



OpenScape Office V3

Tutorial

SIP endpoint configuration – Mediatrix Gateways

Version 1.0

2012-02-21

1 Mediatrix gateways

1.1 Mediatrix 4102S



For information see the Mediatrix homepage:

<http://www.media5corp.com/voip-access-points/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**

The screenshot shows the Mediatrix web interface with the following sections:

- Navigation Bar:** System, Network, POTS, SIP, Telephony, Call Router, Management, Reboot.
- Sub-Menu:** Status, Host, Interfaces, VLAN, QoS, Local Firewall, IP Routing, Network Firewall, NAT, DHCP Server.
- Status Section:**
 - Interfaces Status Table:**

Interface	Link	IP Address	Default Router	Status
Rescue	wan	192.168.138.196/24	192.168.138.249	Active
 - Host Status Configuration:**
 - General Configuration:** Automatic Configuration Interface: Uplink
 - Host Name Configuration:** Host Name: (empty), 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 Section:**

Scope	#	Source Address	Source Port	Destination Address	Destination Port	Protocol	Connection State	Action
No rule currently applied in the Firewall								
- Ethernet Ports Status Table:**

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

Mediatrix

System Network POTS SIP Telephony Call Router

Gateways Servers Registrations Endpoints Authentication Transport

Gateways

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 Office IP address for Registrar and Proxy

Mediatrix

System Network POTS SIP Telephony Call Router

Gateways Servers Registrations Endpoints Authentication Transport

Servers

SIP Default Servers		
Registrar Host:	192.168.138.70:5060	
Proxy Host:	192.168.138.70:5060	
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

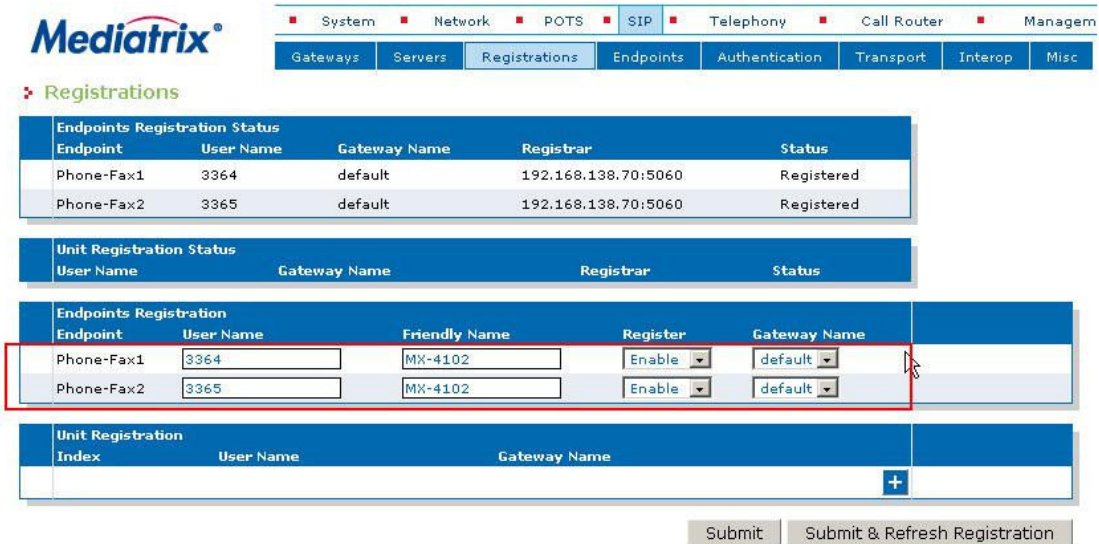
Account settings:

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

SIP Endpoint configuration hints

User Name	SIP User ID / Username
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Enter UserName and Friendly name, select enable for Register and assign the Gateway



The screenshot shows the Mediatrix SIP configuration interface. The 'Registrations' tab is active. It displays two tables: 'Endpoints Registration Status' and 'Unit Registration Status'. Below these is a form for editing endpoint registrations. The form has columns for Endpoint, User Name, Friendly Name, Register, and Gateway Name. Two rows are visible: 'Phone-Fax1' with User Name '3364' and Friendly Name 'MX-4102', and 'Phone-Fax2' with User Name '3365' and Friendly Name 'MX-4102'. Both 'Register' dropdowns are set to 'Enable' and 'Gateway Name' is set to 'default'. At the bottom are 'Submit' and 'Submit & Refresh Registration' buttons.

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

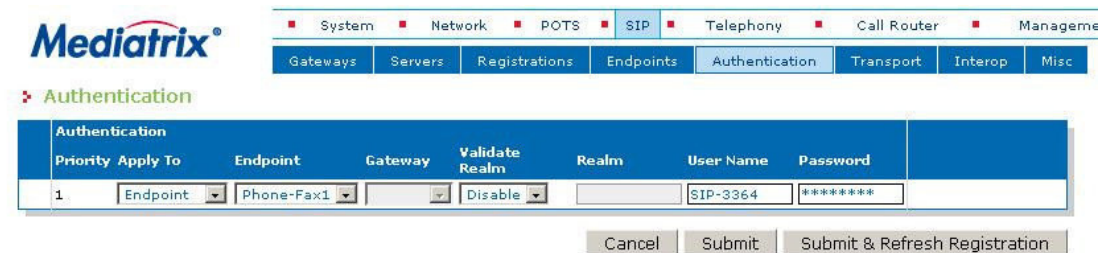
Endpoint	User Name	Friendly Name	Register	Gateway Name
Phone-Fax1	<input type="text" value="3364"/>	<input type="text" value="MX-4102"/>	Enable	default
Phone-Fax2	<input type="text" value="3365"/>	<input type="text" value="MX-4102"/>	Enable	default

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



The screenshot shows the Mediatrix SIP configuration interface with the 'Authentication' tab active. It displays a table with columns: Priority, Apply To, Endpoint, Gateway, Validate Realm, Realm, User Name, and Actions. There are 8 rows. The first two rows correspond to 'Phone-Fax1' and 'Phone-Fax2'. The 'Validate Realm' column is set to 'Disable' for both. The 'User Name' column shows 'SIP-3364' and 'SIP-3365' respectively. The 'Actions' column contains 'Edit', up/down arrows, and plus/minus signs. A mouse cursor is hovering over the 'Edit' button for the second row.

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 ↑ ↓ + -



The screenshot shows the Mediatrix SIP configuration interface with the 'Authentication' tab active. It displays a form for editing authentication data. The form has columns: Priority, Apply To, Endpoint, Gateway, Validate Realm, Realm, User Name, and Password. The first row is filled with: Priority '1', Apply To 'Endpoint', Endpoint 'Phone-Fax1', Gateway (empty), Validate Realm 'Disable', Realm (empty), User Name 'SIP-3364', and Password '*****'. At the bottom are 'Cancel', 'Submit', and 'Submit & Refresh Registration' buttons.

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

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 'DTMF Transport' section is highlighted with a red box, indicating the 'Transport Method' is set to 'Out-of-Band using RTP'.

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 'Country Selection' dropdown is set to 'Germany1'.

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".

System	Network	POTS	SIP	Telephony	Call Router
DTMF Maps	CODECS	Call Forward	Services	Tone Customization	Music

Call Forward

Select Endpoint:

Call Forward On Busy	Default	
Allow Activation Via Handset:	<input type="text" value="Enable"/>	
DTMF Map Activation:	<input type="text" value="*13"/>	
DTMF Map Deactivation:	<input type="text" value="**13"/>	

Call Forward On No Answer		
Allow Activation Via Handset:	<input type="text" value="Enable"/>	
DTMF Map Activation:	<input type="text" value="*12"/>	
DTMF Map Deactivation:	<input type="text" value="**12"/>	
Timeout:	<input type="text" value="5000"/>	

Call Forward Unconditional	Unit Defaults	
Allow Activation Via Handset:	<input type="text" value="Enable"/>	
DTMF Map Activation:	<input type="text" value="*11"/>	
DTMF Map Deactivation:	<input type="text" value="**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.

1.1.10 Known limitations and restrictions

About Unify

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