

INTERACTIVE INTELLIGENCE[®]
Deliberately Innovative

3rd Party Certified Equipment Supplemental Information

Certification Completed On:
9/3/2013

DGW 2.0.20.301 - Mediatix 3000 Series FXS/FXO



1 Important Notes

- Check the *SIP 3rd Party Validation Website* for current validation status. The *SIP 3rd Party Validation Website* can be viewed at:
<http://testlab.inin.com>
- The default behavior of the Mediatix 3000 is to try to obtain a dynamic IP address through a DHCP server. If properly configured, once connectivity has been established, a reserved WAN IP address associated with a particular unit would already be known.
- If you have not reserved a WAN IP address, you can discover which WAN IP address has been assigned to the Mediatix 3000 by either:
 - Obtaining the IP address of the Mediatix 3000 by consulting your DHCP server's logs to find out details on the DHCP lease that was given to the Mediatix 3000.
 - Using a network packet sniffer (e.g., Wireshark) examine the DHCP messages exchanged between the Mediatix 3000 and your DHCP server while the Mediatix 3000 boots up.
- As this unit is a critical piece of the SIP infrastructure, it is highly recommended that DHCP not be used. A static IP address is the preferred method and is how the unit was configured during validation.
- While this device supports IPv6, IPv4 was used in the certification tests.

2 Vendor Documentation

http://testlab.inin.com/compatibilityfiles_external/documents/MTX_3000-Installation.pdf

3 Validated Firmware Version

Dgw 2.0.20.301 - Contact your Mediatrix vendor for firmware files.

4 Install

Download the Mediatrix 3000 files from the Interactive Intelligence Testlab website:

<http://testlab.inin.com/ProductsPage.aspx?ProductType=2>

The downloads will include the Vendor Documentation and the Install and Configuration Guide

5 Gateway Configuration

Methods:

- Web interface. There are many advanced options that are exposed in the web interface. Caution should be exercised and the Mediatrix documentation should always be referenced when using the web interface configuration option.
- TFTP

Initial Setup:

- Follow the Mediatrix instructions for getting an IP address assigned to the device.
- Default Credentials can be found in the vendor documentation, it is recommended to change the password at this time for security reasons.
- In Interaction Administrator, the line that is configured for the gateway should have "Terminate Analysis on Connect" checked.

Download Current Firmware:

- Contact your Mediatrix Vendor for Firmware and Firmware Upgrade Instructions

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5.1 SIP Gateway Configuration

- Go to **SIP > Gateways**
- Enter a name in the Name field and press the “+” button to add it to the Gateway Configuration.
- In the Port field type **5060** and in Secure Port field type **5061**.
- Click **Submit**

Gateway Status						
Name	Signaling Network	Media Networks	Port	Secure Port	State	
Test1	Uplink	Uplink	5060	5061	Ready	

Gateway Configuration						
Name	Signaling Network	Media Networks	Media Networks Suggestion	Port	Secure Port	
<input type="text" value="Test1"/>	Uplink <input type="button" value="v"/>	<input type="text"/>	--- Suggestion --- <input type="button" value="v"/>	<input type="text" value="5060"/>	<input type="text" value="5061"/>	<input type="button" value="-"/>
<input type="text"/>						<input type="button" value="+"/>

5.2 SIP Servers Configuration

- Go to **SIP > Servers**



■ System ■ Network ■ ISDN ■ **SIP** ■ Me

Gateways **Servers** Registrations Endpoints

- Input the IP address of the Registrar Host.
- Input the IP address of the Proxy Host.
- Remove default IP address in Messaging Server Host.
- Click **Submit** to save changes.

✚ Servers

SIP Default Servers	
Registrar Host:	<input type="text" value="10.10.3.157"/>
Proxy Host:	<input type="text" value="10.10.3.157"/>
Messaging Server Host:	<input type="text"/>
Outbound Proxy Host:	<input type="text"/>

SIP Gateway Specific Registrar Servers		
Gateway Name	Gateway Specific	Registrar Host
default	<input type="text" value="No"/>	<input type="text" value="192.168.0.10:0"/>

SIP Gateway Specific Messaging Servers		
Gateway Name	Gateway Specific	Messaging Server Host
default	<input type="text" value="No"/>	<input type="text" value="192.168.10.10:0"/>

SIP Gateway Specific Proxy Servers			
Gateway Name	Gateway Specific	Proxy Host	Outbound Proxy Host
default	<input type="text" value="No"/>	<input type="text" value="192.168.0.10:0"/>	<input type="text" value="0.0.0.0:0"/>

Submit

- Go to **Transport**



System Network ISDN SIP Media Telephony Call Router

Gateways Servers Registrations Endpoints Authentication **Transport** Int

- Under UDP in Protocol Configuration change the drop down to **Enable**.
- Click **Submit** to save changes.
(If using TCP, change UDP to **Disable** and TCP to **Enable**)

» **Transport**

General Configuration	
Add SIP Transport in Registration:	Enable
Add SIP Transport in Contact Header:	Disable
Persistent TLS Base Port:	16000
Persistent TLS Retry Interval:	15
TLS Certificate Trust Level:	Locally Trusted
TCP Connect Timeout:	1

Protocol Configuration					
UDP	UDP QValue	TCP	TCP QValue	TLS	TLS QValue
Enable		Disable		Disable	

Submit

5.3 Mapping Type Configuration

- Go to **Call Router > Route Config**
- Press the "+" button in Mapping Type.
- Enter the name of the mapping type in the Name field.
- Change the Criteria to Called SIP Username.
- Change the Transformation to E164.
- Press **Submit**.

System Network POTS SIP Media Telephony **Call Router**

Status **Route Config** Auto-routing

» **Mapping Type**

Configure Mapping Type 1	
	Value
Name	TestMap
Criteria	Called SIP Username
Transformation	E164
Config Status	

Submit Submit And Insert Expression

- Go to **Call Router > Auto-routing**
- Set the Criteria Type to **E164**.
- Press **Submit**.

➤ **Auto-routing**

Auto-routing:	<input type="text" value="Enable"/>	<input type="button" value="Suggestion"/>
Criteria Type:	<input type="text" value="E164"/>	<input type="button" value="Suggestion"/>
Incoming Mappings	<input type="text"/>	<input type="button" value="Suggestion"/>
Outgoing Mappings	<input type="text"/>	<input type="button" value="Suggestion"/>
Incoming Signaling Properties	<input type="text"/>	<input type="button" value="Suggestion"/>
Outgoing Signaling Properties	<input type="text"/>	<input type="button" value="Suggestion"/>

- In Endpoints auto-routing press **Edit** on the Slot2/FXO Endpoint.
- In the Auto-routing Destination specify the Hunt Map created in [5.6 Hunt Map Configuration](#).
- Press **Submit**.

➤ **Auto-routing**

Configure Auto-Routing	
Auto-routable	<input type="text" value="H/W Dependent"/>
Auto-routing Gateway	<input type="text" value="default"/> <input type="button" value="Suggestion"/>
Auto-routing Destination	<input type="text" value="hunt-HuntTest"/> <input type="button" value="Suggestion"/>

Apply To The Following Endpoints				<input type="button" value="Check All"/>	<input type="button" value="Uncheck All"/>
<input checked="" type="checkbox"/> Slot2/FXO	<input type="checkbox"/> Slot2/FXS1	<input type="checkbox"/> Slot2/FXS2	<input type="checkbox"/> Slot2/FXS3	<input type="checkbox"/> Slot2/FXS4	<input type="checkbox"/> Slot2/FXS5
<input type="checkbox"/> Slot2/FXS6	<input type="checkbox"/> Slot2/FXS7	<input type="checkbox"/> Slot3/FXO	<input type="checkbox"/> Slot3/FXS1	<input type="checkbox"/> Slot3/FXS2	<input type="checkbox"/> Slot3/FXS3
<input type="checkbox"/> Slot3/FXS4	<input type="checkbox"/> Slot3/FXS5	<input type="checkbox"/> Slot3/FXS6	<input type="checkbox"/> Slot3/FXS7		

5.4 Mapping Expression Configuration

- Go to **Call Router > Route Config**
- Press the “+” button in Mapping Expression.
- Select the name of the mapping type created in [5.3 Mapping Type Configuration](#).
- Enter the expression to compare with the call and select the correct mapping in the Criteria field.
- Enter the transformation to apply in the Transformation field.

- Press **Submit**.

➤ Mapping Expression

Configure Mapping Expression 1		
	Value	Suggestion
Type	Called SIP Username to E164	
Name	TestMap	--- Suggestion --- ▾
Criteria	,+	--- Suggestion --- ▾
Transformation	\1	--- Suggestion --- ▾

5.5 Signal Properties Configuration

- Go to **Call Router > Route Config**
- Press the “+” button in Signaling Properties.
- Enter the name of the signaling property in the Name field.
- **Enable** Allow 180 with SDP.
- **Enable** Allow 183 without SDP.
- Press **Submit**.

✦ Signaling Properties

Configure Signaling Properties 1		
	Value	Suggestion
Name	Signal Properties Test	
Early Connect	Disable	
Early Disconnect	Disable	
Destination Host		--- Suggestion ---
Allow 180 with SDP	Enable	
Allow 183 without SDP	Enable	
Privacy	Disable	
SIP Headers Translations		--- Suggestion ---
Call Properties Translations		--- Suggestion ---
Config Status		

5.6 Hunt Map Configuration

- Go to **Call Router > Route Config**
- Press the “+” button in Hunt.
- Enter the name of the hunt in the Name field.
- In Destinations specify the desired SIP gateway.
- Press **Submit**.

• Hunt

Configure Hunt 1		
	Value	Suggestion
Name	HuntTest	
Destinations	sip-Test1	--- Suggestion ---
Selection Algorithm	Sequential	
Timeout (seconds)	0	
Causes	31, 34, 38, 41, 42, 43, 44, 47	--- Suggestion ---

5.7 FXO Configuration

(Refer to vendor documentation for configuring FXO gateway-specific parameters)

- Go to **Call Router > Route Config**



- Press the "+" button in Route.
- In Sources specify the desired SIP gateway.
- In Destination specify the desired FXO slot endpoint.
- Press **Submit**.

Configure Route 3		
	Value	Suggestion
Sources	<input type="text" value="sip-Test1"/>	<input type="text" value="--- Suggestion ---"/>
Properties Criteria	<input type="text" value="None"/>	
Expression Criteria	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Mappings	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Signaling Properties	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Destination	<input type="text" value="fxo-Slot2/FXO"/>	<input type="text" value="--- Suggestion ---"/>

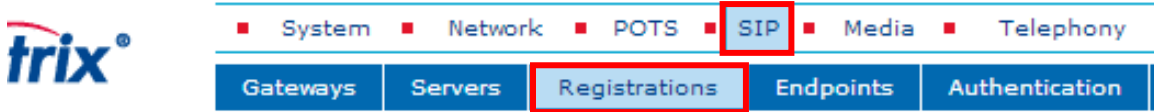
- Press the "+" button in Route.
- In Sources specify the desired FXO slot endpoint.
- In Signaling Properties select the desired call signal property created in [5.5 Signal Properties Configuration](#).
- In Destination specify the desired SIP gateway endpoint.
- Press **Submit**.

Configure Route 4		
	Value	Suggestion
Sources	<input type="text" value="fxo-Slot2/FXO"/>	<input type="text" value="--- Suggestion ---"/>
Properties Criteria	<input type="text" value="None"/>	
Expression Criteria	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Mappings	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Signaling Properties	<input type="text" value="Signal Properties Test"/>	<input type="text" value="--- Suggestion ---"/>
Destination	<input type="text" value="sip-Test1"/>	<input type="text" value="--- Suggestion ---"/>

5.8 FXS Configuration

(Refer to vendor documentation for configuring FXS endpoint behavior)

- Go to **SIP > Registrations**



ons

- In Endpoint Registration specify a User Name and Friendly Name.
- Enable** Register.
- Press the "+" button in Unit Registration.
- A new line will appear. Enter the desired User Name and specify the Gateway Name.

Endpoints Registration					
Endpoint	User Name	Friendly Name	Register	Messaging	Gateway Name
Slot2/FXO			Disable	Disable	all
Slot2/FXS1	4003	4003	Enable	Disable	all
Slot2/FXS2			Disable	Disable	all
Slot2/FXS3			Disable	Disable	all
Slot2/FXS4			Disable	Disable	all
Slot2/FXS5			Disable	Disable	all
Slot2/FXS6			Disable	Disable	all
Slot2/FXS7			Disable	Disable	all
Slot3/FXO			Disable	Disable	all
Slot3/FXS1			Disable	Disable	all
Slot3/FXS2			Disable	Disable	all
Slot3/FXS3			Disable	Disable	all
Slot3/FXS4			Disable	Disable	all
Slot3/FXS5			Disable	Disable	all
Slot3/FXS6			Disable	Disable	all
Slot3/FXS7			Disable	Disable	all

Unit Registration			
Index	User Name	Gateway Name	
1	4003	Test1	-
			+

- Go to **Authentication**.
- Press the **"Edit"** button in Authentication.
- In Apply To select **Endpoint**.
- Select the desired Endpoint.
- **Disable** Validate Realm.
- **Submit** Changes.



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➤ Authentication

Authentication							
Priority	Apply To	Endpoint	Gateway	Validate Realm	Realm	User Name	Passw
1	Endpoint	Slot2/FXS1		Disable			

- Go to **Call Router > Route Config**
- Press the **"+"** button in Route.
- In Sources specify the desired SIP gateway.
- In Properties Criteria dropdown select **Called SIP Username**.
- In Expression Criteria specify the Endpoint Username.
- In Destination specify the FXS endpoint slot.
- Press **Submit**.

➤ Route

Configure Route 1		
	Value	Suggestion
Sources	sip-Test1	--- Suggestion ---
Properties Criteria	Called SIP Username	
Expression Criteria	4003	--- Suggestion ---
Mappings		--- Suggestion ---
Signaling Properties		--- Suggestion ---
Destination	fxs-Slot2/FXS1	--- Suggestion ---
Config Status		

- Press the “+” button in Route.
- In Sources specify the desired FXS slot endpoint.
- In Destination specify the desired SIP gateway.
- Press **Submit**.

➤ Route

Configure Route 2		
	Value	Suggestion
Sources	<input type="text" value="fxs-Slot2/FXS1"/>	<input type="text" value="--- Suggestion ---"/>
Properties Criteria	<input type="text" value="None"/>	
Expression Criteria	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Mappings	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Signaling Properties	<input type="text"/>	<input type="text" value="--- Suggestion ---"/>
Destination	<input type="text" value="sip-Test1"/>	<input type="text" value="--- Suggestion ---"/>
Config Status		

- Press **Apply** to apply changes

Algorithm	Timeout (seconds)	Causes	Actions
<input type="button" value="+"/>			
<input type="button" value="Apply"/> <input type="button" value="Rollback"/>			

5.9 System Reboot

- Go to **Reboot**

Media	■	Telephony	■	Call Router	■	Management	■	<input type="button" value="Reboot"/>
-------	---	-----------	---	-------------	---	------------	---	---------------------------------------

- If prompted, click **Reboot** to restart the unit and apply new configuration settings. (Refer to picture below)

Some changes require to restart the unit to apply new configuration.

➤ Reboot

Current Status
Please click on the Reboot button to reboot the device.
Warning: Your web session will be lost and you will be redirected to the login page after the reboot process.
<input type="button" value="Reboot"/>

6 Redundant Proxy Configuration

- Go to **SIP > Misc**

System Network POTS **SIP** Media Telephony Call Router Managem

Gateways Servers Registrations Endpoints Authentication Transport Interop **Misc**

- Change Keep Alive Method under Keep Alive to **SIP Options**, change "Supported DNS Queries" under DNS to **SRV**.

Keep Alive	
Keep Alive Method:	SIP OPTIONS ▼
Keep Alive Interval (s):	30

PRACK	
UAS PRACK Support (RFC 3262):	Unsupported ▼
UAC PRACK Support (RFC 3262):	Unsupported ▼

Session Refresh	
Session Refresh Timer Enable:	Enable ▼
Minimum Expiration Delay (s):	1800
Maximum Expiration Delay (s):	3600
Session Refresh Request Method:	ReInvite ▼

Gateway Configuration	
Gateway Name	SIP Domain Override
default	

Diversion	
Gateway Name	Method
default	None ▼

DNS	
Supported DNS Queries:	SRV ▼

Event Handling		
Gateway Name	Reboot	CheckSync
default	Rejected ▼	Rejected ▼

Submit

- Click Submit to save changes.

- Go to **SIP > Servers**



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➤ Servers

SIP Default Servers

- In Registrar Host type the SRV Record Name.
- In Proxy Host type the SRV Record Name.
- Click **Submit** to save changes.

➤ Servers

SIP Default Servers		
Registrar Host:	<input type="text" value="SRVRecordName.Domain.com"/>	
Proxy Host:	<input type="text" value="SRVRecordName.Domain.com"/>	
Messaging Server Host:	<input type="text"/>	
Outbound Proxy Host:	<input type="text"/>	

SIP Gateway Specific Registrar Servers		
Gateway Name	Gateway Specific	Registrar Host
default	No	<input type="text" value="192.168.0.10:0"/>

SIP Gateway Specific Messaging Servers		
Gateway Name	Gateway Specific	Messaging Server Host
default	No	<input type="text" value="192.168.10.10:0"/>

SIP Gateway Specific Proxy Servers			
Gateway Name	Gateway Specific	Proxy Host	Outbound Proxy Host
default	No	<input type="text" value="192.168.0.10:0"/>	<input type="text" value="0.0.0.0:0"/>

- Repeat [5.8 System Reboot](#) to Reboot and confirm that changes take effect.