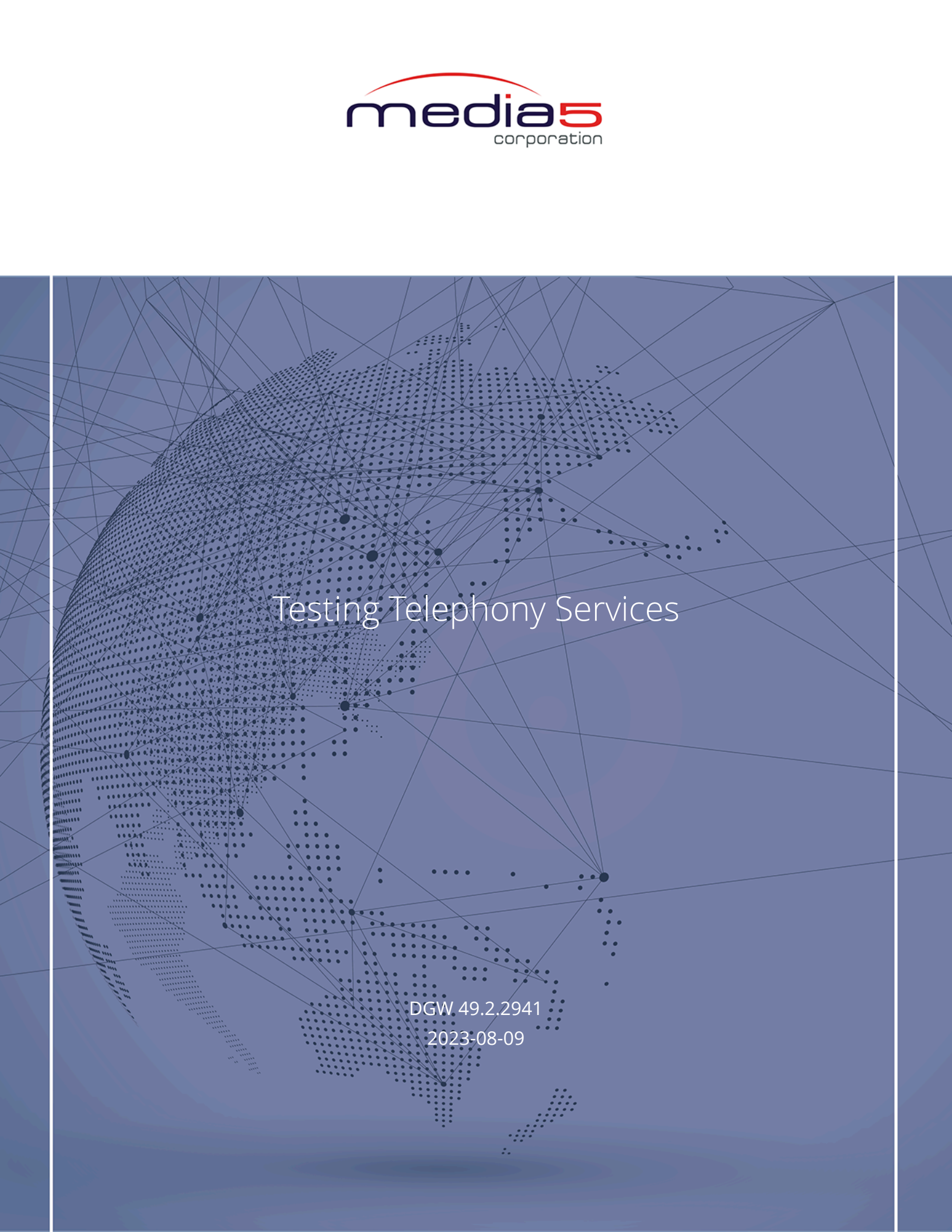


The background of the slide is a dark blue gradient. It features a complex, abstract graphic consisting of a dense network of thin, light blue lines connecting numerous small, dark blue dots. These dots are arranged in a way that suggests a global map, with higher concentrations of dots and lines in the upper left and lower right areas, creating a sense of connectivity and data flow.

Testing Telephony Services

DGW 49.2.2941
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Testing the Hold Service

Before you start

The **Hold Activation** field under the **Telephony > Services > Hold** section must be set to **Enable**.

Information

Endpoints are set as follows:

- Endpoint A: 123
- Endpoint B: 456
- Endpoint C: 789

Steps

- 1) A calls B.
- 2) Hook flash from A.
- 3) Verify that B is on hold.
- 4) Hook flash again from A.
- 5) Verify that voice path is back.
- 6) Release the call.

Testing the Call Waiting Service

Before you start

The **Call Waiting Activation** field under **Telephony > Services > Call Waiting** section must be set to **Enable**.

Information

Endpoints are set as follows:

- Endpoint A: 123
- Endpoint B: 456
- Endpoint C: 789

Steps

- 1) A calls B.
- 2) Verify the voice path.
- 3) C calls A.
- 4) Verify that A hears the stutter dial tone.
- 5) Hang up all endpoints.

Testing the Second Call Service

Before you start

The **Second Call Activation** field under **Services > Telephony > Second Call** section must be set to **Enable**.

Information

Endpoints are set as follows:

- Endpoint A: 123
- Endpoint B: 456
- Endpoint C: 789

Steps

- 1) Place a call between A and B.
- 2) Hook flash on A.
- 3) A initiates a « Second Call » to C.
- 4) Verify that the second voice path (between A and C) is established.

Testing the Blind Transfer Service

Before you start

The **Blind Transfer Activation** field under **Telephony** > **Services** > **Call Transfer** section must be set to **Enable**.

Steps

- 1) A calls B.
- 2) When the call is established, hook flash on B.
- 3) Wait for the second dial tone on B.
- 4) B calls C.
- 5) Wait for the ring back in B and then hang up B.
- 6) C should ring in the mean time.
- 7) You should now hear a ring back in A.
- 8) C answers the call.

Result

Call is established between A and C.

Testing the Attended Transfer

Before you start

The **Attended Transfer Activation** field under **Telephony > Services > Call Transfer** section must be set to **Enable**.

Steps

- 1) A calls B.
- 2) When the call is established, hook flash on B.
- 3) Wait for the second dial tone on B.
- 4) B calls C.
- 5) Answer C when it is ringing.
- 6) Verify voice path between B and C.
- 7) Hang up B.
- 8) The call should be transferred.
- 9) Call is established between A and C.

Testing the Conference Call Service

Before you start

The **Conference Activation** field under **Telephony** > **Services** > **Conference** section must be set to **Enable**.

Information

Endpoints are set as follows:

- Endpoint A: 123
- Endpoint B: 456
- Endpoint C: 789

Steps

- 1) Place a call between A and B.
- 2) Hook flash on A.
- 3) A initiates a « Second Call » to C .
- 4) Once the voice path between A and C is established, hook flash again on A to start the conference between A, B and C.
- 5) Verify that a 3 way voice path is established.

Testing the Automatic Call Service

Steps

- 1) Go to **Telephony/Services**.
- 2) In the **Services Configuration** table, enable the **Automatic Call Activation** on endpoint A.
- 3) Set the **Automatic Call Target** to 456 (endpoint B).
- 4) Click **Apply**.
- 5) Pick up telephone A.
- 6) A call between A and B should be automatically established.

Result

Services Configuration	Unit Defaults	
General Configuration		
Hook Flash Processing:	Process Locally	
Automatic Call		
Automatic Call Activation:	Enable	
Automatic Call Target:	456	

Testing the Delayed Hotline Call Service

Steps

- 1) Go to **Telephony/Services**.
- 2) In the **Services Configuration** table, under the **Delayed Hotline** section, enable the **Delayed Hotline Activation** on endpoint A.
- 3) Set the **Delayed Hotline Condition** to **FirstDTMFTimeout**.
- 4) Set the **Delayed Hotline Target** to 456 (endpoint B).
- 5) Click **Apply**.
- 6) Pick up phone A and wait for the First DTMF timer expiration.

Result

A call between A and B should automatically be established. First DTMF timer is the First DTMF Timeout defined under **Telephony/ DTMF Maps**. The respective parameter has the name "DtmfMapTimeoutFirstDtmf" and can also be modified via CLI or SNMP. Its default value is 20.000 ms , i.e. 20 seconds.

General Configuration				
First DTMF Timeout	Inter DTMF Timeout	Completion Timeout	Digit Detection (FXS/FXO)	
20000	3000	60000	When Pressed	Edit Endpoints

Configuring the Call Forward Service for Testing

Information

Endpoints are set as follows:

- Endpoint A: 123
- Endpoint B: 456
- Endpoint C: 789

Steps

- 1) Go to **Telephony/Services**
- 2) In the **Call Forward Unconditional** section, set the **Allow Activation via Handset** to **Enable** on endpoint A.
- 3) Set the **DTMF Map Activation** field to *54.
- 4) Set the **DTMF Map Deactivation** field to *55.
- 5) Set the **Activation** field to **Active**.
- 6) Set the **Forwarding Address** to 456 (endpoint B).
- 7) Click **Apply**.

Testing the Call Forward Service

Before you start

The [Configuring the Call Forward Service for Testing](#) (p.12) task must be completed.

Steps

- 1) From C, dial A.
Note: You should hear a short ring from A and then B should ring.
- 2) Answer the call and verify the voice path between B and C.
- 3) Hang up all telephones.
- 4) From A, dial *55 to deactivate the service and hang up.
- 5) C calls A again.
- 6) Verify that the Call Forward is not active anymore.
- 7) From A, dial *54 to re-activate the service and hang up.
- 8) C calls A again.
- 9) Verify the forwarding to B.
- 10) Hang up all telephones.
- 11) From A, dial *54 789 and hang up. 789 is the C endpoint.
- 12) Refresh the Web page and verify that the **Forwarding Address** has changed to 789 (C).

13) B calls A and verify that the call is forwarded to C (789).

Configuring the CCBS Call Completion Service for Testing

Before you start

The configured SIP server must support the reception of SIP SUBSCRIPTION messages. Mediatrix Gateways do not support them

Information

Endpoints are set as follows:

- Endpoint A: 123
- Endpoint B: 456
- Endpoint C: 789

Steps

- 1) Go to **Telephony/Services**.
- 2) In the **Services Configuration** table, under the **Call Completion** section, set the **Allow CCBS Activation via Handset** to **Enable** on endpoint A.
- 3) Set the **CCBS DTMF Map Activation** field to *98.
- 4) Set the **CCBS DTMF Map Deactivation** field to *99.
- 5) Click **Apply**.

Testing the CCBS Call Completion Service

Information

Endpoints are set as follows:

- Endpoint A: 123
- Endpoint B: 456
- Endpoint C: 789

Steps

- 1) Make a call from B to C.
- 2) Once the call is established between B and C, call B from A.
- 3) A should hear the busy tone.
- 4) Dial *98 to activate the CCBS service.
- 5) Hang up A.
- 6) Hang up B and C.
- 7) Wait a few seconds.

- 8) A will hear a special ring.
- 9) Pick up A and the call will be completed with B.

Testing the Direct IP Call Service

Before you start

The **Direct IP Address Call Activation** field under **Telephony > Services > Direct IP Address Call** section, must be set to **Enable**.

Steps

- 1) Dial '**' .
- 2) Dial the numerical DTMFs of the IP address.

Note: For the dot '.', use the star '*' sign.

- 3) Terminate the IP call without specifying a phone number by using the star '*' or continue with a phone number by using the pound '#' sign.
- 4) Optionally, dial the phone number.

Note: Example: IP calls to a unit at IP address '1.2.3.4': – If the phone number is not required, the user must dial the following DTMFs sequence: **1*2*3*4*. – To reach the phone number '3330001', the user must dial the following DTMFs sequence: **1*2*3*4#3330001.

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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