

TE100 VoIP Gateway

User Manual

Version 61.0.0.7

Yeastar Information Technology Co. Ltd

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1. Introduction

Yeastar TE100- Bridge the gap between E1/T1/J1 and VoIP networks

Yeastar TE100 offers SMBs cost effective additions to legacy telephone systems to bring the true benefits of VoIP. TE100 is a single port VoIP E1/T1/J1 gateway (VoIP to E1/T1/J1, and E1/T1/J1 to VoIP) that supports up to 30 concurrent calls. It's designed to bridge the gap between E1/T1/J1 and VoIP networks. Integrating TE100 into an existing network will allow inexpensive communication via SIP trunking. Also, it could connect VoIP systems with E1/T1/J1 service from legacy carriers.

1.1 Features

| • Trunk Support |
|---|
| Call Routing Rules |
| • Automatic appending and stripping of digits to dialed numbers |
| Caller ID name and number support |
| • FAX support |
| Blocklist |
| • Firewall |
| DDNS Support |
| Backup and Restore |
| • Easy to install (web based) |
| • G729 codec support |



1.2 Hardware Specification

1.2.1 Exterior Appearance

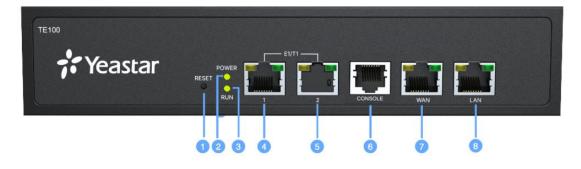


Figure 1-1 Yeastar TE100 Front Panel

| No. | Identifying |
|-------------------|---|
| ① Reset Button | Press and hold to reset to factory defaults. |
| ② Power Indicator | Indicates the power status. |
| | • On: The power is switched on. |
| | • Off: The power is switched off. |
| ③ RUN Indicator | Indicates the system status. |
| | • Blinking: The system is working properly. |
| | Not Blinking/Off: The system goes wrong. |
| ④ E1/T1 | E1/T1 interface. |
| ⑤ Reserved Port | Reserved port. |
| 6 Console | Console interface(RJ45) for debugging with connection with a console cable. |
| ⑦ WAN | 10/100/1000 Mbps adaptive RJ45 Ethernet port. |
| ⑧ LAN | 10/100/1000 Mbps adaptive RJ45 Ethernet port. |



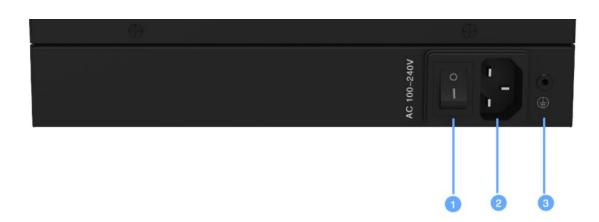


Figure 1-2 Yeastar TE100 Back Panel

Table 1-2 Back Panel Descriptions

| No. | Identifying |
|--------------------|--|
| ① Power Switch | Press this button to switch on/off the device. |
| 2 Power Inlet | Connect the power supply to the port. |
| ③ Protective Earth | Protect the personnel and the equipment. |



2. System Setup

2.1 Connection Drawing

2.2 Connecting Ethernet Line

TE100 provides two 10/100/1000 Mbps Ethernet ports with RJ45 interface and LED indicator. Plug Ethernet line into TE100'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. A yellow LED indicates the port is in the connection process, and a green LED indicates the port is properly connected.

2.3 Supplying Power

Please follow the steps below to connect the TE100 unit to a power outlet:

- Connect the small end of the power cable to the power input port on the TE100 back panel, and plug the other end of the cable into a 100V~240V AC power outlet.
- 2. Check the Power LED on the front panel. A solid green LED indicates that power is being supplied correctly.



3 Administrator Login

From your web browser, enter the IP address of the Yeastar TE100.

If this is the first time you are configuring TE100, please use the default settings below (your PC should be in the same local network with TE100):

IP Address: http://192.168.5.150

Username: admin

Password: password

ISDN VolP Gateway for Cost Reduction

| % Yeastar | TE100 Configuration Panel User Name: Password: Language: English Login Reset | |
|------------------|---|--|
| | | |

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This is the welcome page of TE100 after login successfully.







4. Status

Click to check the status of TE100, including the system's status and the detailed reports.

4.1 System Status

In this page, we can check the status of the system, including IP trunk status, E1/T1 status, network status and system information.

4.1.1 IP Trunk status

| Status | Trunk Name | Туре | User Name | Hostname/IP | Reachability |
|------------|-------------|--------|-----------|----------------|--------------|
| Registered | <u>U520</u> | SIP | 102 | 192.168.10.121 | ок |
| OK (2 ms) | 122 | SP-SIP | | 192.168.10.122 | OK (2 ms) |
| | Status | | Ассог | ınt | Туре |

Figure 4-1 IP Trunk Staus

Table 4-1 Description of VoIP Trunk (SIP Type) Status

| Status | Description |
|--------------|---|
| Unregistered | Trunk registration failed |
| Registered | Successful registration, trunk is ready for use |
| Request Sent | Registering |
| Waiting | Waiting for authentication |

| Table 4-2 Description of Service Provider SIP 1 | Trunk (SP-SIP Type) Status |
|---|----------------------------|
|---|----------------------------|

| Status | Description |
|-------------|---|
| ОК | Successful registration, trunk is ready for use |
| Unreachable | The trunk is unreachable. |



| Trunk registration failed. |
|----------------------------|
| |

4.1.2 E1/T1 Status

| | | | | | | | | | Con | nect | | | | O | iscon | nect | | | | Conn | lect er | rror | | | | | | | | | |
|-------------|---|---|-------|-------|------|---|---|-------|-----|------|-------|----|--------|----|-------|------|-----|-------|-------|------|---------|------|------|-----|----|-------|----|----|----|----|---|
| | | | Frunk | Nam | е | | | | | | | | | Mo | de Ty | ре | | | | | | | | | | Alarn | n | | | | |
| | | | E1T | runk1 | | | | | | | | | | | E1 | | | | | | | | | | | | | | | | |
| | | | Down | (| Idle | 9 | , | Answe | red | Acc | epted | Di | ialing | | Offer | ed | Dis | conne | ected | Blo | ocked | | Unkn | own | DC | han | | | | | |
| Channel No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 3 |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

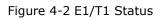


Table 4-3 Description of E1 Trunk Status

| Status | Description |
|--------|--|
| | Connected successfully; data stream on the trunk is normal; but the trunk may not work if there is something wrong with the E1 trunk communication protocol. |
| ۲ | The port doesn't have E1 line connected. |
| • | E1 line has been connected to the port; PRI is in corresponding or can't communicate. |

Table 4-4 Status of Each Channel of E1 Trunk

| Status | Description |
|----------|---|
| Down | The Channel is not connected. |
| 📕 Idle | The channel is idle, ready for use. |
| Answered | The channel is busy in a call. |
| Accepted | The channel has accepted the call, but the phone does not accept the call, i.e. the phone is ringing. |
| Dialing | The channel is dialing out. |



| Offered | The channel is accepting an incoming call. |
|--------------|---|
| Disconnected | The channel is requesting to hang up, but the line hasn't be released by the other end. |
| Blocked | At least one end is being blocked on the channel. |
| Unknown | The channel is being used in a non-call way, or status unknown. |
| DChan | D channel, the control and signaling information is being carried. |

4.1.3 Network status

This page will display the IP addresses of the WAN and LAN ports and their network status information.

| LAN 🛠 | | | |
|-------|-----------------|-------------------|--|
| | Hostname : | TE100 | |
| | MAC Address : | 02:04:07:01:60:16 | |
| | IP Address : | 192.168.10.129 | |
| | Subnet Mask : | 255.255.255.0 | |
| | Gateway : | 192.168.10.1 | |
| | Primary DNS : | 192.168.10.1 | |
| | Secondary DNS : | | |

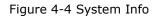
Figure 4-3 Network Status

4.1.4 System info

On this page, you can check the hardware/firmware version, and the disk usage of TE100.



| System Int | o | | | | | |
|----------------------|---|---------------------|---|---------------------|--|--|
| | | | | | | |
| General | * | | | | | |
| Product TE100 | t Type: | | | | | |
| | re Version: 0000-0086 | | | | | |
| Firmwa 61.0.0.7 | re Version: | | | | | |
| Uptime: 17:21: | 24 up 6 days, 23:13, 0 use | rs | | | | |
| Disk Us | age 🖄 | | | | | |
| Note:If I Disk Us | | e system, the oldes | t call log files will be automatically de | leted as necessary. | | |
| flash: | Used/Total(1K-blocks) 34492/6788296 | use% 1% | | | | |
| Memory | r Usage ⊗ | | | | | |
| Memory | / Usage: | | | | | |
| Mem: | Used/Total(1K-blocks) 126632/1018240 | use% 12% | | | | |



4.2 Reports

On this page, you can check the call logs and system logs, which can be used to debug the problem you encountered.

4.2.1 Call logs

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

| Start Date: 26 Feb 20 | 013 |] Billing [| End Date: 26 F | | Callee: Status: All | ✓ Con | Trun nmunication Typ | k: All 🔽 |] 🔍 Start Sea | irching |
|-----------------------|-----|----------------|----------------|-------------------|------------------------|------------------|-------------------------|----------|-----------------------------|---------|
| Download the reco | | Callee | te the records | Destination Trunk | Duration | Billing Duration | Status | Total: 5 | Show:1-5 Vi vpe Pin User | |
| 2013-02-26 05:46:23 | 503 | 501 | Yeastar | E1Trunk1 | 6 | Jining Duration | ANSWERED | Outbound | ype Pill Osei | × |
| 2013-02-26 05:46:19 | 503 | 501 | Yeastar | E1Trunk1 | 3 | 2 | ANSWERED | Outbound | | X |
| 2013-02-26 05:46:13 | 503 | 501 | Yeastar | E1Trunk1 | 5 | 3 | ANSWERED | Outbound | | X |
| 2013-02-26 05:46:06 | 503 | 501 | Yeastar | E1Trunk1 | 6 | 2 | ANSWERED | Outbound | | X |
| 2013-02-26 05:45:51 | 503 | 501 | Yeastar | E1Trunk1 | 8 | 4 | ANSWERED | Outbound | | X |

Figure 4-5 Call Logs



4.2.2 System logs

You can download and delete the system logs of TE100.

| System Logs | | | |
|----------------|--|--------------------------------|-------------------------------|
| + Download The | Selected Logs 🛛 📉 Delete The Selected Logs |] | |
| | Name | Туре | |
| | web.log | Web | |
| Options | | | |
| | 🗐 Enable Hardware Log 🛈 | Enable Normal Log ¹ | Enable Debug Log ¹ |
| | Enable Web Log | | |
| Packet Capture | Tool | | |
| | | IP: | |
| | | Start Stop 👱 Download | |
| | | 🖌 Save 🔀 Cancel | |

Figure 4-6 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)



Packet Capture Tool

This feature is used to capture packets. Users can specify the destination IP address and port to get the packets.

·IP

Specify the destination IP address to get the packets.

•Port

Specify the destination Port to get the packets.



5. System

Click to access the system page, where you can configure the network settings, firewall rules and system preferences.

5.1 Network Preferences

5.1.1 LAN Settings

| N Settings | | |
|------------|-----------------|-----------------|
| | DHCP: | No V |
| | Enable SSH: | No ✔ Port: 8022 |
| | Hostname: | TE100 |
| | IP Address: | 192.168.5.159 |
| | Subnet Mask : | 255.255.254.0 |
| | Gateway : | |
| | Primary DNS : | 192.168.5.1 |
| | Secondary DNS : | |
| | IP Address2: | |
| | Subnet Mask2: | |

Figure 5-1 LAN Settings

·DHCP

If this option is set as yes, TE100 will act as DHCP client to get an available IP address from your local network. Not recommended or you cannot access TE100 without the right IP address.

·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. It's disabled by default.



·Port

The default port is 8022.

Hostname

Set the host name for TE100.

·IP Address

Set the IP Address for TE100.

It is recommended to configure a static IP address for TE100.

·Subnet Mask

Set the subnet mask for TE100.

Gateway

Set the gateway for TE100.

·Primary DNS

Set the primary DNS for TE100.

Secondary DNS

Set the secondary DNS for TE100.

·IP Address2

Set the second IP Address for TE100.

Subnet Mask2

Set the second subnet mask for TE100.



5.1.2 WAN Settings

| WAN Settings | |
|---|---------------|
| WAN Settings | |
| Use WAN: 🗹 | |
| O DHCP | |
| Static IP Address | |
| IP Address: | 192.168.1.103 |
| Subnet Mask: | 255.255.254.0 |
| Default Gateway: | 192.168.1.1 |
| Primary DNS: | 192.168.1.1 |
| Secondary DNS: | |
| O PPPoE | |
| User Name: | |
| Password: | |
| Save | X Cancel |

Figure 5-2 WAN Settings

3 connection types are supported: DHCP (obtain an IP automatically), PPPoE, and Static IP Address.

Note:

- 1. WAN port is disabled by default.
- 2. WAN port cannot be used as a router to route the internet packages from WAN port to LAN port.

·DHCP

If your ISP says that you are connecting through DHCP or a dynamic IP address from your ISP, perform these steps:

Step1: Select **DHCP** as the WAN Connection Type.

Step2: Click **Save** button to save the settings.

Step3: Reboot the device.

Step4: Check the WAN's Status (Status \rightarrow Network Status).



·Static IP Address

If your ISP says that you are connecting through a static or fixed IP address from your ISP, perform these steps:

Step1: Select **Static IP Address** as the WAN Connection Type.

Step2: Enter the IP Address.

Step3: Enter the Subnet Mask.

Step4: Enter the Gateway Address.

Step5: Enter the Primary DNS and Secondary DNS.

Step6: Click the **Save** button to save the settings.

Step7: Reboot the device.

Step8: Check the WAN's Status (Status \rightarrow Network Status).

·PPPoE

If your DSL provider says that you are connecting through PPPoE or if you

Normally enter a user name and password to access the Internet, perform these

Steps:

Step1: Select **PPPoE** as the WAN Connection Type.

Step2: Enter the User Name.

Step3: Enter the Password.

Step4: Click the **Save** button to save the settings.

Step5: Reboot the device.

Step6: Check the WAN's Status (Status → Network Status)

5.1.3 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 host names, addresses or other information.



| DDNS Settings | |
|---|----------------|
| You must sign up for service through <u>dyndns org</u> , <u>freedns afraid.org</u> , <u>www.no-ip.com</u> , <u>wo</u> DNS Enable DDNS DDNS Server: User Name: Password: Host Name: | is not running |

Figure 5-3 DDNS Settings

5.1.4 Static Route

TE100 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 TE100 to force it to go out through different gateway when access to different internet.

| | Routin | ig Table | | |
|-----------------|---------------|----------------|----------|---------------|
| Destination | Subnet Mask | Gateway | Metric | Interface |
| 192.168.0.0 | 255.255.255.0 | 0.0.0.0 | 0 | LAN |
| 192.168.4.0 | 255.255.254.0 | 0.0.0 | 0 | WAN |
| 192.168.2.0 | 255.255.254.0 | 0.0.0 | 0 | LAN |
| 224.0.0.0 | 224.0.0.0 | 0.0.0 | 0 | LAN |
| 0.0.0.0 | 0.0.0.0 | 192.168.5.1 | 0 | WAN |
| Destination 🕖 : | Static Ro | ay: Metric 🕑 : | Interfac | e: LAN 🗸 🕂 Ac |
| | | | | |

The default gateway priority of TE100 from high to low is WAN port \rightarrow LAN port.

Figure 5-4 Static Route Settings

1) Route Table

The current route rules of TE100.

Destination

The destination network to be accessed to by TE100.



Subnet Mask

Specify the destination network portion.

·Gateway

Define which gateway TE100 will go through when access to the destination network.

Metric

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.

Interface

Define which internet port to go through.

2) Static Route Rules

You can add new static route rules here.

5.2 Firewall Settings

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.



5.2.1 Firewall Rules

| General Preferences | |
|---|-----------------------------------|
| General Settings Note: 1. You must reboot the system after enabling or disabling firewall. | |
| 2.It is strongly recommended to add local network address to a common rule with the 'action' is 'accept', or it may be dragged into the blacklist. | |
| 🗹 🔍 Enable Firewall | |
| O Disable Ping | |
| 🗌 0 Drop All | Firewall has started successfully |
| Common Rules | |
| Add Rule | |
| No Common Rules Defined | |
| ▶ Auto Defense | |
| + Add Rule | |
| No Auto Defense Rules Defined | |
| V Save X Cancel | |

Figure 5-5 Firewall Settings

1) General Settings

•Enable Firewall

Enable the firewall to protect the device. You should reboot the device to make the firewall run successfully.

·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 used for CGI access.



2) Common Rules

There are no default rules inside; you can create them as required.

| Add Firewall Rule | | |
|---------------------|---------------|--|
| Name 🛈 : | | |
| Description 🛈 : | ~ | |
| | | |
| Protocol 🛈: UDP 🖃 | 1 | |
| Port ¹ : | 1 | |
| IP 🛈 : | 1 | |
| MAC Address | | |
| Action (1): Drop | • | |
| | Save 🔀 Cancel | |

Figure 5-6 Add Firewall Rule

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:192.168.5.100/255.255.255.255forIP 192.168.5.100 Ex:216.207.245.47/255.255.255 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.

Note: The MAC address of a remote device will be changed when data reach TE100. So filtering MAC address of remote devices will not work.

·Action

Accept: Accept the access from remote hosts.

Drop: Drop the access from remote hosts.

Ignore: Ignore the access.

3) Auto Defense

| Add Auto Defen | se Rule | x |
|----------------|---------------------|---|
| | Port ¹ : | |
| | Protocol | |
| | Rate 0: / Second V | |
| | Save X Cancel | |

Figure 5-7 Auto Defence Rule

·Port

Auto 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 connections to port 8022 can be handled per minute, the eleventh connection will be refused directly.

5.2.2 IP Blocklist

You can set up the rules for packets receiving rate. When an IP address which hasn't been accepted in common rules sends packets faster than the allowed rate, it will be blocked automatically.

| klist Rules | | | |
|-------------|----------|--------------------------|--|
| Add Rule | | | |
| Port | Protocol | Rate | |
| 5060 | UDP | 90/60s | |
| 5060 | UDP | 20/2s | |
| locklist | | No Auto Black IP Address | |

Figure 5-8 IP Blocklist

1) Blocklist Rules

Click **Add Rules** to add the rules for IP blocklist rate as your demand.

| Add Auto Blacklist Rules | X |
|--------------------------|---|
| Port ¹ : | |
| Protocol 🛈 : UDP 💌 | |
| IP Packets | |
| Time Interval 1: seconds | |
| Save Save Cancel | |

Figure 5-9 Auto Blacklist Rule

Port

Auto defense port.



Protocol

Auto defense protocol. TCP or UDP.

·IP Packets

Allowed IP packets number in the specific time interval.

·Time interval

The time interval to receive IP packets. For example, IP packets 90,time interval 60 means 90 IP packets are allowed in 60 seconds.

2) IP blocklist

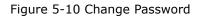
The blocked IP address will display here, you can edit or delete it as needed.

5.3 system Preferences

5.3.1 Password Settings

On this page, you can change the password.

| hange Password | | |
|-----------------|----------------------|--|
| Change Password | | |
| | Enter Old Password: | |
| | Enter New Password: | |
| | Retype New Password: | |
| | Save | |



•Enter Old Password

The default password is **password**.



•Enter New Password

Enter the new password.

•Retype New Password

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

5.3.2 Date and Time

Set the date and time for TE100.

| ate & Time | |
|-----------------------|--|
| Server Time: | Tue Feb 26 5:53:50 2013 |
| Time Zone: | -8 United States - Pacific Time |
| Daylight Saving Time: | Disabled V |
| ۲ | Automatically Synchronize With An Internet Time Server |
| | NTP Server: pool.ntp.org |
| 0 | Set Date & Time Manually |
| | Date |
| | Time V: V AM V |

Figure 5-11 Date and Time Settings

•Time Zone

Choose the time zone for TE100.

·Daylight Saving Time

Set the mode to Automatic or disabled .

Automatically Synchronize With an Internet Time Server

Enter the NTP server so that TE100 will update the time automatically.



·Set Date & Time Manually

Enable this feature to set the time to your local right time manually.

5.3.3 Backup and Restore

You can backup up the configurations before reset TE100 to factory defaults, and then restore it using this package.

| Backup an | d Restore | | | | |
|-----------|-----------------------------------|--|---------|----------|--------|
| + Creat | te a New Backup 🚖 Upload a Backup | | | | |
| | | List Of Previous Configuration Backups | | | |
| # | Name | Time | Options | | |
| 1 | backup_2013feb26_215413.tar | Tue Feb 26 5:54:08 2013 | | × | |
| | | | [| < Prev 1 | Next > |

Figure 5-12 Backup and Restore

To restore the backup package, please click **Upload a Backup**, then upload it from your local PC.

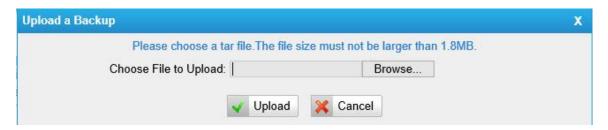


Figure 5-13 Upload a Backup

Note:

- 1. Please make sure the file size must not be larger than 1.8MB.
- 2. When you have updated the firmware version, it's not recommended to restore using old package.



5.3.4 Reset and Reboot

| Reset and Reboot Options |
|---|
| 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 5-14 Reset and Reboot

·Reboot System

Warning: Rebooting the system will terminate all active calls!

·Reset to Factory Defaults

Warning: 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.

5.3.5 Firmware Update

TE100 can be upgraded to a new firmware version via network or locally. Users could upgrade firmware via HTTP or TFTP. Please go to **System→ System Preferences→ Firmware Update** to do upgrade.

Notes:

1. If "Reset configuration to Factory Defaults" is enabled, the system will be restored to factory default settings.



- 2. When updating the firmware, please don't turn off the power. Or the system will be damaged.
- 3. If you are trying to upgrade through HTTP, please make sure that your TE100 is able to visit external network, or it cannot access Yeastar website to get the firmware file, causing the upgrade fail.

Upgrade through HTTP

On the Firmware Upgrade page, choose HTTP URL.

Step1. Enter the download link of the firmware file.Note: the HTTP URL should be a BIN file download link.

Step2. Click Start to upgrade.

| Firmware Download Source: |
|--|
| HTTP URL O TFTP Server |
| HTTP URL: |
| Reset Configuration to Factory Defaults: |
| Start |

Figure 5-15 Firmware Upgrade

Upgrade through TFTP

Step1. Download firmware file from Yeastar website.

Step2. Create a tftp Server (For example, tftpd on Windows).

- Install tftpd32 software on computer.
 Download link: <u>http://tftpd32.jounin.net/tftpd32_download.html</u>
- 2) Configure tftpd32.

On option "**Current Directory**", click "**Browse**" button, choose the firmware file (BIN file) upgraded patch. Click the **Service interface** drop-down, and select the IP address of your PC.



| Current Direc Ferver interfa | | - | sers\moth0312\D 68.6.42 | Realtek PC | \equiv $-$ | 3rowse how Dir |
|---------------------------------|--------|--------|----------------------------|---------------|--------------|-------------------|
| Tftp Server |] Tftp | Client | DHCP server | Syslog server | Log viewei | 1 |
| peer | | | file | start time | progress | |
| | | | | | | |

Figure 5-16 Configure Tftpd32

Step3. Log in to the TE100 Web page and go to **System→System Preferences→Firmware Update**, choose "**TFTP Server**".

- 1) TFTP Server: fill in IP address of tftpd32 server (your PC's IP address).
- 2) File Name: enter the name of firmware update. It should be a BIN file name.
- 3) Click "Start" to upgrade.

| Note: Please clear the browser's cache after the upgrade. |
|---|
| Firmware Download Source: |
| HTTP URL TFTP Server |
| TFTP Server: 192.168.6.42 |
| File Name: 40.19.0.14.bin |
| Reset Configuration to Factory Defaults: |
| Start |
| Start |

Figure 5-17 Upgrade through HTTP



6. Gateway

6.1 Digital Trunk

On this page you can configure the details of the E1/T1 trunk.

| al Trunk | | | | | |
|----------|------------|-----------|-----------|-------------------|--|
| T1 | Trunk Name | Mode Type | Signaling | Echo Cancellation | |
| | E1Trunk1 | E1 | PRI-NET | On | |

Figure 6-1 E1/T1 Trunk

Click **Edit** on a desired trunk and modify its properties in the pop-up window.

| Digital Trunk E1Trunk | 1 | | | | | | |
|-----------------------|-------------|-----|----|----------------------|--------------|---|--|
| | | | | - General Settings | | | |
| Mode Type: | E1 | • | 1 | Signaling: | PRI | • | |
| Linecoding: | HDB3 | • | 1 | Codec: | alaw | * | |
| Echo Cancellation | On | • | 1 | Framing: | Disable CRC4 | • | |
| | | | | - PRI Bacic option | | | |
| Switch Type | national | • | | Switch Side: | User | • | |
| | | | | PRI Advanced option | | | |
| Enable Facility 🛈 : | Enabled | • | | Overlap Dial | Disable | • | |
| Reset Interval 🛈 : | 3600 | | s | PRI Indication | Inband | • | |
| Remote Dialplan 🛈 : | unknown | • | | Remote Number Type | unknown | | |
| Location Dialplan 🛈 : | ISDN/teleph | 0 - | | Location Number Type | national | | |
| Screen Indicator 0: | | | | allowed | • | | |
| Nsf0: | none | • | | | | | |
| aller ID Prefix | | | | | | | |
| International Prefix | | | Ì. | National Pr | efix0: | | |
| Local Prefix | | | Ĩ | Private Pr | efix0: | | |
| Unknown Prefix | | | 7 | | | | |
| DD Settings | | | | | | | |
| lobal DOD: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Figure 6-2 Edit E1/T1 Trunk

1) General Settings

•Mode Type

E1 / T1 / J1

Signaling

PRI,MFC/R2,SS7,E&M

.Linecoding

HDB3, AMI

·Codec

Default: A-Law, U-Law.

•Echo Cancellation

Disable or enable echo cancellation, it is recommended turn it on.

.Framing

CRC Verification.

2) PRI Basic Option

•Switch Type

national: National ISDN type2 (common in the US)

Euro ISDN: Euro ISDN

Q SIG: Minimalistic protocol to build a "network" with two or more PBX of different vendors!



.Switch Side

User, Network

3) PRI Advanced Option

.Enable Facility

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

•Over Lap Dial

Define whether TE100 can dial this switch using overlap digits. If you need Direct Dial-in (DDI; in German "Durchwahl") you should change this to yes, then TE100 will wait after the last digit it receives.

·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. 100000000 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 reset interval 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.

•PRI Indication

Tells how TE100 should indicate Busy () and Congestion() to the switch/user. Accepted values are:

inband: TE100 plays indication tones without answering; not available on all PRI/BRI subscription lines .

outofband: TE100 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().



·Remote Dialplan

Called number type

·Remote Number Type

Called number identification

·Location Dialplan

Calling number type

·Location Number Type

Calling number identification

Screen Indicator(SI)

The SI provides information on the source and the quality of the provided information.

.Presentation Indicator(PI)

The PI provides instructions on whether or not the provided calling line identity is allowed to be presented, or indicates that the number is not available.

∙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.

4) Caller ID Prefix

·International Prefix

When there are international calls coming in via this BRI trunk, the International



Prefix you have set here will be added before the CID. So you can know this is an international call before you answer it.

·National Prefix

When there are national calls coming in via this BRI trunk, the National Prefix you have set here will be added before the CID. So you can know this is a national call before you answer it.

·Local Prefix

When there are Local calls coming in via this BRI trunk, the Local Prefix you have set here will be added before the CID. So you can know this is a local call before you answer it.

•Private Prefix

When there are Private calls coming in via this BRI trunk, the Private Prefix you have set here will be added before the CID. So you can know this is a Private call before you answer it.

•Unknown Prefix

When there are calls with unknown number coming via this BRI trunk, the Unknown Prefix you set here will be shown as the caller ID.

5) DOD Settings

DOD (Direct Outward Dialing) means the caller ID displayed when dialing out, before configure this, please make sure the provider supports this feature

·Global DOD

Global direct outward dialing number.



6.2 VoIP settings

6.2.1 VoIP trunk

There are 3 types of VoIP trunks: **Account**, **Trunk** and **Service Provider**.

| Add VoIP Trunk | | | | |
|----------------|------------------|-----------|---------------|--|
| Name | Туре | Transport | Hostname/IP | |
| Account1 | Account | udp | - | |
| Account2 | Account | udp | 177 | |
| Yeastar | Trunk | udp | 192.168.4.141 | |
| Support | Service Provider | udp | 192.168.5.101 | |

Figure 6-3 VoIP Trunks

1) Account

It's a SIP account created in TE100 so that the other devices can register SIP trunk at their side using these information.

| General | Advanced | | | | |
|---------|----------|-------------|---------|------|--|
| | | Trunk Type: | Account | - | |
| | | Name: | | | |
| | | Account: | | | |
| | | Password: | | | |

Figure 6-4 SIP Account



•Trunk type:

Click the Trunk Type drop-down and select **Account**.

•Name:

Specify a name to help you identify this trunk.

•Account:

Design the account for other device to register to.

·Password:

Design the password for other device to register to.

2) Trunk

It's a SIP trunk configured in TE100 to register to the SIP provider. Before configuring the TE100, please confirm with the vendor in advance that the trunk is working properly.

| General | Advanced | | | |
|---------|---------------------|-------|-------|--|
| | Trunk Type: | Trunk | | |
| | Provider Name: | | | |
| | Hostname/IP: | | :5060 | |
| | Domain: | | | |
| | User Name: | | | |
| | Authorization Name: | | | |
| | Password: | | | |
| | | | | |

Figure 6-5 VoIP Trunk



•Trunk type:

Click the Trunk Type drop-down and select **Trunk**.

•Provider name:

A unique label to help you identify this trunk when listed in outbound rules, incoming rules etc. Eg: 'yeastar'.

·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:

VoIP provider's server domain name.

·Username

User name of sip account, which is used for sip trunk registration.

•Authorization name

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

Password

Password of SIP account.

3) Service provider

This is service provider trunk (peer to peer mode), which authorized using IP address only. If you have got a trunk with IP address only, please choose this type.



| General | Advanced | | | | |
|---------|----------|--------------|------------------|--------|--|
| | | Trunk Type: | Service Provider | • | |
| | Pro | ovider Name: | [| | |
| | н | lostname/IP: | | : 5060 | |

Figure 6-6 Service Provider SIP Trunk

•Trunk type:

Click the Trunk Type drop-down and select **Service Provider**.

·Provider Name

A unique label would help to you identify this trunk. Ex: 'Provider2'.

·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.



6.2.2 SIP Settings

| General NAT Codecs QOS T.38 Advanced Settings | |
|---|--------------|
| | |
| UDP Po | 5060 |
| Enable TCP Por | 5060 |
| Enable TLS Por | 5061 |
| RTP Port 5 | rt: 10000 |
| RTP Port | d: 12000 |
| DTMF Mod |): rfc2833 🗸 |
| Max Registration/Subscription Tim | 3600 |
| Min Registration/Subscription Tim | 60 |
| Default Incoming/Outgoing Registration Tim | : 120 |
| Register Attempt | |
| Register Timeor | |
| Calling Channel Codec Priorit | |
| DNS SRV Look U | |
| User Age | 2 |

Figure 6-7 General Settings

1) General

·UDP Port

Used for sip registrations.Default value is 5060.

·TCP Port

Used for sip registrations.Default value is 5060.

·TLS Port

Used for sip registrations.Default value is 5061.

•RTP Port Start

Beginning of RTP port range.

•RTP Port End

End of RTP port range.



·DTMF Mode

Set default mode for sending DTMF. Default setting: rfc2833.

Max Registration/Subscription Time

Maximum duration (in seconds) of a SIP registration. Default is 3600 seconds.

·Min Registration/Subscription Time

Minimum duration (in seconds) of a SIP registration. Default is 60seconds.

·Default Incoming/Outgoing Registration Time

Default Incoming/Outgoing Registration Time: Default duration (in seconds) of incoming/outgoing registration.

·Register Attempts

The number of SIP REGISTER messages to send to a SIP Registrar before giving up. Default is 8 times.

·Register Timeout

Number of seconds to wait for a response from a SIP Registrar before timed out . Default is 20 seconds.

·Calling Channel Codec Priority

Once enabled, when dialing out via SIP/SPS trunks, the codec of calling channel will be selected in preference. If not, TE100 will follow the priority in your SIP/SPS trunks.

·DNS SRV Look Up

If your SIP trunk contains more than one IP address, enable this option.



·User Agent

To change the user agent parameter of asterisk, you should change it if needed.

2) NAT

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

| SIP Settings | |
|--|---|
| General NAT Codecs QOS T.38 Advanced Settings | |
| Note: Configuration of this section is only re | equired when you use remote extensions. |
| Enable STUN: | |
| STUN Address: | |
| STUN Port: | |
| External IP Address | |
| External Host | |
| External Refresh Interval | |
| Local Network Identification | |
| NAT Mode 🛈 : | yes 🗸 |
| Allow RTP Re-invite | yes 🔹 |
| | |

Figure 6-8 NAT Settings

•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

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

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;

'10.0.0/255.0.0.0' : 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) Codecs

| Settings General NAT Codecs | QOS T.38 Advanced Settings | | |
|--------------------------------|---|------------------------------------|--|
| | Available Codecs SPEEX G722 G726 ADPCM G729A | Allowed Codecs | |
| | G.729 License Key : Note: If you would like to use G.729, pl | ease enter your license key above. | |

Figure 6-9 Codec Settings

A codec is a compression or decompression algorithm that used in the transmission of voice packets over a network or the Internet.

u-law: A PSTN standard codec, used in North America, that provides very good voice quality and consumes 64kbit/s in each direction (receiving and transmitting) of a VoIP call.

a-law: A PSTN standard codec, used outside of North America, that provides very good voice quality and consumes 64kbit/s in each direction (receiving and transmitting) of a VoIP call.

GSM: A wireless standard codec, used worldwide, that provides adequate voice quality and consumes 13.3kbit/s in each direction (receiving and transmitting) of a VoIP call. GSM is supported by many VoIP phones.



SPEEX: Speex is an Open Source/Free Software patent-free audio compression format designed for speech. The Speex Project aims to lower the barrier of entry for voice applications by providing a free alternative to expensive proprietary speech codecs. Moreover, Speex is well-adapted to Internet applications and provides useful features that are not present in most other codecs.

G.722:G.722 is a wideband speech coding algorithms which supports the bit rate of 64, 56 and 48kbps wideband. It's a broadband voice encoding of G series.

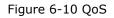
G.726: A PSTN codec, used worldwide, that provides good voice quality and consumes 32kbit/s in each direction (receiving and transmitting) of a VoIP call. G.726 is supported by some VoIP phones.

ADPCM, G.729A, H261, H263, H263p, H264, MPEG4.

Note: If you would like to use G.729, please enter your license.

4) QOS

| SIP Settings | | | | | | | | | |
|--------------|-------------|--------|------------|----------|----------|------------|---|---|--|
| [| General NAT | Codecs | QOS T.38 | Advanced | Settings | | | | |
| | | | Tos SIP: | CS3 | | Cos SIP: | 3 | * | |
| | | | Tos Audio: | EF | • | Cos Audio: | 5 | • | |



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.



5) T.38

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

| General NAT Codecs QOS T.38 Advanced Settings | | |
|---|-------|---|
| Re-invite SDP Not Add T.38 Attributes | No | - |
| | | |
| Error Correction | FEC | ▼ |
| T38 Max BitRate 🛈 : | 14400 | - |

Figure 6-11 T.38 Settings

| Table 6-1 | Description | of T.38 | Settings |
|-----------|-------------|---------|------------|
| | | | J - |

| Items | Description |
|--|--|
| Re-invite SDP Not Add T.38 Attributes | If set to Yes, SDP in re-invite packet will not add T.38 attributes. |
| Error Correction | Re-invite SDP T38FaxUdpEc. |
| T.38 Max Bit Rate | Set T38 Max Bit Rate. |

6) Advanced Settings

| General NAT Codecs QOS T.38 Advanced Settings | | |
|---|----------------|---|
| From Field: | From | |
| To Field: | INVITE - | |
| 180 Ringing: | | |
| Remote Party ID 🛈 : | 🖾 send 🗖 trust | |
| Pedantic | No 👻 | |
| Session-timers 👀 : | Accept - | |
| Session-expires 🛈 : | 1800 | s |
| Session-minse | 90 | s |
| Session-refresher: | Uas 👻 | |

Figure 6-12 Advanced Settings

·From Field

Where to get the caller ID in sip packet.



•To Field

Where to get the DID in sip packet.

·180 Ringing

It is set when the telecom provider needs. Usually it is not needed.

·Remote Party ID

Whether send Remote-Party-ID on SIP header. Default no.

Pedantic

Enable checking of tags in headers, international character conversations in URIs and multiline formatted headers for strict, SIP compatibility.

Session -timers

Enable or disable sesstion-timer mode.

Sesstion-expires

The max refresh interval.

Sesstion-minse

The min refresh interval, which mustn't be less than 90s .

Sesstion-refresher

Choose sesstion-refersher, the default is Uas.



6.2.3 Trunk Group

On this page, you can group multiple trunks into one group for setting up Routes list.

| | Trunk Group | | |
|--------------------------|-----------------------|-----------------|--|
| Group Name Group Members | ▶ Trunk Group | | |
| | + Add New Trunk Group | | |
| | Group Name | Group Members | |
| Support Support veastar | Support | Support-Yeastar | |
| | | | |
| | | | |

Figure 6-13 Trunk Group

Click **Add New Trunk Group** to add a new trunk group.

| |] |
|--------------------|----------|
| | Selected |
| »» → ← «« | |
| | → |

Figure 6-14 Edit Trunk Group

Group name

Specify a name to help you identify this trunk group.

Group members

All the SIP trunks you created will be listed here, please choose the desired



trunks to the right side as a group.

6.2.4 General Preferences

| Gen | eral Preferences | | |
|-----|---------------------|---|-------------------|
| | General Preferences | | |
| | | MAX Call Duration 0: 6000 HTTP Bind Port 0: 80 Invalid Phone Number Prompt 0: Busy Line Prompt 0: Dial Failure Prompt 0: | \$ ~ ~ ~ |

Figure 6-15 General Preference

.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 to use for HTTP sessions. Default: 80

·Invalid Phone Number Prompt

Select the prompt to be used when the number dialed is invalid.

·Busy Line Prompt

Select the prompt to be used when the number dialed is busy.

·Dial Failure Prompt

Select the prompt to be used when the dial failed due to congestion-no available channel.

Note: please reboot the system to take effect.



6.3 Routes Settings

There are two default routes to route the calls from E1 to SIP and SIP to E1.

In this page, we can route the call from one trunk to another trunk or a trunk group.

| Route List | | | | |
|--------------------------|-------------|--------------------|--------------------|---|
| Route List | | | | |
| + Add New Route | | | | |
| Route name | Simple Mode | Call Comes in From | Send Call Through | |
| to_S300 | yes | E1Trunk1 | 192.168.66.31 | |
| from_S300 | yes | 192.168.66.31 | E1Trunk1 | R |
| to_S300_192.168.66.32 | yes | E1Trunk1 | S300_192.168.66.32 | |
| from_\$300_192.168.66.32 | yes | S300_192.168.66.32 | E1Trunk1 | |

Figure 6-16 Routes List

6.3.1 Route List

Click edit button to check and edit the details, there are two modes for a route.

1) Simple mode

| Edit Route | х |
|-------------------------------------|---|
| Simple Mode: Yes 🗸 | |
| Route name | |
| Match Incoming Calls: | |
| Call Comes in From Trunk E1Trunk1 | |
| Handle Matched Incoming Calls: | |
| Send Call Through: Account Account1 | |
| Vuve ourier | |

Figure 6-17 Simple Mode Route Settings



Route name:

Specify a name to help you identify this route.

Match incoming calls:

Choose the trunk or trunk group for the incoming calls.

Handle matched incoming calls:

Choose the trunk or trunk group to route the incoming calls to.

2) Detailed mode

In the **Simple Mode** drop-down, select **No** to access the detailed mode.

| Edit Route | X |
|--|---|
| Simple Mode 🛈 : No 🗸 | |
| Route name : to_S300 | |
| Match Incoming Calls: | |
| Call Comes in From Trunk E1Trunk1 | |
| Inbound Caller Pattern ¹ : | |
| DID Number 🛈 : | |
| DID Associated Number 🛈 : | |
| Handle Matched Incoming Calls: | |
| Send Call Through: ServiceProvider 192.168.66.31 | _ |
| T.38 Support 🛈 : No 💙 | |
| Outbound Dial Pattern 🛈 : X. | |
| Strip 🛈 : 0 digitals from front before dialing | |
| Prepend these digitals 🛈 : before dialing | |
| Save Save Cancel | |

Figure 6-18 Detailed Mode Route Settings

Route name:

Specify a name to help you identify this route.



Match incoming calls:

Choose the trunk or trunk group for the incoming calls.

Inbound caller pattern:

Match the prefix of caller ID for incoming calls.

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.

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. You can also use pattern matching to match a range of numbers.

DID Associated Number:

Define the extension for DID number. This field is only valid when you use BRI, SIP, SPS or SPX trunk for this inbound router. 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.



Send Call Through:

Choose the trunk or trunk group to route the incoming calls to.

T.38 Support:

Enable T.38 fax in this outbound route.

Note: Only for VoIP Trunk(only support protocol).

Outbound 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. 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.

Strip digits from front before dialing

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.

6.3.2 Blocklist

Blocklist is used to block an incoming/outgoing call. If the number of incoming/outgoing call is listed in the number blocklist, the caller will hear the following prompt: "The number you have dialed is not in service. Please check the number and try again". The system will then disconnect the call.

| Blocklist | | |
|-----------------|-----------------------|-----------|
| + Add Blocklist | Total: 0 | Show: 0-0 |
| | No Blocklists Defined | |
| | | |

Figure 6-19 Blacklist

Click **Add Blocklist** to add a number to the blocklist, you can set the type to inbound, outbound or both.

| Add Blocklist | x |
|-------------------------|---|
| Number : Type : Inbound | |
| Save Cancel | |

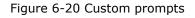
Figure 6-19

6.4 Custom Prompts

On this page, you can upload new custom prompts or manage the existing prompts.



| ustom Prompts | | |
|---------------|---------------|---------|
| # | Name | Options |
| 1 | default | Delete |
| 2 | pinuser-entry | Delete |
| 3 | pinuser-error | Delete |



Click **Upload a prompt** to upload custom prompts.

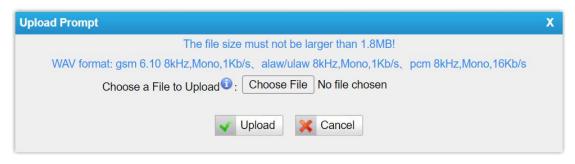


Figure 6-21 Upload prompt



7. Logout



Click Logout to log out safely to the log in page.

