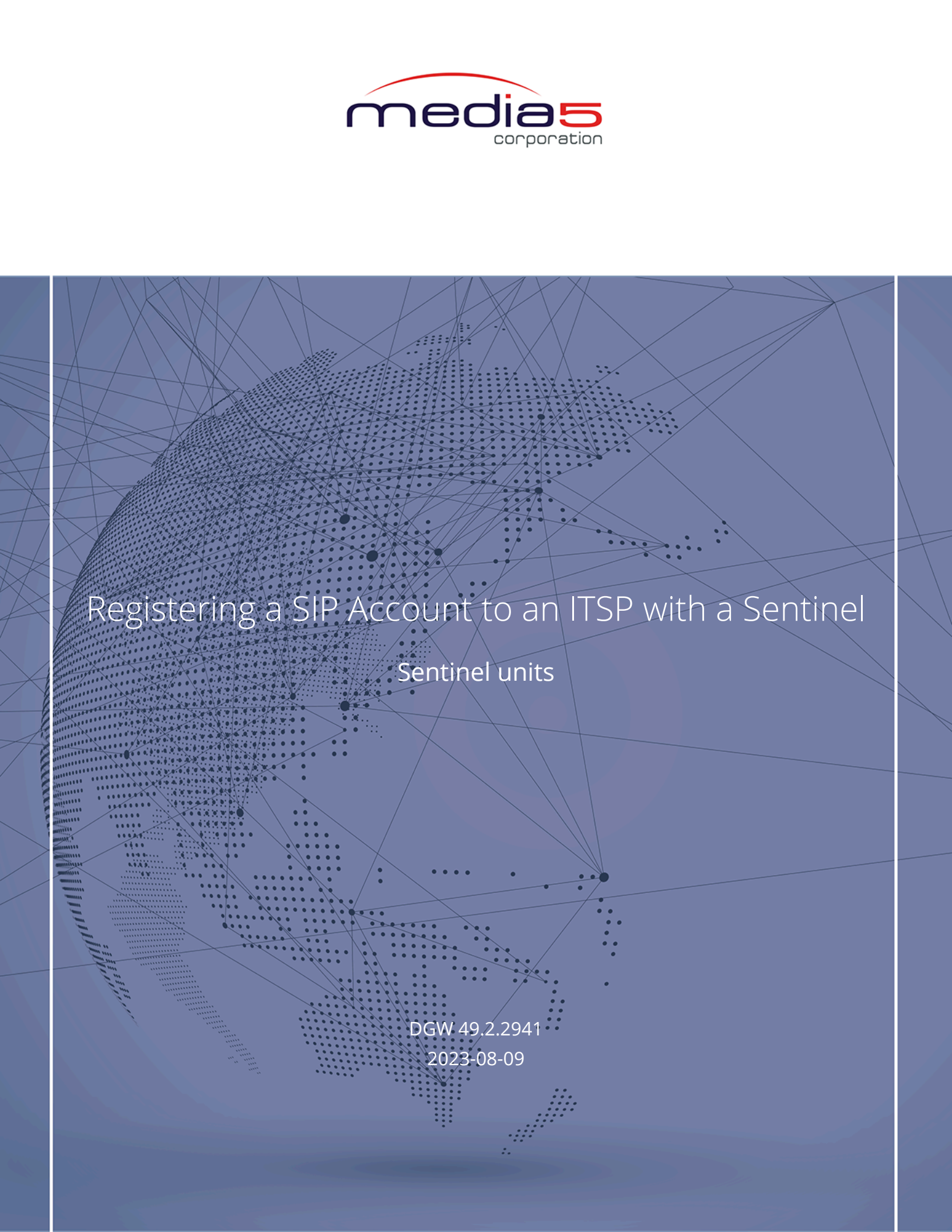


The background is a dark blue gradient with a complex, abstract graphic. It features a network of thin white lines connecting various points, some of which are larger black dots. On the left side, there is a curved, grid-like structure resembling a dome or a stylized globe, composed of many small white dots and lines. The overall effect is a high-tech, digital aesthetic.

Registering a SIP Account to an ITSP with a Sentinel Sentinel units

DGW 49.2.2941
2023-08-09

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1 Basic Concepts

1.1 Registration Agent

The Registration Agent is a feature that performs REGISTERS on behalf of other users.

In some use cases, using the Registration Agent may be necessary to have a separate entity perform the REGISTERS on behalf of users. For example:

- When users cannot register themselves.
- To separate internal and external networks in Demarcation Point scenarios

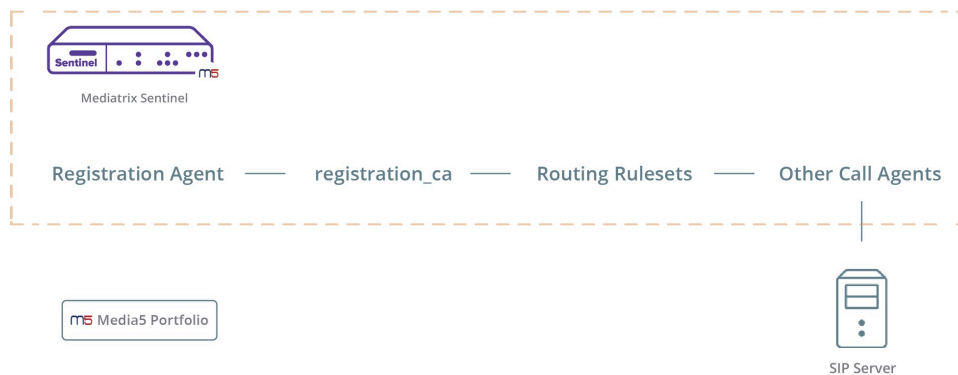
The Registration Agent is only involved with the registrations it initiates. If the Registration Agent is used, its REGISTERS are routed to the Mediatrix unit via the `registration_ca` Call Agent.

1.2 `registration_ca` Call Agent

The **`registration_ca`** Call Agent is used to route the registrations issued by the Registration Agent.

The **`registration_ca`** Call Agent should not be used for other purposes. The registrations issued by the Registration Agent must be routed from the **`registration_ca`** to the Call Agent facing the destination Sip registrar (typically **`wan_ip_trunk_ca_ca`** or **`secondary_ip_trunk_ca`**).

The registration is routed using the User Name, Password and Domain to build the AOR and the R-URI . The Contact is the contact header of the registration, it should contain the IP-address or FQDN of the Mediatrix unit.



2 Configuration Tasks

2.1 Configuring the Registration Call Agent

Associate the registration_ca Call Agent to the Registration Agent to route the registrations issued by the Registration Agent.

Steps

- 1) Go to **SBC/Configuration**.
- 2) In the **Call Agent Configuration**, click  located on the same line as **registration_ca**.
- 3) In the **Configure Call Agent** table, make sure the **Enable** checkbox is selected.
- 4) From the **Signaling Interface** selection list, choose **loop_s**.
- 5) From the **Media Interface** selection list, choose **loop_m**.
- 6) In the **Peer Host** field, enter 127.0.0.1:5060.
- 7) Click **Save**.
- 8) Click **Apply**.

Result

Configure Call Agent		Value
Call Agent Parameters		
Name		registration_ca
Enable		☒
Gateway		
Signaling Interface		loop_s
Media Interface		loop_m
Peer Host		127.0.0.1:5060
Peer Network		
Force Transport		None
Monitoring and Blacklisting Parameters		
Keep-Alive Interval		0
Blacklisting Duration		0
Blacklisting Delay		0
Blacklisting Error Codes		

Next Step

[Configuring a Registration Agent \(p.5\)](#)

Configure the registration agent used to issue the registrations.

2.2 Configuring a Registration Agent

Configure the registration agent used to issue the registrations.

Steps

- 1) Go to **SBC/Registration**.
- 2) In the **Registration Agent Configuration** table, click **+**.

Note: A new line of fields is added.

- 3) Complete the **User Name**, **Friendly Name**, and **Domain parameters** fields according to the service provider's requirements.
- 4) In the **Contact** field, enter **sip:myUSERNAME@%capubip(wan_ip_trunk_ca)%**.

Note: myUSERNAME must be replaced by the SIP account

Note: %capubip(wan_ip_trunk_ca)% is a macro, which will be automatically replaced by the IP address and port and prefixed by sip:.

- 5) From the **Registration Type** selection, make sure **Normal** is selected.
- 6) If necessary, repeat [step 2](#) to [step 4](#) if you are using more than one service provider.
- 7) Click **Apply**.

Result

Registration Agent Configuration				
User Name	Friendly Name	Domain	Contact	Registration Type
USERNAME		IP.FQDN.of.registrar	sip:myCONTACT@%capubip(wa	Normal ▼

Next Step

[Configuring the wan_ip_trunk_ca Call Agent \(p.5\)](#)

Associate the Call Agent used to route VoIP Calls to the ITSP.

2.3 Configuring the wan_ip_trunk_ca Call Agent

Associate the Call Agent used to route VoIP Calls to the ITSP.

Steps

- 1) Go to **SBC/Configuration**.
- 2) Select the **Enable** check box, located next to **wan_ip_trunk_ca**.
- 3) In the **Call Agent Configuration** table, click **+** next to **wan_ip_trunk_ca**.

- 4) In the **Configure Call Agent** table, complete the following fields:
 - a) From the **Signaling Interface** selection list, select **uplink_s**.
 - b) From the **Media Interface** selection list, select **uplink_m**.
 - c) Set the **Peer Host** to the IP address of the service provider server or FQDN.
- 5) In the **Call Agent Rulesets** table, click **+**.
- 6) From the **Name** selection list, choose **uac_authentication_out**.

Note: If the ruleset is not in the selection list, it is because it was removed and you will need to import the latest Ruleset package.

- 7) In the **Parameters** field enter USERNAME=your_username PASSWORD=your_password corresponding to the username and password used for authentication.

Note: The parameters are case sensitive and are separated by a space.

- 8) Click **Save**.
- 9) Click **Apply** to apply all changes to the configuration.

Result

Once the settings are applied, the **Configuration Modified** field will change to **No** indicating that the configuration that was modified is now applied to the system. When the Mediatrix SBC will use the selected Call Agent for a communication, the selected parameters will be applied. The **uac_authentication_out** Call Agent Ruleset will handle the digest authentication, with the "USERNAME" and "PASSWORD" parameters.

Configure Call Agent		Value
Call Agent Parameters		
Name	wan_ip_trunk_ca	
Enable	☒	
Gateway		
Signaling Interface	uplink_s	
Media Interface	uplink_m	
Peer Host	FQDN/IP address and port	
Peer Network		
Force Transport	None	
Monitoring and Blacklisting Parameters		
Keep-Alive Interval	0	
Blacklisting Duration	0	
Blacklisting Delay	0	
Blacklisting Error Codes		

Call Agent Rulesets		
Priority	Name	Parameters
1	uac_authentication_out	USERNAME=your_username PASSWORD=your_password
		+

Next Step

[Associating the registration_to_wan_ip_trunk Routing Ruleset to your Configuration \(p.7\)](#)

Configure the route to send SIP registrations to the ITSP.

2.4 Associating the **registration_to_wan_ip_trunk** Routing Ruleset to your Configuration

Configure the route to send SIP registrations to the ITSP.

Steps

- 1) Go to **SBC/Configuration**.
- 2) Click **+**.
- 3) In the **Routing Rulesets** table, from the **Name** selection list, select **registration_to_wan_ip_trunk**.

Note: If the ruleset is not in the selection list, it is because it was removed and you will need to import the latest Ruleset package.

- 4) Click **Save**.
- 5) Click **Apply** to apply all changes to the configuration.

Result

Routing Rulesets			
Priority	Name	Parameters	
1	registration_to_wan_ip_trunk		^ v -
			+

3 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.

4 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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