

NeoGate TA400/800 User Manual

Version 41.18.0.8

Yeastar Information Technology Co. Ltd

Table of Contents

Introduction	4
Part I. Configuration Guide	5
1. Login	5
2. Status	7
2.1 System Status 2.1.1 Port Status 2.1.2 Network status 2.1.3 System Info 2.2 Reports	7 8 8
2.2.1 Call Logs2.2.2 System Logs2.2.3 Packet Tool	9 10
3. System	10
3.1 Network Preferences 3.1.1 LAN Settings 3.1.2 Service 3.1.3 VLAN Settings 3.1.4 VPN Settings 3.1.5 DDNS Settings	11 12 12 14
3.1.6 Static Route	16 16 18
3.2.4 Certificates 3.2.5 Firewall Rules 3.2.6 IP Blacklist	21 22 23
3.3 System Preferences	24 25 25
3.3.6 Backup and Restore 3.3.6 Reset and Reboot 4. Gateway	30 31
4.1 FXS Port List	31



4.2 VoIP Settings	39
4.2.1 VoIP Server Settings	39
4.2.2 Dial Pattern Template	42
4.2.3 SIP Settings	43
4.2.4 IAX Settings	49
4.3 Gateway Settings	50
4.3.1 General Preferences	50
4.3.2 Feature Codes	50
4.3.3 Speed Dial Settings	53
4.4 Audio Settings	53
4.4.1 Custom Prompts	53
4.4.2 Music on Hold Prompts	54
4.4.3 System Prompts Settings	55
4.5 Advanced Settings	56
4.5.1 Tone Zone Settings	56
4.5.2 RADIUS Settings	58
Part II. Basic Operations	59
1. NeoGate TA Voice Menu	59
2. Inter-port Call	60
3. Call Hold	60
4. Call Waiting	60
5. Call Transfer	61
7. Direct IP Call	61
8. Change NeoGate TA's IP Address Using Analog Pho	ones 62



Introduction

NeoGate TA400/800 FXS Analog VoIP Gateways are cutting-edge products that connect legacy telephones, fax machines and PBX systems with IP telephony networks and IP-based PBX systems. Featuring rich functionalities and easy configuration, NeoGate TA is ideal for small and medium enterprises that wish to integrate a traditional phone system into IP-based system. NeoGate TA helps them to preserve previous investment on legacy telephone system and reduce communication costs significantly with the true benefits of VoIP.

Features

- 4/8 FXS ports
- Fully compliant with SIP and IAX2
- Dial Pattern of outgoing calls
- Hunt Group
- Configurable VoIP Server templates
- Reliable fax performance with T.38
- 3-party Conference
- Inter-port Calling
- Call Hold
- Blind Transfer
- Attended Transfer
- Support RADIUS protocol

For more information, please click:

http://www.yeastar.com/Products/Products.asp#NeoGateTA

For more information about the NeoGate TA hardware specification and how to install the NeoGate TA, please refer to the document below:

http://www.yeastar.com/download/PartI_NeoGate_TA_FXS_Gateway_Installation_Guide_en.pdf



Part I. Configuration Guide

1. Login

The NeoGate TA attempts to contact a DHCP server in your network to obtain valid network settings (e.g., the IP address, subnet mask, default gateway address and DNS address) by default.

Please enable DHCP Server in your network to obtain the NeoGate IP address.

How to check NeoGate TA IP address:

- 1. Pick up the analog phone, then access the voice menu prompt by dialing "***"
- 2. Dial "1" to check the IP address.
- 3. Dial "2" for web access address.

Logging On:

After entering the IP address in the web browser, users will see a log-in screen. Check the default settings below:

Username: admin
Password: password

In this example, the IP address is 192.168.3.159, the model is TA400.

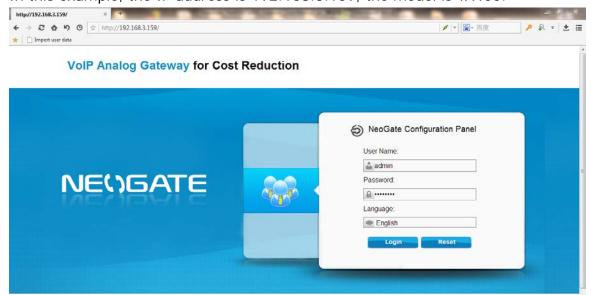


Figure 1-1 NeoGate TA Login page

Click "Login" to get the welcome page.





Figure 1-2 Login NeoGate TA



2. Status

Click to check the status of NeoGate TA, including the system status and the detailed reports.

2.1 System Status

In this page, we can check the status of the system, including trunk status, network status and system information.

2.1.1 Port Status



Figure 2-1 FXS Port Status

NeoGate TA Status Description:

Port Status:

Up/Down	Description
Up	The FXS module works well.
Down	The FXS module is broken.

Voice Mail (New/Old)

Showing the number of unread voicemail and old voicemail.

*Only when the FXS port is registered as one of the VoIP Server's accounts, can you see the voice mail status.

Status:

Status	Description
OK	Successful registration, trunk is ready for use
Unreachable	The trunk is unreachable.
Request Send	Registering.
Waiting for authentication	Wrong password or user name.
Failed	Trunk registration failed.



Off-hook/On-hook

Hook	Description
On Hook	The FXS port is idle.
Off Hook	The FXS port is busy.

2.1.2 Network status

In this page, the IP address of LAN port will appear with their status.

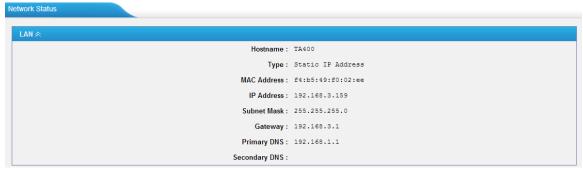


Figure 2-2 Network Status

If your VLAN or VPN are configured, you can check the status in this page also.

2.1.3 System Info

In this page, we can check the hardware/firmware version, or the disk usage of NeoGate TA.



Figure 2-3 System Info



2.2 Reports

In this page, we can check the call detailed log, system log, and use the packet tool to debug the system when needed.

2.2.1 Call Logs

The call log captures all call details, including call time, caller number, callee number, call type, call duration, etc. An administrator can search and filter call data by call date, caller/callee, trunk, duration, billing duration, status, or communication type.

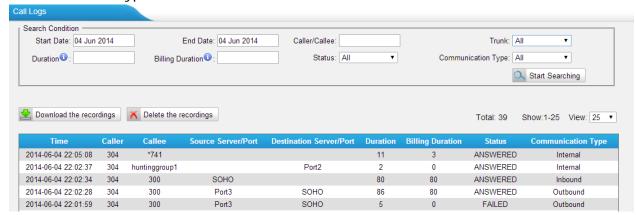


Figure 2-4 Call Logs

2.2.2 System Logs

You can download and delete the system logs of NeoGate TA.

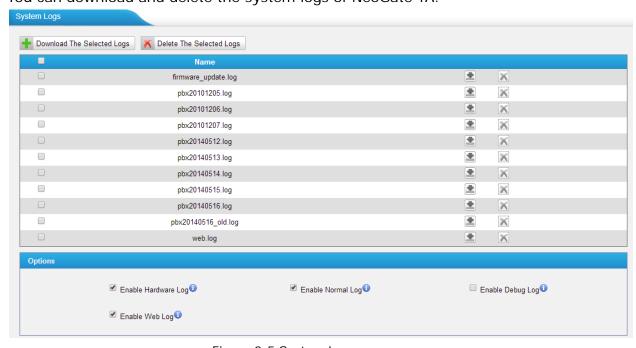


Figure 2-5 System Logs



Options

·Enable Hardware Log

Save the information of hardware; (up to 4 log files)

·Enable Normal Log

Save the prompt information; (up to 16 log files)

·Enable Web Log

Save the history of web operations (up to 2 log files)

·Enable Debug Log

Save debug information (up to 2 log files)

2.2.3 Packet Tool

This feature is used to capture packets for technician. Integrate packet capture tool "Wireshark" in NeoGate.

Users also could specify the destination IP address and port to get the packets.

٠IP

Specify the destination IP address to get the packets.

·Port

Specify the destination Port to get the packets.

3. System

Click system to access. In this page, we can configure the network settings, security settings and some system preferences.



3.1 Network Preferences

3.1.1 LAN Settings

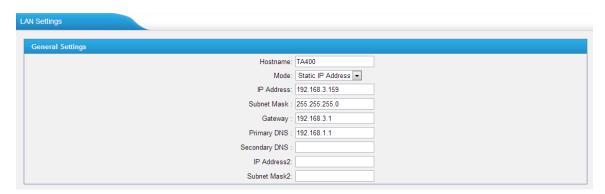


Figure 3-1 Static IP Address Mode

Table 3-1 Description of LAN Settings

Items	Description
Hostname	Set the host name for NeoGate TA
Static IP Address	Set the NeoGate TA's IP address as a static IP
IP Address	Set the IP Address for NeoGate TA. It is recommended that
IP Address	you configure a static IP address for NeoGate TA.
Subnet Mask	Set the subnet mask for NeoGate TA
Gateway	Set the gateway for NeoGate TA
Primary DNS	Set the primary DNS for NeoGate TA.
Secondary DNS	Set the secondary DNS for NeoGate TA
IP Address2	Set the second IP Address for NeoGate TA
Subnet Mask2	Set the second subnet mask for NeoGate TA



Figure 3-2 DHCP Mode

Select DHCP mode to get network automatically from the local network.



Figure 3-3 PPPoE

Fill in user name and password to access the Internet via PPPoE.



3.1.2 Service

The administrator can manage all the access methods on NeoGate TA on the "Service" page.



Figure 3-4 Service Settings

Table 3-2 Description of Service Settings

Items	Description
	By using SSH, you can log in to NeoGate and run commands.
SSH	It's disabled by default. We don't recommend enabling it if
	not needed.
	The default port for SSH is 8022;
ETD	FTP access;
FTP	The default port is 21.
TFTP	TFTP access;
IFIP	The default port is 23.
LITTD	HTTP web access;
HTTP	The default port is 80.
LITTE	HTTPS web access, it is disabled by default, and you can
HTTPS	enable it to get safer web access.

3.1.3 VLAN Settings

A VLAN (Virtual LAN) is a logical local area network (or LAN) that extends beyond a single traditional LAN to a group of LAN segments, given specific configurations.

Note:

NeoGate TA is not the VLAN server, a 3-layer switch is still needed, please configure the VLAN information there first, then input the details in NeoGate TA, so that the packages via NeoGate TA will be added the VLAN label before sending to that switch.



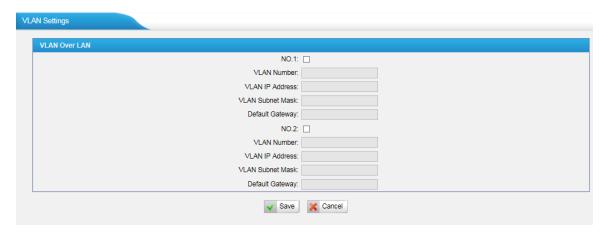


Figure 3-5 VLAN Settings

Table 3-3 Description of VLAN Settings

Table 6 6 Description of 42 in 66things	
Items	Description
NO.1	Click the NO.1 you can edit the first VLAN over LAN
VLAN Number	The VLAN Number is a unique value you assign to each
	VLAN on a single device
VLAN IP Address	Set the IP Address for NeoGate TA VLAN over LAN.
VLAN Subnet Mask	Set the Subnet Mask for NeoGate TA VLAN over LAN.
Default Gateway	Set the Default Gateway for NeoGate TA VLAN over LAN
NO.2	Click the NO.2 you can edit the first VLAN over LAN.
VLAN Number	The VLAN Number is a unique value you assign to each
	VLAN on a single device.



VLAN IP Address	Set the IP Address for NeoGate TA VLAN over LAN.
VLAN Subnet Mask	Set the Subnet Mask for NeoGate TA VLAN over LAN.
Default Gateway	Set the Default Gateway for NeoGate TA VLAN over LAN.

3.1.4 VPN Settings

A virtual private network (VPN) is a method of computer networking typically using the public internet that allows users to privately share information between remote locations, or between a remote location and a business' home network. A VPN can provide secure information transport by authenticating users, and encrypting data to prevent unauthorized persons from reading the information transmitted. The VPN can be used to send any kind of network traffic securely. NeoGate TA supports OpenVPN.



Figure 3-6 VPN Settings

·Enable VPN

·Import VPN Config

Import configuration file of OpenVPN.

Notes:

- 1. Don't configure "user" and "group" in the "config" file. You can get the config package from the OpenVPN provider.
- 2. NeoGate TA works as VPN client mode only.



3.1.5 DDNS Settings

DDNS (Dynamic DNS) is a method / protocol / network service that provides the capability for a networked device, such as a router or computer system using the Internet Protocol Suite, to notify a Domain Name System (DNS) name server to change, in real time, the active DNS configuration of its configured hostnames, addresses or other information.

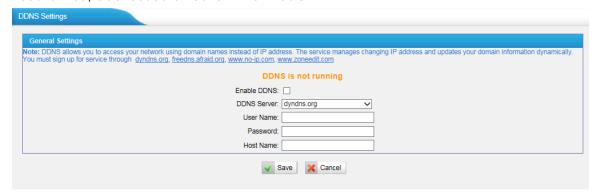


Figure 3-7 DDNS Settings

Table 3-4 Description of DDNS Settings

Items	Description
DDNS Server	Select the DDNS server you sign up for service.
User Name	User name the DDNS server provides you.
Password	User account's password.
Host Name	The host name you have got from the DDNS server

Note: DDNS allows you to access your network using domain names instead of IP address. The service manages changing IP address and updates your domain information dynamically. You must sign up for service through dyndns.org, freedns.afraid.org, www.no-ip.com, www.zoneedit.com.

3.1.6 Static Route

NeoGate TA will have more than one Internet connection in some situations but it has only one default gateway. You will need to set some Static Route for NeoGate TA to force it to go out through different gateway when accessing to different internet.

The default gateway priority of NeoGate TA from high to low is VPN/VLAN →LAN port.





Figure 3-8 Static Route

1) Route Table

The current route rules of NeoGate TA.

2) Static Route Rules

You can add new static route rules here.

ItemsDescriptionDestinationThe destination network to be accessed to by NeoGate TA.Subnet MaskSpecify the destination network portion.GatewayDefine which gateway NeoGate TA will go through when accessing the destination network.The cost of a route is calculated by using what are called routing metric. Routing metrics are assigned to routes by routing protocols to provide measurable statistic which can be used to judge how useful (how low cost) a route is.InterfaceDefine which internet port to go through.

Table 3-5 Description of Static Route Settings

3.2 Security Center

3.2.1 Security Center

You can check NeoGate TA security configuration in "Security Center" page. And also, you can enter the relevant security settings page rapidly.



Firewall:



Figure 3-9 Firewall

In the "Firewall" tab, you can check firewall configuration and alert settings. You can enter the configuration page directly by clicking the relevant button.

Service:

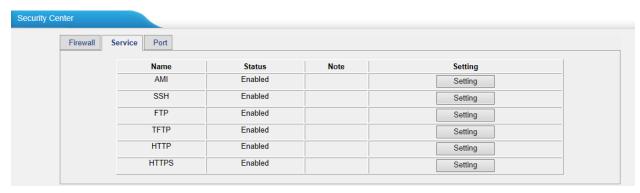


Figure 3-10 Service

In "Service" tab, you can check AMI /SSH/FTP/TFTP/HTTP/S status. You can enter the configuration page directly by clicking the relevant button.

Port:

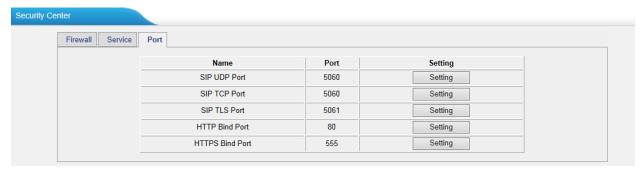


Figure 3-11 Port

In "Port" tab, you can check SIP port, HTTP port and HTTPS port. You can also enter the relevant page by clicking the button in "Setting" column. We recommend changing the default port for security.



3.2.2 Alert settings

If the device is under attack, the system will alert users via call or E-mail. The attack modes include IP attack and Web Login.

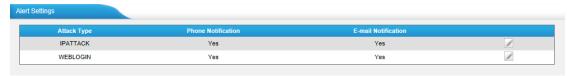


Figure 3-12 Alert Settings

1. IPATTACK

When the system is attacked by IP address, the firewall will add the IP to auto IP Blacklist and notify the user if it matches the protection rule.

1) Phone Notification Settings

Table 3-6 Description of Phone Notification Settings

Items	Description
PHONE Notification	Whether to enable phone notification or not.
	The numbers could be set for alert notification; users can
	setup multiple extension and outbound phone numbers.
Number	Please separate them by ";".
Number	Example: "500;9911", if the extension has configured
	Follow Me Settings, the call would go to the forwarded
	number directly.
Attempts	The attempts to dial a phone number when there is no
	answer.
	The interval between each attempt to dial the phone
Interval	number. Must be longer than 3 seconds, the default value
	is 60 seconds.
Prompt	Users will hear the prompt while receiving the phone
Prompt	notification.

2) E-mail Notification Settings

Note: Please ensure that all voicemail settings are properly configured on the System Settings -> Voicemail Settings page before using this feature.

Table 3-7 Description of E-mail Notification Settings

Items	Description
E-mail Notification	Whether to enable E-mail Notification or not.
	The recipients for the alert notification, and multiple email
Recipient's Name	addresses are allowed, please separate them by ";".
	E.g. jerry@yeastar.com;jason@yeastar.com,456@sina.com



Subject	The subject of the alert email.
	Text content supports predefined variables. Variable names and corresponding instructions are as follows:
	gateway hostname: \$(HOSTNAME)
Email Content	attack source ip address: \$(SOURCEIP)
	attack dest mac: \$(DESTMAC)
	attack source port: \$(DESTPORT)
	attack source protocol: \$(PROTOCOL)
	attack occurred: \$(DATETIME)

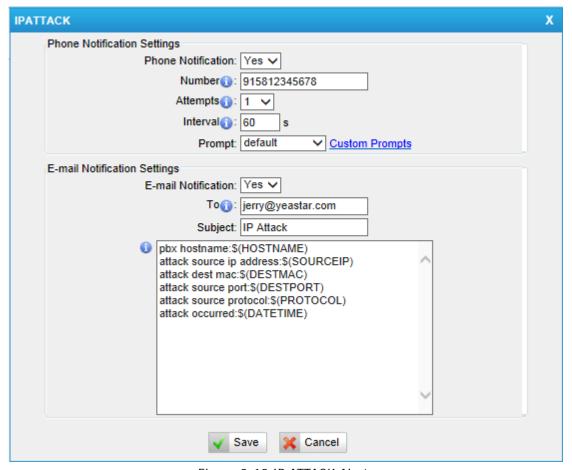


Figure 3-13 IP ATTACK Alert



2. WEBLOGIN

Web Login Alert Notification: entering the wrong password consecutively for five times when logging in NeoGate TA Web interface will be deemed as an attack, the system will limit the IP login within 10 minutes and notify the user.

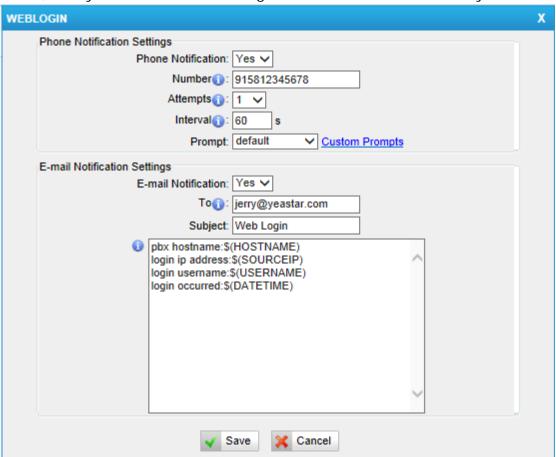


Figure 3-14 WEBLOGIN Alert

3.2.3 AMI Settings

The Asterisk Manager Interface (AMI) is a system monitoring and management interface provided by Asterisk. It allows live monitoring of events that occur in the system, as well enabling you to request that Asterisk perform some action. The actions that are available are wide-ranging and include things such as returning status information and originating new calls. Many interesting applications have been developed on top of Asterisk that take advantage of the AMI as their primary interface to Asterisk.

There are two main types of messages on the Asterisk Manager Interface: manager events and manager actions.

The 3rd party software can work with NeoGate TA using AMI interface. It is disabled by default. If necessary, you can enable it.



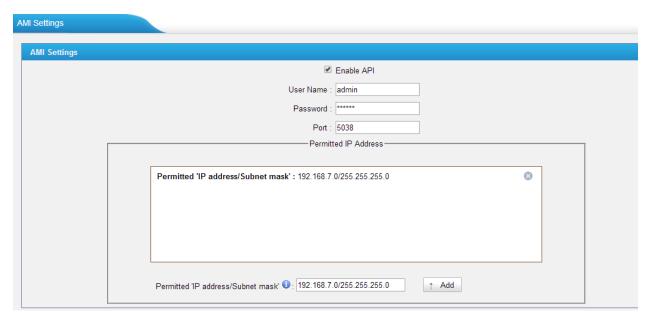


Figure 3-15 AMI Settings

Username & password: after enabling AMI, you can use this username and password to log in NeoGate TA AMI.

Permitted "IP address/Subnet mask": you can set which IP can log in NeoGate TA AMI interface.

3.2.4 Certificates

NeoGate TA can support TLS trunk. Before you register TLS trunk to NeoGate TA, you should upload certificates first.



Figure 3-16 Certificates

Trusted Certificate

This certificate is a CA certificate. When selecting "TLS Verify Client" as "Yes", you should upload a CA. The relevant IPPBX should also have this certificate.

Gateway Certificate

This certificate is server certificate. No matter selecting "TLS Verify Client" as "Yes" or "NO", you should upload this certificate to NeoGate TA. If IPPBX



enables "TLS Verify server", you should also upload this certificate on IPPBX.

3.2.5 Firewall Rules



Figure 3-17 Firewall Rules

1) General Settings

Table 3-8 Description of Firewall General Settings

Items	Description	
Enable Firewall	Enable the firewall to protect the device. You should reboot	
	the device to make the firewall run.	
Disable Ping	Enable this item to drop net ping from remote hosts.	
	When you enable "Drop All" feature, the system will drop all	
	packets or connection from other hosts if there are no other	
Drop All	rules defined. To avoid locking the devices, at least	
	one "TCP" accept common rule must be created for port	
	used for SSH access, port used for HTTP access and port	
	sued for CGI access.	

2) Common Rules

There is no default rule; you can create one as required.



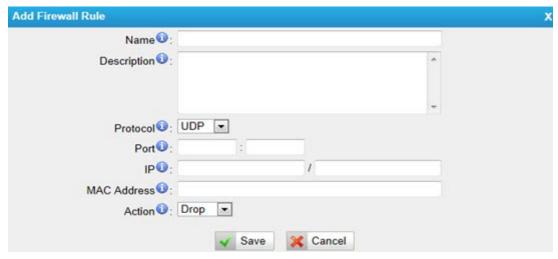


Figure 3-18 Common Rule

Table 3-9 Description of Common Rule Settings

Items	Description
Name	A name for this rule, e.g. "HTTP".
December	Simple description for this rule. E.g. Accept the specific host to
Description	access the web interface for configuration.
Protocol	The protocols for this rule.
Dort	Initial port should be on the left and end port should be on the
Port	right. The end port must be equal to or greater than start port.
	The IP address for this rule. The format of IP address is: IP/mask
ID	E.g. 192.168.5.100/255.255.255.255 for IP 192.168.5.100
IP	E.g. 192.168.5.0/255.255.255.0 for IP from 192.168.5.0 to
	192.168.5.255 .
MAC	The format of MAC Address is XX: XX: XX: XX: XX, X means 0~9
Address	or A~F in hex, the A~F are not case sensitive.
Action	Accept: Accept the access from remote hosts.
	Drop: Drop the access from remote hosts.
	Ignore: Ignore the access.

Note: The MAC address will be changed when it's a remote device, so it will not be working to filter using MAC for remote devices.

3.2.6 IP Blacklist

You can set some packets accept speed rules here. When an IP address which hasn't been accepted in common rules sends packets faster than the allowed speed, it will be set as a black IP address and be blocked automatically.



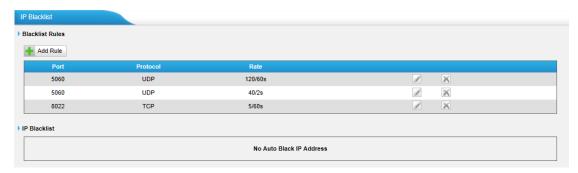


Figure 3-19 IP Blacklist

1) Blacklist rules

We can add the rules for IP blacklist rate as demanded.

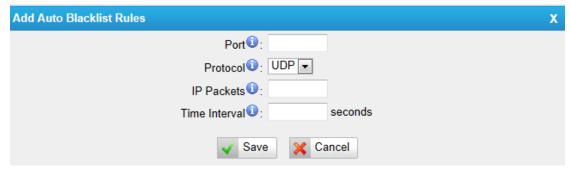


Figure 3-20 Auto Blacklist Rule

Table 3-10 Description of Auto Blacklist Rule Settings

Items	Description
Port	Auto defense port
Protocol	Auto defense protocol. TCP or UDP.
IP Packets	Allowed IP packets number in the specific time interval.
	The time interval to receive IP packets. For example, IP
Time interval	packets 90, time interval 60 means 90 IP packets are
	allowed in 60 seconds.

2) IP blacklist

The blocked IP address will display here, you can edit or delete it as you wish.

3.3 System Preferences

In this page, we can set other system preferences, like the password for admin account, system date and time, firmware update, backup and restore, reset and reboot.

3.3.1 Password settings

The default password is "password". To change the password, enter the new password and click "Save". The system will then prompt you to re-login using



your new password.



Figure 3-21 Password Settings

3.3.2 Date and Time

Set the date and time for NeoGate TA.

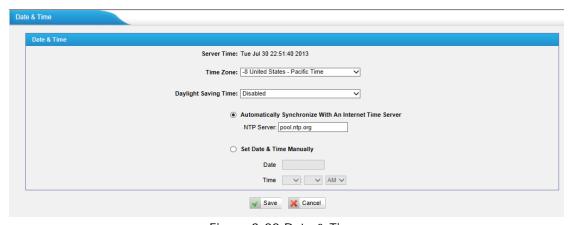


Figure 3-22 Date & Time

Table 3-11 Description of Date & Time Settings

Items	Description
Time Zone	You can choose your time zone here.
Daylight Saving Time	Set the mode to Automatic or disabled.
Automatically Synchronize	Input the NTP server so that NeoGate TA will
With an Internet Time Server	update the time automatically.
Cot Data & Time Manually	You can set the time to your local time manually
Set Date & Time Manually	here.

3.3.3 Email Settings

To send the system alert to email address, please configure the Email settings first, and make sure SMTP test is successful.



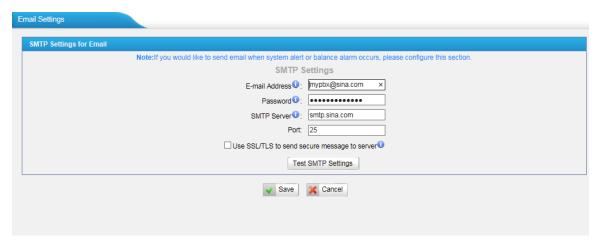


Figure 3-23 Email Settings

Table 3-12 Description of SMTP Settings

Items	Description
	The E-mail Address that NeoGate TA will use to
E-mail Address	send voicemail.
Password	The password for the email address used above
	The IP address or hostname of an SMTP server that
SMTP Server	the NeoGate TA will connect to in order to send
Sivite Server	voicemail messages via email, i.e.
	mail.yourcompany.com.
Port	SMTP Port: the default value is 25.
	If the server of sending email needs to
Use SSL/TLS to send	authenticate the sender, you need to enable this
secure message to server	Note: Must be selected for Gmail or exchange
	server.

After filling out the above information, you can click on the "Test Account Settings" button to check whether the setup is OK.

- 1) If the test is successful, you can use the email safely.
- 2) If test failed, please check if the above information is correct or if the network is proper.

3.3.4 Auto Provision Settings

This feature is used along with MyPBX "NeoGate Provisioning". Users can configure NeoGate TA on MyPBX "NeoGate Provisioning" page.





Figure 3-24 MyPBX NeoGate Provisioning

Add NeoGate

Click "Add NeoGate" and fill in the corresponding information in the pop-up window.

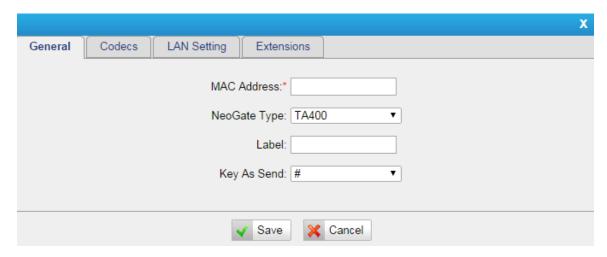


Figure 3-25 General Settings

1) General

·MAC Address

Fill in the MAC address of the NeoGate.

·MAC Address

Select the NeoGate Type.

.Label

Fill in the name of the NeoGate.

·Key as Send

Configure a key as the send key, you can choose #, * or disable this feature.

2) Codecs

In this page, you can set the codecs for the NeoGate.



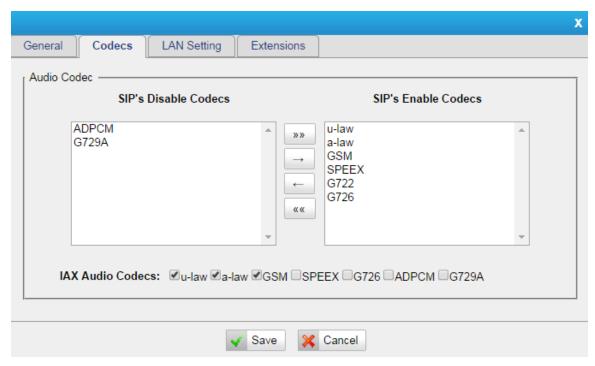


Figure 3-26 Codec Settings

3) LAN Settings

Configure the network of NeoGate on this page.

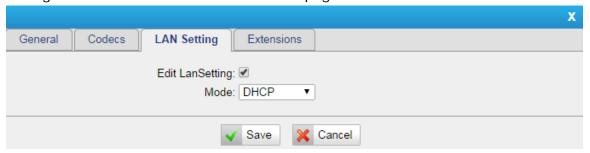


Figure 3-27 LAN Settings

4) Extensions

Configure each line of NeoGate.

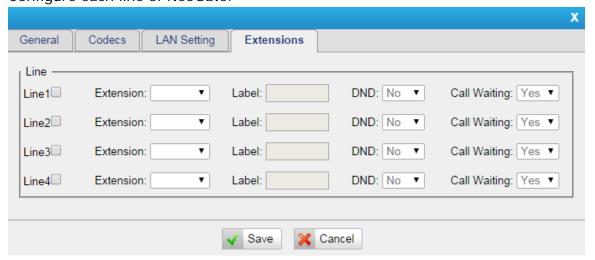




Figure 3-28 Extensions Settings

Two Methods are supported for NeoGate provision: PnP and DHCP.

If DHCP method is selected, you should enable DHCP Server on MyPBX (System → Network Preferences→DHCP Server).



Figure 3-29 NeoGate TA Gateway Auto Provision

3.3.5 Firmware Update

Firmware upgrading is possible through the Administrator Web interface using a TFTP Server or an HTTP URL.

Enter your TFTP Server IP address and firmware file location, then click "Start" to update the firmware

Notes:

- 1. If "Reset configuration to Factory Defaults" is enabled, the system will restore to factory default settings.
- 2. When updating the firmware, please don't turn off the power. Or the system will get damaged.

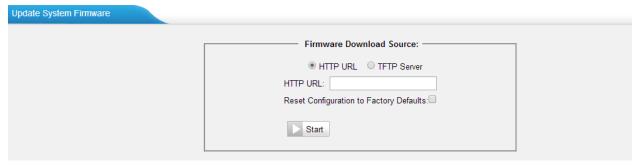


Figure 3-30 Firmware Update

3.3.6 Backup and Restore

We can back up the configurations before resetting NeoGate TA to factory defaults, and then restore it on this package.



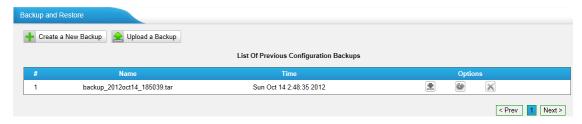


Figure 3-31 Backup and Restore

Notes:

- 1. Only configurations, custom prompts will be backed up.
- 2. If you have updated the firmware version, it's not recommended to restore using old package.

3.3.6 Reset and Reboot

We can reset or reboot NeoGate TA directly in this page.

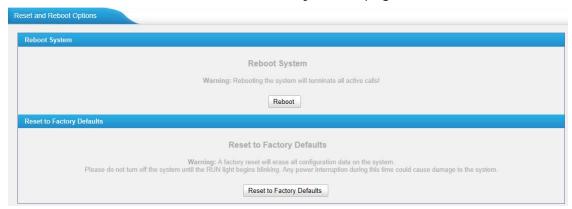


Figure 3-32 Reset and Reboot

·Reboot System

Warning: Rebooting the system will terminate all active calls!

·Reset to Factory Defaults

Warning: A factory reset will erase all configuration data on the system. Please do not turn off the system until the RUN light begins blinking. Any power interruption during this time could cause damage to the system.



4. Gateway

Click Gateway to access the gateway configuration page. Users can configure the details of FXS ports, VoIP settings, gateway settings and advanced settings.

4.1 FXS Port List

4.1.1 FXS Port List

All the FXS ports are listed here. You can edit each FXS port by clicking the "Edit" button. Batch editing the FXS ports number and batch editing FXS ports are available.

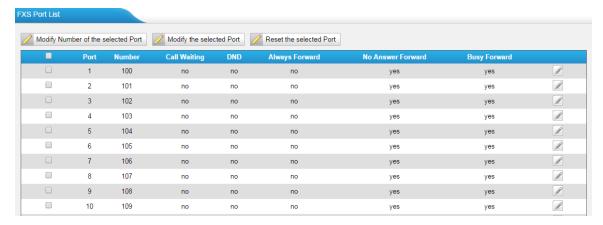


Figure 4-1 FXS Port List

1) Edit the FXS port

Click "Edit" button los to configure the FXS port.



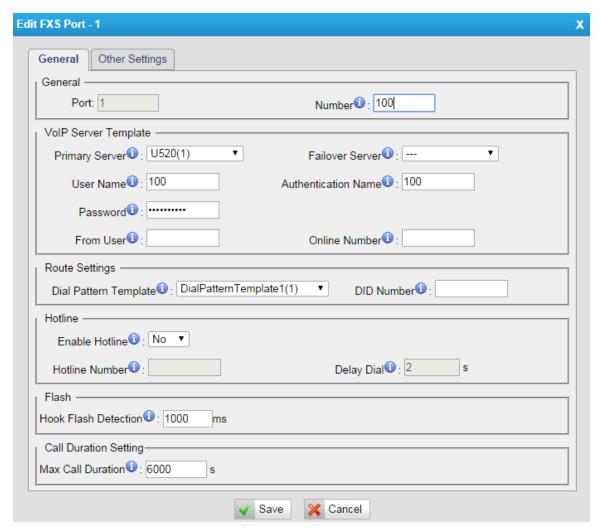


Figure 4-2 Edit FXS Port



> General

Table 4-1 Description of FXS Port General Settings

Items	Table 4-1 Desci	Description
	Port	The corresponding port.
General	Number	User account number.
		Choose the Primary VoIP server, where the
	Primary Server	account will be registered.
VoIP Serer Template	Failover Server	Choose the failover server for the account. This server will be used if the primary server is unavailable.
	User Name	Username of the account. Used for VoIP trunk registration. The user name should be entered if the "Enable Register" is checked on the VoIP Server.
	Authentication Name	Used for SIP authentication. The authentication name should be entered if "Enable Register" is checked on the VoIP Server.
	Password	Password of the SIP account. The password should be entered if "Enable Register" is checked on the VoIP Server.
	From User	All outgoing calls from this SIP Trunk will use the "From User" (in this case the account name for SIP Registration) in From Header of the SIP Invite package. Keep this field blank if not needed.
	Online Number	Define the online number that expected by "Skype Connect" and some other SIP service providers. Leave this field blank if not needed.
Dial Pattern Template		The account will be allowed to make outbound calls according to the selected template.
	Enable Hotline	Select whether to use Hotline or not. Hotline is disabled by default. If this feature is enabled, the system will dial out the hotline number automatically after off-hook.
Hotline	Hotline	Set the number to dial out automatically
	Number	after off-hook.
	Delay Dial	Define how long to make Hotline take effect after you pick up the phone.
Flash		Sets the amount of time, in milliseconds, that a hook flash must remain depressed in



	order for the system to consider it as a valid
	flash event.
	Default: 1000ms.
	Set up the max cull duration for every call of
	this user, but it's only valid for outbound
	calls. Enter "0" or leave this blank empty, the
Call Duration Satting	value would be equal to the max call duration
Call Duration Setting	configured in the General Preferences
	settings page.
	Note: This setting will not be valid for
	internal calls.

> Other Settings

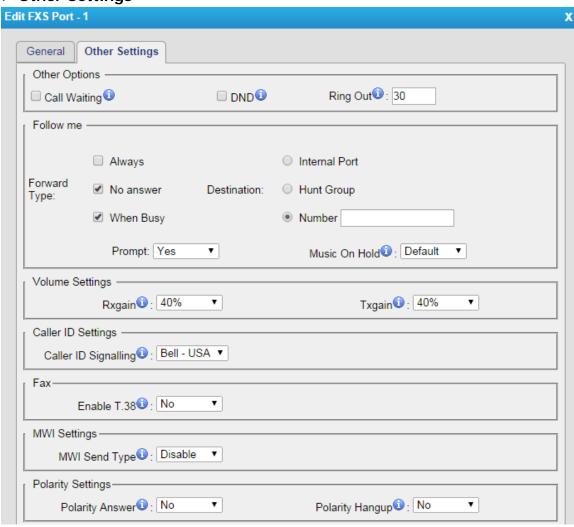


Figure 4-3 FXS Port Other Settings

Table 4-2 Description of FXS Port Other Settings

Items	Description
Call Waiting	Check this option if the extension should have Call Waiting capability. If this option is checked, the "When busy" follow me options will not be available.



DND	Don't Disturb. When DND is enabled for an extension, the
	extension will not be available.
Ring Out	Check this option if you want to customize the ring time. Ring tone
King Out	will stop over the time defined.
	Call forwarding for an extension can be configured here. You can
	also configure call forwarding to a hunt group.
Follow me	Prompt: whether the prompt is played or not when the call is
	transfered.
	Music On Hold: choose the on hold music.
Malana	Settings for the FXS port volume.
Volume	Rxgain: adjust receive gain.
Settings	Txgain: adjust transmit gain.
Caller ID	Select the type of caller ID signaling. FSK and DTMF signal is
Settings	supported.
Fax	If the FXS port is connected to a Fax machine, this option should
гах	be checked.
	Message Waiting Indicator (MWI) refers to a special LED on the
	analog phone, which indicates the voice mail status. There are
8.43.07.1	three lighting methods supported on NeoGate TA gateway: neon,
MWI	FSK and Polarity. Choose the lighting method according to your
Settings	phone. NeoGate TA gateway will light the lamp up once receiving
	a new message; the lamp will goes off if there is no unread voice
	mail.
Ploarity Settings	A polarity signal is required on some systems for reverse polarity
	billing. Select if reverse polarity signal is activated on this FXS
	port. It is not activated by default.
	Polarity Answer: Whether to send polarity signal while picking
	up the phone.
	Polarity Hangup: Whether to send polarity signal while hanging
	up the phone.



2) Batch Edit Number of FXS Ports

Select the FXS ports, and click the button "Modify Number of the selected Port"

Modify Number of the selected Port, you can modify the number of the FXS ports in bulk.

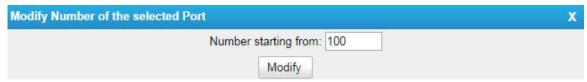


Figure 4-4 Batch Edit Number of FXS Ports

3) Batch Edit FXS Ports

You can also modify the selected FXS ports in bulk by clicking the button "Modify

the selected Port" Modify the selected Port

Check the options that you want to edit. Options that are not checked and modified will remain the default settings.

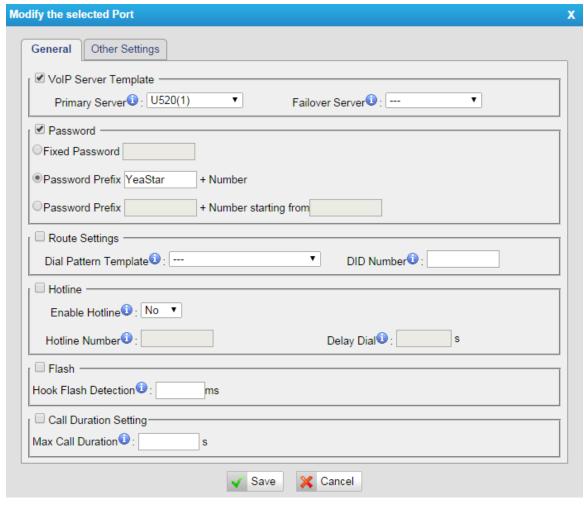


Figure 4-5 Batch Edit FXS ports

3) Batch Reset FXS Ports

You can reset the selected FXS ports in bulk by clicking the button "Reset the



selected Port" Reset the selected Port. The settings for the FXS ports will back to the default.

4.1.2 Hunt Group

Hunt group is a feature that allows a call reaching multiple FXS ports. The FXS ports will act as a single group, called a hunt group. The number of hunt groups is limited by the number of ports each NeoGate TA model has. For example, there are 24 hunt groups on NeoGate TA2400.

Hunt group will be chosen when configuring the FXS port "Follow Me". The hunt group will work when a call reaches the FXS port associated user which is busy or no answer.

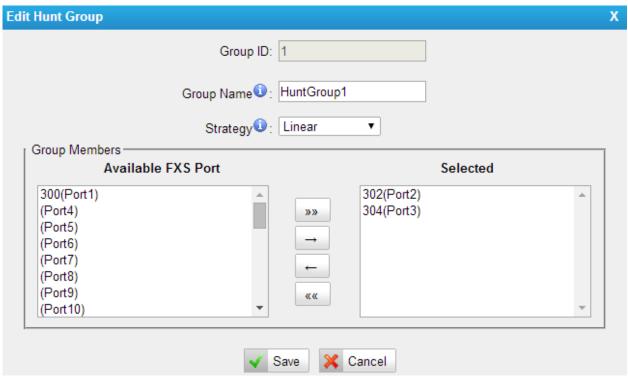


Figure 4-6 Hunt Group



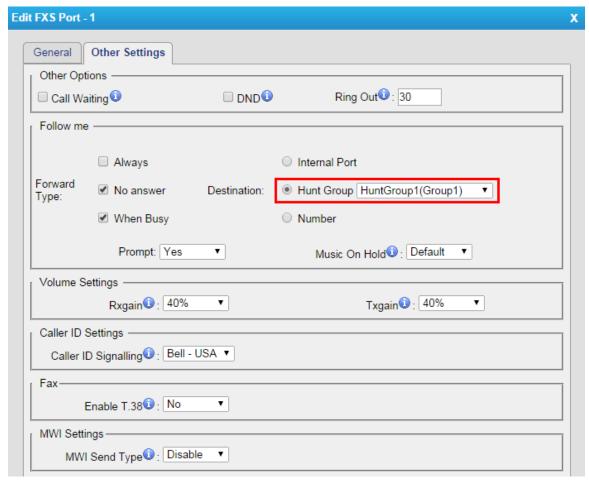


Figure 4-7 Set Hount Group on "FXS Port" Page

There are 3 strategies for hunt group on NeoGate TA.

Simultaneous

All the FXS users will ring at the same time.

Circular

In circular hunting, the calls are processed "round-robin". If a call is delivered to FXS port1, the next call will go to 2, the next to 3. The succession throughout each of the FXS users even if one of the previous local users becomes free. When the end of the hunting group is reached, the hunting starts over at the first local users.

Linear

Linear hunting is also referred to serial hunting. In linear hunting, calls are always delivered to the first FXS users, unless it is busy, then the second, third, and so on.



4.2 VoIP Settings

To integrate with other IPPBX, we need to configure the VoIP settings in NeoGate TA to set up VoIP trunk (SIP and IAX).

4.2.1 VoIP Server Settings

There are some configurable VoIP(SIP/IAX) Server templates on this page. The number of VoIP Server templates is the half of FXS ports on NeoGate. The VoIP server settings help the FXS ports to register to the VoIP server. Once configured, the templates can be chosen on FXS port setting page.

Two modes are available for the VoIP server, we call them VoIP mode and SPS(Service Provider SIP)/SPX(Service Provider IAX) mode.

Vol P Mode:

The FXS port will be registered as one the VoIP server's SIP extensions if "Enable Register" is checked on VoIP Server template.

SPS/SPX Mode:

If "Enable Register" is not checked, the FXS port will be registered as a SPS/SPX trunk to the VoIP Server. One SPS/SPX trunk to NeoGate TA also should be created on the VoIP Server.



Figure 4-8 VoIP Server



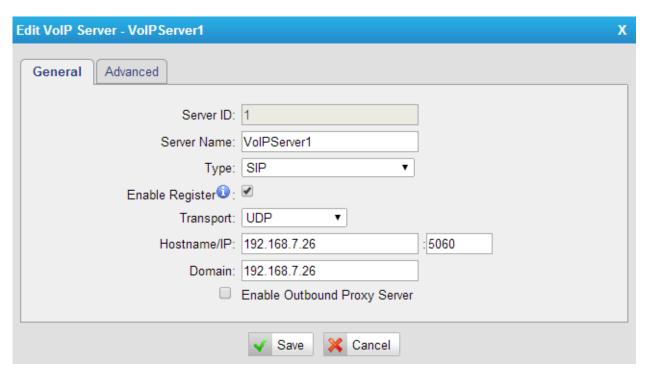


Figure 4-9 VoIP Server Settings



> General

Table 4-3 Description of VoIP Server General Settings

Items	Description	
Server ID	The ID for the VoIP server template.	
Server Name	The name for the VoIP server template.	
Туре	Choose the type of the VoIP server, SIP or IAX.	
	Do not check "Enable Register", if you want to register the	
	FXS port as a Service Provider SIP (IAX) trunk to the VoIP	
	Server. One Service Provider SIP (IAX) trunk to NeoGate TA	
Enabel Register	also should be created on the VoIP Server.	
Enabel Register	Check "Enable Register" if you want to register the FXS port	
	as an extension of the VoIP server. You will need to enter the	
	relevant user name, password, etc in the FXS port page	
	when using this template.	
	This will be the transport method used by the SIP Trunk. This	
Transport	method is given by the SIP trunk provider. The options are	
	UDP (default), TCP ,and TLS.	
Hostname/IP	VoIP server hostname or IP address. 5060 is the standard	
	port number used by SIP protocol. Don't change this part if it	
	is not required.	
Domain	VoIP server hostname. An IP address also can be filled here.	
Enable Outbound	A proxy that receives requests from a client. Even though it	
Proxy Server	may not be the server resolved by the Request-URI.	

> Advanced

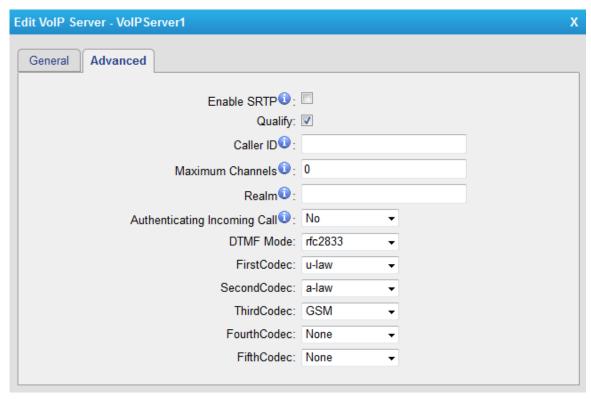




Figure 4-10 VoIP Server Advanced Settings

para la constant de l		
Items	Description	
Enable SRTP	Define if SRTP is enabled for this VoIP server.	
Qualify	Send check alive packets to the SIP provider.	
Collor ID	Specify the caller ID to use when making outbound calls	
Caller ID	over this VoIP server.	
Maxmum Channels	Control the maximum number of simultaneous calls. Set	
Maxmum Channels	as 0 to specify no maximum.	
Dooles	Realm is a string to be displayed to users so they know	
Realm	which username and password to use.	
	When an incoming call reaches TA device and sends	
	INVITE packet to TA, TA responds 401, but the Realm info	
Authenticating	in 401 Response does not match the Realm set on TA VoIP	
Incoming Call	Server, the provider will refuse to authenticate. If you set	
	this option to No, TA will not reply a 401 Response to the	
	provider to authenticate the incoming call.	
DTMF Mode	Set default mode for sending DTMF of this trunk. Default	
DITVII WOOLC	a atting reforman	

Table 4-4 Description of VoIP Server Advanced Settings

4.2.2 Dial Pattern Template

Codec

Dial pattern template specifying how to route the calls from FXS ports to VoIP server extensions or external numbers. The number of dial pattern templates is limited by the number of ports each NeoGate TA model has.

Define the codec for this sip trunk and its priority

setting: rfc2833

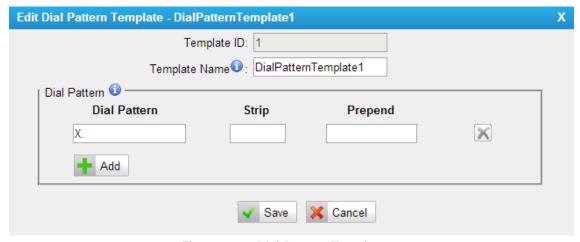


Figure 4-11 Dial Pattern Template

Table 4-5 Description of Dial Pattern Template Settings



Items	Description
Template ID	The ID for this template.
Template Name	A name for this template.
	Calls from the FXS port should match the dial pattern set on
Dial Pattern	this template, or the call cannot be established. Hover the
Diai Pattern	pointer over 0 to read tips.
	Allows the user to specify the number of digits that will be
Strip	stripped from the front of the phone number before the call is
	placed.
Prepend	The digits will be appended to the phone number before the
	call is placed.
DTMF Mode	Set default mode for sending DTMF of this trunk. Default
	setting: rfc2833.
Codec	Define the codec for this sip trunk and its priority.

4.2.3 SIP Settings

This is the SIP settings in NeoGate, including General settings, NAT, Codecs, Qos, Response Code, T.38, and advanced settings.

1) General

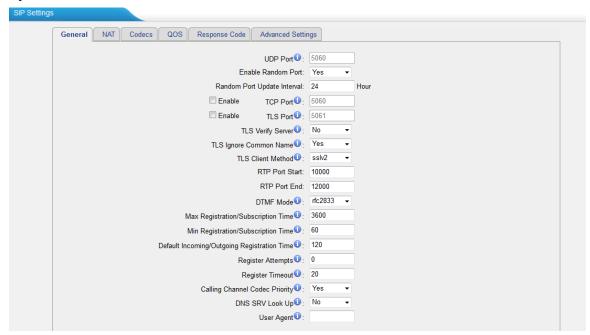


Figure 4-12 SIP General Settings



Table 4-6 Description of SIP General Settings

Items	Description
	•
UDP Port	Port used for SIP registrations. The default is 5060.
Enable Random Port	Enable or Disable Random SIP port.
Random Port Update	Set the Random Port Update Interval.
Interval	
TCP Port	Port used for SIP registrations. The default is 5060.
TLS Port	Port used for SIP registrations. The default is 5061.
TLS Verify Server	When using NeoGate TA as a TLS client, whether or not to verify server's certificate. It is "No" by
	default.
TLS Verify Client	When using NeoGate TA as a TLS server, whether or not to verify client's certificate. It is "No" by default.
TLS Ignore Common	Set this parameter as "No", then common name
Name	must be the same with IP or domain name.
	When using NeoGate TA as TLS client, specify the
TLS Client Method	protocol for outbound TLS connections. You can
	select it as tlsv1, sslv2 or sslv3.
RTP Port Start	Beginning of the RTP port range.
RTP Port End	End of the RTP port range.
TOTAL ETIC	Set the default mode for sending DTMF. Default
DTMF Mode	setting: rfc2833
Max	Maximum duration (in seconds) of a SIP
Registration/Subscription	registration. The default is 3600 seconds.
Time	
Min	Minimum duration (in seconds) of a SIP registration.
Registration/Subscription Time	The default is 60 seconds.
Default	Default Incoming/Outgoing Registration Time: the
Incoming/Outgoing	default duration (in seconds) of incoming/outgoing
Registration Time	registration.
J	The number of SIP REGISTER messages to send to a
Register Attempts	SIP Registrar before giving up. The default is 0 (no
Register Attempts	limit).
	Number of seconds to wait for a response from a SIP
Register Timeout	Registrar before classifying the register has timed
Register Timeout	out. The default is 20 seconds.
	Once enabled, when dialing out via SIP/SPS trunks,
Calling Channel Codec	the codec of calling channel will be selected
Priority	preferentially. If not, NeoGate TA will follow the
	priority order in your SIP/SPS trunks.
Video Support	Support SIP video or no. The default is yes.
Max Bit Rate	
IVIAX DIL KALE	Configure the max bit rate for video stream. The



	default: 384kb/s.
DNS SRV Look Up	Please enable this option when your SIP trunk
	contains more than one IP address.
	To change the user agent parameter of asterisk, the
User Agent	default is "NeoGate TA"; you can change it if
	needed.

2) NAT

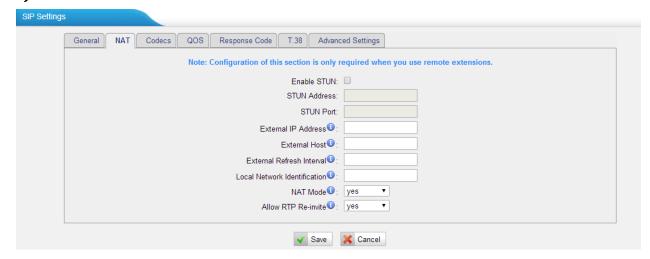


Figure 4-13 NAT Settings

Table 4-7 Description of SIP General Settings

Items	Description	
	STUN (Simple Traversal of UDP through NATs) is a protocol for	
Enable STUN	assisting devices behind a NAT firewall or router with their packet	
	routing.	
	The STUN server allows clients to find out their public address, the	
	type of NAT they are behind and the internet side port associated by	
STUN Address	the NAT with a particular local port. This information is used to set up	
	UDP communication between the client and the VOIP provider and so	
	establish a call.	
External IP	The IP address that will be associated with outbound SIP messages if	
Address	the system is in a NAT environment.	
	Alternatively you can specify an external host, and the system will	
	perform DNS queries periodically.	
External Host	This setting is only required when your public IP address is not static.	
	It is recommended that a static public IP address is used with this	
	system. Please contact your ISP for more information.	
	Used to identify the local network using a network number/subnet	
External	mask pair when the system is behind a NAT or firewall.	
Refresh	Some examples of this are as follows:	
Interval	"192.168.0.0/255.255.0.0": All RFC 1918 addresses are local	
	networks;	



	"10.0.0.0/255.0.0.0": Also RFC1918;
	"172.16.0.0/12": Another RFC1918 with CIDR notation;
	"169.254.0.0/255.255.0.0": Zero conf local network.
	Please refer to RFC1918 for more information.
	Global NAT configuration for the system; the options for this setting
	are as follows:
NAT Mode	Yes = Use NAT. Ignore address information in the SIP/SDP headers
	and reply to the sender's IP address/port.
	No = Use NAT mode only according to RFC3581.
	Never = Never attempt NAT mode or RFC3581 support.
	Route = Use NAT but do not include rport in headers.
	By default, the system will route media steams from SIP endpoints
Allow DTD	through itself. Enabling this option causes the system to attempt to
Allow RTP	negotiate the endpoints to route packets to each other directly,
Reinvite	bypassing the system. It is not always possible for the system to
	negotiate endpoint-to-endpoint media routing.

3) Codecs

We can choose the allowed codec in NeoGate TA, a codec is a compression or decompression algorithm that used in the transmission of voice packets over a network or the Internet. For more information about codec, you can refer to this page: http://en.wikipedia.org/wiki/List_of_codecs

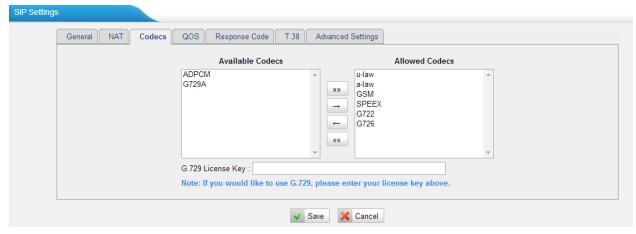


Figure 4-14 Codecs

If you want to use codec G729, we recommend buying a license key and input it here.

4) Qos

QoS (Quality of Service) is a major issue in VoIP implementations. The issue is how to guarantee that packet traffic for a voice or other media connection will not be delayed or dropped due interference from other lower priority traffic. When the network capacity is insufficient, QoS could provide priority to users by setting the value.





Figure 4-15 Qos

Note: It's recommended that you configure the QoS in your router or switch instead of NeoGate side.

5) Response Code

You can change the response code on NeoGate TA to the one you want before sending it to the VoIP server. It helps the VoIP server understands better the exact call status, like busy, no response and others.

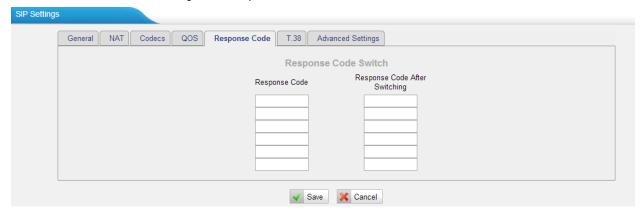


Figure 4-16 Response Code

Note: We don't' recommend configuing this if you are not familiar with the code of call status from the VoIP server.

6) T.38

Settings on this page is for the purpose of improving receiving and sending T.38 FAX.

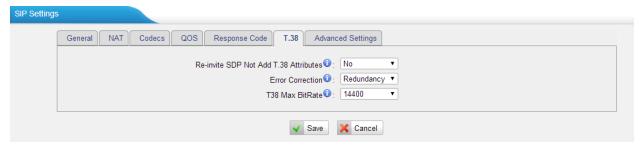


Figure 4-17 T.38 Settings

Table 4-8 Description of T.38 Settings

Items	Description
Re-invite SDP Not Add T.38	If set to Yes, SDP in re-invite packet will not add



Attributes	T.38 attributes.
Error Correction	Re-invite SDP T38FaxUdpEc.
T.38 Max Bit Rate	Set T38 Max Bit Rate.

7) Advanced Settings



Figure 4-18 SIP Advanced Settings

Table 4-9 Description of SIP Advanced Settings

Items	Description
From Field	Where to get the caller ID in SIP packet.
To Field	Where to get the DID in SIP packet.
100 Dinging	It is set when the telecom provider needs.
180 Ringing	Usually it is not needed.
Domata Party ID	Whether to send Remote-Party-ID on SIP
Remote Party ID	header or not. Default: no.
	Whether to allow anonymous registration
Allow Guest	extension or not. Default: no. It's
Allow Guest	recommended that it is disabled for security
	reason.
Pedantic	Enable pedantic parameter. Default: no.
	If enabled, when NeoGate TA rejects "Register"
	or "Invite" packets, NeoGate TA always
Alwaysauthreject	respond the packets using "SIP404 NOT
	FOUND". It's recommended that it is enabled
	for security reason.
	Enable session-timer mode, default: yes. If you
Session-timers	find the call is cut off every 15 minutes every
	time, please disable this.
Session-expires	The max refresh interval
Session-minse	The min refresh interval, which mustn't be
363310H-HIIH36	shorter than 90s.
Session-refresher	Choose the session-refresher, the default is



1 088
Guo.

4.2.4 IAX Settings

IAX is the Internal Asterisk Exchange protocol, you can connect to NeoGate TA or register IAX trunk to another IAX server. It's supported by the asterisk-based IPPBX.

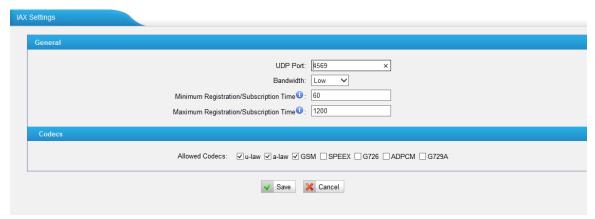


Figure 4-19 IAX Settings

Table 4-10 Description of IAX Settings

Items	Description
Bind Port	Port used for IAX2 registrations. Default is 4569.
Bandwidth	Low/medium/high with this option you can control
	which codec to be used.
Min Registration Time	Minimum duration (in seconds) of an IAX2 registration.
	Default is 60 seconds
Max Registration Time	Maximum duration (in seconds) of an IAX2
	registration. Default is 1200 seconds.
Codecs	Enable the codec you want for IAX communication.



4.3 Gateway Settings

4.3.1 General Preferences



Figure 4-20 General Settings

Table 4-11 Description of General Settings

Items	Description
	Number of seconds to ring a device before
Ring Timeout	executing the "Follow me" configurations. This is a
	gloable setting for all FXS ports.
MAX Call Duration	The absolute maximum amount of time permitted
	for a call. A setting of 0 disables the timeout.
Music On Hold	Set hold music for the system.
Key As Send	Set the "#" or "*" to perform as a send key while
	dialing. Default is "#".
Enable Jitterbuffer	Forces the use of a jitter buffer on the received side
	of a SIP channel. The call quality will be improved if
	this option is enabled.
Jitterbuffer MaxSize	Max length of the jitter buffer. Default is 40
	milliseconds

4.3.2 Feature Codes

There are various feature codes on NeoGate TA. The feature codes are used to acquire the gateway info or activate and inactivate supplementary services. The default feature codes are illustrated below. The parameters for feature codes are configurable.



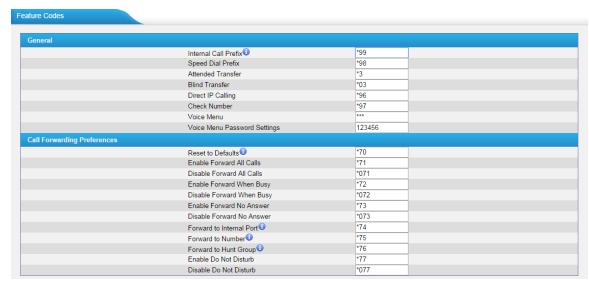


Figure 4-21 Feature codecs

> General

Table 4-12 Description of General Settings

Items	Default	Description
Internal Call Prefix	*99	Dial the feature code and the FXS port number when making calls between the analog phones connected to multiple ports of the NeoGate TA without the use of a VoIP server.
Speed Dial Prefix	*98	The prefix number for applying a speed dialing. The prefix should be added ahead of the speed dial number.
Attended Transfer	*3	Users may transfer an incoming call by dialing *3 on their phone.
Blind Transfer	*03	Users may blind transfer an incoming call by dialing*03 on their phone.
Direct IP Calling	*96	Direct IP calling allows two parties, that is, a FXS Port with an analog phone and another VoIP Device, to talk to each other in an ad hoc fashion without a SIP proxy. The default "Direct IP Calling" feature code is *96.
Check Number	*97	Users can check the analog phone's number by simply dialing the "Check Number" feature code on the phone. The default "Check Number" feature code is *97.
Voice Menu	***	Users may enter the voice prompt menu by pressing *** on their phone.
Voice Menu Password Settings	123456	The password of voice menu is required before entering the advanced settings. The default password is 123456.



> Call Forwarding Preferences

Table 4-13 Description of Call Forwarding Preferences

Items	Default	Description
Reset to Defaults	*70	Users may reset all call forwarding defaults by calling *70 on their phone.
Enabel Forward All Calls	*71	Users may enable always forward by calling *71 on their phone.
Disable Forward All Calls	*071	Users may disable always forward by calling *071 on their phone.
Enable Forward When Busy	*72	Users may enable busy forward by dialing *72 on their phone.
Disable Forward When Busy	*072	Users may disable busy forward by calling *072 on their phone.
Enable Forward No Answer	*73	Users may enable no answer forward by calling *73 on their phone.
Disable Forward No Answer	*073	Users may disable no answer forward by calling *073 on their phone.
Forward to Internal Port	*74	Users may activate call forwarding to port by dialing this feature code, followed by the FXS port number.
Forward to Number	*75	Users may activate call forwarding by dialing this feature code, followed by the extension or phone number to forward all calls to this number. Note: Users may activate Forward to number by dialing *74 + phone number. E.g. by dialing *74501, all calls will be forwarded to extension 501.
Forward to Hunt Group	*76	Users may forward the call to a hunt group by calling *75 on their phone.
Enable Do Not Disturb	*77	Activate "Do Not Disturb". Once activated, the FXS port will reject all incoming calls.
Disable Do Not Disturb	*077	Disable "Do Not Disturb" for the FXS port by pressing the feature code on the phone. It will recover normal ringing upon the arrival of incoming calls.



4.3.3 Speed Dial Settings

There are 128 configurable Speed Dial templates available on NeoGate TA.

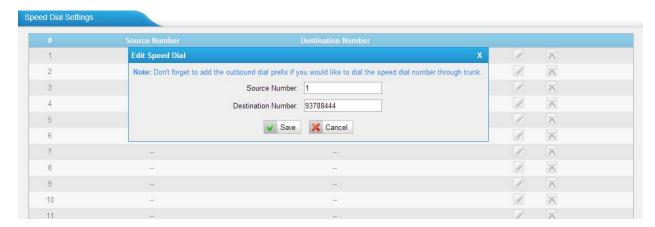


Figure 4-22 Speed Dial

·Source Number

The speed dial number.

·Destination Number

The number you want to call.

E.g. the source number is "1". The destination number is 93788444. The prefix number is *98. You can use an extension with any type to dial *981, then it will call the number 93788444.

Note: Don't forget to add the dial pattern according to the selected dial pattern template.

4.4 Audio Settings

4.4.1 Custom Prompts

We can upload the prompts in this page; you can also download it and save it as a backup.



Figure 4-23 Custom Prompts



The administrator can upload prompts by doing the following:

- 1) Click "Upload Prompt".
- 2) Click "Browse" to choose the desired prompt.
- 3) Click "Upload" to upload the selected prompt.

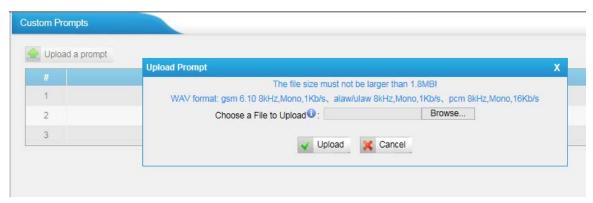


Figure 4-24 Upload A Prompt

Note: The file size must not be larger than 1.8 MB, and the file must be WAV format:

GSM 6.10 8 kHz, Mono, 1 Kb/s; Alaw/Ulaw 8 kHz, Mono, 1 Kb/s; PCM 8 kHz, Mono, 16 Kb/s.

4.4.2 Music on Hold Prompts

In this page, we can upload the music on hold prompts.



Figure 4-25 Music On Hold

The administrator can upload on hold music as follows:

- 1) Click "Upload Music on Prompt".
- 2) Click "Browse" to choose the desired audio file.
- 3) Click "Upload" to upload the selected file.



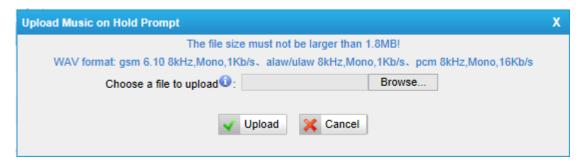


Figure 4-26 Upload Music on Hold Prompt

Note: The file size must not be larger than 1.8 MB, and the file must be WAV format:

GSM 6.10 8 kHz, Mono, 1 Kb/s; Alaw/Ulaw 8 kHz, Mono, 1 Kb/s; PCM 8 kHz, Mono, 16 Kb/s.

4.4.3 System Prompts Settings

There are multilingual system prompts on NeoGate TA. You can download the appropriate language you need. NeoGate TA can support American English, Australian English, Chinese, Dutch, French, Canadian French, German, Greek, Hungarian, Italian, Polish, Portuguese, Brazilian Portuguese, Russian, Spanish, Mexican Spanish, Turkish, Thai, and Korean currently.

Notes:

- 1. Auto-detection is highly recommended. But if you prefer to download via HTTP or TFTP server, please contact the local dealer for the prompts.
- 2. When update successfully, just click "Apply Changes" on Web then it will take effect, there is no need to reboot.



Figure 4-27 System Prompts Settings Page



4.5 Advanced Settings

4.5.1 Tone Zone Settings

Advanced ring tones for all the FXS ports can be configured on this page. There are pre-grogrammed tone zone settings for some countries and regions. Users can simply find and select thier country to get tone zone settings for the gateway.



Figure 4-28 Tone Zone Settings

Users may also configure the tone zone according to the national standard by selecting "User custom for Tone Zone". Please refer to the document below and configure the tone zone settings on NeoGate TA:

http://www.itu.int/ITU-T/inr/forms/files/tones-0203.pdf



Figure 4-29 Customize Tones

Table 4-14 Description of Tone Zone Settings

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Items	Description
Country	Choose the country to get pre-programmed tone zone
	settings or choose "User custom for Tone Zone" to configure
	the settings manually.
Ring Cadence	Configuration option for all FXS ports ring cadence for all
	incoming calls.



Dial Tone	Prompt tone of off-hook dial tone.
Ringback Tone	The tone sent to caller when ringing is on.
Busy Tone	Used for busy line prompt.
Call-Waiting Tone	Used for notification in call waiting.
Congestion Tone	Used to indicate that an invalid code has been dialed, or that
	all circuits (trunks) are busy and/or the call is unroutable.
2nd Dial Tone	Used for the second stage dial tone.



4.5.2 RADIUS Settings

NeoGate TA supports RADIUS (Remote Authentication Dial In User Service) protocol. RADIUS feature is mainly for billing purpose on NeoGate TA. There are primary and secondary RADIUS server configurations available. Once the primary server is unreachale, the RADIUS requests will be sent to the secondary server.

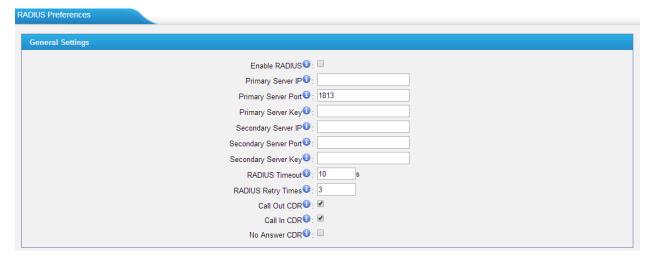


Figure 4-30

Table 4-15 Description of RADIUS Settings

Items	Description
Enable RADIUS	Enable RADIUS on NeoGate TA.
Primary Server IP	Set IP address of the primary server.
Primary Server Port	Default is 1813. Specifies the port to be used for the primary
	RADIUS account.
	Specifies the key to be used to authenticate the RADIUS
Primary Server Key	connection to the Primary server. The key is set according to
	the RADIUS server.
Socondry Sorver ID	Set IP address of the primary server. The second sever will
Secondry Server IP	be activated the primary one becomes unusable.
Socondry Sorver Port	Default is 1813. Specifies the port to be used for the second
Secondry Server Port	RADIUS account.
	Specifies the key to be used to authenticate the RADIUS
Secondry Server Key	connection to the second server. The key is set according to
	the RADIUS server.
	Specifies the number of seconds to wait for a response after
	the RADIUS message is sent to the server. Default: 10
RADIUS Timeout	seconds.
	The retransmission will be performed if there is no response
	after the timeout.
RADIUS Retry Times	Specifies the number of times the RADIUS messages will



	send to the RADIUS server before giving up. Default: 3.
Call Out CDR	Whether to send "Call Out CDR" to RADIUS server or not.
Call In CDR	Whether to send "Call In CDR" to RADIUS server or not.
No Answer CDR	Whether to send "Call Out CDR" to RADIUS server or not.

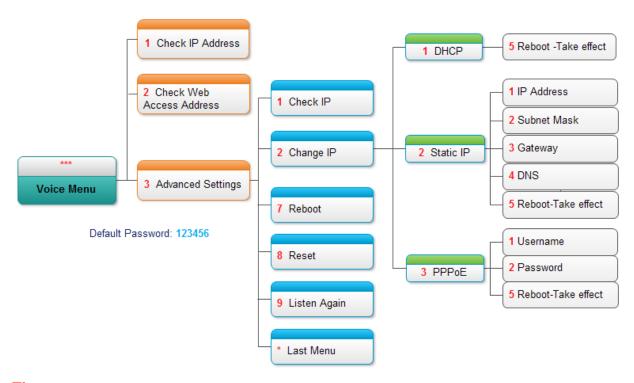
Part II. Basic Operations

Here are instructions about how to operate on analog phones connected to NeoGate TA to use some features.

1. NeoGate TA Voice Menu

NeoGate TA provides a voice menu to guide you to configure the network settings for the device. You need to press *** on the analog phone which is connected to NeoGate TA's FXS port to enter the voice menu.

The default password to enter "Advanced Settings" is 123456. You can change the password on NeoGate TA Web page. (Gateway→Gateway Settings→Feature Codes→Voice Menu Password Settings)



Tips:

- 1. "9" listen to the prompt again.
- 2. "*" returns to the last menu.



2. Inter-port Call

NeoGate TA supports inter-port calls between the phones which are connected to FXS ports of NeoGate TA. Achieve it by simply pressing the "Internal Call Extra" feature code (default *99) + the FXS port number on the phone.

Note: You need add digit 0 before the FXS port number if the port number is between 1 and 9.

For example, to make a call from the phone which is connected to NeoGate TA FXS port 1 to another phone which is connected to FXS port2, you need to dial *9902 on the phone.

The user connected to port 16 can be reached by dialing *9916 on the phone.

3. Call Hold

An active call can be held by pressing "flash" key on the analog phone. Press the key again to resume the call.

If there is no "flash" key on the phone, you can use "hook flash" (quickly toggle on-off hook) to hold a call. The call may be disconnected by chance if using "hook flash".

4. Call Waiting

If the call waiting is activated for the FXS port, the FXS user who is in a call can hear a call waiting tone "beep" when there is a new incoming call. The user can press "hook flash" to toggle between the active call and the incoming call.

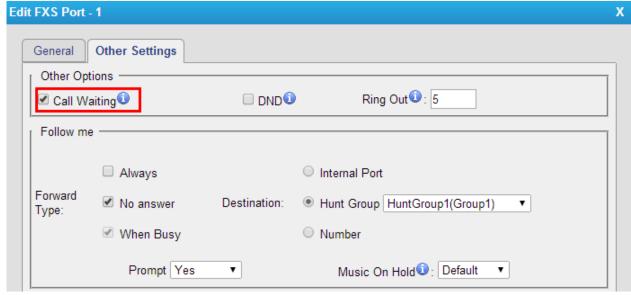


Figure 1-1 Enable "Call Waiting" on FXS Port Page



5. Call Transfer

Blind transfer and attended transfer are supported on NeoGate TA. Users can achieve call transfer by pressing the feature code during the call.

Blind Transfer

Default feature code: *03

- 1. Dial "*03" during the call;
- 2. Dial the called number after hearing a prompt "transfer";
- 3. The call will be transferred after the number is dialed.

Attended Transfer

Default feature code: *3

- 1. Dial "*3" during the call;
- 2. Dial the called number after hearing a prompt "transfer";
- 3. Talk to the transfer recipient;
- 4. The call will be transferred after hanging up.

6. Three-party Conference

Users can make a three-party conference call on NeoGate TA.

Assuming that A and B are in the call and B wants to invite C to a conference. Please check the following steps of how to establish a conference.

- 1. B presses "flash" key or taps hook flash to get a dial tone; A will hear the on hold music meanwhile;
- 2. B dials C's number;
- 3. If C answers the call, then B presses "flash" key or tap hook flash, the conference will be established, including A, B, and C.
- 4. If there is no answer on C, A can press "flash" key or tap hook flash to resume the call with A.
- 5. C will be ejected if B presses "flash" key or taps flash hook during the conference call.

7. Direct IP Call

Direct IP call allows two parties, that is, a FXS Port with an analog phone and another VoIP Device, to talk to each other in an ad hoc fashion without a SIP proxy. The default "Direct IP Calling" feature code is *96.

Example:

Target IP address: 192.168.2.123

Destination port: 5060

To call the IP phone, you should dial *96192*168*2*123*5060 on the analog



phone.

8. Change NeoGate TA's IP Address Using Analog Phones

By default, NeoGate TA obtain a dynamic IP address from the DHCP server. You can change the device's IP address via the analog phone which is connected to the FXS port.

There are 3 modes supported on NeoGate TA access the internet.

- DHCP
- Static IP Address
- PPPoE

Here we introduce how to set a static IP address for NeoGate TA.

IP address: 192.168.10.125 Subnet mask: 255.255.255.0

Gateway: 192.168.10.1

DNS: 8.8.8.8

- 1. Press *** to enter the voice menu.
- 2. Press 3 to enter the "Advanced Settings".
- 3. Enter the password follow by the pound key: 123456# (The default password is 123456).
- 4. Press 2 to change the IP address.
- 5. Press 2 to enable the static IP.
- 6. Press 1 to change the IP address and follow by the new IP address (1192*168*10*125).
- 7. Press 2 to change the subnet mask and follow by the new subnet mask (2255*255*255*0).
- 8. Press 3 to change the gateway and follow by the new gateway (3192*168*10*1).
- 9. Press 4 to change the dns and follow by the new dns (48*8*8*8).
- 10. Press 5 to reboot the device.
- 11. After reboot, you can access the device by the new IP address.

[End]

