

OpenScape Business V1

Tutorial

SIP Endpoint Configuration – Mediatrix Gateways

Version 1.0

Definitions

HowTo

An OpenScape Business HowTo describes the configuration of an OpenScape Business feature within the OpenScape Office administration. It addresses primarily trained administrators of OpenScape Business.

Tutorial

Within the OpenScape Business tutorials procedures for installation, administration and operation of specific devices, applications or systems, which are connected to OpenScape Business, are described. The tutorial addresses primarily trained administrators of OpenScape Business.

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Table of History

Date	Version	Changes
2013-06-14	1.0	Initial Creation

1 Mediatrix Gateways

1.1 Mediatrix 4102S



For information see the Mediatrix homepage:

<http://www.mediatrix.com/voip-adaptors/mediatrix-4100-series#>

Used Endpoint:

Produkt-Modell: Mediatrix 4102S

Software Version: Dgw 2.0.7.110 (Profile: 4102-MX-D2000-44)

1.1.1 Basic Configuration

Default factory values for the web access are:

User Name: admin

Password: administrator

Network Settings

If no DHCP is used, enter the IP network configuration parameters as used in your network:

Enter Default Gateway, DNS and SNTP under **Host** settings

Enter device IP-Address under **Interfaces**

Mediatrix

System Network POTS SIP Telephony Call Router Management Reboot

Status Host Interfaces VLAN QoS Local Firewall IP Routing Network Firewall NAT DHCP Server

✖ Status

Interfaces Status				
Interface	Link	IP Address	Default Router	Status
Rescue	wan	192.168.138.196/24	192.168.138.249	Active

Host Status

General Configuration:

Automatic Configuration Interface: Uplink

Host Name Configuration:

Host Name:

Domain Name: (none)

Default Gateway Configuration:

Default Gateway: 192.168.138.249

DNS Configuration:

Primary DNS: 192.168.138.249

SNTP Configuration:

SNTP Host: 192.168.138.72:123

Firewall								
Scope	#	Source Address	Source Port	Destination Address	Destination Port	Protocol	Connection State	Action
No rule currently applied in the Firewall								

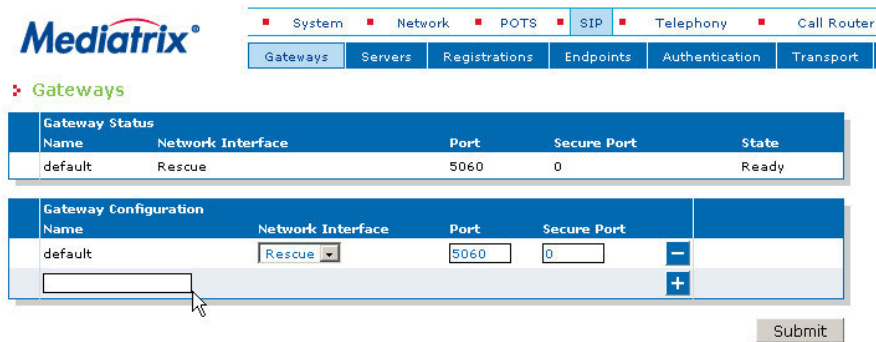
Ethernet Ports Status

Name	Link	Speed
LAN	lan	Disconnected
WAN	wan	100 Mbit/s Half-duplex

SIP

SIP-Gateways

Select the correct interface port (e.g. rescue if device is connected via WAN port) and enter the port number



The screenshot shows the Mediatrix web interface for SIP Gateway configuration. At the top, there are tabs for System, Network, POTS, SIP (selected), Telephony, and Call Router. Below these are sub-tabs for Gateways, Servers, Registrations, Endpoints, Authentication, and Transport. The 'Gateways' section is active, showing a table of Gateway Status and a configuration form for the 'default' gateway. The configuration form includes fields for Name, Network Interface (set to 'Rescue'), Port (5060), Secure Port (0), and a minus button. A plus button is also visible. A 'Submit' button is at the bottom right.

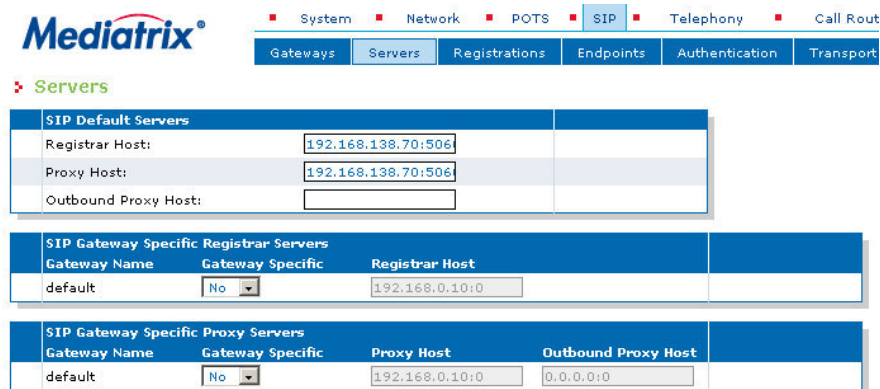
Gateway Status				
Name	Network Interface	Port	Secure Port	State
default	Rescue	5060	0	Ready

Gateway Configuration				
Name	Network Interface	Port	Secure Port	
default	Rescue	5060	0	-
				+

Submit

SIP-Servers

Enter the OpenScope Business IP address for Registrar and Proxy



The screenshot shows the Mediatrix web interface for SIP Servers configuration. At the top, there are tabs for System, Network, POTS, SIP (selected), Telephony, and Call Router. Below these are sub-tabs for Gateways, Servers (selected), Registrations, Endpoints, Authentication, and Transport. The 'Servers' section is active, showing three tables: SIP Default Servers, SIP Gateway Specific Registrar Servers, and SIP Gateway Specific Proxy Servers. Each table has fields for Hostnames and IP addresses.

SIP Default Servers	
Registrar Host:	192.168.138.70:506
Proxy Host:	192.168.138.70:506
Outbound Proxy Host:	

SIP Gateway Specific Registrar Servers		
Gateway Name	Gateway Specific	Registrar Host
default	No	192.168.0.10:0

SIP Gateway Specific Proxy Servers			
Gateway Name	Gateway Specific	Proxy Host	Outbound Proxy Host
default	No	192.168.0.10:0	0.0.0.0:0

Account settings:

Phone Value	configured in OpenScope Business:
Registrar Host	IP-Address of OpenScope Business
Proxy Host:	IP-Address of OpenScope Business
configured in SIP-Registrations	configured in OpenScope Business: Telephones / Subscribers-> IP Telephones -> Edit
User name	Call number
Friendly Name	Optional, Phone name can only be seen in the network traces, OpenScope Business uses the name configured in system
configured in SIP-Authentication	configured in OpenScope Business (see 1.7): Telephones / Subscribers-> IP Telephones -> Edit
Password	Password
User Name	SIP User ID / Username

Enter UserName and Friendly name, select enable for Register and assign the Gateway

Mediatrix®

System Network POTS SIP Telephony Call Router Managem

Gateways Servers Registrations Endpoints Authentication Transport Interop Misc

➤ Registrations

Endpoints Registration Status				
Endpoint	User Name	Gateway Name	Registrar	Status
Phone-Fax1	3364	default	192.168.138.70:5060	Registered
Phone-Fax2	3365	default	192.168.138.70:5060	Registered

Unit Registration Status			
User Name	Gateway Name	Registrar	Status

Endpoints Registration				
Endpoint	User Name	Friendly Name	Register	Gateway Name
Phone-Fax1	3364	MX-4102	Enable	default
Phone-Fax2	3365	MX-4102	Enable	default

Unit Registration		
Index	User Name	Gateway Name

Submit Submit & Refresh Registration

Click Edit to get to the web page for entering the authentication data for the endpoint. Validate Realm SHOULD be left "disabled"

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System Network POTS SIP Telephony Call Router Managem

Gateways Servers Registrations Endpoints Authentication Transport Interop Misc

➤ Authentication

Priority	Apply To	Endpoint	Gateway	Validate Realm	Realm	User Name	Actions
1	Endpoint	Phone-Fax1		Disable		SIP-3364	Edit
2	Endpoint	Phone-Fax2		Disable		SIP-3365	Edit
3	Unit			Enable			Edit
4	Unit			Enable			Edit
5	Unit			Enable			Edit
6	Unit			Enable			Edit
7	Unit			Enable			Edit
8	Unit			Enable			Edit

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System Network POTS SIP Telephony Call Router Managem

Gateways Servers Registrations Endpoints Authentication Transport Interop Misc

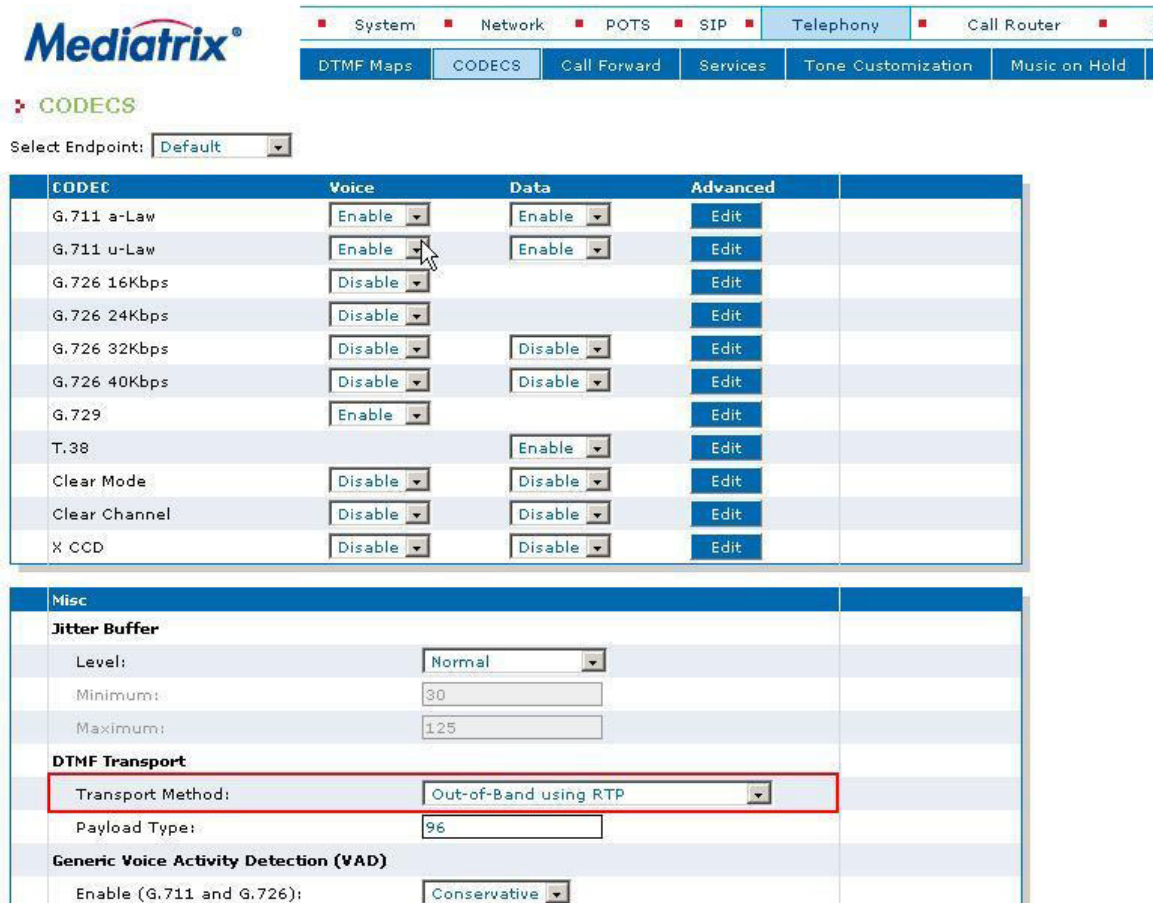
➤ Authentication

Priority	Apply To	Endpoint	Gateway	Validate Realm	Realm	User Name	Password
1	Endpoint	Phone-Fax1		Disable		SIP-3364	*****

Cancel Submit Submit & Refresh Registration

Telephony - CODECS

To enable DTMF transmission the DTMF Transport MUST be set to Out-of-Band using RTP



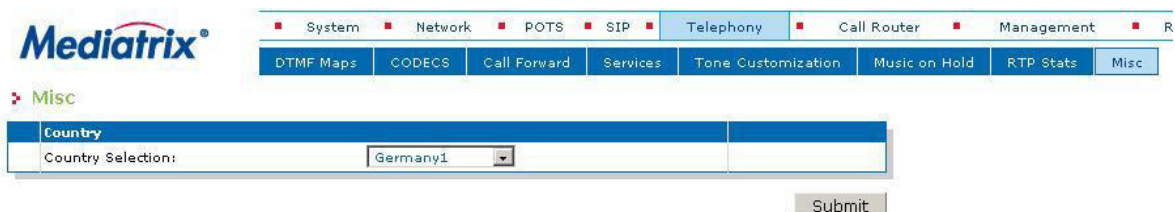
The screenshot shows the Mediatrix web interface for configuring CODECS. The top navigation bar includes System, Network, POTS, SIP, Telephony, and Call Router. The left sidebar has DTMF Maps, CODECS, Call Forward, Services, Tone Customization, and Music on Hold. The main content area is titled 'CODECS' and shows a 'Select Endpoint:' dropdown set to 'Default'. Below this is a table with columns: CODEC, Voice, Data, and Advanced. The table lists various codecs and their status. A red box highlights the 'DTMF Transport' section, which includes a 'Transport Method:' dropdown set to 'Out-of-Band using RTP' and a 'Payload Type:' input field set to '96'. Below this is the 'Generic Voice Activity Detection (VAD)' section with an 'Enable (G.711 and G.726):' dropdown set to 'Conservative'.

CODEC	Voice	Data	Advanced
G.711 a-Law	Enable	Enable	Edit
G.711 u-Law	Enable	Enable	Edit
G.726 16Kbps	Disable		Edit
G.726 24Kbps	Disable		Edit
G.726 32Kbps	Disable	Disable	Edit
G.726 40Kbps	Disable	Disable	Edit
G.729	Enable		Edit
T.38		Enable	Edit
Clear Mode	Disable	Disable	Edit
Clear Channel	Disable	Disable	Edit
X CCD	Disable	Disable	Edit

Misc	
Jitter Buffer	
Level:	Normal
Minimum:	30
Maximum:	125
DTMF Transport	
Transport Method:	Out-of-Band using RTP
Payload Type:	96
Generic Voice Activity Detection (VAD)	
Enable (G.711 and G.726):	Conservative

Telephony - Misc

This selection is important for local tones



The screenshot shows the Mediatrix web interface for configuring Misc settings. The top navigation bar includes System, Network, POTS, SIP, Telephony, Call Router, Management, and RTP. The left sidebar has DTMF Maps, CODECS, Call Forward, Services, Tone Customization, Music on Hold, RTP Stats, and Misc. The main content area is titled 'Misc' and shows a 'Country Selection:' dropdown set to 'Germany1'. A 'Submit' button is located at the bottom right.

Country
Country Selection: Germany1

Submit

1.1.2 Hold/Retrieve/Alternate

Hold/Retrieve is supported by the device and controlled with "Hook-Flash". No configuration is necessary to active the feature. The feature can be deactivated through the Telephony-Services menu page.

Alternate is NOT possible if Conference (see Local phone features) is enabled. If Alternate/Toggle should be used the local Conference feature must be disabled

1.1.3 Transfer

Attended- and Blind Transfer are supported by the device, no configuration is necessary. The features can be deactivated through the Telephony-Services menu page.

1.1.4 CLIP/CLIR/CNIP - Name and Number presentation

This depends on the connected phone; the adapter itself provides configurable CLIP.

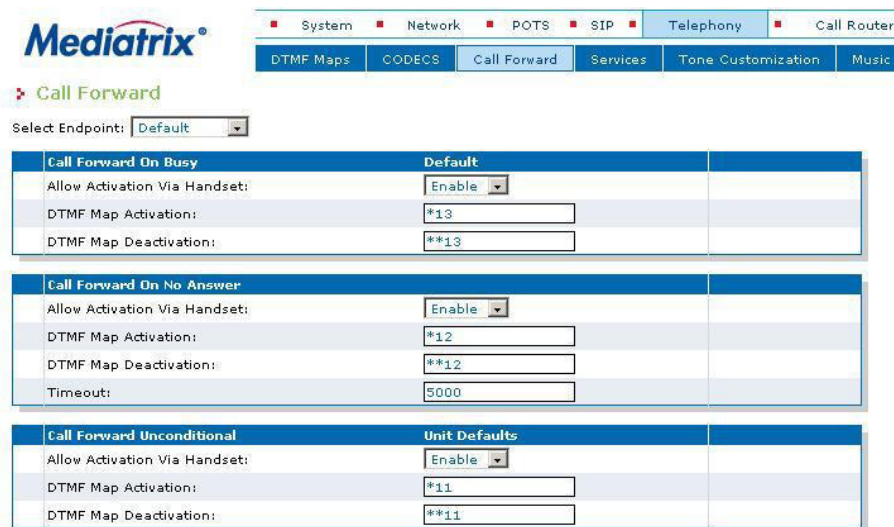
1.1.5 Call Waiting / Call offer

Supported by the device, no configuration is necessary. The feature can be deactivated through the Telephony-Services menu page.

1.1.6 Call Forwarding

CFU, CFB and CFNR are supported by the device.

For each kind of CF an activation/deactivation string has to be defined. When defining these strings please take care of the predefined "DTMF Maps".



Mediatrix®		System	Network	POTS	SIP	Telephony	Call Router
		DTMF Maps	CODECS	Call Forward	Services	Tone Customization	Music
Call Forward							
Select Endpoint: Default							
Call Forward On Busy				Default			
Allow Activation Via Handset:				Enable			
DTMF Map Activation:				*13			
DTMF Map Deactivation:				**13			
Call Forward On No Answer							
Allow Activation Via Handset:				Enable			
DTMF Map Activation:				*12			
DTMF Map Deactivation:				**12			
Timeout:				5000			
Call Forward Unconditional				Unit Defaults			
Allow Activation Via Handset:				Enable			
DTMF Map Activation:				*11			
DTMF Map Deactivation:				**11			

1.1.7 Message Waiting

Not supported.

1.1.8 Distinctive Ringing

Not supported

1.1.9 Local phone features

- Conference

Mediatrix 4102 offers a local 3 party conference. Active and held call can be connected to a 3 way conference by pressing the Flash-key. (Hook-Flash)

The feature can be deactivated by administration. If Conference is enabled, the feature Alternate/Toggle is disabled.

About Unify

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