Authentication applies to all challenges received for SIP dialogs. You can define several user names and passwords for the Mediatrix unit. These usernames and passwords apply to all endpoints of the unit.

## Steps

- 1) Go to **SIP/Authentication**.
- 2) Click **Edit All Entries** located at the bottom of the page.
- 3) In the **Authentication** table, from the **Criteria** selection list, select **Unit**.
- 4) From the **Realm** field, enter the provided realm.
- 5) From the **Validate Realm** selection list, select **Enable**.

**Note:** If no **Realm** was provided, leave the **Realm** field empty and from the **Validate Realm** selection list, select **Disable**.

- 6) In the **User Name** field, enter the SIP user name.
- 7) In the **Password** field, enter the appropriate password for each entry.
- 8) Click **Apply and Refresh Registration**.

## Result

Each gateway will be registered.

### ✦ Authentication

| Authentication |          |          |         |                   |                |                |           |          |  |
|----------------|----------|----------|---------|-------------------|----------------|----------------|-----------|----------|--|
| Priority       | Criteria | Endpoint | Gateway | Username Criteria | Validate Realm | Realm          | User Name | Password |  |
| 1              | Unit     |          |         |                   | Disable        |                | user_name | password |  |
| 2              | Unit     |          |         |                   | Enable         | provided realm | user_name | password |  |
| 3              | Unit     |          |         |                   | Enable         |                |           |          |  |
| 4              | Unit     |          |         |                   | Enable         |                |           |          |  |

## Next Step

[Registering a Unit to All Gateways \(p.8\)](#)

## Registering a Unit to All Gateways

## Steps

- 1) Go to **SIP/Registrations**.
- 2) In the **Unit Registration** table, enter in the **User Name**, a username to uniquely identify the user in the domain.
- 3) From the **Gateway Name** selection list, choose **All**.
- 4) Repeat steps 2 (p.8) and 3 (p.8) for each SIP account/Registration needed.
- 5) Click **Apply and Refresh**.
- 6) Click **restart required services** located at the top of the page.

## Result

The information will be displayed in the **Unit Registration Status** table.

| Unit Registration |                                           |                                                   |                                  |  |
|-------------------|-------------------------------------------|---------------------------------------------------|----------------------------------|--|
| Index             | User Name                                 | Gateway Name                                      |                                  |  |
| 1                 | <input type="text" value="default_user"/> | <input type="text" value="all"/> <small>▼</small> | <input type="button" value="-"/> |  |
|                   |                                           |                                                   | <input type="button" value="+"/> |  |

## Next Step

[Configuring OPTIONS Method Support \(p.9\)](#)

## Configuring OPTIONS Method Support

### Information

**Note:** This step is required if your server is configured to only receive 200 OK by the Mediatrix unit, when it polls the Mediatrix with SIP OPTIONS.

**Note:** This is not supported by all SIP servers, this feature is not mandatory in most use cases.

### Steps

- 1) Go to **SIP/Interop**.
- 2) In the **SIP Interop** table, from the **OPTIONS Method Support** selection list, select **Always 200 OK**.
- 3) Click **Apply**.

## Result

The unit will always answer 200 OK to SIP OPTIONS messages received (Keep Alive).

| SIP Interop                             |                                                        |
|-----------------------------------------|--------------------------------------------------------|
| Secure Header:                          | <input type="text" value="Disable"/>                   |
| Default Username Value:                 | <input type="text" value="Anonymous"/>                 |
| OPTIONS Method Support:                 | <input type="text" value="Always 200 OK"/>             |
| Ignore OPTIONS on no Usuable Endpoints: | <input type="text" value="Disable"/>                   |
| SIP URI User Parameter Value:           | <input type="text"/>                                   |
| Behavior on Machine Detection:          | <input type="text" value="Re-INVITE on Fax T38 Only"/> |
| Registration Contact Matching:          | <input type="text" value="Strict"/>                    |
| Transmission Timeout:                   | <input type="text" value="32"/>                        |

### Next Step

[Configuring the Keep Alive feature \(p.7\)](#)

## Configuring the Keep Alive feature

Before you start

**IMPORTANT:** This is not supported by all SIP servers, this feature is not mandatory in most use cases.

### Steps

- 1) Go to **SIP/Servers**.
- 2) In the **Keep-Alive** table, complete the fields as required.
- 3) If you selected an alternate destination, complete the fields of the **Alternate Destination** table.

### Next Step

[Configuring Unit Authentication \(p.7\)](#)

# Available Documentation

For more details, refer to the [Mediatrix Documentation](#) published on the [Media5 Documentation Portal](#).

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