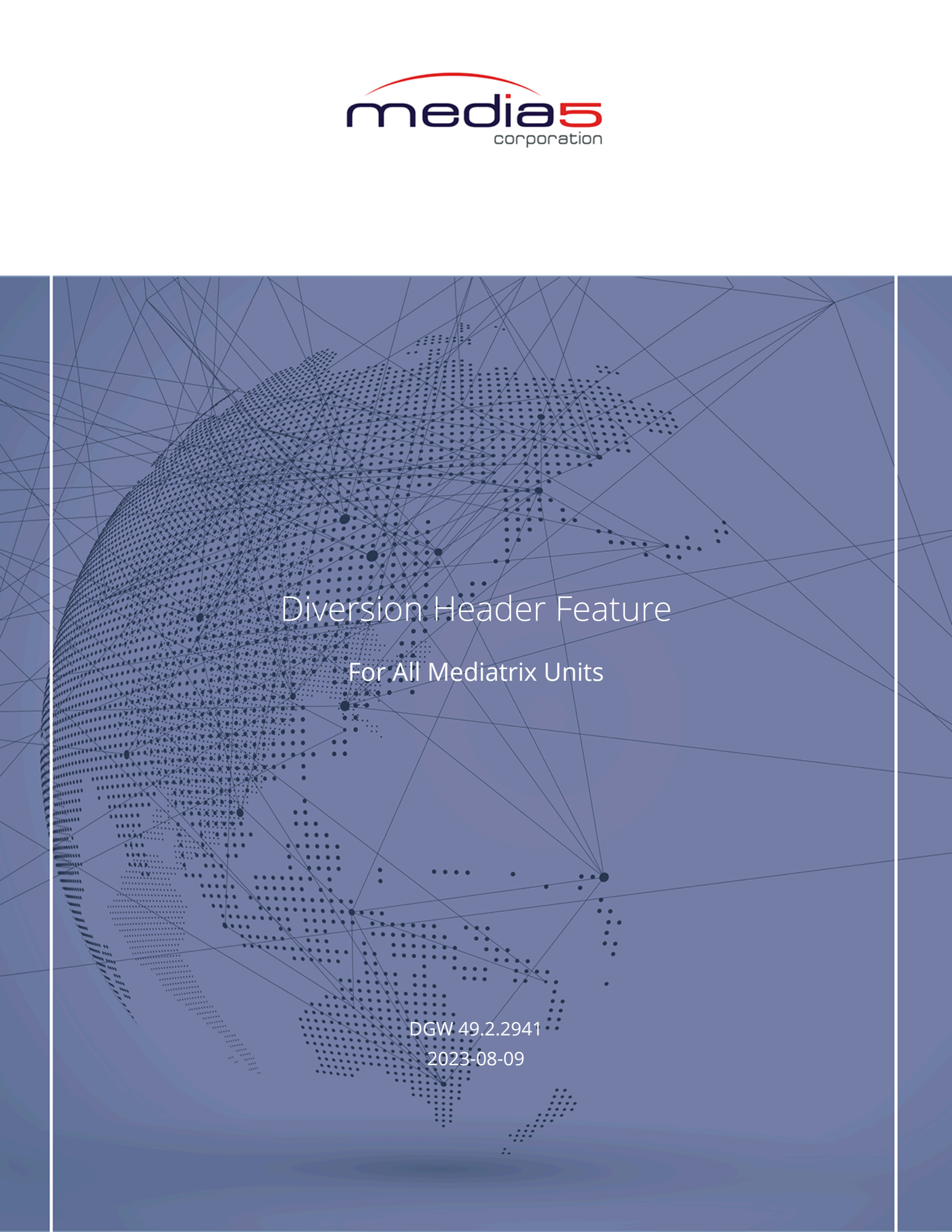


The background of the slide is a dark blue gradient with a complex, abstract graphic. It features a network of thin white lines connecting various points, some of which are larger black dots. A large, curved, dotted shape on the left side resembles a stylized globe or a data visualization. The overall aesthetic is technical and modern.

Diversion Header Feature

For All Mediatrix Units

DGW 49.2.2941

2023-08-09

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Diversion Header Requirements

This feature is supported in a SIP to ISDN or ISDN to SIP scenario.

Diversion Header Supported Standards

On the ISDN side, the standard supported is ETS 300 207: Call Diversion and Call Rerouting. This feature is not available on NI2 and QSIG signaling protocols.

In SIP, the SIP gateway supports RFC 5806 Diversion Indication in SIP in received and sent INVITES, as well as in 302 messages.

SIP Diversion Header

A SIP Diversion header is received and sent in SIP INVITEs messages as well as in 302 Moved Temporarily messages.

When receiving an INVITE or a 302 message with a Diversion header, an ISDN Facility message will be sent with the information contained in the Diversion header.

The following diversion reasons (taken from RFC 5806) are supported in the SIP message:

- "unknown"
- "user-busy"
- "no-answer"
- "unconditional"

Here is an example for a 3xx message with a Diversion header:

Time	Source	Destination	Protocol	Info
92 13:49:10.485983000	10.1.121.155	10.1.121.156	SIP/SDP	Status: 200 OK
93 13:49:10.523967000	10.1.121.156	10.1.121.155	SIP	Request: ACK sip:213010.1.121.155
212 13:49:16.870512000	10.1.121.155	10.1.121.153	SIP/SDP	Request: INVITE sip:213010.1.121.153
214 13:49:17.023046000	10.1.121.153	10.1.121.155	SIP	Status: 302 Moved Temporarily
215 13:49:17.044867000	10.1.121.155	10.1.121.153	SIP	Request: ACK sip:213010.1.121.153
216 13:49:17.049374000	10.1.121.155	10.1.121.156	SIP/SDP	Request: INVITE sip:210010.1.121.156
217 13:49:17.165592000	10.1.121.156	10.1.121.155	SIP	Status: 180 Ringing
509 13:49:24.921119000	10.1.121.156	10.1.121.155	SIP/SDP	Status: 200 OK

Frame 214: 454 bytes on wire (3632 bits), 454 bytes captured (3632 bits) on interface 0
Ethernet II, Src: Mediatrix_07:cd:d7 (00:90:f8:07:cd:d7), Dst: Mediatrix_08:e2:04 (00:90:f8:08:e2:04)
Internet Protocol Version 4, Src: 10.1.121.153 (10.1.121.153), Dst: 10.1.121.155 (10.1.121.155)
User Datagram Protocol, Src Port: sip (5060), Dst Port: sip (5060)
Session Initiation Protocol (302)
Status-Line: SIP/2.0 302 Moved Temporarily
Message Header
Via: SIP/2.0/UDP 10.1.121.155;branch=z9hG4bK847dacbfe8f19cb3e
From: <sip:2110192.168.10.10>;tag=2a3bc88a29
To: <sip:213010.1.121.153>;tag=1559886350
Call-ID: 62aeb6e2891b32dc
CSeq: 885070637 INVITE
Contact: <sip:210010.1.121.156>
Diversion: <sip:213010.1.121.153>;reason=unconditional;counter=1
Server: Mediatrix 4104plus/v2.0.23.338 4104-MX-D2000-106
Content-Length: 0

ISDN Facility

A Diversion ISDN message is received or sent in an IE Facility

When receiving a Diversion ISDN message, a Diversion header will be added to the INVITE or the 302 Moved Temporarily SIP message.

The following Diverting properties can be modified or used as in Routes or Mapping in the Call Router configuration:

- Last/Original Diverting Reason
- Last/Original Diverting E164
- Last/Original Diverting Party Number Type
- Last/Original Diverting Public Type of Number
- Last/Original Diverting Private Type of Number
- Last/Original Diverting Number Presentation

How to Activate the Diversion Feature

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

[Activating the Diversion Feature in SIP \(p.7\)](#)

[Activating the Diversion in ISDN \(p.8\)](#)

Activating the Diversion Feature in SIP

Steps

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

- 2) In the **Diversion** table, set the **Method** of all gateways to **Diversion Header**.
- 3) Click **Apply**.
- 4) Click **Apply**.

Result

Diversion		
Gateway Name	Method	
phone_lines_gw	Diversion Header ▼	
trunk_lines_gw	Diversion Header ▼	

Next Step

[Restarting Services](#) (p.8)

Activating the Diversion in ISDN

Steps

- 1) Go to **ISDN/Services**.
- 2) In the **Services Configuration** table, set **Facility Services** to **Enable**.
- 3) Click on **Apply**.

Result

Services Configuration	
Facility Services:	Disable ▼
Calling Line Information Presentation:	Disable ▼
	Enable

Next Step

[Restarting Services](#) (p.8)

Restarting Services

Steps

- 1) Go to **System/Services**.
- 2) In the **restart required services** table, click **restart required services**.

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.

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.

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