Configuring XiVO with Untangle Firewall

How to Successfully Firewall XiVO with Untangle



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Step 1: SELECT IP

Select an External IP You Will Dedicate to The XiVO Server. Must Be a STATIC EXT IP.

For this example, I am using 66.172.12.2



Step 2:
PORT FORWARDING
RULES

Setup 2 port forwarding rules that forward in port 5060 UDP and 10000-20000 UDP



Step 3: NAT RULE

Add a NAT rule
That tells Untangle
To always send
XiVO traffic out
Your static IP. Our
Example IP is
66.172.12.2

I would add a NAT RULE to tell Untangle to always send any traffic from XiVO through 66.172.12.2



Step 4: BYPASS RULES

By default, Untangle reads through ALL traffic and inspects it which ends up screwing up SIP traffic. To stop this, we add bypass rules to tell the firewall NOT to inspect and change the traffic



Step 5 SIP HELPER

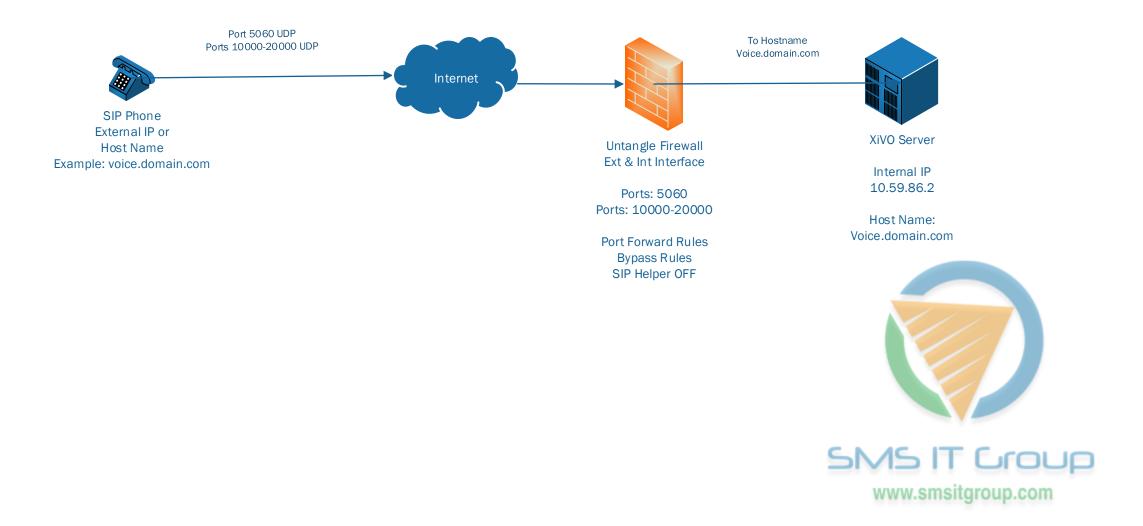
Make sure SIP Helper and other Untangle options are configured properly

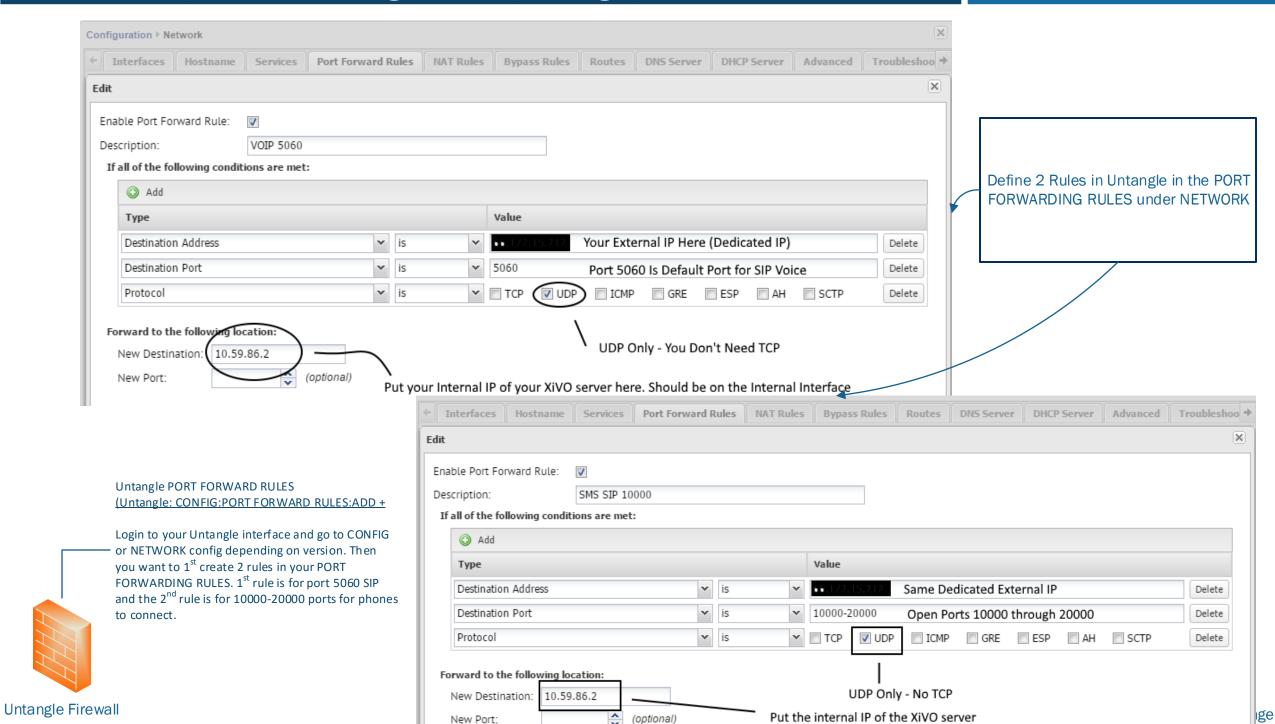


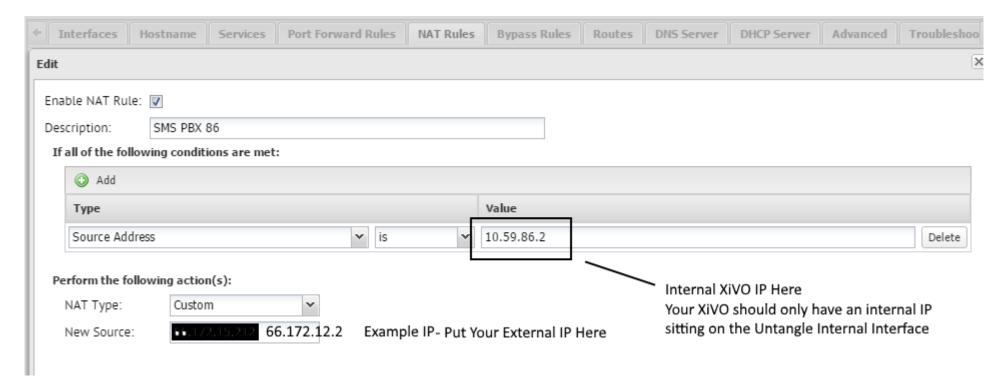
In order for Untangle to successfully process the traffic, you need to make sure you have a PORT FORWARD RULE that allows the traffic in but you also need a NAT rule to make sure the traffic goes out the CORRECT IP. You need to dedicate an IP to XiVO for this to work. For example, let's say I have a block of Ips that are 66.172.12.1 to .50. I would take 66.172.12.2 and use that for my firewall IP for my XiVO rules.







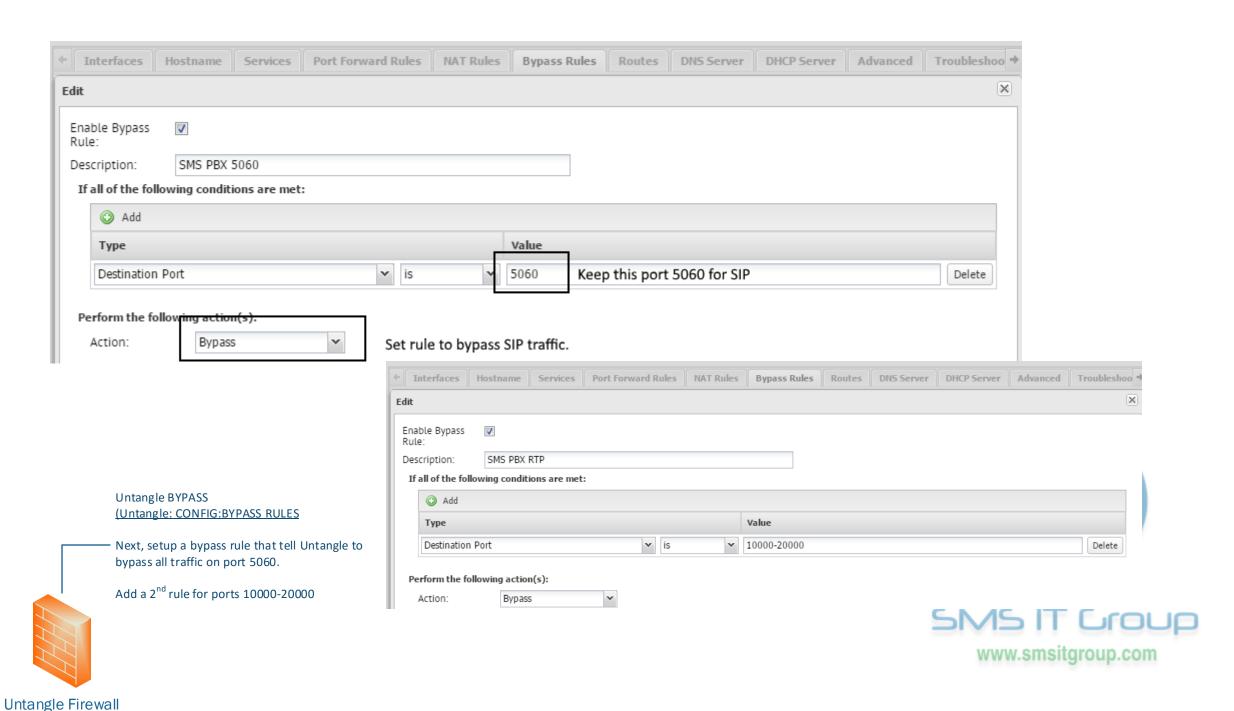


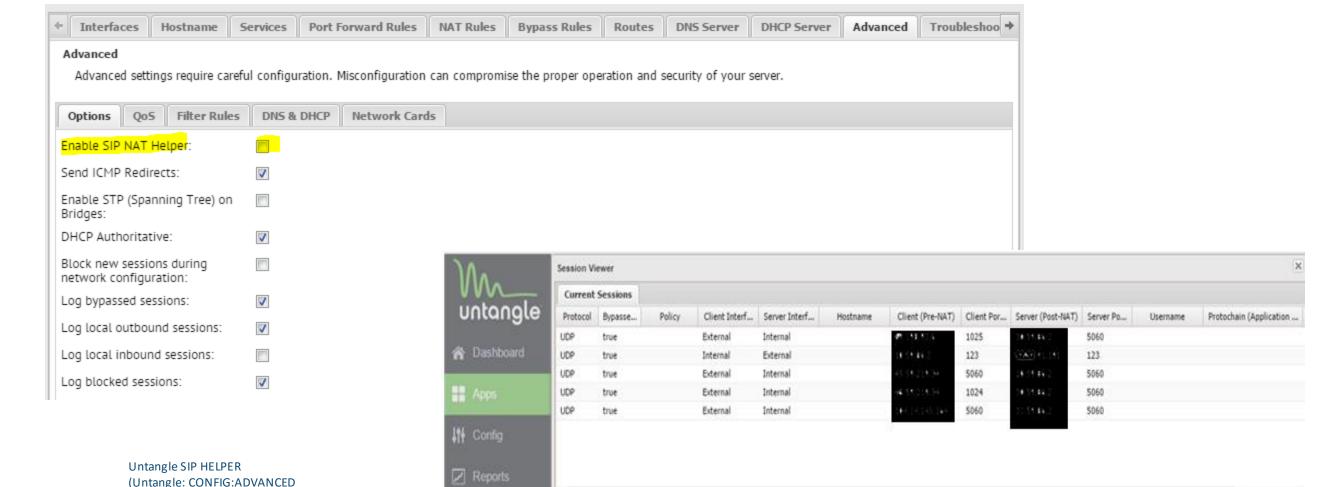


Untangle NAT RULES
(Untangle: CONFIG:NAT RULES

Go to NAT RULES and add 1 rule to tell Untangle to send the traffic out the same external IP every time. In this example, my external IP is 66.172.12.2 and my XiVO server is 10.59.86.2.







Finally, you need to make sure SIP HELPER is turned OFF. When you make this change, make sure you

reboot the firewall to clear out the translation tables

Check To See If It Works

All Sessions

@ Help

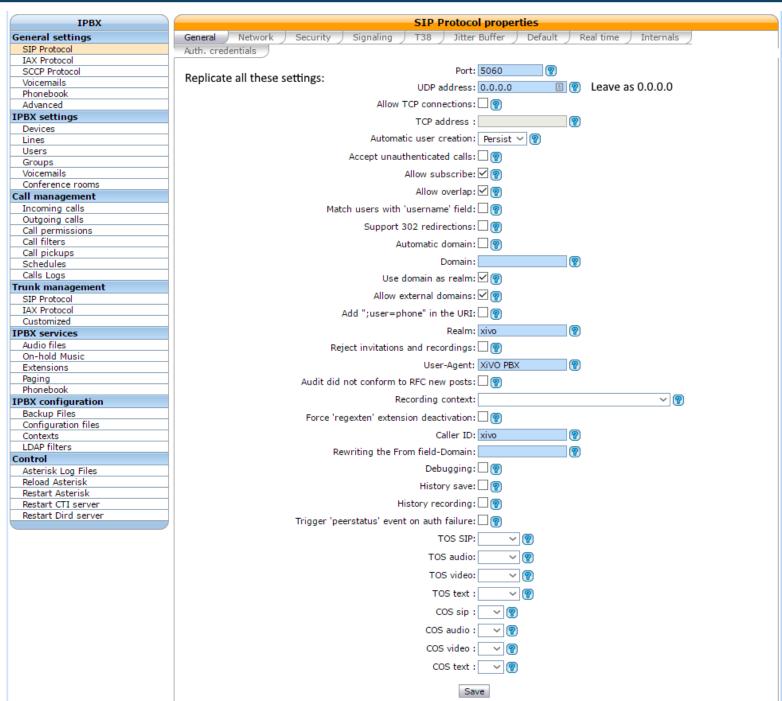
You can check to see if your settings work by going to the SESSION VIEWER in Untangle and enter your INTERNAL IP (IE. 10.59.86.2) and you will see all the traffic in and out to the XiVO server. Make sure all rules show BYPASS TRUE and are NOT being blocked. If they are, you have a configuration setting incorrect.

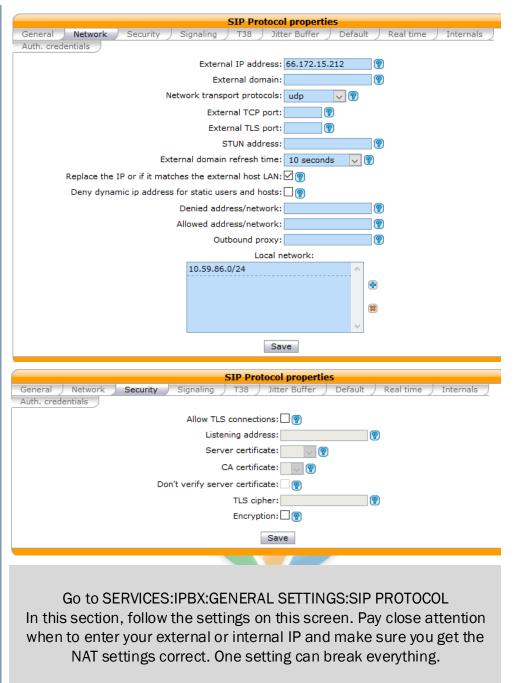
V Refresh 3 Auto Refresh Filter: 10.59.86.2



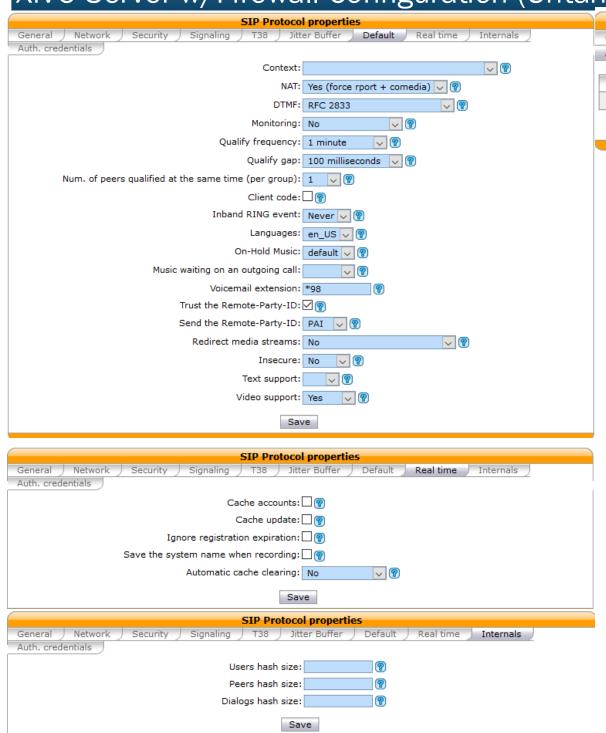
Case sensitive Clear Filters Clear Grouping Reset View

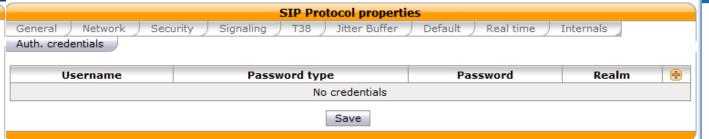
X Close













Go to CONFIGURATION: NETWORK: Interfaces

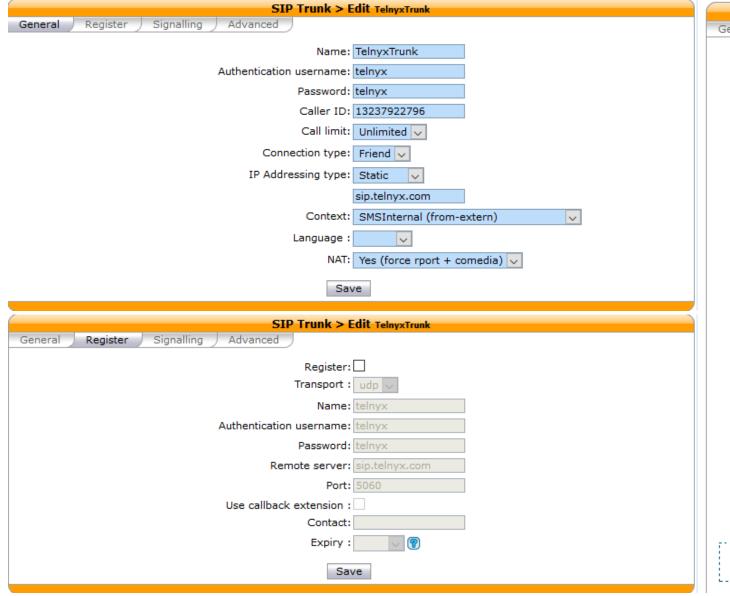
In this section, make sure you use the internal IP of the XiVO server - NOT external

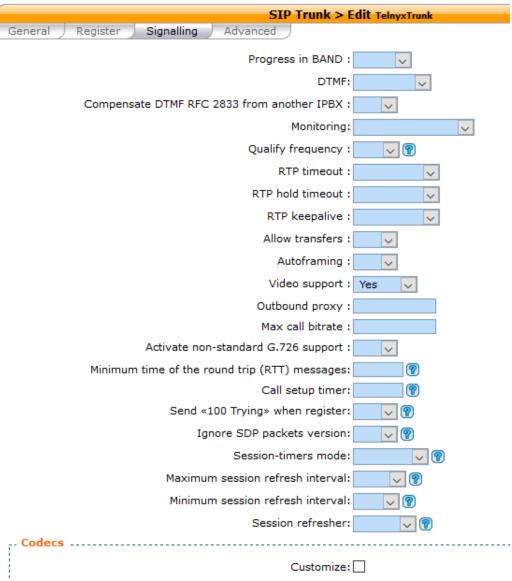
Interfaces > Edit						
Interface: eth0						
Type: VoIP 🗸 🗑						
Method: Static V						
Address: 10.59.86.2						
Netmask: 255.255.255.0						
Default gateway: 10.59.86.1						
Description:						
wizard configuration						
and the second s						
Save						



Go to CONFIGURATION:TRUNK MANAGEMENT:SIP PROTOCOL

Follow the settings in the screenshots to make sure your configuration will work with the firewall configuration. Pay attention to all settings.





Go to CONFIGURATION:TRUNK MANAGEMENT:SIP PROTOCOL

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SIP Trunk > Edit TelnyxTrunk	
General Register Signalling Advanced	
Insecure: All 🗸	
Port: 5060	
Allowed IP address or subnet :	
Denied IP address or subnet :	
Trust Remote-Party-ID :	
Send Remote-Party-ID:	
Allow subscriptions :	
Allow overlap:	
Support 302 redirections :	
Add ";user=phone" in URI :	
Redirect media streams:	?
Rewriting the From field-User:	
Rewriting the From field-Domain:	
amaflag : Default	
Account code :	
Client code :	
Transport: udp 🗸 💡	
Remote password :	?
Enable calls counter:	
Send BUSY up to num. calls:	
Callback extension:	?
Authorised contact addresses:	?
Rejected contact addresses:	?
Description:	
	.:1
Save	

Go to CONFIGURATION:CALL MANAGEMENT:OUTGOING CALLS Put settings in to allow outgoing calls out the SIP trunk.

0 1 51		Outgoing calls > Edit	telynx			
General Exten	Call permissions Sc	hedules				
Name: telynx						
Context: SMS (to-extern)						
Use ENUM:						
Internal: □						
Preprocess subroutine:						
Ringing time before hangup: Unlimited						
		Trunks:				
	1 items selected	Remove all		Add all		
	‡ TelnyxTrunk (SIP)	_				
Description:						
				ai ai		
		Save				
Outgoing calls > Edit telynx						
General Exten Call permissions Schedules						
Extern prefix	Prefix	Exten	Stripnum	Callerid		
‡ 1	1.		0 🗸	8		
‡ 2	0.		0 🗸	(2)		
Save						