

Yeastar TG100 - GSM Gateway

Quick Guide

Version 1.000 (07. December 2022)

Content

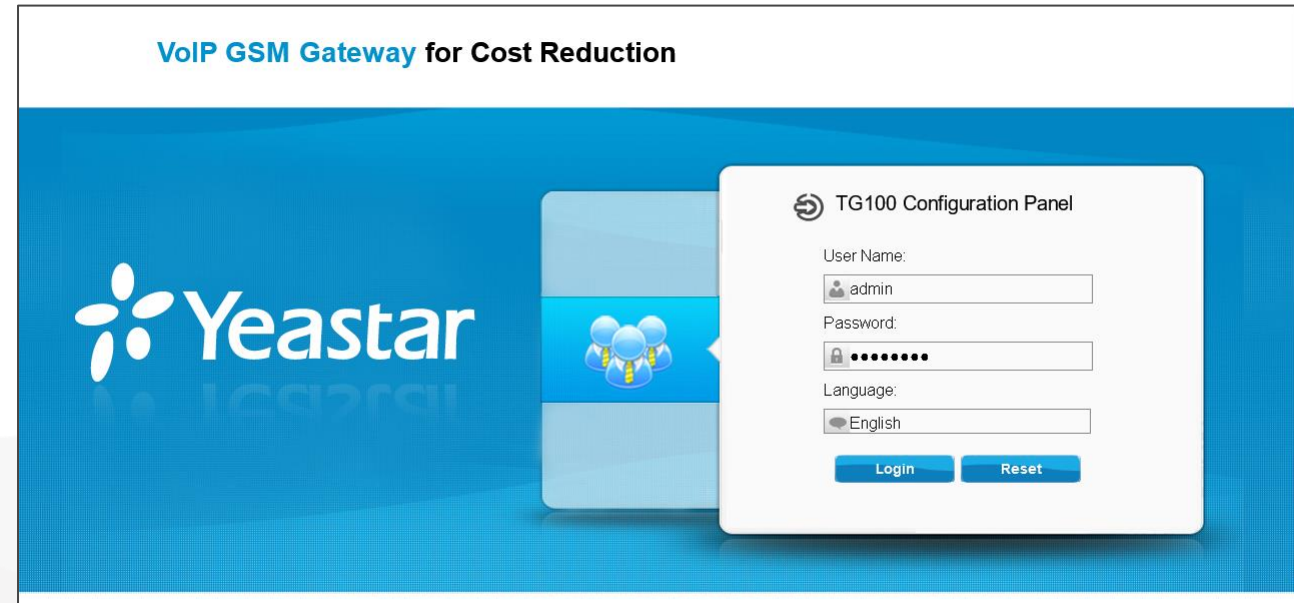
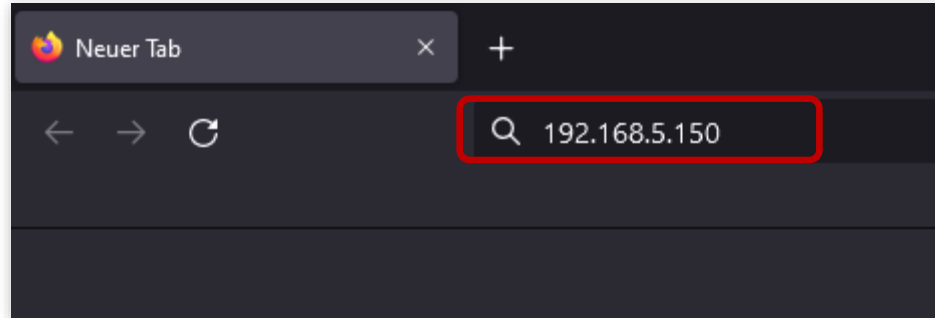
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Yeastar TG100

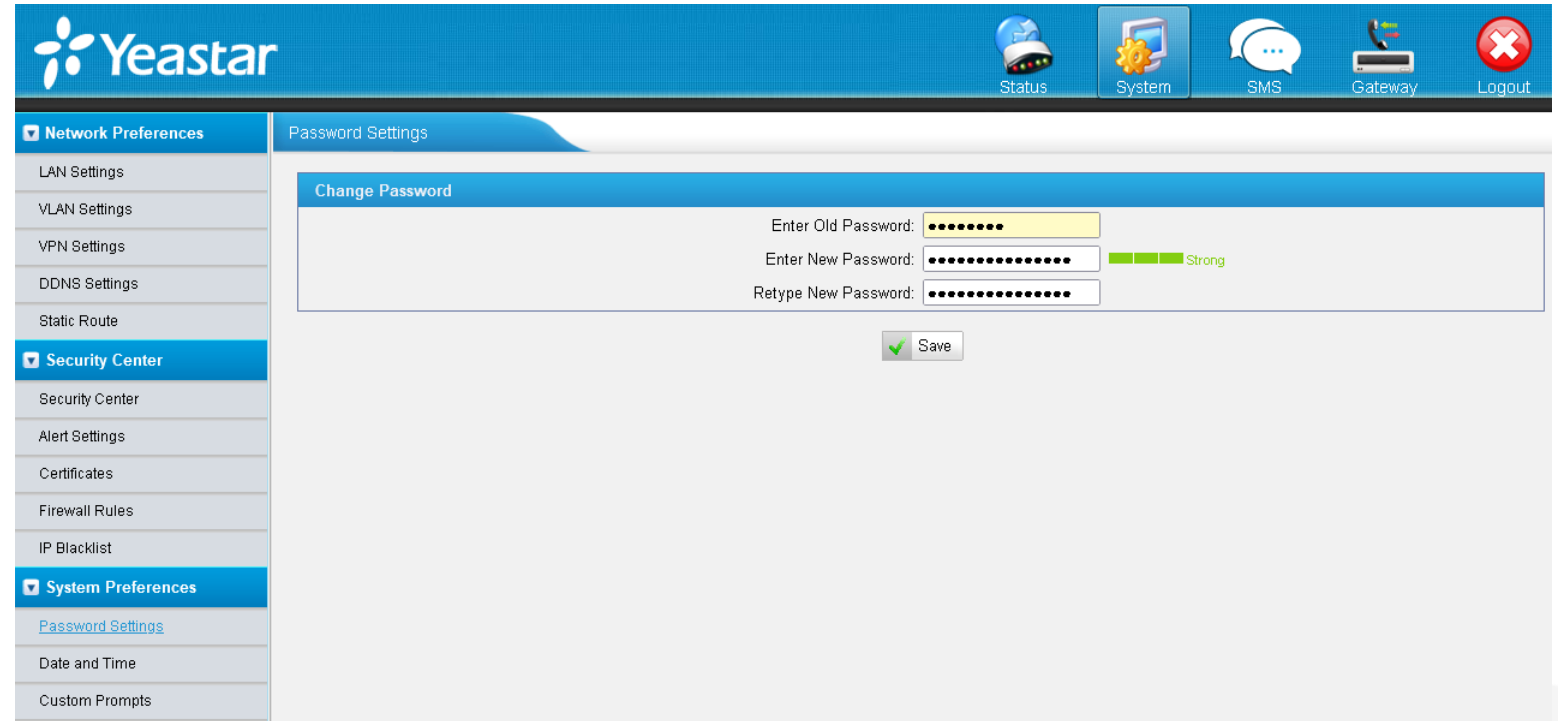
Configuration of the Yeastar TG100

- Web GUI
- Password
- LAN settings
- GSM port
- VoIP account
- Call routes

- Enter the default IP address of the Yeastar TG100 in a web browser.
 - IP: 192.168.5.150
- If the connection cannot be established, you need to configure the network card in your PC to be in the same subnet as the Yeastar TG100. For example:
 - IP address: 192.168.5.100
 - Subnet mask: 255.255.255.0
 - Gateway: 192.168.5.1
- Enter the default credentials to login when the welcome screen of the Yeastar TG100 is displayed in your browser.
 - User Name: admin
 - Password: password



- It is highly recommended to change the password after the first login.
- Click on **System** on the top right corner of the Web GUI.
- On the left, open **System Preferences** and select **Password Settings**.
- Enter a new password.



- Changing the IP address of the Yeastar TG100 is possible under **System > Network Preferences > LAN Settings**.
- Enter IP address parameters that match your local network.

The screenshot shows the Yeastar web interface with the following configuration details:

Field	Value
DHCP	No
Enable SSH	No (Port: 8022)
Enable FTP	No (Port: 21)
Hostname	TG100
IP Address	192.168.5.150
Subnet Mask	255.255.255.0
Gateway	192.168.5.1
Primary DNS	192.168.5.1
Secondary DNS	
IP Address2	
Subnet Mask2	

Buttons: Save, Cancel

- Manage GSM port and SIM card under **Gateway > Mobile List > Mobile List**.
- Click on the **Edit** button to change the parameters of the GSM Port, e.g.:
 - Audio Gain Rx/Tx
 - SIM Pin Code
 - Carrier

Port	Trunk Name	Type	Single Call Max Duration	Max. Call Duration(s)	Call Duration(s)	Enable/Disable	Power On/Off	Reboot Module
1	Telecom	GSM	0	0	0	Disable	Power Off	Reboot

- The Yeastar TG100 has an integrated SIP-Server.
- Create a VoIP account or edit one of the preconfigured accounts under **Gateway > VoIP Settings > VoIP Trunk**.
- The MAGIC telephone hybrid connects to that VoIP account.
- Account settings:
 - TYPE: Set to **SIP**.
 - NAME: Enter any name.
 - ACCOUNT: Create a User Name for the account.
 - PASSWORD: Create a password for the account.

The screenshot displays the Yeastar web interface. At the top, the Yeastar logo is on the left, and navigation icons for Status, System, SMS, Gateway, and Logout are on the right. A left sidebar menu is visible, with 'VoIP Settings' selected and 'VoIP Trunk' highlighted. The main content area shows 'VoIP Trunks' with a table listing two accounts: Account1 and Account2, both of Type 'Account', using SIP/IAX transport over udp. An 'Edit Account' dialog box is open, showing the 'General' tab with the following fields: Type (SIP), Name (Account1), Account (20001), and Password (pincode20001). Save and Cancel buttons are at the bottom of the dialog.

Name	Type	SIP/IAX	Transport	Hostname/IP
Account1	Account	SIP	udp	--
Account2	Account	SIP	udp	--

- Configure the GSM to VoIP routes under **Gateway > Routes Settings > Mobile to IP.**
 - The route defines that an incoming call via GSM is routed directly to the corresponding VoIP account.
- Edit the preconfigured route and set the parameters. (If no route is configured, click on **Add Mobile to IP Route.**)
 - SIMPLE MODE: Yes.**
 - ROUTE NAME:** Enter any name.
 - CALL SOURCE:** Select the GSM port.
 - CALL DESTINATION:** Select the respective SIP account.
 - HOTLINE:** Not required.

The screenshot shows the Yeastar web interface. The top navigation bar includes the Yeastar logo and icons for Status, System, SMS, Gateway, and Logout. The left sidebar contains a menu with categories: Mobile List, VoIP Settings, and Routes Settings. The 'Routes Settings' category is expanded, showing 'Mobile to IP' as the selected option. The main content area displays a table with one route named 'default' in 'Simple Mode' with 'Telecom' as the call source and 'Account1' as the call destination. An 'Edit Route' dialog box is open over this table, showing the following configuration:

- Simple Mode: Yes
- Route Name: default
- Match Incoming Calls:
 - Call Source: Mobile -- Telecom
- Incoming Calls Processing:
 - Call Destination: SIP Account-- Account1
 - Hotline: (empty field)

At the bottom of the dialog box are 'Save' and 'Cancel' buttons.

- Configure the VoIP to GSM routes under **Gateway > Routes Settings > IP to Mobile**.
 - The route defines that an incoming call via VoIP is routed directly to the corresponding GSM port.
- Edit the preconfigured route and set the parameters. (If no route is configured, click on **Add IP to Mobile Route**.)
 - SIMPLE MODE:** **Yes**.
 - ROUTE NAME:** Enter any name.
 - CALL SOURCE:** Select a SIP Account.
 - CALL DESTINATION:** Select the respective GSM port.
 - HOTLINE:** Not required.

The screenshot displays the Yeastar web interface for configuring IP to Mobile routes. The main menu on the left includes 'Mobile List', 'VoIP Settings', and 'Routes Settings'. The 'IP to Mobile' configuration page is active, showing a table with one route named 'default'. An 'Edit Route' dialog box is open, allowing for the configuration of the selected route. The dialog includes fields for 'Simple Mode' (set to 'Yes'), 'Route Name' (set to 'default'), 'Match Incoming Calls' (empty), 'Call Source' (set to 'SIP Account-- Account1'), 'Incoming Calls Processing' (empty), 'Call Destination' (set to 'Mobile -- Telecom'), and 'Hotline' (empty). 'Save' and 'Cancel' buttons are located at the bottom of the dialog.

Route Name	Simple Mode	Call Source	Call Destination
default	yes	Account1	Telecom

Yeastar TG100

System Status

- GSM / VoIP Status
- Network Status

- Open **Status > System Status > Trunk Status**.
- Find the status of the GSM port at the top.
 - **SIGNAL:** GSM signal strength.
 - Red / no bar: No signal.
 - Green / 1 - 4 bars: Poor - excellent signal
 - **STATUS:**
 - Failed: There is no SIM card inserted.
 - Idle: A SIM card is inserted. There is no call.
 - Busy: The port is in use.
- Find the status of the VoIP accounts at the bottom.
 - **STATUS:** Indicates whether a SIP client has registered with the internal SIP server.
 - Registered: A client is registered.
 - Unregistered: No client is registered.

The screenshot shows the Yeastar web interface. The top navigation bar includes the Yeastar logo and icons for Status, System, SMS, Gateway, and Logout. The left sidebar contains a menu with 'System Status' (expanded), 'Reports', 'Network Status', and 'System Info'. The main content area is titled 'Trunk Status' and contains three tables.

Port	Trunk Name	Status	Signal	Carrier	Available Duration
1	Telecom	Idle	Yril	E-Plus	Unlimited

Status	Trunk Name	Type	User Name	Hostname/IP	Reachability
No VoIP Trunks Defined					

Status	Account	Type
Registered	20001	SIP
Unregistered	20002	SIP

- Open **Status > System Status > Network Status**.
- The IP parameters currently used by the TG100 are displayed.

The screenshot displays the Yeastar web interface. The top navigation bar includes the Yeastar logo and icons for Status, System, SMS, Gateway, and Logout. The left sidebar shows a menu with 'System Status' expanded, containing 'Trunk Status', 'Network Status' (selected), and 'System Info'. Under 'Reports', there are 'Call Logs' and 'System Logs'. The main content area is titled 'Network Status' and shows the 'LAN' configuration for the device. The configuration details are as follows:

Hostname :	TG100
MAC Address :	f4:b5:49:fa:e0:ec
IP Address :	192.168.5.150
Subnet Mask :	255.255.255.0
Gateway :	192.168.5.1
Primary DNS :	192.168.5.1
Secondary DNS :	

MAGIC Telephone Hybrid

Configuration of a MAGIC telephone hybrid

- The example is based on MAGIC TH2plus.

- Open the Configuration of the MAGIC TH2plus via **Menu > Configuration > System.**
- Go to the VoIP (LAN/SIP) configuration page.
- Enter the IP address of the Yeastar TG100 as **SIP-Server.**
- Enter the account created on the Yeastar TG100 in the column **User Name.**
- Enter the password configured on the Yeastar TG100 in the column **Password.**

The screenshot shows the 'VoIP (LAN/SIP)' configuration page. On the left, a tree view shows the navigation structure with 'VoIP (LAN/SIP)' highlighted. The main configuration area includes:

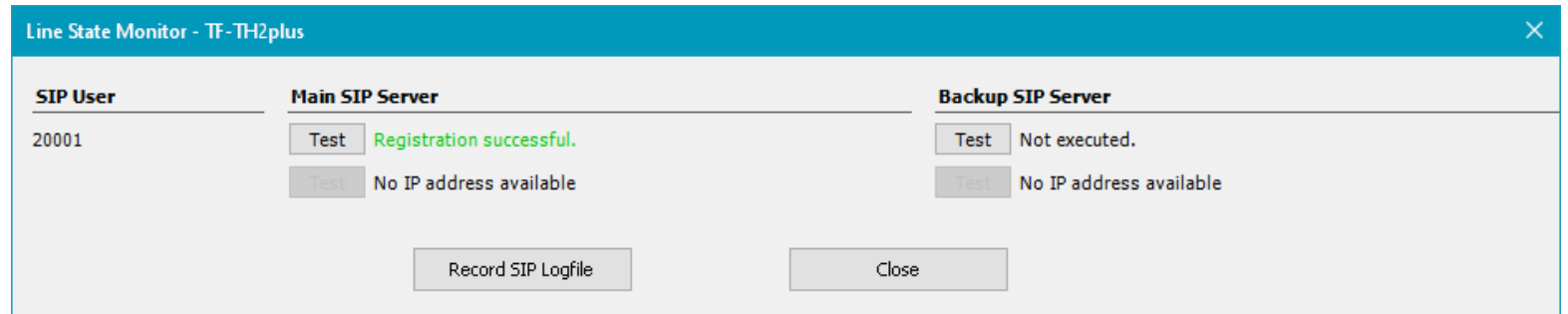
Line	SIP Server	Backup Server	TCP	STUN	User Name	User Authentic...	Password	Audio Port	Displayed Name	DTMF Tx
Line 1	192.168.5.150		<input type="checkbox"/>	<input type="checkbox"/>	20001		***	5004		Inband
Line 2			<input type="checkbox"/>	<input type="checkbox"/>				5006		Inband

Below the table, there are several configuration sections:

- STUN Server Parameters:** STUN Server (text input), NAT Keep Alive Message Time: 20 sec (5..60).
- Quality of Service (DiffServ):** Voice: 46 (EF) (0..63) DiffServ: 184dec; SIP: 26 (AF 31) (0..63) DiffServ: 104dec. Includes a 'Default Settings' button.
- VoIP Parameter:** Payload Time: 20 msec (slider), A-Law/μ-Law Signalling on incoming G.722 calls (checkbox), Use first codec of SDP audio codec list as default (checkbox).
- Registration:** Delay between SIP lines: 0 msec (0..4000), Timeout: 60 sec (60..500).

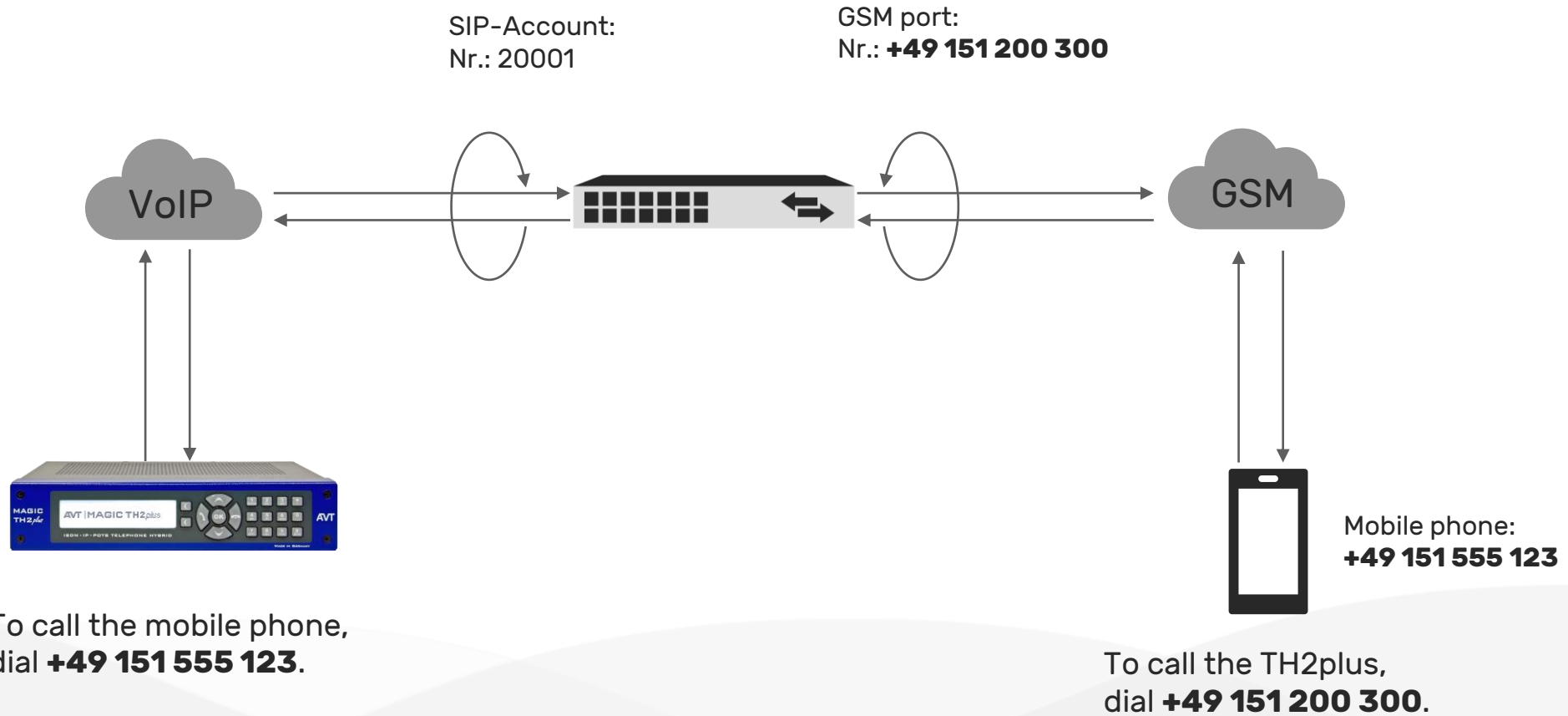
At the bottom right, there are buttons for 'OK', 'Abbrechen', and 'Apply Now'.

- Open the SIP State Monitor of the MAGIC TH2plus via **Menu > System Monitor > SIP State Monitor**.
- Check the status of the VoIP lines.
 - SIP USER: The SIP account used for registering.
 - MAIN SIP SERVER: The registration status of the line on the SIP server of the Yeastar TG100.
 - REGISTRATION DONE SUCCESSFULLY: The VoIP line is registered.
 - OTHER: The line could not be registered. A message is displayed with more information about the error.
 - BACKUP SIP SERVER: Not available in this setup.



Operation

Yeastar TG100 GSM Gateway and MAGIC TH2plus



Troubleshooting

- If the Yeastar TG100 does not respond to SIP messages of the telephone hybrid, check the Blacklist Rules under **System > Security Center > Security Center**.
- Press **IP Blacklist** to check the Blacklist Rules and the status.

The screenshot displays the Yeastar web interface. The top navigation bar includes the Yeastar logo and icons for Status, System, SMS, Gateway, and Logout. The left sidebar is expanded to show the Security Center section, with 'IP Blacklist' selected. The main content area shows the 'Firewall' tab with a table of settings.

Function	Status	Note	Setting
Firewall Switch	Enabled	No rules	Setting
Drop All	Disabled		Setting
Blacklist Rules	Configured	The number of blacklist rules is:3	IP Blacklist
Alert Settings	Not Configured	It is recommended that you configure Alert Settings.	Alert Settings

- **BLACKLIST RULES:** You may edit or delete the default Blacklists at the top if the telephone hybrids is incorrectly blocked.
- **IP BLACKLIST:** IP addresses blocked by the Yeastar TG100 based on the blacklist rules are listed here.
 - Check whether the IP address of the telephone hybrid is listed here.
 - An IP can be unblocked by deleting the entry from the IP Blacklist.

The screenshot shows the Yeastar web interface for configuring IP Blacklists. The top navigation bar includes icons for Status, System, SMS, Gateway, and Logout. The left sidebar menu is expanded to show 'Security Center' > 'IP Blacklist'. The main content area is titled 'IP Blacklist' and contains the following sections:

- Blacklist Rules:** A table with columns for Port, Protocol, and Rate. It lists three rules:

Port	Protocol	Rate		
5060	UDP	120/60s		
5060	UDP	40/2s		
8022	TCP	5/60s		
- IP Blacklist:** A section with a 'Delete The Selected Blacklist' button, a 'Total: 0' indicator, and a 'View: 25' dropdown menu. Below this, it states 'No Auto Black IP Address'.

At the bottom right of the page, there is a pagination control: '<<Prev Next>> Page : 0 / 0 Goto'.



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Support

A modern, multi-story office building with a glass facade and a prominent white AVT logo on the roof. The building is set against a cloudy sky. A large, semi-transparent red graphic element is overlaid on the right side of the image, partially obscuring the building's facade. The overall image has a high-contrast, slightly desaturated appearance.

AVT

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