

Ports and Protocol Settings

All Mediatrix Units

DGW 49.2.2941

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1 Default Ports Used by DGW

Connection Type	Default Port Number	Transport Protocol
Debug Signaling Log Host	6000	UDP
DHCP	68	UDP
FTP	21	TCP
HTTP	80	TCP
HTTPS	443	TCP
Persistent TLS Base Port	16000	TCP
Radius default port for accounting	1813	TCP
Radius default port for authentication	1812	TCP
RTP (including RTCP)	Range starting from 5004 ¹	UDP
Secure SIP	5061	TCP
SIP	5060	UDP
SNMP Listening	161	UDP
SNMP Trap	162	UDP
SNTP	123	UDP
SRTP (including SRTCP)	Range starting from 5004 ¹	UDP
SSH	22	TCP
Syslog	514	UDP
T.38	6004	UDP
Telnet	23	TCP
TFTP	69	UDP
1: For more details, refer to Calculating the RTP Port Range of a Mediatrix Unit (p.4)		

2 Calculating the RTP Port Range of a Mediatrix Unit

To calculate the port range of a Mediatrix unit, use the [Amount of Ports to Reserve](#) (p.5) and the [Default Ports Used by DGW](#) (p.3) tables.

When opening a port range for RTP/SRTP, the first port of the range is for RTP/SRTP (usually 5004) and the second port (usually 5005) is for RTCP/SRTCP. Therefore subsequent even ports of the range will be for RTP/SRTP and uneven ports will be for RTCP/SRTCP.

Note: It is a common practice to start the port range of the RTP/SRTP on an even number.

RTP (including RTCP)	(Base RTP port) to (Base RTP port + amount of ports to reserve for all the telephony ports of the unit)
SRTP (including SRTCP)	(Base SRTP port) to (Base SRTP port + amount of ports to reserve for all the telephony ports of the unit)
T.38	(Base T.38 port) to (Base T.38 port + amount of ports to reserve for all the telephony ports of the unit)

2.1 Amount of Ports to Reserve

Telephony ports	Amount of Ports to Reserve for	
	RTP/SRTP	T.38
2 FXS	16	2
4 FXS	24	4
8 FXS	40	8
16 FXS	80	16
24 FXS	112	24
28 FXS	128	28
2 FXO	16	2
4 FXO	24	4
8 FXO	40	8
16 FXO	80	16
24 FXO	112	24
28 FXO	128	28
1 E1	136	30
2 E1	272	60
3 E1	408	90
4 E1	544	120
5 E1	680	150
6 E1	816	180
7 E1	952	210
8 E1	1088	240
1 T1	108	23
2 T1	216	46
3 T1	324	69
4 T1	432	92
5 T1	540	115
6 T1	648	138

Telephony ports	Amount of Ports to Reserve for	
	RTP/SRTP	T.38
7 T1	756	161
8 T1	864	184
1 BRI	16	2
2 BRI	24	4
4 BRI	40	8
8 BRI	80	16
16 BRI	144	32

2.2 Examples of Port Range Calculations

For Voice: 5004 to (5004 + number of reserved ports for all the telephony ports of the unit).

For T.38: 6004 to (6004 + number of reserved ports for all the telephony ports of the unit).

Mediatrrix G7 with 2 E1 and 4 FXS ports

Use the [Amount of Ports to reserve](#) table to locate how many ports must be reserved for all the telephony ports of the unit.

Note: RTP Port 5004 and T.38 port 6004 are the base ports used by DGW. To verify the values used on your unit, open the DGW Web page of your unit, under **Media/Misc** in the **Base Ports** table. For more details, refer to the **Mipt.IpTransportRtpBasePort** and **Mipt.IpTransportT38BasePort** parameters in the [DGW Configuration Guide - Reference Guide](#) published on the Media5 documentation portal at <https://documentation.media5corp.com>

	Voice in RTP/SRTP	T.38
Ports reserved for 2 E1	272	60
Ports reserved for 4 FXS	24	4
Base port	5004	6004
Upper port	$5004 + 272 + 24 = 5300$	$6004 + 60 + 4 = 6068$
Port Range	5004 to 5300	6004 to 6068

Sentinel 400 with 2 T1, 4 FXS , and 4 FXO ports

	Voice in RTP/SRTP	T.38
Ports reserved for 2 T1	216	46
Ports reserved for 4 FXS	24	4
Ports reserved for 4 FXO	24	4
Base port	5004	6004
Upper port	$5004 + 216 + 24 + 24 = 5268$	$6004 + 46 + 4 + 4 = 6058$
Port Range	5004 to 5268	6004 to 6058

3 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.

4 Copyright Notice

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