NeoGate TB400 User Manual

Version 6.11.43.14





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1. Introduction

NeoGate Gateway for Maximum Efficiency & Cost Savings NeoGate TB400 is a device for connecting BRI Network to VoIP Network directly, which can support two-way communication: BRI to VoIP or VoIP to BRI. It is the best solution ever to connect IP-based telephone systems, soft switches, and IP-PBXs to BRI network.

1.1 Hardware Specification

1.1.1 Exterior Appearance

1) Front Side



No.	Identifying
①Power	Green shining: Connected, correct function.
2 RUN	Green Light : Indicates the server system is in working order
③Ready	Green Light : Indicates the system is ready.
④BRI 1	Orange Shining: BRI 1 connected



5BRI 2	Orange Shining: BRI 2 connected
6BRI 3	Orange Shining: BRI 3 connected
⑦BRI 4	Orange Shining: BRI 4 connected

2) Back Side



Figure 1-2 NeoGate TB400 Back

2. System set up

2.1 Installation of BRI Module.

Open the case of NeoGate, adjust the pins to the slots and insert then insert the spins into the slots.

Note1: Please turn off the device when installing the modules.

2.2 Ethernet Line Connection

NeoGate provides two 10/100M Ethernet ports with RJ45 interface and LED indicator. Plug Ethernet line into NeoGate's Ethernet port, and then connect

the other end of the Ethernet line with a hub, switch, router, LAN or WAN. Once connected, check the status of the LED indicator. The orange LED indicates connected successfully, while green indicates the port is working property

2.3 Power Supply Connection

NeoGate utilizes the high-performance switch power, which supply the enough voltage and electrical energy that required by NeoGate system. AC Input: 100~240V DC Output: 12V,1A

Please follow the steps below to connect the NeoGate unit to a power outlet:

Connect the small end of the power cable to the power input port on the NeoGate back panel, and plug the other end of the cable into a 100VAC power outlet.

Check the Power LED on the front panel. A solid green LED indicates that power is being supplied correctly.

3. NeoGate Configuration

3.1 Manager Login

From your web browser, input the IP address of the NeoGate server. If this is the first time you are configuring NeoGate, please use the default settings below:

IP Address: http://192.168.5.150 Username: admin Password: password



				- · ×
A ttp://192.168.	10.239/ ♀ 🗟 ♂ × 🥔 192.168	10.239 ×	1000	<u> </u>
NeoGate				Î
	NeoGate TG200 Configuration Pan	el		
∆7 Well		User L	_ogin	
		Username:		=
		Password:		-
		Language: English	-	
		Login	Reset	

Figure 3-1

3.2 BRI Settings

3.2.1 Module List

You can check the information of the status of BRI modules and trunks. Click edit to configure the trunk.

NeoGate								Logout
BRI Settings	Module List 🕸							
Module List	Status	Trunk Name	Port	Signalling	Max. Call Duration(min)	Call Duration(min)	Clear Stat.	
VoIP Settings	OK	BRI1	Port 1	BRI-NET	0	0	0	🔊 Edit
SIP Settings	OK	BRI2	Port 2	BRI-CPE	0	0	0	🔊 Edit
Advanced Settings	Disconnected	BRI3	Port 3	BRI-CPE	0	0	0	🔊 Edit
Route Settings 🛞	Disconnected	BRI4	Port 4	BRI-CPE	0	0	0	🔊 Edit
Route List								
DOD List Blacklist								
System Settings 🙁								
Network Settings								
Password Settings								
Date and Time								
Reset and Reboot								
Firmware Update								
Reports 🙁								
Call Logs								
System Info								
Customer Feedback								

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Figure 3.2.1

NeoGate Status Description: Status



OK: The port is idle.

Disconnected: No line connects to this port.

3.2.2 BRI Settings

3.2.2.1 Basic Settings

Edit BRI Trunk: BRI1	х
Basic Settings	
Trunk Name	BRI1
Signaling	BRI-NET -
Default DOD	
Max. Call Duration(min) 🛈	0
Clear Stat. 🛈	0 -



Trunk Name: A name of this Trunk. Ex: 'BRI1' etc.

Signaling: You can choose the signaling of BRI. It supports BIR-NET, BRI-NET-PTMP, BRI CPE, BRI-CPE-PTMP.

Default DOD: You can set the default DOD here.

Max. Call Duration (min)/Per Month: Defines the maximum call duration within a month through this SIM card. (0 it means unlimited)

Clear Stat: Set the day in a month on which the statistics data on Max. Call Duration are deleted. This parameter is ignored if set to 0.

3.2.2.2 CallerID Prefix Settings

International Prefix:	
National Prefix:	
Local Prefix:	
Private Prefix:	
Unknown Prefix:	

You can add prefix to the incoming call here.

Figure 3.2.2.2

3.2.2.3 Advanced Settings

Advanced Settings					
Switch Type 🛈 :	euroisdn	•]	PRI Indication 🛈 : Inband 🔹	
PRI Dialplan 🛈 :	unknown	•]	Enable Facility 🛈 : Enabled 🚽	
PRI Local Dialplan 🛈 :	unknown	•]	Nsf 🛈 : none 🔻	
Reset Interval 🛈 :	never	•	s	Echo Cancellation 🛈 : Off 🗾 👻	
Overlap Dial 🛈 :	no	•		Hide CallerID 🚺: no 🔻	

Figure 3.2.2.3

Switch Type:
National: National ISDN type2 (common in US)
ni1: National ISDN type1
dms100: Nortel DMS100
4ess: AT&T 4ESS
5ess: Lucent 53SS
Euroisdn: Euro ISDN
Qsig: Minimalistic protocol to build a 'network' with two or more pbx of different vendors.

·PRI Dialplan

Sets an option required for some (rare) switches that require a dialplan parameter to be passed. This option is ignored by most PRI switches. It may be necessary on a few pieces of hardware. This option can almost always be left unchanged from the default.

·PRI Local Dialplan

Sets an option required for some (rare) switches that require a dialplan parameter to be passed. This option is ignored by most PRI switches. It may be necessary on a few pieces of hardware. This option can almost always be left unchanged from the default.

·Reset Interval

Set the time in seconds between restart of unused channels. Some PBXs don't like channel restarts. so set the interval to a very long interval e.g. 10000000 or 'never' to disable *entirely*. If you are in Israel, the following is important: As Bezeq in Israel doesn't like the B-Channel resets happening on the lines, it is best to set the resetinterval to 'never' when installing a box in Israel. Our past experience also shows that this parameter may also cause issues on local switches in the UK and China.



·Overlap Dial

Whether MyPBX can dial this switch using overlap digits. If you need Direct Dial-in (DDI; in German \"Durchwahl\") you should change this to yes, then MyPBX will wait after the last digit it receives.

·PRI Indication

Tells how MyPBX should indicate Busy() and Congestion() to the switch/user. Accepted values are:

inband: MyPBX plays indication tones without answering; not available on all PRI/BRI subscription lines

outofband: MyPBX disconnects with busy/congestion information code so the switch will play the indication tones to the caller. Busy() will now do same as setting PRI_CAUSE=17 and Hangup().

·Enable Facility

To enable transmission of facility-based ISDN supplementary services (such as caller name from CPE over facility), enable this option.

•Nsf

Used with AT&T PRIs.If outbound calls are being rejected due to \Mandatory information element missing $\$ and the missing IE is 0x20, then you need this setting.

•Echo Cancellation Disable or enable echo cancellation.

•Hide CallerID Whether to Hide Caller ID.

3.2.2.4 DOD settings

Spare DOD for each numbers, which is higher than the default DOD in priority

DOD:888 Associated Number:75266655	8				
DOD: 889 Associated Number: 75266656	8				
DOD: 890 Associated Number: 75266657	8				
DOD: 891 Associated Number: 75266658	8				
DOD: 892 Associated Number: 75266659	8				
Create 5 DOD start from Create 5 Associated Number start from T5266655	∱Add DOD				
Note: If you want to set continuous associated numbers to show continuous DOD numbers, you can choose the count of DOD number and associated number first, and then input starting number respectively. The count of the DOD number must be only one or equal to the count of the associated number.					
Save X Cancel					

Figure 3.2.2.4

3.3 VOIP Settings

3.3.1 Trunks

We can create multiply trunks here to the provider in this page

3.3.1.1 VOIP Account

In this mode, we can create sip account in NeoGate, which will be regarded as SIP server, so that other IP PBX or soft switch can register to NeoGate directly



Edit Trunk: PBX	х
Trunks	
VoIP Account	
Name:	PBX
Туре:	SIP 🔻
Transport:	UDP 🔻
Account:	6001
Password:	753963
Enable SRTP 🛈 :	
Enable IP Restriction 🛈:	
Permitted'IP address/Subnet mask' 1 🛈:	192.168.4.139/255.255.255.0
Permitted'IP address/Subnet mask' 2 🛈 :	
Permitted'IP address/Subnet mask' 3 🛈 :	
Permitted'IP address/Subnet mask' 4 🛈 :	
C VolP Trunk	
C Service Provider	
⊗ Advanced Settings	
✓ Save	X Cancel

Figure 3.3.1.1

· Name

Define the name of this trunk

• Type

Choose the type of this trunk, SIP or IAX, the default is SIP

• Transport

Define the transport here, UDP, TCP or TLS, the default is UDP (recommend)

• Account

The user name you defined to register this trunk

Password

The password to register this trunk

•Enable SRTP

Define whether SRTP is enabled

•Enable IP restriction

Check this option to enhance the VoIP security for NeoGate. If this option is enabled, only the permitted IP or Subnet mask will be able to register. In this way, the VoIP security will be enhanced.





Permitted 'IP address/Subnet mask'

The input format should be 'IP address'+'/'+'Subnet mask'. e.g."192.168.5.100/255.255.255.255" means only the device whose IP address is 192.168.5.100 is allowed to register this extension number. e.g."192.168.5.0/255.255.255.0" means only the device whose IP address is 192.168.5.XXX is allowed to register this extension number

3.3.1.2 Voip Trunk

'voip trunk', which is used to register to another SIP Server or SIP Proxy.

•Name

Define the name of this Voip trunk

· Type

Choose the type of this trunk, SIP or IAX, the default is SIP

· Transport

Define the transport here, UDP, TCP or TLS, the default is UDP (recommend)

· Hostname/IP

Service provider's 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

Put the VoIP provider's server domain name here.

• Username

Put the username of SIP account. Used for SIP trunk registration.

Authorization name

Used for SIP authentication. Leave this blank if not required.

Password

Put the password of SIP account.

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.

· Online number

Define the online number that expected by 'Skype Connect' and some other SIP service providers. Leave this field blank if it's no required.



Outbound Proxy Server

A proxy that receives requests from a client, even though which may not be the server resolved by the Request-URI.

•Enable SRTP

Define whether SRTP is enabled

·Caller ID

Define the default caller id of this trunk (default DOD)

Edit Trunk: PBX			х
Trunks			
C VolP Account			
VolP Trunk			
Name:	PBX		
Туре:	SIP 🔻		
Transport:	UDP 🔻		
Hostname/IP:		: 5060	
Domain:			
Username:			
Authorization name:			
Password:			
From User:			
Online Number 🛈 :			
Enable Outbound Proxy Server :			
Enable SRTP 🛈 :			
Caller ID 🛈 :			

Figure 3.3.1.2

3.3.1.3 Service Provider

Name

Define the name of this Voip trunk

• Type

Choose the type of this trunk, SIP or IAX, the default is SIP

Transport

Define the transport here, UDP, TCP or TLS, the default is UDP (recommend)

· Hostname/IP

Service provider's hostname or IP address.



Note: 5060 is the standard port number used by SIP protocol. Don't change this part if it is not required.

Edit Trunk: PBX	x
Trunks	
C VoIP Account	
C VolP Trunk	
Service Provider	
Name:	PBX
Туре:	SIP 💌
Transport:	UDP -
Hostname/IP:	: 5060

Figure 3.3.1.3

3.3.1.4 Advanced Setting

·Max. Call Duration (min)

Set the maximum call duration here. 0 means no limit.

·Clear Stat

The date of each month the system will clear the call history.

•DTMF Mode

You can set the DTMF mode here (rfc2833,info,inband,auto, default is rfc2833).

·Max. Channels

Set the maximum channels here. 0 means no limit.

Allowed Codecs

Choose the codes allowed here. (Default u-law, a-law, GSM)

Advanced Settings	
Max. Call Duration(min):	0
Clear Stat.:	0 -
DTMF Mode:	RFC2833 -
Max. Channels:	2
Allowed Codecs:	✓ u-law ✓ a-law ✓ GSM SPEEX G726 ADPCM G729





3.3.1.5 DOD settings

DOD: 888 Associated Number: 7526655	7
DOD: 889 Associated Number: 7526656	
DOD: 890 Associated Number: 7526657	
DOD: 891 Associated Number: 7526658	
DOD: 892 Associated Number: 7526659	
Create 5 DOD start from Create 5 Associated Number start from Create 5 Associated Number start from Create 5 Associated numbers to show continuous DOD numbers, you can choose to show continuous do bod choose to show continuous do bod choose to show cont	he
count of DOD number and associated number first, and then input starting number respectively. The count of the DOD number must be only one or equal to the count of the associated number.	

Figure 3.3.1.5

Spare DOD for each numbers, which is higher than the default DOD in priority

3.3.2 SIP settings

3.3.2.1 General

NeoGate	Logout
BRI Settings	▶ SIP Settings Φ
Module List	General
VoIP Settings	UDP Port 5060
Trunks SIP Settings IAX Settings	TCP Port Enable
Route Settings	TLS Port Enable
Routes List Blacklist	RTP Port Start: 10001
Notwork Sottings	RTP Port End: 10200
LAN Settings	Max Registration/Subscription Time 1 : 3600
Firewall	Min Registration/Subscription Time 🛈: 60
VLAN Settings	Default Incoming/Calling Registration Time 0: 3600
VPN Settings	Register Attempts 0
DDNS Settings	Register Timeout 🛈 : 20

Figure 3.3.2.1



·UDP Port

Port use for sip registrations, Default is 5060.

•RTP Port Start Beginning of RTP port range

•RTP Port End End of RTP port range

Max Registration/Subscription Time

Put down the maximum duration (in seconds) of a SIP registration. Default is 3600 seconds.

·Min Registration/Subscription Time

Put down the minimum duration (in seconds) of a SIP registration. Default is 60 seconds.

·Default Incoming/Outgoing Registration Time

Default Incoming/Outgoing Registration Time: Default is 30 seconds.

·Register Attempts

The number of SIP REGISTER messages to send to a SIP Registrar before giving up. Default is 4 (no limit).

·Register Timeout

Put down the number of seconds to wait for a response from a SIP Registrar before timed out. Default is 20 seconds.

3.3.2.2 NAT

Note: Configuration of this section is only required when using remote extensions.



NAT	
Note: Configuration of this section is o	nly required when using sip account.
Enable STUN:	
STUN Address:	
STUN Port:	
External IP Address	
External Host	
External Refresh Interval	
Local Network Identification 🛈:	
NAT Mode 🛈 :	yes 🔻
Allow RTP Reinvite 🛈 :	yes 👻

Figure 3.3.2.2

•Enable STUN

STUN (Simple Traversal of UDP through NATs) is a protocol for assisting devices behind a NAT firewall or router with their packet routing.

·STUN Address

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 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 Address

Put down the IP address that will be associated with outbound SIP messages if the system is in a NAT environment.

·External Host

Alternatively you can specify an external host, and the system will perform DNS queries periodically.

This setting is only required when your public IP address is not static. It is recommended that a static public IP address be used with this system. Please contact your ISP for more information.

·External Refresh Interval

If an external host has been supplied, you may specify how often the system will perform a DNS query on this host. This value is specified in seconds.

·Local Network Identification

It's used to identify the local network using a network number/subnet mask pair when the system is behind a NAT or firewall.

Some examples of this are as follows:

'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.

•NAT Mode

Global NAT configuration for the system. The options for this setting are as follows:

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 report in headers.

·Allow RTP Reinvite

By default, the system will route media steams from SIP endpoints through itself. Enabling this option causes the system to attempt to negotiate the endpoints to route packets to each other directly, bypassing the system. It is not always possible for the system to negotiate endpoint-to-endpoint media routing.

3.3.2.3 Codes

If G729 is enabled, please input the license here.



Figure 3.3.2.3

3.3.2.4 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.

TosSip:CS0CosSip:0~TosAudio:CS1CosAudio:1~	QOS 🙈					
TosAudio: CS1 CosAudio: 1	TosSip:	CS0	•	CosSip:	0	•
	TosAudio:	CS1	•	CosAudio:	1	-



Figure 3.3.2.4

3.3.2.5 Advance settings

Define where to get the DID and the caller ID

Advanced Settings ⊗		
From Field:	From	•
To Field:	INVITE	•
✓ Save	🗙 Cancel	

Figure 3.3.2.5

From field

Define where to get the caller ID

·To field

Define where to get the DID

3.3.3 IAX settings

If the trunk you have created is IAX, you need configure some details here

3.3.3.1 General

►	NAX Settings 🖏	
	General	
	Bind Port:	4569
	Bandwidth:	Low -
	Minimum Registration Time:	60
	Maximum Registration Time:	1200
	Save	X Cancel
	F: 2.2.2	

Figure 3.3.3

·Bind Port

Port use 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 a IAX2 registration. Default is 60 seconds.

•Max Registration Time

Maximum duration (in seconds) of a IAX2 registration. Default is 1200 seconds.

3.4 Route settings

3.4.1 Routes list

Calling routing mainly works for guides outgoing/incoming calls to go through trunks.

NeoGat	te					Logout
BRI Settings Module List	۲	Manage Calling Rou New Calling Route	utes 🗘	Routes	s List	
VoIP Settings Trunks SIP Settings IAX Settings	۲	Route Name DefaultBriToSip DefaultSipToBri	DID Number 	Dial Pattern X. X.	Inbound Caller Pattern 	 ▶ Edit ★ Delete ▶ Edit ★ Delete
Route Settings Routes List	۲					

Figure 3.4.1

Click 'New Calling Route' and fill in the corresponding information in the popup window.

3.4.1.1 New calling route

·Route Name

Put the name of this Calling Route. ex: 'Local' or 'Long Distance' etc.

·Days of week

The days in a week when is allowed to make calls via this route.

·Time



The scope of time which is allowed to make calls via this route.

·Dial pattern

Outbound calls that match this dial pattern will use this outbound route. There are a number of dial pattern characters that have special meanings:

- X : Any Digit from 0-9
- **Z** : Any Digit from 1-9

N : Any Digit from 2-9

[12345-9] : Any digit in the brackets (in this example, 1,2,3,4,5,6,7,8,9) The `.' Character will match any remaining digits. E.g." 9011." will match any phone number that starts with 9011, excluding 9011 itself.

The '!' will match any remaining digits, and causes the matching process to complete as soon as it can be determined that no other matches are possible.

Example 1: **NXXXXXX** will match any 7 digits phone number.

Example 2: **1NXXNXXXXX** will match a phone number starting with a 1, followed by a 3-digit area code, and then 6 digit number.

·Strip digits from front

Allows the user to specify the number of digits that will be stripped from the front of the phone number before the call is placed. For example, if users must press 0 before dialing a phone number, one digit should be stripped from the dial string before the call is placed.

Prepend these digits before dialing

These digits will be prepended to the phone number before the call is placed. For example, if a trunk requires 10 digit dialing, but users are more comfortable with 7 digit dialing, this field could be used to prepend a 3 digit area code to all 7 digit phone numbers before calls are placed. When using analog trunks, a 'w' character may also be prepended to provide a slight delay before dialing.

password

Set password for this route

Strategy

Define the strategy to select trunk. Default: Select the trunk from the first. Sequence: Select the trunk next the last used. Balance: Select the trunk last recently used.

·Inbound Caller Pattern

Inbound calls that match this dial pattern will use this route. The rule is the same as Dial Pattern.



·DID Number

Define the expected DID Number if this trunk passes DID on incoming calls. Leave this field blank to match calls with any or no DID info. Only service provider, E1 trunks, BRI trunks or SIP trunks need to be configured with this setting.

You can also use pattern matching to match a range of numbers. The following patterns may be used:

X : Any Digit from 0-9

Z : Any Digit from 1-9

N : Any Digit from 2-9

[12345-9] : Any digit in the brackets (in this example, 1,2,3,4,5,6,7,8,9)

The '.' Character will match any remaining digits. For example, 9011. will match any phone number that starts with 9011, excluding 9011 itself.

The '!' will match none remaining digits, and causes the matching process to complete as soon as it can be determined that no other matches are possible.

Example 1: **NXXXXXX** will match any 7 digits phone number.

Example 2: **1NXXNXXXXX** will match a phone number starting with a 1, followed by a 3-digit area code, and then 6 digit number.

For more information, please refer to **Appendix G How to Use DID.**

·Direct/DID Associated Number

Define number for DID number. You can only input number and `-`in this field, and the format can be xxx or xxx-xxx. The count of the number must be only one or equal the count of the DID number.

·Inbound Trunks

Choose the inbound trunks.

•Outbound Trunks

Choose the outbound trunks.



Edit Calling Route: DefaultBriToSip	x
Route Name	DefaultBriToSip
Days of Week:	Monday 👻 - Sunday 💌
Time:	00 • : 00 • - 23 • : 59 •
Dial Pattern 🛈 :	Χ.
Strip 🛈 :	0 Digits From Front
Prepend These Digits 🛈 :	Before Dialing
Password:	
Strategy 🛈 :	Default 👻
Inbound Caller Pattern 🛈 :	
DID Number 🛈 :	
Direct/DID Associated Number 🛈 :	
Inbound Trunks	
Available Trunks	Selected
All	
BRI3(BRI)	»»
PBX(SIP)	-
	44.44
Outbound Trunks	
Available Trunks	Selected
All	
BRI1(BRI) BRI2(BRI)	20.20
BRI3(BRI) BRI4(BRI)	
PBX(SIP)	
1	

Figure 3.4.1.1

3.4.2 Black list

Blacklist is used to block an incoming/outgoing call for the numbers you have set here



🕨 Manage Blacklists 🔅

+ New Blacklist	Manage Blacklists
	No Blacklists Defined

Figure 3.4.2

3.5 Network Settings

3.5.1 LAN settings

LAN Settings III

LAN Settings	
DHCP:	No 🔻
Enable SSH:	No • Port: 8022
Hostname:	TB400
IP Address:	192.168.4.132
Subnet Mask :	255.255.254.0
Gateway :	192.168.5.1
Primary DNS :	192.168.5.1
Secondary DNS :	
IP Address2:	
Subnet Mask2:	
✓ Save	Cancel

Figure 3.5.1

·DHCP

If this option is set, NeoGate will use DHCP to get an available IP address from your local network. Not recommended.

•Enable SSH

This is the advance way to access the device, you can use the putty software to access the device. In the SSH access, you can do more advance setting and debug.

•Port: the default is 8022,

Hostname

Set the host name for NeoGate.

•**IP Address** Set the IP Address for NeoGate.

•Subnet Mask Set the subnet mask for NeoGate.

•Gateway Set the gateway for NeoGate.

•**Primary DNS** Set the primary DNS for NeoGate.

Secondary DNS
Set the secondary DNS for NeoGate.
IP Address2
Set the second IP Address for NeoGate.

•Subnet Mask2 Set the second subnet mask for NeoGate.

3.5.2Firewall

Firewalls are used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially intranets. All messages entering or leaving the intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.



🕨 Manage Firewall 🔅 **Firewall Settings** 🔽 🛈 Enable Firewall Firewall has started successfully oot the system after applying the changes Note:You must Common Rules New Rule No Common Rule Defined Auto Defense + New Rule No Auto Defense Rule Defined SIP Defens * New Rule 90 60 🔊 Edit 🛛 🗶 Delete 🔊 Edit 🔰 Delete 20 2 • Other Settings 🗖 🛈 Disable Ping 🗆 🛈 Drop All

Figure 3.5.2.1

1) Enable Firewall

Enable the firewall to protect the device.

2) Common Rules

Name

A name for this rule , e.g. 'HTTP'.

Description

Simple description for this rule . E.g.: Accept the specific host to access the web interface for configuration.

Protocol

The protocols for this rule .

•Port

Initial port should be on the left and end port should be on the right. The end port must be equal to or greater than start port.

·IP

The IP address for this rule . The format of IP address is: IP/mask Ex: 192.168.5.100/255.255.255.255 for IP 192.168.5.100 Ex: 216.207.245.47/255.255.255.255 for IP 216.207.245.47 Ex:192.168.5.0/255.255.255.0 for IP from 192.168.5.0 to 192.168.5.255 .

MAC Address

The format of MAC Address is XX:XX:XX:XX:XX:XX, X means 0~9 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.

New firewall rule		X
Name 🛈 :		
Description 🛈 :		
Protocol 🛈 :	TCP 🗸	
Port:	0 : 0	
IP🛈:	1	
MAC Address 🛈 :		
Action 🛈 :	Drop 💌	
	✔ Save 🔀 Cancel	

Figure 3.5.2.2

3) Auto Defense•PortAuto defense port, e.g.: 8022.

Protocol

Auto defense protocol, TCP or UDP.

•Rate

The maximum packets or connections can be handled per unit time.

E.g.: (Port: 8022 Protocol: TCP Rate: 10/minute) means maximum 10 TCP connection to port 8022 can be handled per minute, the eleventh connection will be refused directly.

New auto defense rule	X
Port ¹ : 0	
Protocol 🛈 : TCP 🔽	
Rate 🛈: / Second 💌	
Save Save	

Figure 3.5.2.3

4) SIP Defense



·Port

The port used for SIP protocol.

Protocol

Choose the protocol need to be protect, etc: UDP.

·SIP Packets

The SIP packets allowed in specific time interval .

·Time Interval

The time interval to receive SIP packets .

For example, SIP packets 90, time interval 60 means 90 SIP packets are allowed in 60 seconds.

New SIP defense rule	x
Port ¹ : 5060	
Protocol 🛈 : UDP 💌	
SIP packets 0	
Time interval : 0 seconds	
🗹 Save 🔀 Cancel	

Figure 3.5.2.4

5) Other Settings

·Disable Ping

Enable this item, net ping from remote hosts will be dropped.

•Drop All

When you enable 'Drop All' feature, system will drop all packets or connection from other hosts if there are no other 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.

3.5.3 VLAN settings

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



VLAN Settings 🔅

Vlan Over Lan	
	NO.1:
	VLAN Number:
	VLAN IP Address:
	VLAN Subnet Mask:
	VLAN Gateway:
	NO.2:
	VLAN Number:
	VLAN IP Address:
	VLAN Subnet Mask:
	VLAN Gateway:
	✓ Save X Cancel

Figure 3.5.3

•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 VLAN.

·VLAN Subnet Mask

Set the Subnet Mask for NeoGate VLAN.

·VLAN Gateway

Set the Gateway for NeoGate VLAN.

•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 VLAN.

·VLAN Subnet Mask

Set the Subnet Mask for NeoGate VLAN.

·VLAN Gateway

Set the Gateway for NeoGate VLAN.

3.5.4 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 TB supports OpenVPN.

Þ	VPN Settings 🌣
	VPN Settings
	Enable VPN:
	Import VPN Config
	Import
	✓ Save X Cancel
	Figure 3.5.4

•Enable VPN

·Import VPN Config

Import configuration file of OpenVPN. Don't configure 'user' and 'group' in the 'config' file.

3.5.5 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.

·Enable DDNS

·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

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

DDNS Settings 🗄		
DDNS Settings		
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 <u>dyndns.org</u> , <u>freedns.afraid.org</u> , <u>www.no-ip.com</u> , <u>www.zoneedit.com</u>		
DDNS is not running		
Enable DDNS:		
DDNS Server: dyndns.org		
User Name:		
Password:		
Host Name:		
✓ Save X Cancel		

Figure 3.5.5

3.6 System Settings

3.6.1 Options

1) General

General Preferences		
	General Preferences	
	Ring Timeout 🛈 : 30 s	
	MAX Call Duration 🛈 : 6000 s	
	HTTP Bind Port : 5481	
	✓ Save	

Figure 3.6.1

·Ring Timeout

Number of seconds to ring a device before answering. Default value is 30s.



.MAX Call Duration

The absolute maximum amount of time permitted for a call. A setting of 0 disables the timeout. Default value is 6000s.

·HTTP Bind Port/Web Access Port

Port use for HTTP sessions. Default: 80

3.6.2 Password Settings

The default password is **'password'**. To change the password, enter the new password and click update. The system will then prompt you re-login using your new password

Change Password \$\$	
	Change Password
	Enter New Password:
	Retype New Password:
	✓ Save

Figure 3.6.2

3.6.3 Date and Time

Set the date and time for NeoGate.

Date & Time
Server Time: Tue Nov 30 00:35:34 2010
Time Zone: GMT+08:00 China, Philipines, Malaysia 💌
Automatically Synchronize With an Internet Time Server
NTP Server: pool.ntp.org
C Set Date & Time Manually
Date
Time 💽: 🔽 AM 🗸
🗸 Save



Figure 3.6.3

3.6.4 Backup and Restore

You can backup your configure in this page. After back up, you can see the back up in the list. You can restore the configure in this page also. **Note**: the restore will only work after reboot.

	Manage Configuration Backups
	◆ Create a New Backup
List Of Previous Configuration Backups:	
	No backup files Found.
	Please click on the 'Create New Backup' button to take a backup of the current system configuration

Figure 3.6.4

3.6.5 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.



Reboot System
Reboot System
Warning: Rebooting the system will terminate all active calls!
Reboot
Reset to Factory Defaults
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.
Reset to Factory Defaults

Figure 3.6.5

3.6.6 Firmware Update

Upgrading of the firmware 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.

Note :

- 1. If enabled 'Reset configs', System will restore to factory default settings.
- 2. When update the firmware, please don't turn off the power.

Firmware Download Source:
HTTP URL TFTP Server
HTTP URL:
Reset Configuration to Factory Defaults:
+ Start

Figure 3.6.6

3.7 Reports

3.7.1 Call Logs

The call Log captures all call details, including Source, Destination, Start Time, End Time, Duration, Billable Duration, Disposition, Communication Type, etc. Administrator can export CDR data to a CSV file.

NeoGat	e									Lo
BRI Settings Module List	*	CD Viewing (most re	R Viewer 🔅 1-13 ecent first)			Call Log File: Master.csv 💌		Download Selected CDR Delete Selected CDR Selected CDR		
VoIP Settings SIP Settings Advanced Settings	*	ID	Source	Destination	Start Time	End Time	Duration	Billable Duration	Disposition	Communication Type
		1	601	111222	2011-07-31 19:03:19	2011-07-31 19:03:25	6	0	FAILED	Outbound
		2	601	111222	2011-07-31 18:23:15	2011-07-31 18:23:20	5	0	FAILED	Outbound
Route Settings Route List DOD List Blacklist	۵	3	601	111222	2011-07-31 18:15:14	2011-07-31 18:15:19	5	0	FAILED	Outbound
		4	601	111222	2011-07-31 18:09:50	2011-07-31 18:09:55	5	0	FAILED	Outbound
		5	601	111222	2011-07-31 18:07:24	2011-07-31 18:07:29	5	0	FAILED	Outbound
Suntom Cottingo	۲	6	601	111222	2011-07-31 18:07:00	2011-07-31 18:07:06	6	0	FAILED	Outbound
ptions		7	601	111222	2011-07-31 18:05:50	2011-07-31 18:05:55	5	0	FAILED	Outbound
etwork Settings		8	601	111222	2011-07-31 18:02:42	2011-07-31 18:02:47	5	0	FAILED	Outbound
assword Settings		9	601	505#	2011-07-29 18:46:59	2011-07-29 18:47:04	5	0	FAILED	Outbound
ackup and Restore		10	601	505#	2011-07-29 18:43:55	2011-07-29 18:44:00	5	0	FAILED	Outbound
eset and Reboot		11	601	500#	2011-07-29 18:43:36	2011-07-29 18:43:41	5	0	FAILED	Outbound
Firmware Update		12	131312313	50009	2011-07-28 04:27:05	2011-07-28 04:27:17	12	11	ANSWERED	Outbound
Reports	۲	13	5000	999	2011-07-26 16:55:57	2011-07-26 16:56:06	9	7	ANSWERED	Outbound
System Info	ır								Total:13	< Previous Next>> View: 25 -

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Figure 3.7.1

3.7.2 System Info

General:

Information about hardware version, firmware version and system uptime.

LAN:

Information about hostname, MAC address, IP address, subnet mask, gateway, Primary DNS and Secondary DNS.

Disk Usage: Disk usage information.

Memory Usage: Memory usage information.



NeoGate	LogoL
BRI Settings	▶ System Information ⊕
Module List	General ⊗
VoIP Settings 🔹	Hardware Version: NecGate TB400
Advanced Settings	Firmware Version:
Route Settings 🛞	6.10.0.05
Route List	Uptime:
DOD List Blacklist	18:08:18 up 17 days, 1:14, load average: 1.07, 1.02, 1.00
Diackilat	
System Settings 🙁	
Options	Hostname:
Network Settings	TB400
Password Settings	MAC Address
Date and Time Backup and Bactore	F4-F5-49-01-0Da
Reset and Reboot	
Firmware Update	IP Address:
0	192.168.5.113
Reports 🔊	
Call Logs	Gateway:
System Into	192.168.5.1
	Primary DNS-
Customer	192.168.5.1
Feedback	
	Secondary DNS:

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Figure 3.7.2

4. Application

Application 1



Figure 4-1

Application 2





Figure 4-2

<Finish>