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# 🕅 Mitel

# Mitel Technical Configuration Notes -ANXXXXX

MT AppNote xxxxx (AN xxxxx) rev. 2018-12-12

# Configure MiVoice Office 250 6.3 SP1 with MBG for use with TelNet Worldwide SIP trunk services

#### **Description**:

This technical configuration note describes configuring MiVoice Office 250 6.3 SP1 with MBG for use with TelNet Worldwide SIP trunk services.

#### **Environment:**

MiVoice Office 250 6.3 SP1 (6.3.7.58), MiVoice Border Gateway 10.1.0.244, Mitel 69xx Phone 5.1.0.227 and Mitel 68XX Phone 5.1.0.227



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# Overview

This document provides a reference to Mitel Authorized Solutions providers for configuring the MiVoice Office 250 to connect to TelNet Worldwide. The different devices can be configured in various configurations depending on your VoIP solution. This document covers a basic setup with required option setup.

# **Interop History**

Version	Date	Reason
1	November, 2018	Initial interop with TelNet Worldwide and MiVoice Office 250 6.3 SP1 and MBG.

# **Interop Status**

The Interop of TelNet Worldwide has been given a Certification status. This service provider or trunking device will be included in the SIP CoE Reference Guide. The status TelNet Worldwide achieved is:

COMPATIBLE	The most common certification which means TelNet Worldwide has been tested and/or validated by the Mitel SIP CoE team. Product support will provide all necessary support related to the interop, but issues unique or specific to the 3rd party will be referred to the 3rd party as appropriate.
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# Software & Hardware Setup

This was the test setup to generate a basic SIP call between TelNet Worldwide and the MiVoice Office 250.

Manufacturer	Variant	Software Version
Mitel	MiVoice Office 250	6.3 SP1 (6.3.7.58)
Mitel	5320e IP Sets	Minet (06.05.00.11)
Mitel	69XX and 68XX SIP Phones	5.1.0.227
Mitel	MiVoice Border Gateway	10.1.0.244
BroadSoft	Broadworks	V20SP1
Oracle SBC	NetNet 4500	7.2.0 MR-6 Patch 9

# **Tested Features**

This is an overview of the features tested during the Interop test cycle and not a detailed view of the test cases. Please see the SIP Trunk Side Interoperability Test Plans (000506) for detailed test cases.

Feature	Feature Description	Issues
Basic Call	Making and receiving a call through TelNet Worldwide and their PSTN gateway, call holding, transferring, conferencing, busy calls, long call durations, various codecs.	Ń
Automatic Call Distribution	Making calls to an ACD environment with Call Routing Announcements, Interflow and Overflow call scenarios and DTMF detection.	V
Packetization	Forcing the MiVoice Office 250 to stream RTP packets through its Processor Expansion card at different intervals including 20ms and 30ms.	Í
Dynamic Extension Express	Receiving calls through TelNet Worldwide and their PSTN gateway to a DEE. Also moving calls to/from the prime member and group members.	V
Fax	T.38 and G.711 Fax calls.	
E.164 calling	Make calls using E.164 format	1
Teleworker	Making and receiving a call Service Provider TelNet Worldwide and their PSTN gateway to and from Teleworker extensions.	Í
🗹 - No i	issues found X - Issues found, cannot recommend using 🛆	- Issues found

# **Device Limitations and Known Issues**

This is a list of problems or not supported features when TelNet Worldwide is connected to the MiVoice Office 250.

Feature	Problem Description
Codec G722/G722.1	TelNet Worldwide does not support wideband G722/G722.1 Codec.
	information.
TLS	TelNet Worldwide does not support TLS
	<b>Recommendation:</b> Contact TelNet Worldwide for more information.
Video Calls	TelNet Worldwide does not support video calls.
	<b>Recommendation:</b> Contact TelNet Worldwide for more information.
DTMF (INFO)	DTMF via SIP INFO is not Supported by TelNet Worldwide
	<b>Recommendation</b> : Contact TelNet Worldwide for more information.
Session Timer	Session timer is not supported by MiVoice Office 250.No
	Recommendation: Contact Mitel for more information
PSTN	Unsupervised Transfer Is Failing to the PSTN Number on MiVoice Office 250 (DPAR ID <b>MN00673871</b> ).
	<b>Recommendation</b> : Contact Mitel for more information.

# **Network Topology**

This diagram shows how the testing network is configured for reference.



#### Figure 1 – Network Topology

# **Configuration Notes**

This section is a description of how the SIP Interop was configured. These notes should give a guideline of how a device can be configured in a customer environment and how TelNet Worldwide and MiVoice Office 250 programming was configured in our test environment.

Disclaimer: Although Mitel has attempted to setup the interop testing facility as closely as possible to a customer premise environment, implementation setup could be different onsite. YOU MUST EXERCISE YOUR OWN DUE DILIGENCE IN REVIEWING, planning, implementing, and testing a customer configuration.

### **MiVoice Office 250 Configuration Notes**

The following steps show how to program a MiVoice Office 250 to interconnect with TelNet Worldwide using MBG

### Network Requirements

• There must be adequate bandwidth to support the voice over IP. As a guide, the Ethernet bandwidth is approx 85 Kb/s per G.711 voice session and 29 Kb/s per G.729 voice session (assumes 20ms packetization). As an example, for 20 simultaneous SIP sessions, the Ethernet bandwidth consumption will be approx 1.7 Mb/s for G.711 and 0.6Mb/s. Almost all

Enterprise LAN networks can support this level of traffic without any special engineering. Please refer to the MiVO250 Engineering guidelines for further information.

• For high quality voice, the network connectivity must support a voice-quality grade of service (packet loss <1%, jitter < 30ms, one-way delay < 80ms).

## Assumptions for the MiVoice Office 250 Programming

• The SIP signaling connection uses UDP on Port 5060

## Licensing and Option Selection – SIP Licensing

Ensure that the MiVoice Office 250 is equipped with enough SIP trunking licenses for the connection to TelNet Worldwide. This can be verified under the Software License form.

192.168.010.164 - MiVoice Office 250 DB Programming										
File View Operations Tools Favorites Help										
C D D Recent ▼ D MiVoice Office 250 > Software License										
MiVoice Office 250	Software License Feature	Value								
Maintenance Accounts	💯 System Type	MiVoice Office 250								
Software License	ACD Hunt Group	Yes								
	Additional T1/E1/PRI Ports	0								
Osers     Osers     Osers	💯 Agent Help	Yes								
	💯 Analog Voice Mail Hunt Group	No								
	💯 Category 'A' Phones	50								
	💯 Category 'B' Phones	0								
	🖓 Category 'C' Phones	100								
	Category 'D' Phones	100								
	💯 Category 'E' Phones	132								
	💯 Category 'F' Phones	100								
	Ø Desktop Interface	No								
	Ø Dynamic Extension Express	Yes								
	File-Based MOH Sources	50								
	Hot Desking	Yes								
	IP Networking	6								
	Ø Meet-Me Conferencing	Yes								
	Remote ACD Hunt Groups	No								
	🖓 SIP Trunks	100								
	<sup>™</sup> SIP Voice Mail Ports	5								
	System OAI Events	Yes								
	System OAI Third Party Call Control	No								
	Virtualized PS-1 Support	Yes								
	Voice Processor Messaging Networking	No								
	Unified Voice Messaging Ports	4								
	🖉 Unified Voice Messaging Blackberry® Integration	No								
	Unified Voice Messaging E-mail Synchronization	Yes								
	🖏 User Web Portal	Yes								

Figure 2 – Software License

## Creating and Configuring a SIP Peer Trunk Group

To support SIP trunks through a SIP trunk service provider, you will need to create a SIP trunk group.

To create a SIP trunk group for TelNet Worldwide, right click in the right-hand window panel of the SIP Trunk Groups form and then select "Create SIP Trunk Group".



Figure 3 – SIP Trunk Group

### Program the Configuration folder as described below:

- **Registration**: If the SIP peer does not require registration, the fields in this folder do not need to be configured. The Enable Registration option is set to No by default and the remaining fields appear with a red "X."
- Authentication:
  - *Username*: This field applies only if the SIP peer requires registration or call authentication.
  - *Password*: This field applies only if the SIP peer requires registration or call authentication.

Note: TelNet Worldwide does not support SIP trunk registration or call-by-call authentication.

• **Keep-Alive**: The Keep-Alive option keeps refreshing the NAT bindings for any Firewall/NAT in the path. It also helps in determining whether the SIP peer is reachable or not.

- **NAT Settings**: Specifies the NAT address type. The default is "No NAT or SIP-Aware NAT" (for systems that are using a SIP-aware firewall). If you are not using a SIP-aware firewall, you must change the setting to "Non-SIP-Aware NAT".
- Alternate IP/FQDN List: Some providers use multiple IP addresses to send SIP messages to the MiVoice Office 250. You must add All IP addresses or FQDNs other than the primary IP/FQDN to the list for all calls to be successful.
- Route Sets: Typically, not used in a basic configuration
- IP Address: Indicates the IP address of the TelNet Worldwide.
- **Port Number**: Indicates the port that the system listens on the system for SIP peer messages. The range is 0–65535.
- Fully Qualified Domain Name: Indicates the domain name of the SIP peer trunk group.
- **Call Configuration**: Clicking **Call Configuration** takes you to the Call Configuration folder (System\IP-Related Information\Call Configurations\*<call configuration number>*).
- **Operating State**: Indicates the operating state of the SIP peer.
- Maximum Number of Calls: Indicates the maximum number of concurrent calls that are permitted towards the SIP peer. DB Programming restricts this field based on the number of the SIP Trunks and SIP trunk licenses.
- Use ITU-T E.164 Phone Number: If set to Yes, the MiVoice Office handles ITU-T E.164 formatted phone numbers as part of the incoming SIP INVITE messages from the SIP peer.



Figure 4: Configured SIP Trunk







Figure 6: Authentication not required for TelNet Worldwide







Figure 7: Basic Configuration folder provisioning for TelNet Worldwide

### Create Route Set for MBG

Add to Route Sets List: Under SIP Peer – SIP Trunk Group – Configuration, add route set using IP address of the MBG (MiVoice Border Gateway)



Figure 8: MBG IP Address



Figure 9: MBG Route Sets for TelNet Worldwide

### Programming the Trunk Group Configuration Folder

• Call Routing Table 14 was used to associate and direct incoming calls to IP phone sets (see Figure 10)

92.168.010.164 - MiVoice Office 250 DB Programming											
File View Operations Tools Favorites Help											
😋 😳 🎓 📳 Recent 👻 🌇 MiVoice Office 250 > System > Devices and Feature Codes > SIP Peers > SIP Trunk Groups > 92005 > Trunk Group Configuration											
Second Seco	Name Trunks Multiple Ring-In Fmergency Outgoing Access	Value	Extended Value								
Phones     Phones	Toll Restriction ✓ Toll Restriction ✓ Audio for Calls Camped onto this Device ✓ Music-On-Hold	MOH port File-Based MOH	<b>∰</b> ≫ 1								
	E* Audio on Transfer to Ring E* Audio on Transfer to Hold E* Audio on Hold for Transfer Announcement E* Audio for Calls Holding for this Device	Ringback Music-On-Hold Music-On-Hold MOH port									
⊕ ∰ Configuration     ⊕ ∰ Trunk Group Configuration     ⊕ ∰ SIP Voice Mails     ⊕ ↑ Trunks	✓ Echo Trunk Number          Toy Ring-In Type          To Night Ring-In Type          Send Station Extension/Username to Attached PRX	No Call Routing Table Call Routing Table No	武) 3 武) 3								
a ◀) Echo Profiles	Calling Party Name     Calling Party Name	No									
	Force Trunk Group Calling Party Name and Number     Do Not Propagate Original Caller ID to P-Asserted-Identity     Trunk Pilot Name     Trunk Pilot Number	No No									
	<ul> <li>Use Trunk Pilot Number in P-Asserted-Identity</li> <li>Use P-Asserted-Identity Header</li> <li>Use CPN Restriction</li> <li>Use Trunk Pilot Number in Contact</li> </ul>	No Yes No No									

Figure 10: Trunk Group Configuration folder

192.168.010.164 - MiVoice Office 250 DB Programming						
File View Operations Tools Favorites Help						
😋 🚭 🎓 🔋 Recent 👻 🏭 MiVoice Office 250	+ <u>\$</u>	System + Trunk	-Related Informatio	on  → Call Routing Table	s • 3	
💮 🐠 File-Based MOH	^	Pattern	Description	Ring-In Type	Ring-In Destination	Music-On-Hold Profile
Flags		2484981136		Single	1015	NONE
Hunt-Group Related Information		2484981137		Single	🚰 1014	NONE
IP Settings						
🗈 🗄 Numbering Plan						
Phone-Related Information						
Reference Clock List						
🗃 Sockets						
🛓 🕢 Timers and Limits						
iantic Trunk-Related Information						
Call Routing Tables						
1						
<u>2</u>						

Figure 11: Call Routing Table 3

Create the SIP peer trunks as follows:

- Double-click Trunks.
- Right-click the right pane, and the select **Create SIP Peer Trunk**. The Create SIP Peer Trunk Extension dialog box appears.
- Select the extension number you want to use for the item in the Starting Extension field. The recommended range is 94000–94999;
- Indicate the number of extensions you want to create in the Number of Extensions field. If the system is set to have more than one extension, the new trunks are assigned sequentially to the next available numbers.
- Click **OK**. For the TelNet Worldwide, 7 extensions were created. The number of SIP peer trunks is restricted by the number of available SIP Trunks licenses.



Figure 12: Trunk Extensions

# **IP Call Configurations**

Call configurations define the settings that IP endpoints and gateways use when connected to calls. You can assign multiple devices to a specific call configuration.

By default, all IP devices are placed in Call Configuration 1, which is programmable. You do not need to add SIP endpoints to Call Configurations, because these devices negotiate call configurations before establishing a connection. You can program up to 25 different Call Configurations. Call Configuration 1 was used for testing.





I92.168.010.164 - MiVoice Office 250 DB Programming File View Operations Tools Favorites Help					
😋 🚭 🎓 🔋 Recent 👻 퉬 MiVoice Office 250	• 5	System → IP-R	elated Information	Call Configura	ations + 1 + Phones
Page Ports     Page Zones     Phantoms & Hot Desk Profiles     Phones     Phones	^	Extension 1002 1006 1010 9031 9032 9035	Description Vinod 1 1006 Vinod	Username Vinod 1 1006 Vinod	Type           52xx/53xx           52xx/53xx           52xx/53xx           52xx/53xx           52xx/53xx           52xx/53xx           52xx/53xx           52xx/53xx

Figure 14: Call Configuration Extensions



Figure 15: Call Configuration SIP Trunk Association



Figure 16: Basic Users



Figure 17: User Example



Figure 18: Associated Extensions Programming

# **MiVoice Border Gateway Configuration Notes**

This section explains how to configure MiVoice Border Gateway (MBG).

First you need to add the MiVoice Office 250 where MBG will forward SIP messages to and then to configure the SIP trunk.

To do this:

- Login to the MBG and click on the 'MiVoice Border Gateway' link then 'Service Configuration' drop-down menu and select 'ICPs' (see figure 19).
- On the ICP page click on the '+' symbol and add the MiVoice Office 250 to the MBG (see Figure 20 and Figure 21).

🕅 Mitel	Mitel Standard	d Linux		admin@mbg101.s	ipcoe.com Status: Critical
Annlications MiVoice Border Gateway Remote proxy services	System status -	Service configuration -	System configuration -	Administration -	
ServiceLink Blades Status	Page updated: Fri Nov 09	ICPs MiNet devices	andard Time)		
Administration Web services Backup View log files Event viewer System information System monitoring	MBG status	SIP users SIP trunking WebRTC Application integration	node	Start Courtesy down Stop Security profile WAN IPs	Legacy 115.110.136.82
System users Shutdown or reconfigure Virtualization Security	Set-side str Icp-side str	SIP adaptation Trust store	36.82 0.100 \$IP: 0, Trunk: 0	LAN IPs Third IPs Calls per hour	192.168.10.100 MiNet: 0, SIP: 6, Trunk: 0
Remote access Port forwarding Syslog Web Server MBG client certificates	Active MiNet	/SIP connections 2 MiNet support MiNet: 1 WebRTC support Disable	CP/PSK, TCP/TLS	Load average (5 min) SIP support Call recording support	0.04 Enabled: UDP, TCP, TCP/TLS Disabled

Figure 16– Adding ICP to MBG

🕅 Mitel 🛛	Mitel S	tanda	rd Linu	ıx			admin@mb <u>c</u>	101.sipcoe	e.com Si	atus:	Cri	tical
Applications MiVoice Border Gateway Remote proxy services	System	status 👻	Service	configuration -	System configuration	- Administrati	on 👻					
ServiceLink Blades Status Administration Web services Backup View log files	Page updated To test conner ICP Infor	: Wed Nov ctivity to yo mation	21 2018 18:55 ur configured l	5:52 GMT+0530 (India S CPs, or to run a DNS re	tandard Time) solution test on configured l	hostnames, see the Dia	gnostics page.					
System information System monitoring System users Shutdown or reconfigure Virtualization	Default for MiNet	Default for SIP	Name	Hostname or IP address	Туре	Installer password	SIP capabilities	Indirect call recording capable	Associated connectors			
Security Remote access	۲	•	MIVB89	192.168.10.89	MiVoice Business		UDP	×	×	1	Û	Ø
Port forwarding Syslog Web Server MBG client certificates		۲	MIVB_65	192.168.10.65	MiVoice Business		UDP TCP TLS	×	×	1	<b>1</b>	0
Configuration Networks	۲	•	MIVO250	192.168.10.164	MiVoice Office 250		UDP	×	×	1	â	Ø
Google Apps DHCP		0	MIVO_162	192.168.10.162	MiVoice Office 250		UDP	×	×	1	Î	0
Date and Time Hostnames and addresses Domains	۲	۲	Mivo400	192.168.10.80	MiVoice Office 400			×	$\checkmark$	1	Î	0

Figure 20– ICP List Page

🕅 Mitel	Mitel Standard	d Linux		admin@mbg101.sipcoe.co	om Status: Critical
Applications MiVoice Border Gateway Remote proxy services	System status -	Service configuration - S	System configuration -	Administration -	
ServiceLink Blades Status Administration Web services Backup View log files Event viewer System information System users Shutdown or reconfigure Virtualization Security	Page updated: Wed Nov 21 The following is a form for cr	2018 18:56:18 GMT+0530 (India Sta eating an icp entry. You may edit this Name Type SIP capabilities UDP	andard Time) s information as you wish, and e 250 v	click on the "Save" button below when you are done. Hostname or IP address MiNet installer password Indirect call recording capable Save	

Figure 21– ICP Configuration Page

 Under the 'System Configuration' -> 'Settings' form, ensure that SIP support is enabled (see Figure 22 and Figure 23).

🔀 Mitel	Mitel Standard Linux		admin@mbg1	.01.sipcoe.com Status: Critical
Applications MiVoice Border Gateway Remote proxy services	System status - Service configuration -	System configuration -	Administration 👻	
ServiceLink Blades Status Administration	Page updated: Wed Nov 21 2018 18:56:58 GMT+0530 (In	Settings Port ranges		
Web services Backup View log files Event viewer System monitoring System users Shutdown or reconfigure Virtualization	TFTP enabled TFTP blocksize 4096 by ICP failure detection SSL ciphers Default	IP blocking IP Translations MiNet fallback addresses Bandwidth management	DSCP setting for voice DSCP setting for video DSCP setting for signaling Relax set RTP checks	Expedited forwarding   Expedited forwarding  Expedited forwarding
Security Remote access Port forwarding Syslog Web Server	MiNet options MiNet support TO	Connectors Overrides	Device ↔ device local	

Figure 22– MBG Settings Menu

Mitel Mit	tel Standard Linux			admin@mbg101.sipcoe.com Statu
size Border Gateway field toto proxy services ceLink les us <b>nistration</b> services	SIP support	Protocols         Access profile           UDP         Ø         Public         ▼           TCP         Ø         Public         ▼           TCPT         Ø         Public         ▼	Device ↔ device local stream Device ↔ trunk local stream Codes supp 7770 # =====	ing Unvestricted.
up k vlever em informátion em informátion em users down or reconfigure ativation retty tota access forwarding og	Export root cert © Registration Mode Set-side registration expiry time ICP-side registration expiry time Allowed URI names	Max Set-Sida	Set-side RTP secu- Inbound © 8RTP onty © 8RTP on tP ® RTP onty Outbound © 8RTP onty © 4VP-crypto	Hy Accept only RTP (plaintext) inbound to this server Send only RTP (plaintext) outbound from this server
client certificates uration orks		Biank any tielo you no longer want.	Preferred AES_CM_128_HMAC_SHA	1 <u>32</u> •
secumps e Apps and Time ames and addresses ins n-1Pv4 Tunnel	Tone injection Enabled SIP adaptation support SIP adaptation receive pipeline SIP adaptation send pipeline		ICP-side RTP secu Inbound © strtr ony © strtp or RTP ® RTP ony	ity Accept only RTP (plaintext) inbound to this server
net Cards w configuration <b>laneous</b> art and licensing	KPML username KPML password Confirm KPML password		Outbound         © strtp only           © AVP-crypto         ® strtp only           ® strtp only         Preferred           AES_CM_128_HMAC_SHA         SHA	Send only RTP (plaintext) outbound from this server
	Permit weak SIP passwords		cipher PRACK supp	ort 🖉

• To configure the SIP trunks, click on the 'Service Configuration' menu and select 'SIP Trunks' (see Figure 24).

🕅 Mitel 🛛	Mitel Standar	rd Linux		admii	n@mbg101.sipcoe.com Status: Critical
Applications MiVoice Border Gateway Remote proxy services	System status -	Service configuration -	System configuration -	Administration -	
<b>ServiceLink</b> Blades Status	Page updated: Wed Nov 2	ICPs MiNet devices	Standard Time)		
Administration Web services Backup View log files Event viewer System monitoring System monitoring System users Shutdown or reconfigure Virtualization	MBG statusSet-	SIP users SIP trunking WebRTC Application integration SIP adaptation Trust store	rabled iteway mode 5.110.136.82 2.168.10.100 cs.4.6.512.0.Tunic 0	Start Courtesy down Stop Security profile WAN IPs LAN IPs Third IPs	Legacy 115.110.136.82 192.168.10.100
Security Remote access Port forwarding Syslog Web Server MBG client certificates	Acti	we MiNet/SIP connections MiNet support WebRTC support	net. 0, SIP. 0, TURK. 0 2 MINet: TCP/PSK, TCP/TLS Disabled	Calls per hour Load average (5 min) SIP support Call recording support	Nilvet, U, Sir, U, Trunk, 9 0.05 Enabled: UDP, TCP, TCP/TLS Disabled
Configuration Networks	Clustering status				

Figure 2417 – MBG SIP Trunking

• On the SIP trunks page click on the '+' symbol and add the service provider (see Figure 25 and Figure 26).

🕅 Mitel	Mitel St	andar	d Linux						admin@	mbg101.sipcoe.com	Statu	s: 💽	ritica
Applications MiVoice Border Gateway Remote proxy services	System st	atus 👻	Service configur	ation 👻	System co	onfigurati	on 👻 Adn	ninistration -					
erviceLink Blades Status Administration	Page updated: The SIP trunks	Page updated: Wed Nov 21 2018 18:58:52 GMT+0530 (India Standard Time) The SIP trunks Information section below shows a short summary of each SIP trunk. Click on the SIP trunk for detailed information.											
Web services Backup View log files	Note: To ma	ke changes	to SIP settings in gene	eral, please	see the SIP set	tings in Sy	stem configuratio	n.					
Event viewer System information System monitoring System users	SIP trunk i	nformation	i										
Virtualization	Enabled	Name	Remote endpoint	DNS check	Transport	Rule count	PRACK	Remote RTP framesize (ms)	RTP address override	Local streaming between trunks			
Remote access Port forwarding Syslog Web Server MBG client certificates Configuration	~	Ecotel	trunk.sip-ecotel.de : 5083	•	UDP	1	disabled	0		×	1	đ	0
	~	Telnet	209.142.200.14 : 5060	N/A	UDP	1	usemaster	0		×	1	ŵ	0
Networks E-mail settings Google Apps	×	Versatel	62.214.96.188 : 5060	N/A	UDP	1	enabled	0		×	1	â	0
Date and Time Hostnames and addresses Domains	~	tata	10.0.74.2 : 5060	N/A	UDP	1	usemaster	0		×	2	Ô	0
IPv6-in-IPv4 Tunnel SNMP													

Figure 25– MBG SIP Trunk Configuration

🕅 Mitel 🕴 🕅	Aitel Standard Linux		a	dmin@mbg101.sipcoe.com Status: Critic
pplications         A         Mb/Soc Bin/Arr (dataway         Remote proxy services         erviceLink         Bades         Status         dininistration         Web services         Backup         View log files         Event viewer         System information         System information         System information         System control         System control         System control         System control         System control         System         Aemote access         Port forwarding         System         Bot control         Solution         Control         Solution         Control         Solution         Control         Solution         Solution	Manage SP trunk Remote trunk endpoint port Transport protocol Accept traffic from all UDP ports Options keepalives Rewrite host in PAI Ide timeout (s) Local streaming between trunk calls Log verbosity Authentication password Trunk-side RTP security Ibound Ortbound Preferred cipher SIP adaptation receive pipeline Search routing rules	Telnet S060 ♥ UDP ▼ Always ▼ Always ▼ B S800 Use master setting ▼ SRTP or RTP ▼ RTP ony ▼ AES_CM_128_HMAC_SHA1_32 ▼ AES_CM_128_HMAC_SHA1_32 ▼ AES_CM_128_HMAC_SHA1_32 ▼ AES_CM_128_HMAC_SHA1_32 ▼ B We them before changing pages or navigating else	Remote trunk endpoint address DMS SRV query domain DNS SRV resiliency timout Re-invite conversion Options interval Remote RTP framesize (ms) RTP address override PRACK support Authentication username Confirm authentication password ICP-aide RTP security Inbound Outbound Preferred cipher SIP adaptation send pipeline Next: Previous where, or those changes will be lost.	209 142 200 14
Domains IPv6-in-IPv4 Tunnel SNMP Ethernet Cards	Page Rules per page	1 of 1	Jump to page	1 •
Review configuration scellaneous Support and licensing Haln	First Prev Match Rule 1 Request URI V	Primary MIVO250 V	Secondary Description	Next Last ↑↓+ @

Figure 26 – MBG SIP Trunk Configuration

Enter the SIP trunk's details as shown in 26:

Name – is the name of the trunk.

**Remote trunk endpoint address** – the public IP address of the provider's switch or gateway (this address should be given to you by the provider.

**Local/Remote RTP framesize (ms)** – is the packetization rate you want to set on this trunk. This option is typically set to Auto.

**PRACK support** – Leave this option at the default setting.

**Routing rule one** – Allows routing of any digits to the selected MiVoice Office 250 switch.

The rest of the settings are optional and could be configured as required.

Click Save button

#### Check status: click System status tab and then click SIP Trunks



Figure 27 – SIP Trunk Status



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