

Network Address Translation (NAT) Settings on the SPA8000 Phone Adapter

Objective

The Network Address Translation (NAT) feature helps in the translation between internal private IP addresses and external public IP addresses. NAT also hides the original IP address of the host, which adds security. In addition, NAT helps to preserve the public IP addresses of an organization. The purpose of this document is to explain how to configure NAT on the SPA8000 phone adapter.

Applicable Device

- SPA8000 Analog Telephone Adapter

Software Version

- 6.1.12

Configuration of NAT Settings

Step 1. Log into the web configuration utility as an administrator and choose **Advanced > Voice > L1-L8**. The *Line* page opens:

Line Enable:	yes	Trunk Group:	none
Streaming Audio Server (SAS)			
SAS Enable:	no	SAS DLG Refresh Intvl:	30
SAS Inbound RTP Sink:			
NAT Settings			
NAT Mapping Enable:	no	NAT Keep Alive Enable:	no
NAT Keep Alive Msg:	\$NOTIFY	NAT Keep Alive Dest:	\$PROXY
Network Settings			
SIP ToS/DiffServ Value:	0x68	SIP CoS Value:	3 [0-7]
RTP ToS/DiffServ Value:	0xb8	RTP CoS Value:	6 [0-7]
Network Jitter Level:	high	Jitter Buffer Adjustment:	up and down
SIP Settings			
SIP Transport:	UDP	SIP Port:	5060
SIP 100REL Enable:	no	EXT SIP Port:	
Auth Resync-Reboot:	yes	SIP Proxy-Require:	
SIP Remote-Party-ID:	yes	SIP GUID:	no
SIP Debug Option:	none	RTP Log Intvl:	0
Restrict Source IP:	no	Referor Bye Delay:	4
Refer Target Bye Delay:	0	Referee Bye Delay:	0
Refer-To Target Contact:	no	Sticky 183:	no
Auth INVITE:	no	Reply 182 On Call Waiting:	no
Use Anonymous With RPID:	yes	Use Local Addr In FROM:	no
Call Feature Settings			
Blind Attn-Xfer Enable:	no	MOH Server:	
Xfer When Hangup Conf:	yes	Conference Bridge URL:	
Conference Bridge Ports:	3		

Step 2. From the Line Enable drop down list choose **yes** to enable the line for NAT setting configurations.

Step 3. Choose **yes** from NAT Mapping Enable drop-down list to make use of externally mapped IP addresses and SIP/RTP ports in SIP messages. The default value is No.

Step 4. Choose **yes** from NAT Keep Alive Enable drop-down list to save the configured NAT settings keep alive message. The keep alive message is a message delivered from a device that prevents the link between two communicating devices to be broken. The default value is no.

Step 5. In the NAT Keep Alive Msg field, enter the keep alive message that should be sent periodically to maintain the current NAT mapping. If the value for this field is \$NOTIFY, a notify message is sent. If the value is \$REGISTER, a register message without contact is sent. The default value is \$NOTIFY.

Step 6. In the NAT Keep Alive Dest field, enter the destination that should receive the NAT keep alive messages. If the value is \$PROXY, then the NAT keep alive messages are sent to the current proxy server or the outbound proxy server. The default value is \$PROXY.

Step 7. Click **Submit All Changes** to save the settings.