

# SIP Trunking Test Results for Epygi – Quadro



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## 1 Executive Summary

This report provides the test results found to date for the Epygi Quadro IP PBX SIP Trunking evaluation. The following is a summary of the issues and limitations found while performing the test.

### Issues/Limitations:

- For call transfer SIP REFER is recommended method with XO SIP Trunk.

Disable 'Use RTP Proxy' flag to use SIP REFER.

- Epygi – Quadro system doesn't support 'Diversion' header for call forward scenarios. It uses '302 Redirect'.

To enable '302 Redirect':

Make direct Call Forwarding to IP address of XO server:

1. Enable "Unconditional Call Forwarding" on the appropriate extension;
2. Add entry with the following parameters:
  - a. Call Type – SIP
  - b. Forward to – 9725786576@205.158.163.138:5060

XXXXXXXXXX@XO-SBC-IP:5060

3. Make Call Forwarding through Call Routing rule.

Note: "Use Extension Settings" and "Use RTP proxy" services should be disabled.

Epygi is planning to add SIP 'Diversion' header support in future release. No ETA provided.

- XO Broadsoft 'Call Center' doesn't work with Epygi – Quadro system.
- Epygi – Quadro doesn't support \*67 feature code.

**Workaround:** Same feature can be achieved by adding another access code entry in "Routing table" (for example '7') and have 'Privacy' enable for 'user id' and 'name'.

When extension users want to block caller ID, they dial number starting with '7' instead of '9'. Find more details of this workaround with configuration screen shots.

- T.38 Fax requires workaround on XO side for package 1 and Package 2. Please contact XO Care if you intend to deploy fax using T.38.

### Registration Method

Static registration is utilized between the Epygi Quadro and the XO.

### XO SIP Service Packages Supported

Pkg	Codec	DTMF	Fax
1	G.711	RFC 2833 (In-band RTP DTMF)	T38; G.711 pass-through
2	G.729a	RFC2833	T38; G.711 pass-through

## 2 Software and Hardware Equipment Requirements for Testing

1. Epygi Quadro:

Model: 2x  
Version: **5.2.48**

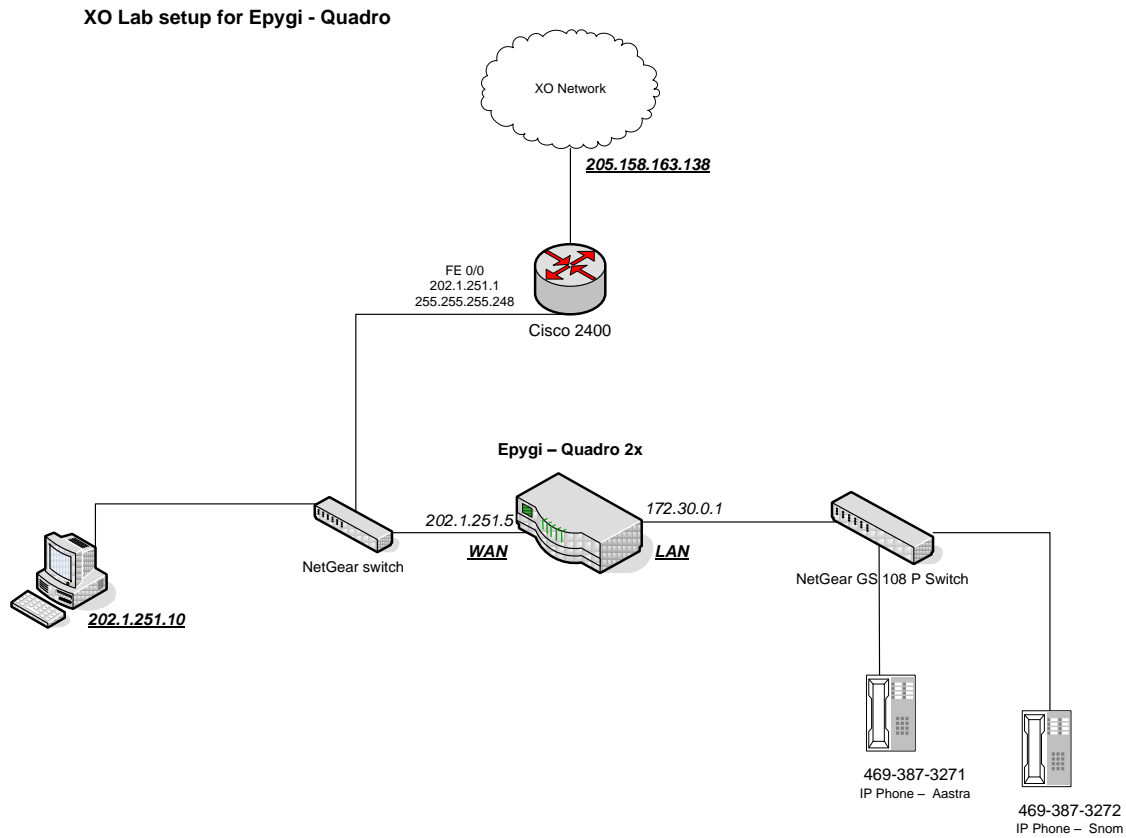
2. This PBX was certified with the following SIP Phones:

Aastra 9133i SIP  
Snom 360

### 3 Test Configurations

#### 3.1

The following diagram shows the configuration used during lab testing.



**Notes:**

- Above lab setup only shows main lab network elements.

## 4 Test Bed Configuration Files

### 4.1 Epygi Quadro basic Configuration guide

# Configuration Guide Of Epygi Quadro 2x for XO SIP Trunk

## System information:



[Main](#)
[System](#)
[Users](#)
[Telephony](#)
[Internet Uplink](#)
[Network](#)

### Quadro Status - General Information

**General Information**

[Network Status](#)

[Lines Status](#)

[Memory Status](#)

[Hardware Status](#)

[SIP Registration Status](#)

[IP Lines Registration Status](#)

[License Status](#)

Please check your pending events!

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<b>Uptime duration:</b>	7 day 23 hour 29 min 47 sec
<b>Device hostname:</b>	quadro
<b>Quadro Operating system:</b>	5.2.48 root@Delta.epygi.loc
<b>Application Software:</b>	5.2.48 - Release
<b>Boot Loader:</b>	PPCBoot 5.2.8/Release
<b>DSP Software:</b>	Version: 5.1.15.Date: Apr 23 2009 12:17

## Network Status:

[Main](#) [System](#) [Users](#) [Telephony](#) [Internet Uplink](#) [Network](#)

### Quadro Status - Network Status

[General Information](#)

**[Network Status](#)**

[Lines Status](#)

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#### Interfaces

Interface name	IP address	Subnet Mask	Properties	Monitor
LAN	172.30.0.1	255.255.0.0	MAC: 00-09-BD-01-A1-31	<a href="#">Watch LAN</a>
WAN	202.1.251.5	255.255.255.0	MAC: 00-09-BD-01-A1-32	<a href="#">Watch WAN</a>

**Default Gateway:** 202.1.251.1

**DNS Server:** 202.1.251.1

#### Services

Service Name	Status
NTP Server	Running
NTP Client	Running
DHCP Server	Running
DHCP Client	Stopped
DNS	Running
Firewall	Disabled
NAT	Running
PPP	Stopped

[View VPN Status](#)

[Transfer Statistics](#)

## Extension info:

The screenshot shows the 'Extensions Management' section of the user management interface. The table lists various extensions with their display names, attached lines, SIP addresses, memory usage, and call relay status.

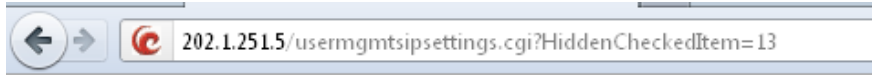
Extension	Display Name	Attached Line	SIP Address	Percentage of System Memory	Login / Call Relay	Codecs
00	Attendant		4693873274, Proxy:205.158.163.138:5060	1% (47 sec)		PCMU...
11		Line 1	4693873273, Proxy:205.158.163.138:5060	5% (3 min 54 sec)	No / No	PCMU...
12		Line 2	12	5% (3 min 54 sec)	No / No	PCMU...
13	XO Test 2	IP Line 1	4693873272, Proxy:205.158.163.138:5060	5% (3 min 54 sec)	No / No	PCMU...
14	XO Test 1	IP Line 2	4693873271, Proxy:205.158.163.138:5060	5% (3 min 54 sec)	No / No	PCMU...
15	Hunt Group	IP Line 3	4693873278, Proxy:205.158.163.138:5060	5% (3 min 54 sec)	No / No	PCMU...
16		IP Line 4	16	5% (3 min 54 sec)	No / No	PCMU...
17		IP Line 5	17	5% (3 min 54 sec)	No / No	PCMU...

## Extension info: (continue)

The screenshot shows the continuation of the 'Extensions Management' table. It lists extensions 13 through 20, including an XO Lab extension added by VoIP Carrier Wizard.

Extension	Display Name	Attached Line	SIP Address	Percentage of System Memory	Login / Call Relay	Codecs
13	XO Test 2	IP Line 1	4693873272, Proxy:205.158.163.138:5060	5% (3 min 54 sec)	No / No	PCMU...
14	XO Test 1	IP Line 2	4693873271, Proxy:205.158.163.138:5060	5% (3 min 54 sec)	No / No	PCMU...
15	Hunt Group	IP Line 3	4693873278, Proxy:205.158.163.138:5060	5% (3 min 54 sec)	No / No	PCMU...
16		IP Line 4	16	5% (3 min 54 sec)	No / No	PCMU...
17		IP Line 5	17	5% (3 min 54 sec)	No / No	PCMU...
18		IP Line 6	18	5% (3 min 54 sec)	No / No	PCMU...
19		IP Line 7	19	5% (3 min 54 sec)	No / No	PCMU...
20		IP Line 8	20	5% (3 min 54 sec)	No / No	PCMU...
29	XO Lab (added by VoIP Carrier Wizard)	None	4693873270, Proxy:205.158.163.138:5060	0% (0 sec)	No / No	PCMU...

Extension setting:



- Main
- System
- Users
- Telephony
- Internet Uplink
- Network

Extensions Management - Edit Entry

<p><a href="#">General Settings</a></p> <p><b><a href="#">SIP Settings</a></b></p> <p><a href="#">SIP Advanced Settings</a></p> <p><a href="#">Remote Settings</a></p> <p><a href="#">Call Queue Settings</a></p> <p><a href="#">Voice Mailbox Settings</a></p> <p><a href="#">Go To User Settings</a></p> <p><a href="#">Go To Line Settings</a></p> <p><a href="#">Go To Codec Settings</a></p>	<p><b>SIP Registration Settings - 13</b></p> <p>User Name <input type="text" value="4693873272"/></p> <p>Password <input type="password" value="....."/></p> <p>Confirm Password <input type="password" value="....."/></p> <p>SIP Server <input type="text" value="205.158.163.138"/></p> <p>SIP Port <input type="text" value="5060"/></p> <p><input type="checkbox"/> Registration on SIP Server</p> <p><input type="button" value="Save"/> <input type="button" value="Back"/></p>
--	--

SIP Server: **XO NBS IP**

User Name/Password: **No User Name/password required for XO SIP Trunk. XO uses static registration (IP based).**

Extension setting (continue): SIP Advanced settings

202.1.251.5/usermgmtsipadvsettings.cgi

Main System **Users** Telephony Internet Uplink Network

**Extensions Management - Edit Entry**

General Settings  
 SIP Settings  
**SIP Advanced Settings**  
 Remote Settings  
 Call Queue Settings  
 Voice Mailbox Settings

Go To User Settings  
 Go To Line Settings  
 Go To Codec Settings

**SIP Advanced Settings - 13**

**Advanced Settings**

Authentication User Name

Send Keep-alive Messages to Proxy

Timeout (sec)

RTP priority level

Do Not Use SIP Old Hold Method

**Outbound Proxy**

Host address

Port

**Secondary SIP Server**

Host address

Port

**Outbound Proxy for Secondary SIP Server**

Host address

Port

## Extension setting (continue): Voice Mailbox settings

[Main](#) [System](#) [Users](#) [Telephony](#) [Internet Uplink](#) [Network](#)

### Extensions Management - Edit Entry

<p><a href="#">General Settings</a></p> <p><a href="#">SIP Settings</a></p> <p><a href="#">SIP Advanced Settings</a></p> <p><a href="#">Remote Settings</a></p> <p><a href="#">Call Queue Settings</a></p> <p><a href="#">Voice Mailbox Settings</a></p> <p><a href="#">Go To User Settings</a></p> <p><a href="#">Go To Line Settings</a></p> <p><a href="#">Go To Codec Settings</a></p>	<p><b>Voice Mailbox Settings - 13</b></p> <div style="border: 1px solid red; padding: 5px;"> <p><input type="radio"/> Disable Voice Mail</p> <hr/> <p><input checked="" type="radio"/> Use Internal Voice Mail</p> <p>Configuration wizard status: Passed <span style="float: right;"><a href="#">Reactivate</a></span></p> <p>Shared Mailbox: <a href="#">Edit Voice Mailbox Access List</a></p> <hr/> <p><input type="radio"/> Use External Voice Mail <span style="float: right;">Transport Protocol for SIP messages</span></p> <div style="border: 1px solid red; padding: 5px;"> <p><input checked="" type="radio"/> Proxy Controlled Mailbox Type</p> <p>Voice Mail Retrieve SIP URI <input type="text"/></p> <hr/> <p><input type="radio"/> Independent Mailbox Type</p> <p>Mailbox URI <input type="text"/></p> </div> <div style="border: 1px solid red; padding: 5px; margin-top: 5px;"> <p><input checked="" type="radio"/> UDP</p> <p><input type="radio"/> TCP</p> </div> </div> <p style="text-align: center;"><a href="#">Save</a> <a href="#">Back</a></p>
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Extension setting (continue): IP Line settings

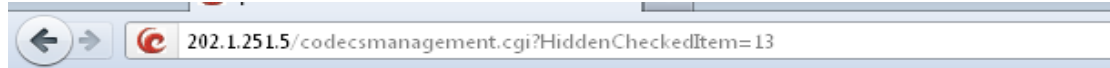


- Main
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IP Line Settings - IP Line 1

<input type="radio"/> Inactive  <input checked="" type="radio"/> SIP Phone	Phone Model: <input type="text" value="Snom 360"/>
	MAC Address: <input type="text" value="00"/> : <input type="text" value="04"/> : <input type="text" value="13"/> : <input type="text" value="23"/> : <input type="text" value="46"/> : <input type="text" value="7C"/>
	Line Appearance: <input type="text" value="2"/>
	Username: <input type="text" value="locext13"/>
	Password: <input type="password" value="....."/> <input type="button" value="Choose Generated Password"/>
	Transport: <input type="text" value="UDP"/>
	<input type="checkbox"/> Use Session Timer
	Use template: <input type="text" value="← use default →"/>
	<input type="checkbox"/> Enable Hot Desking Capability
	<b>Hot Desking Automatic Logout:</b>
	<input checked="" type="radio"/> Never
	<input type="radio"/> After <input type="text" value="0"/> hour(s) <input type="text" value="0"/> min
	<input type="radio"/> At <input type="text" value="0"/> : <input type="text" value="0"/>

## Extension setting (continue): Codec settings



- Main
- System
- Users
- Telephony
- Internet Uplink
- Network

### Extension 13 Codecs

[Enable/Disable](#)
[Select all](#)
[Inverse Selection](#)
[Move Up](#)
[Move Down](#)
[Make preferred](#)

	Audio Codecs	State
<input checked="" type="checkbox"/>	G.711u (PCM audio coding standard, 8 kHz sample rate, 8 bits, 64 kbit/s data rate)	Enabled
<input type="checkbox"/>	G.711a (PCM audio coding standard, 8 kHz sample rate, 8 bits, 64 kbit/s data rate)	Disabled
<input type="checkbox"/>	G.726-16 (ADPCM speech coding at 16 kbit/s rate)	Disabled
<input type="checkbox"/>	G.726-24 (ADPCM speech coding at 24 kbit/s rate)	Disabled
<input type="checkbox"/>	G.726-32 (ADPCM speech coding at 32 kbit/s rate)	Disabled
<input type="checkbox"/>	G.726-40 (ADPCM speech coding at 40 kbit/s rate)	Disabled
<input type="checkbox"/>	G.729a (CS-ACELP speech coding at 8 kbit/s rate)	Disabled
<input type="checkbox"/>	iLBC (Internet Low Bit Rate Coder at 13,33 kbit/s rate)	Disabled
<input type="checkbox"/>	G.722 (HD audio coding at 48-64 kbit/s data rate, 16 kHz sample rate)	Disabled
<input type="checkbox"/>	G.722.1 (HD audio coding at 24-32 kbit/s data rate, 16 kHz sample rate)	Disabled
<input type="checkbox"/>	TDVC (Time Domain Voicing Cutoff at 1,95 kbit/s rate)	Disabled
	Video Codecs	State
<input type="checkbox"/>	H.263 (Video coding for low bit rate communication)	Disabled
<input type="checkbox"/>	H.264 (Advanced video coding for low bit rate communication)	Disabled
<input type="checkbox"/>	H.263+ (Video coding for low bit rate communication)	Disabled

- Out of Band DTMF Transport
- Enable T.38 FAX
- Enable Pass Through FAX
- Enable Pass Through Modem
- Force Self Codecs Preference for Inbound Calls

#### Secure RTP Settings


SRTP Policy: Make unsecure calls, accept anything

Check flag “Enable T.38 Fax” for T.38 fax.  
Extension setting (continue):

Main Voice Mail Your Extension Supplementary Services

### Extension Settings

Extension: 13




Back

Extension setting (continue): Supplementary services – Caller ID Based Services

292.1.251.5 addressmanagement.cgi

Main Voice Mail Your Extension Supplementary Services



### Caller ID Based Services

Extension: 13

Add Edit Delete Select all Inverse Selection

Description	Address	Hide Caller Information	Incoming Call Blocking	Outgoing Call Blocking	Distinctive Ringing	Call Hunting	Many Extension Ringing	Unconditional Call Forwarding	Busy Call Forwarding	No Answer Call Forwarding	Unregistered/Inaccessible Call Forwarding	Find Me / Follow Me	Intercom Service	Emergency Interrupt
Any Address		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	Activate if Requested	OFF

Back Help

## Extension setting (continue): Supplementary services – Caller ID Based Services

### Call forward always to PSTN

202.1.251.5/supservices.cgi?addrID=10&param=6

**Main** **Voice Mail** **Your Extension** **Supplementary Services**

**Caller ID Based Services for Any Address**  
**Extension: 14**

<a href="#">Hiding Caller Information</a> <a href="#">Incoming Call Blocking</a> <a href="#">Outgoing Call Blocking</a> <a href="#">Distinctive Ringing</a> <a href="#">Call Hunting</a> <a href="#">Many Extension Ringing</a> <a href="#">Unconditional Call Forwarding</a> <a href="#">Busy Call Forwarding</a> <a href="#">No Answer Call Forwarding</a> <a href="#">Unregistered/Inaccessible Call Forwarding</a> <a href="#">Find Me / Follow Me</a> <a href="#">Intercom</a> <a href="#">Emergency Interrupt</a>	<input checked="" type="checkbox"/> Enable Service <a href="#">Enable/Disable</a> <a href="#">Add</a> <a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Select all</a> <a href="#">Inverse Selection</a>		
	<input type="checkbox"/>	State	Forward to
	<input checked="" type="checkbox"/>	Enabled	SIP-9725786576@205.158.163.138:5060
	<input type="checkbox"/>	Disabled	PBX-13
	<input type="checkbox"/> Send Notification Via SMS Mobile Number <input type="text"/>		
	<input type="checkbox"/> Send E-mail E-mail Address <input type="text"/>		
	<input checked="" type="checkbox"/> Toggle from Handset		
	<input type="button" value="Save"/> <input type="button" value="Back"/>		

## Extension setting (continue): Supplementary services – Based Services

**Main** **Voice Mail** **Your Extension** **Supplementary Services**

**Basic Services - General Settings**  
**Extension: 13**

<a href="#">General Settings</a> <a href="#">Hold Music Settings</a> <a href="#">Do Not Disturb Settings</a> <a href="#">Hot Line Settings</a>	<p><b>Main</b></p> No answer timeout (sec) <input type="text" value="20"/>	
	<p><b>Call Waiting</b></p> <input checked="" type="checkbox"/> Enable Call Waiting Service	
	<p><b>Auto Redial</b></p> Autore dial Interval (sec) <input type="text" value="10"/>	
	Autore dial Period (min) <input type="text" value="15"/>	
	<input type="button" value="Save"/> <input type="button" value="Back"/>	

Extension setting (continue): Supplementary services – Based Services

202.1.251.5/hold.cgi

Main Voice Mail Your Extension **Supplementary Services**

**Basic Services - Hold Music Settings**

Extension: 14

<p><a href="#">General Settings</a></p> <p><b><a href="#">Hold Music Settings</a></b></p> <p><a href="#">Do Not Disturb Settings</a></p> <p><a href="#">Hot Line Settings</a></p>	<p><input checked="" type="checkbox"/> Send Hold Music to remote IP party</p> <p>Listen Hold Music: Own_Music ▾</p> <table border="1"> <tr> <td> <input checked="" type="radio"/> File                 </td> <td> <input type="checkbox"/> Restore default Hold Music file                  Upload new Hold Music file <input type="text"/> <input type="button" value="Browse..."/> </td> </tr> <tr> <td> <input type="radio"/> RTP Channel                 </td> <td>                 Choose Channel: ▾             </td> </tr> </table> <p><input type="button" value="Save"/> <input type="button" value="Back"/></p>	<input checked="" type="radio"/> File	<input type="checkbox"/> Restore default Hold Music file Upload new Hold Music file <input type="text"/> <input type="button" value="Browse..."/>	<input type="radio"/> RTP Channel	Choose Channel: ▾
<input checked="" type="radio"/> File	<input type="checkbox"/> Restore default Hold Music file Upload new Hold Music file <input type="text"/> <input type="button" value="Browse..."/>				
<input type="radio"/> RTP Channel	Choose Channel: ▾				

‘Send Hold Music to remote IP party’ flag needs to be checked to play MoH from IPPBx.

## Extension setting (continue): Voice Mail

Main Voice Mail Your Extension Supplementary Services

### Voice Mail Settings

Extension: 13

Maximum mail message duration (min) 5

<input type="checkbox"/> Ask password before granting local access to mail box <input checked="" type="checkbox"/> Ask password before granting remote access to mail box <input type="checkbox"/> Send welcome message <input checked="" type="checkbox"/> Play Voice Mail help <input checked="" type="checkbox"/> Automatically play messages <input type="checkbox"/> Send mails count information message <input checked="" type="checkbox"/> Send date/time information message <input checked="" type="checkbox"/> Send beep at the end of message  <input type="checkbox"/> Silent VM recording <input type="checkbox"/> Send new voicemail notifications via e-mail E-mail address <input type="text"/> Voice Mail: <input type="text" value="Send notification with attachment"/> <input type="checkbox"/> Remove Voice Mail On Send Fax: <input type="text" value="Send notification with attachment"/> <input type="checkbox"/> Remove Fax On Send  <input type="checkbox"/> Send new voice message notifications via SMS Mobile number <input type="text"/> <input type="button" value="More notification options &gt;&gt;&gt;"/>	<p>Voice Mail Indication</p> <input checked="" type="checkbox"/> Lamp indication <input type="checkbox"/> Tone indication <input type="checkbox"/> Ringing indication Ring duration (sec) <input type="text" value="0.2"/> Silence duration (min) <input type="text" value="10"/> <input checked="" type="checkbox"/> Enable ZeroOut Redirect call type <input type="text" value="PBX"/> Redirect address <input type="text" value="00"/> <input type="button" value="SIP-Clipboard"/>  <input type="checkbox"/> Enable Fax Redirection Redirect to extension <input type="text" value="11"/>  <input type="checkbox"/> Enable Out Of Office <input type="checkbox"/> Restore default out of office greeting file Upload new out of office greeting file <input type="text"/> <input type="button" value="Browse..."/>  <p><b>Expiration Date and Time</b></p> <input type="checkbox"/> Expires in <input type="text" value="Dec"/> <input type="text" value="21"/> <input type="text" value="2011"/> at <input type="text" value="13"/> : <input type="text" value="55"/>
---	--

Restore default greeting file

Upload new greeting file

## Telephony: Call Routing



- Main
- System
- Users
- Telephony
- Internet Uplink
- Network

### Call Routing

Route all incoming SIP calls to Call Routing <sup>1</sup>

- [Call Routing Table](#)
- [Local AAA Table](#)
- [Global Speed Dial Directory](#)

Save Back

Please check your pending events!

## Telephony: Call Routing – Call Routing Table

ID	State	Destination Number Pattern	Pattern Modification	Call Settings	Follower Reason(s)	Local Authentication	Source Number Pattern/Caller ID Modification	Source Type	DT	UES / URP	Metric	Description
1	Enabled	5*	NDS: 1	SIP 205.158.163.138:5060	None	No	*	PBX		UES: 99 URP: Yes	10	XO Lab
2	Enabled	(911)		IP- PSTN 205.158.163.138:5060, RNDC: No	Any	No	*	PBX		UES: 99 URP: No	10	XO Lab : Emergency Call
3	Enabled	90	NDS: 1	SIP 205.158.163.138:5060	None	No	*	PBX		UES: 99 URP: Yes	10	XO Lab
4	Enabled	??		PBX	None	No					10	Call to Extensions
5	Enabled	7*	NDS: 1	SIP 205.158.163.138:5060	None	No	*	PBX		UES: 99 URP: Yes	10	XO Lab

NDS - Number of Discarded Symbols    UES - Use Extension Settings    RNDC - Restrict the Number of Simultaneous Calls  
 URP - Use RTP Proxy    AAA - Authentication, Authorization, Accounting    DT - Date/Time

## Telephony: Call Routing – Call Routing Table

### Configuration summary of '\*9':

[Main](#)
[System](#)
[Users](#)
[Telephony](#)
[Internet Uplink](#)
[Network](#)

#### Call Routing Wizard

##### Summary - Edit Entry

###### Routing Call Type

**Destination Number Pattern:** 9\*  
**Number of Discarded Symbols:** 1  
**Prefix:**  
**Suffix:**  
**Destination Type:** SIP  
**Metric:** 10  
**Description:** XO Lab

###### Routing Call Settings

**Use Extension Settings:** 99  
**Keep Original Caller ID:** Yes  
**Add Remote Party ID:** No  
**Destination Host:** 205.158.163.138  
**Destination Port:** 5060  
**Username:** admin  
**Transport Protocol for SIP:** UDP  
**SIP Privacy:** Default  
**Use RTP Proxy:** Yes  
**Activity Timeout:** Disabled  
**Call Duration Limit:** Disabled  
**AAA Required:** AAA disabled.  
**Failover Reason(s):** None

###### Routing Call Source Information

**Discard Non-Numeric Symbols:** No  
**Source Number Pattern:** \*  
**Source Type:** PBX

###### Caller ID Modification

**Number of Discarded Symbols:**  
**Prefix:**

Previous

Finish

Check “Keep Original Caller ID” flag to forward extension DID in outbound call. If this flag is not checked, main number (account number) is passed on as caller ID for all calls.

## Telephony: Call Routing – Call Routing Table

Configuration summary of '\*7': This was used to make call with blocked caller ID.



- Main
- System
- Users
- Telephony
- Internet Uplink
- Network

### Call Routing Wizard

**Summary - Edit Entry**

Routing Call Type	Routing Call Settings
<b>Destination Number Pattern:</b> 7*	<b>Use Extension Settings:</b> 99
<b>Number of Discarded Symbols:</b> 1	<b>Keep Original Caller ID:</b> Yes
<b>Prefix:</b>	<b>Add Remote Party ID:</b> No
<b>Suffix:</b>	<b>Destination Host:</b> 205.158.163.138
<b>Destination Type:</b> SIP	<b>Destination Port:</b> 5080
<b>Metric:</b> 10	<b>Username:</b> admin
<b>Description:</b> XO Lab	<b>Transport Protocol for SIP:</b> UDP
	<b>SIP Privacy:</b> Enabled (User, Id)
	<b>Use RTP Proxy:</b> Yes
	<b>Activity Timeout:</b> Disabled
	<b>Call Duration Limit:</b> Disabled
	<b>AAA Required:</b> AAA disabled.
	<b>Failover Reason(s):</b> None

**Routing Call Source Information**

<b>Discard Non-Numeric Symbols:</b> No
<b>Source Number Pattern:</b> *
<b>Source Type:</b> PBX

**Caller ID Modification**

<b>Number of Discarded Symbols:</b>
<b>Prefix:</b>

Previous
Finish

SIP Privacy is enabled for 'User' and 'Id' to block caller ID and CNAM.

## Internet/Uplink – Firewall/NAT

Unchecked 'Enable Firewall' flag during testing.

Main System Users Telephony **Internet Uplink** Network

### Firewall Configuration

- Enable IDS
- Enable NAT
- Enable Firewall

<input type="radio"/> Low Security	Everything is allowed that's not explicitly forbidden. This policy doesn't block anything per default. You have to configure the filters manually. This option is recommended if this device is already located behind another firewall or if you are sure that you have configured every filter correctly. Basic protection against the most common attacks (port scans, flooding, etc) is still provided with this policy.
<input type="radio"/> Medium Security	Traffic originating from the LAN-side may pass and traffic from the WAN-side will be blocked per default. This is the recommended policy.
<input type="radio"/> High Security	Everything that is not explicitly allowed will be blocked. This includes traffic from the LAN-side. You have to configure the filters to open up the firewall as desired.

[Advanced Firewall Configuration](#)

[View Filtering Rules](#)