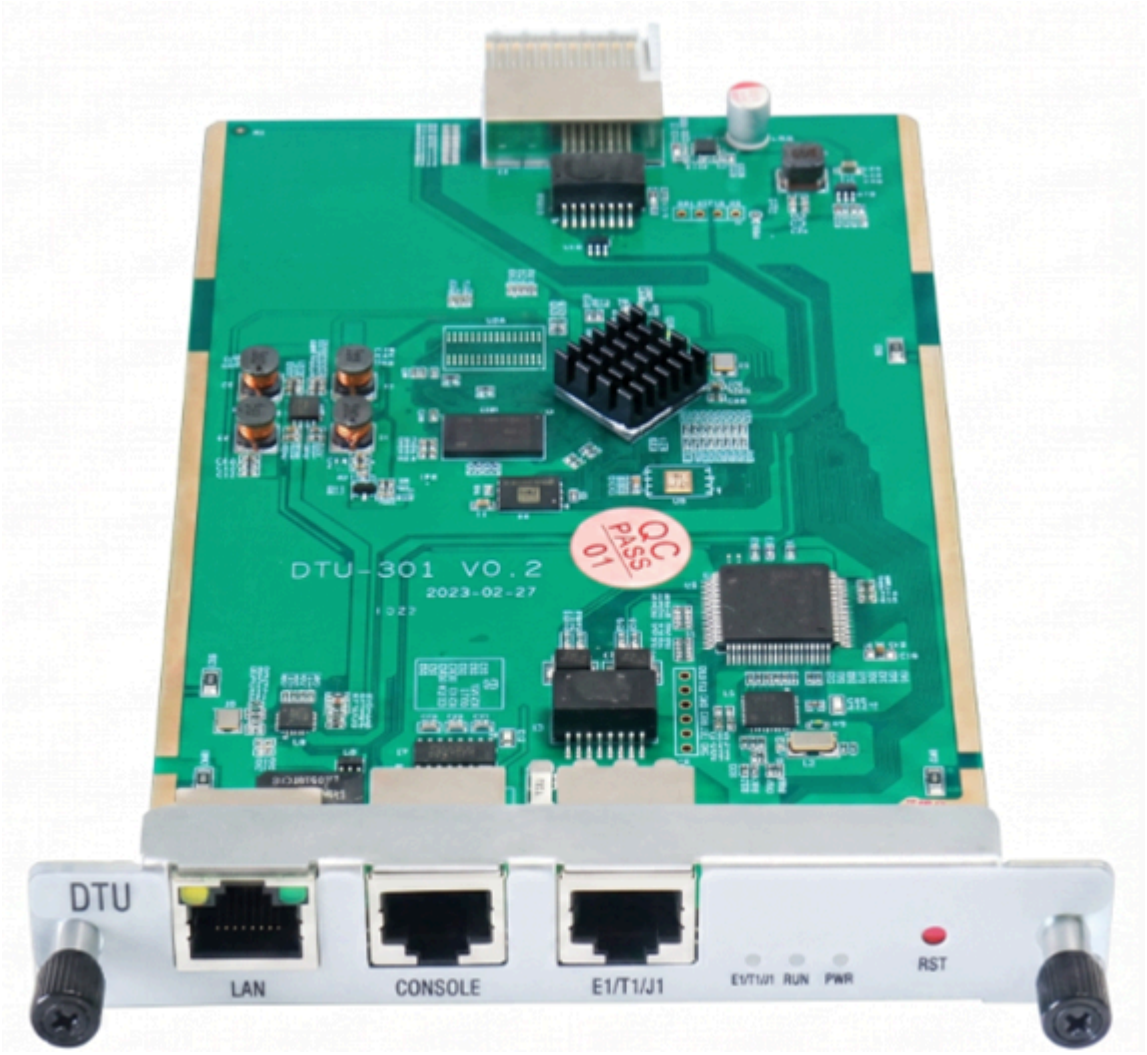
DTU-30X Digital Gateway User Manual



Version 2.0

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Revision History

Version	Release Date	Description
2.0	25/5/2026	

Document Information

- Product: DTU-30X
- Document Type: User Manual
- Interface Type: 1/2/4 E1/T1 port

1. Overview

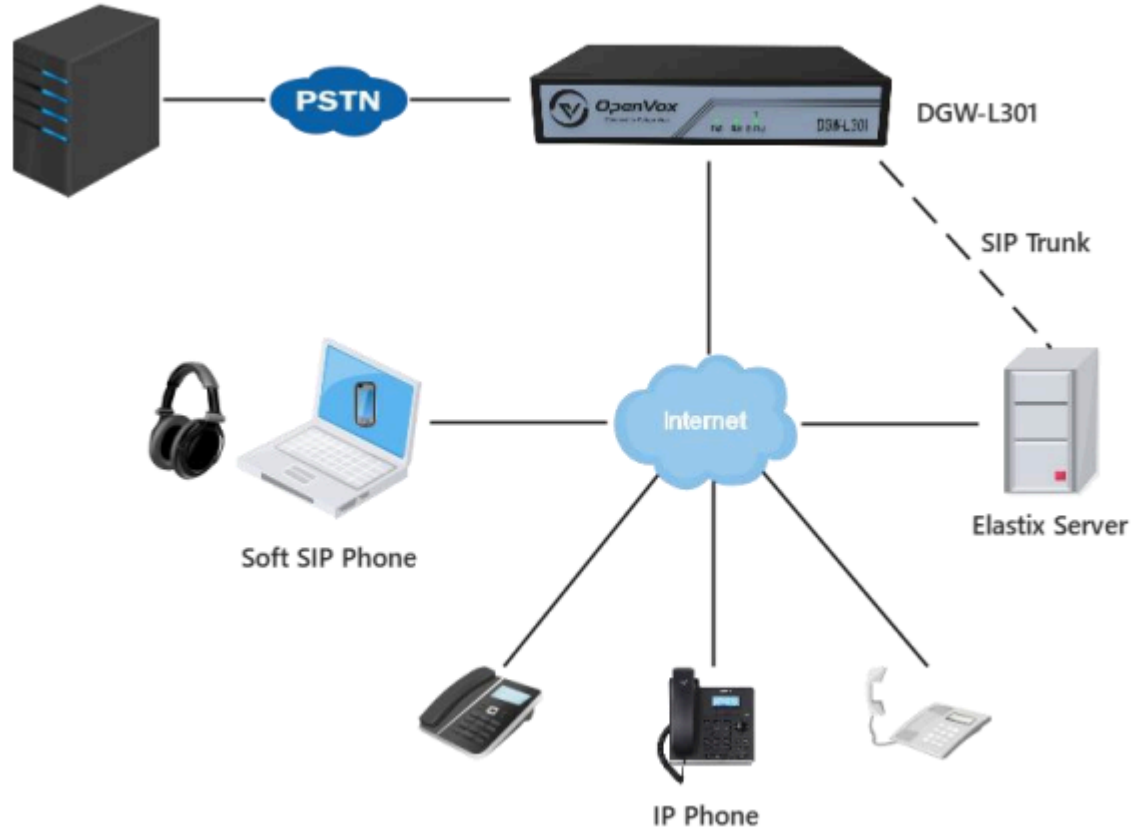
1.1 Product Introduction

The OpenVox Digital Gateway service board includes DTU-301, DTU-302, and DTU-304, which support 1, 2, and 4 T1/E1/PRI ports, respectively, and support 30, 60, and 120 concurrent calls.
This series of devices is a new generation of converged media gateways, which can realize the perfect integration of traditional TDM communication and VoIP networks, support multiple signaling protocols (PRI, R2, SS7) and multiple codec formats, and can be seamlessly compatible with mainstream IPPBX, soft switching, and IMS platforms. Users can easily complete the configuration through the intuitive web GUI, and support OpenAPI interface development, which is suitable for various scenarios such as operators, enterprise-level call systems, and call centers.

1.2 Typical Applications

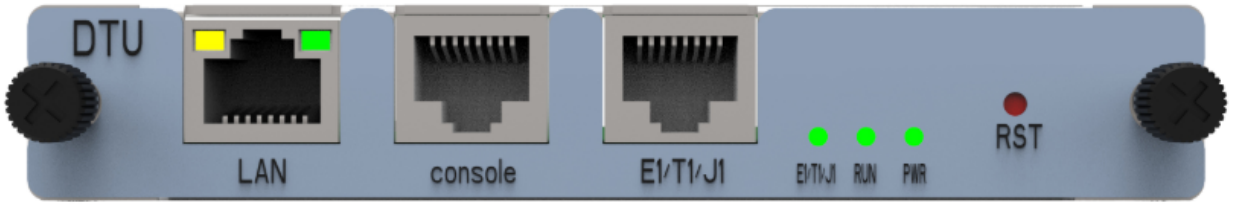
DTU-30X series typical applications are shown in the diagram, enabling enterprise branch interconnection, smooth transition from traditional PBX to IP, remote voice access, and other applications.

Figure 1-2-1 Application Topology



1.3 Product Appearance

DTU-30X series product front and rear panel design continues the OpenVox industrial style, providing stable and reliable interface layout.
The new RS232 (RJ45) console port makes engineering-level debugging and maintenance easier.



1.4 Software Features

	L301	L302	L304
Telephony Ports (E1/T1)	1	2	4
Concurrent Calls	30	60	120
Signaling Support	PRI, R2, SS7, multi-country standards compatible		
Voice Codecs	Supports G.711A/U, G.723.1, G.729A/B, iLBC, OPUS, ARM, ARM-WB		
Fax Support	T.38 and G.711 pass-through, compatible with V.17./V.21./V.27./V.29		
SIP Standard	RFC3261 compliant, supports TLS/SRTP encryption		
QoS Policy	Supports ToS/DiffServe/802.1p priority tagging		
Network Protocols	IPv4/IPv6, TCP/UDP, RTP/RTCP, HTTP/HTTPS, DHCP, NTP, PPPoE, STUN		
Security	HTTPS, SIPS, 802.1x authentication, whitelist access control		
System Management	Supports SNMP, cloud management, OpenAPI, SSH remote CLI, scheduled reboot		
	Compatible platforms: Asterisk, Issabel, 3CX, FreeSWITCH, VOS, BroadSoft		

1.5 Hardware Features

	L301	L302	L304
Console Port	RS232(RJ45)		
Network Interface	2 * 10/100Mbps ports	2 * 1000Mbps ports	
Weight	1.2Kg	1.3Kg	1.4Kg
Dimensions	232mm* 152mm*45mm		
Max Power	12W		
Power Supply	12V 1A		
Operating Temperature	0℃~50℃		
Storage Temperature	-20℃~70℃		
Environmental Humidity	10%~90% non-condensing		

1.6 System Login and Initial Configuration

Default IP Address: 192.168.6.65

Username: admin

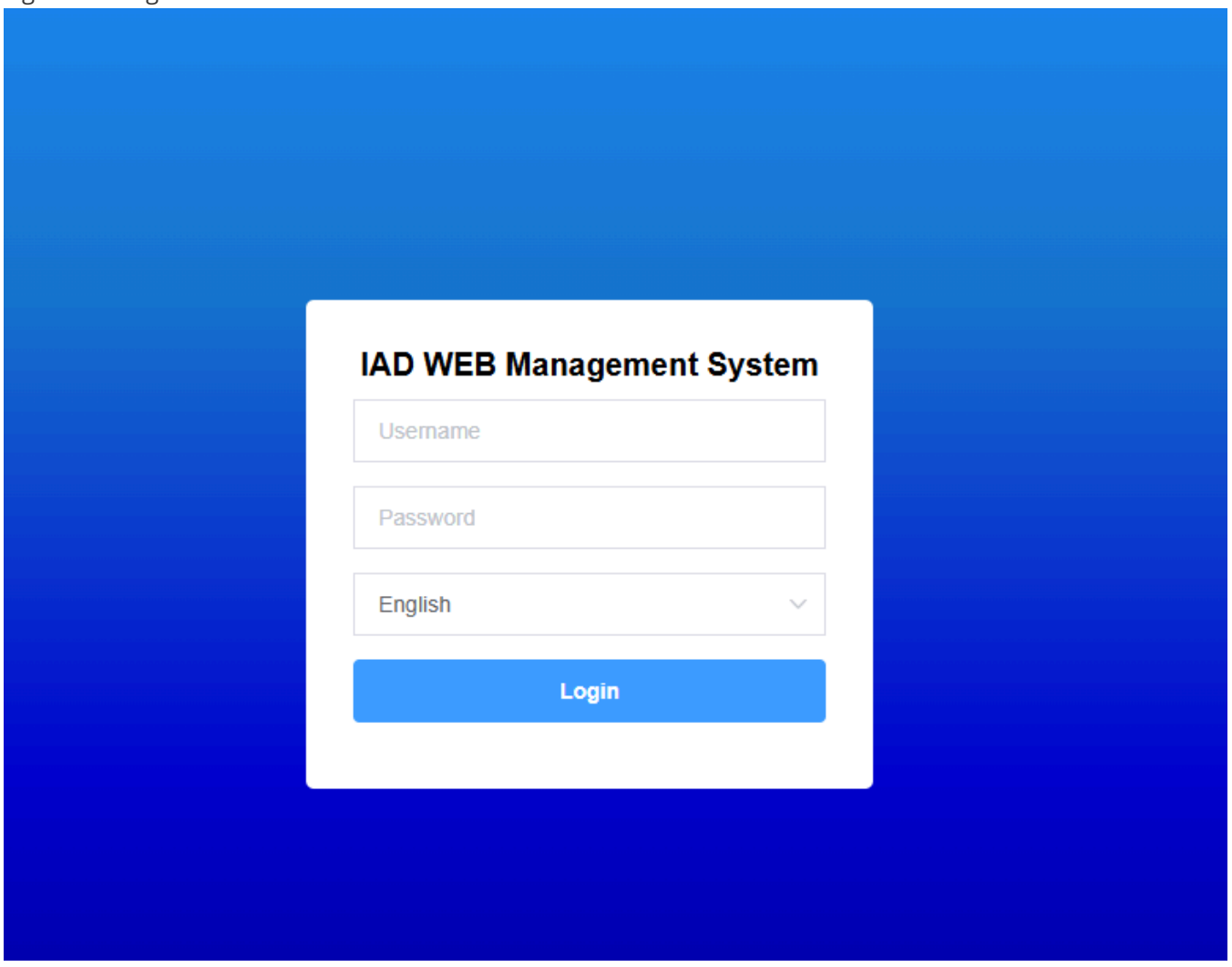
Password: admin

Connect the network cable to LAN1/LAN2, enter the default IP in the browser, and access the gateway for configuration.

Note: The default network mode of this product is bridge mode. Whether the network cable is connected to the WAN port or LAN port, the IP address is the same.

Open the browser, enter the default IP, and access the gateway login interface.

Figure 4-1 Login Interface



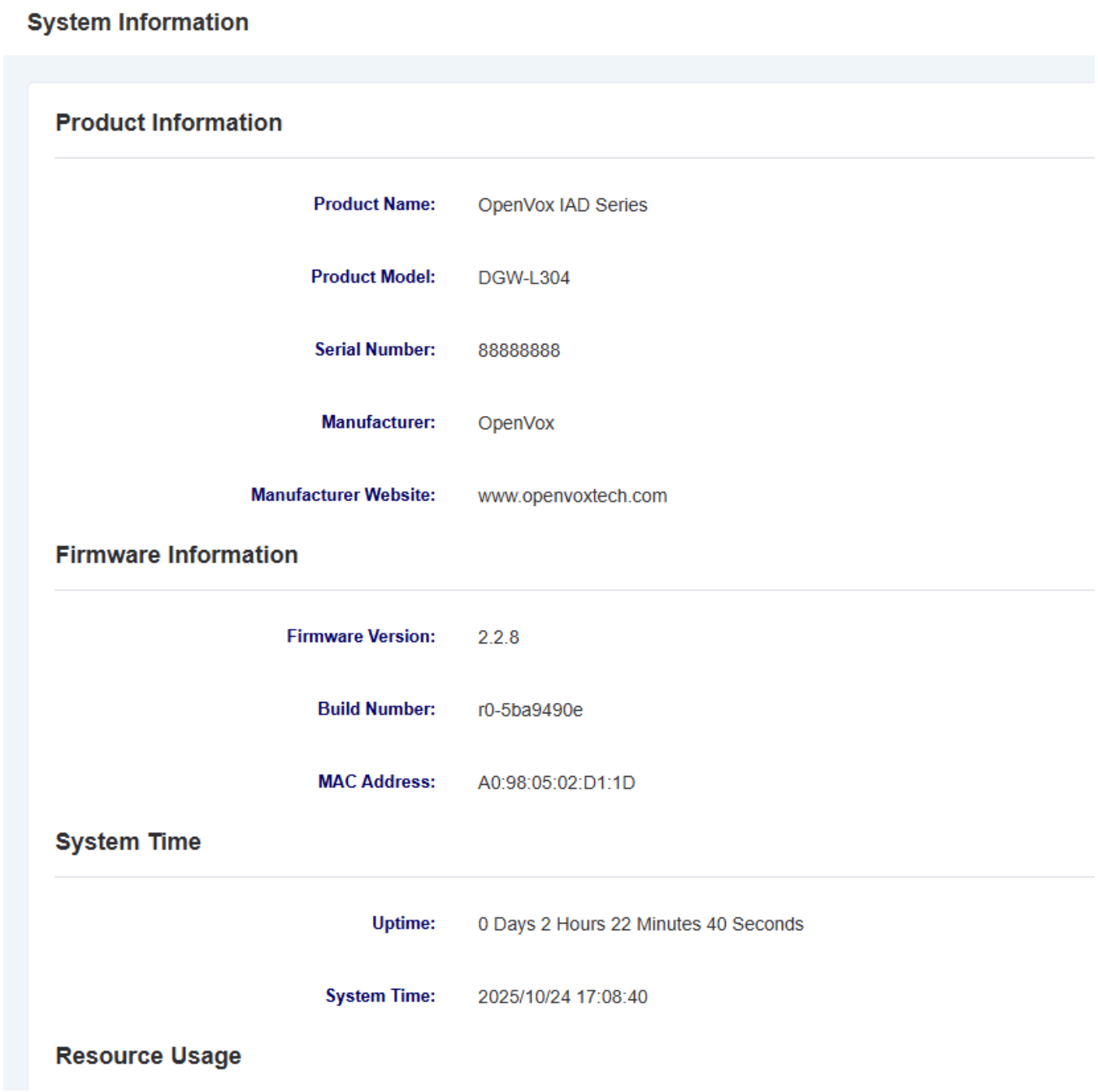
The default network mode is bridge mode, and the management page can be accessed from any interface (WAN/LAN).

2. Status

2.1 System Status

On the "System Status" page, product information, firmware information, system time, and resource usage are displayed.

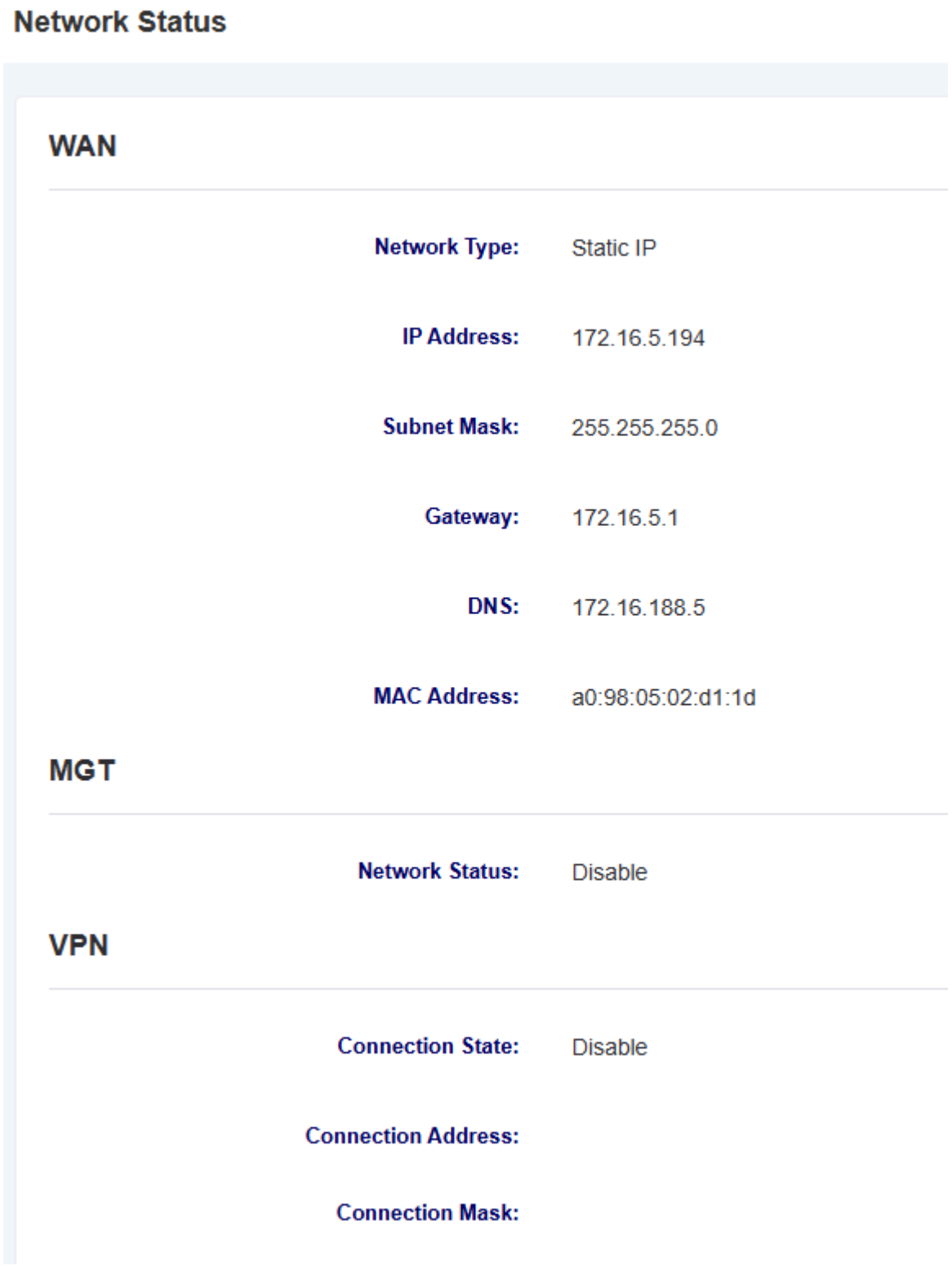
Figure 2-1-1 System Status Display



2.2 Network Status

On the "Network Status" page, network status and VPN connection status are displayed.

Network configuration interface is as follows:

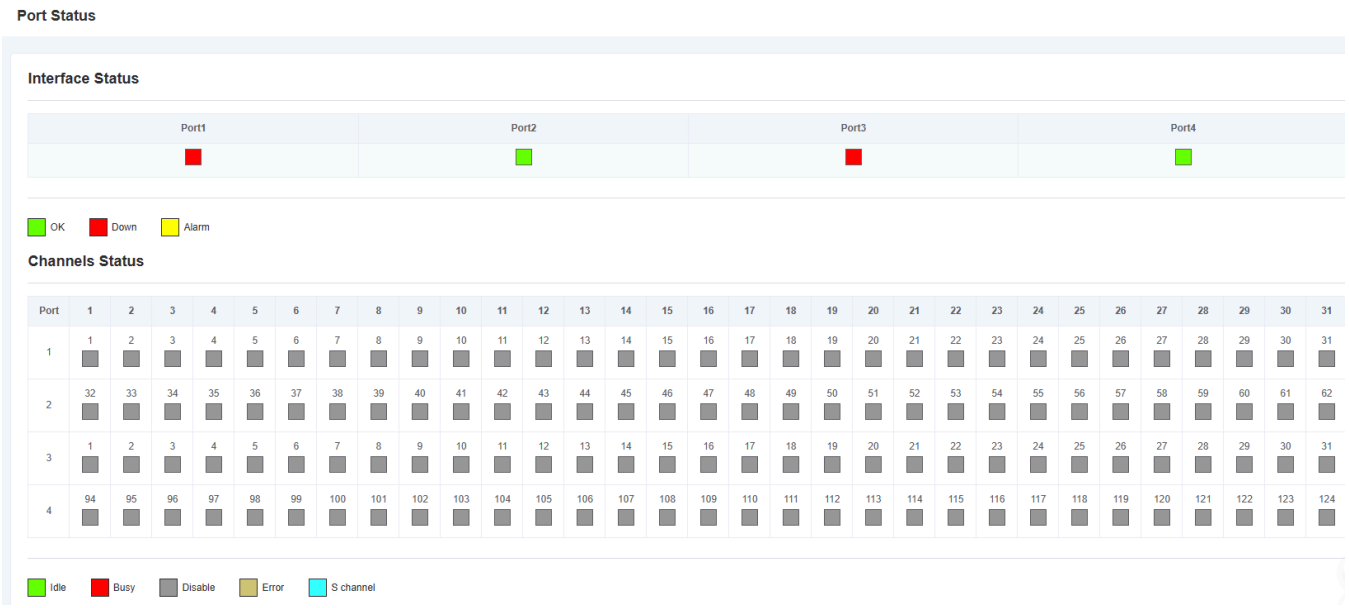


2.3 Port Status

On the "Port Status" page, port status and channel status are displayed.

Figure 2-3-1 Port Status

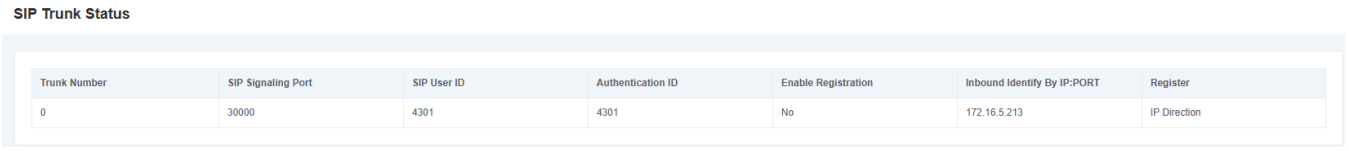
On the "Network Status" page, network status and VPN connection status are displayed.



2.4 SIP Trunk Status

On the SIP trunk status page, you can view the SIP trunk number, SIP signaling port, SIP user ID, authentication ID, registration status, IP direct sending table, and whether registered.

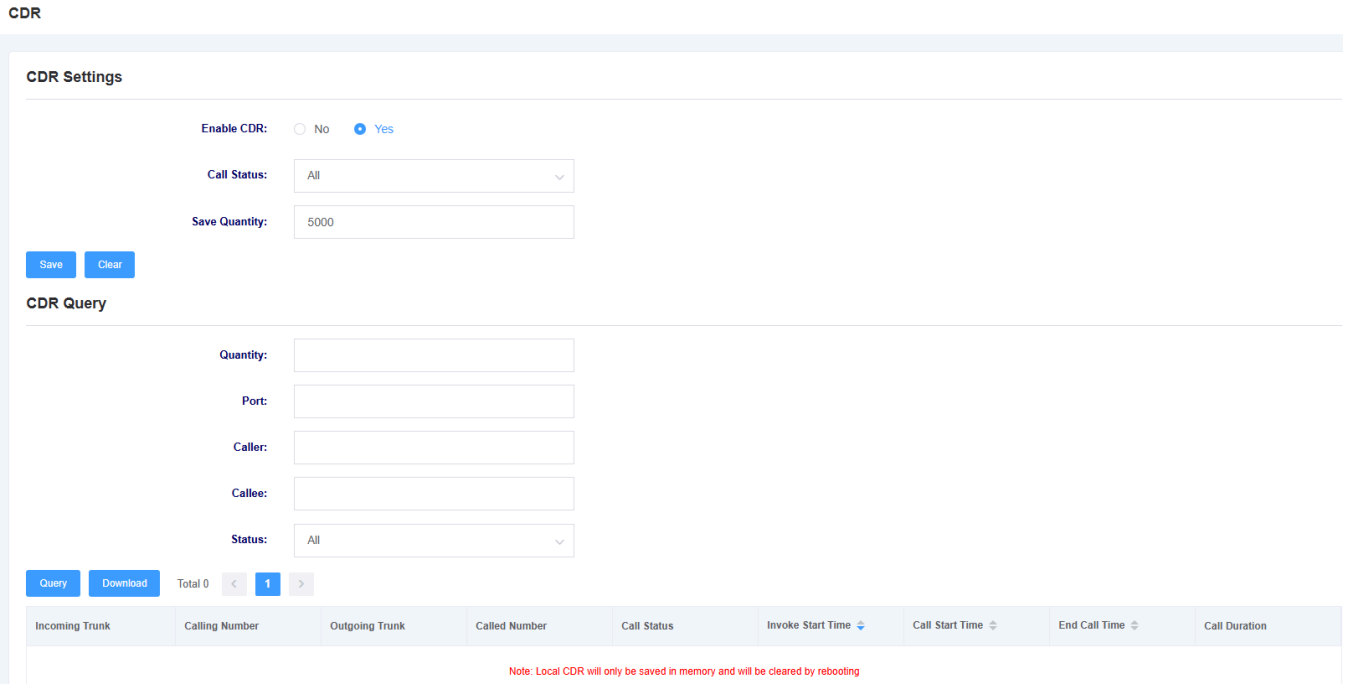
Figure 2-4-1 SIP Trunk Status Page



2.5 CDR

On the CDR page, users can configure CDR and query CDR

Figure 2-5-1 CDR



Note: CDR is only saved in memory and will be cleared upon reboot.

Table 2-5-1 CDR Options

Option	Description
Enable CDR	This option selects whether to enable CDR
Call Status	Select the call status saved by CDR
Save Quantity	Set the number of CDR entries saved
Quantity	Select the number of CDR queries
Port	Select the port for CDR query
Caller	Filter CDR query items by caller number
Callee	Filter CDR query items by callee number

3. Network Configuration

3.1 Local Network

Figure 3-1-1 Local Network Interface

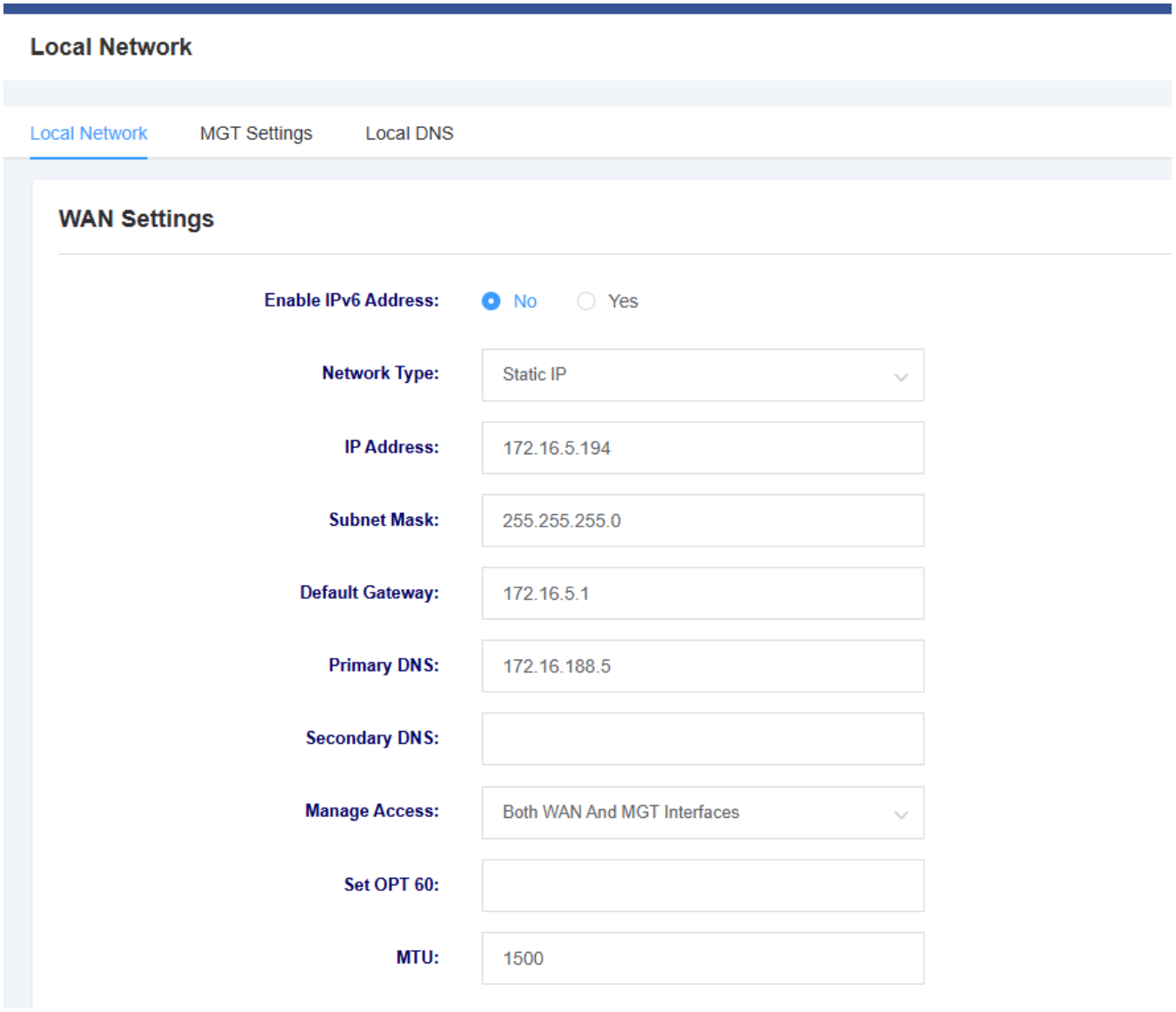


Table 3-1-1 WAN Settings Interface Parameter Description

Option	Description
Network Mode	Select device network mode
Network Type	Select network type: DHCP, Static IP, PPPoE
IP Address	Set the device's IP address
Subnet Mask	Set the device's subnet mask
Default Gateway	Set the device's default gateway
Primary DNS	Set the device's primary DNS

Option	Description
Backup DNS	Set the device's backup DNS
Management Access Option	Set web login restrictions
Set OPT 60	Set OPT 60
Option	Description
IP Address	Set the IP address of the LAN port
Subnet Mask	Set the subnet mask of the LAN port

Figure 3-1-2 Management Port Settings Interface

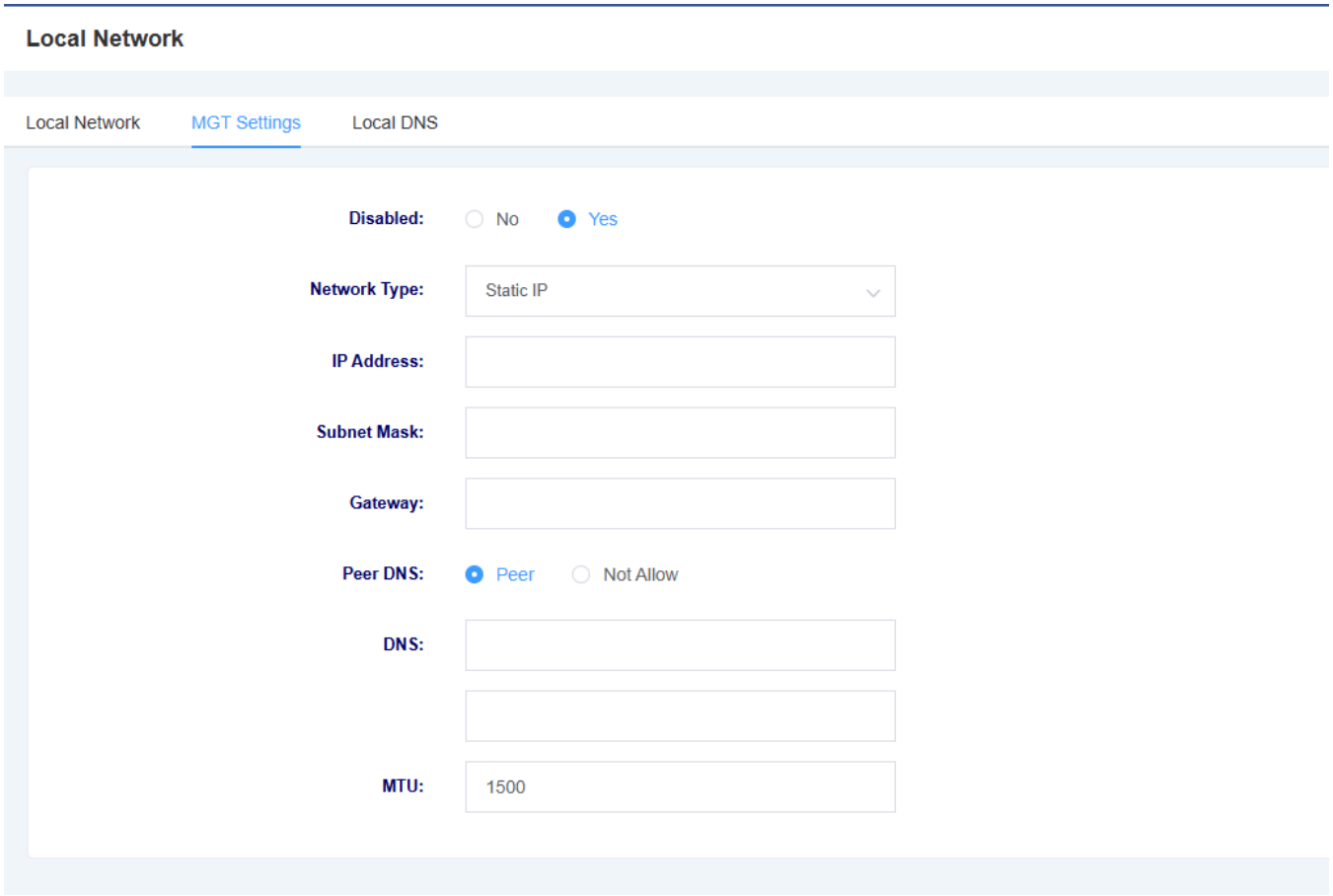


Table 3-1-2 Management Port Settings Interface Parameter Description

Option	Description
Disable	Whether to enable the management port
Network Type	Select network type: DHCP, Static IP, PPPoE
IP Address	Set the device's IP address
Subnet Mask	Set the device's subnet mask

Option	Description
Gateway	Set the device's gateway
Remote DNS	Select whether to allow remote DNS
DNS	Set the device's DNS

Figure 3-1-3 VLAN Settings Interface

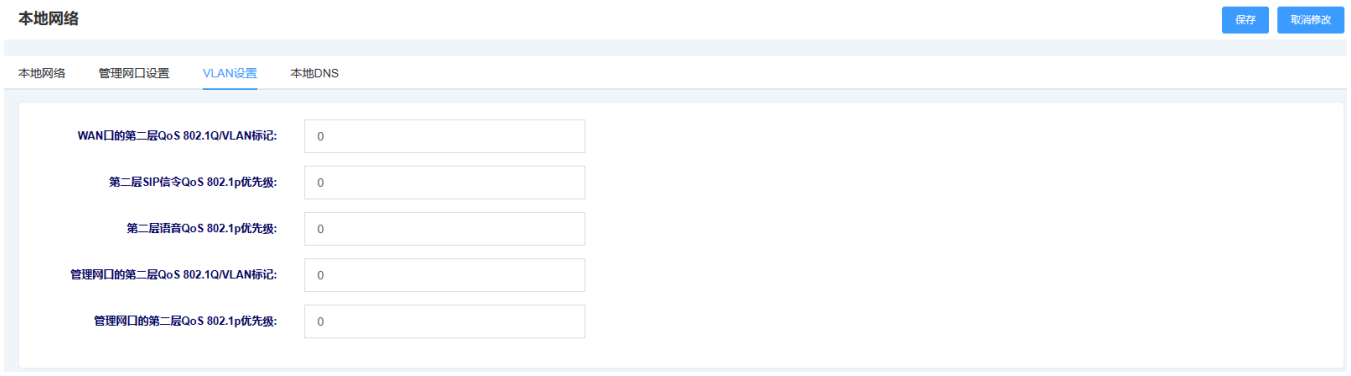


Table 3-1-3 VLAN Settings Interface Parameter Description

Option	Description
WAN Port Layer 2 QoS 802.1Q./VLAN Tag	Set WAN port tag
Layer 2 SIP Signaling QoS 802.1p Priority	Set SIP signaling priority
Layer 2 Voice QoS 802.1p Priority	Set voice priority
Management Port Layer 2 QoS 802.1Q./VLAN Tag	Set management port tag
Management Port Layer 2 QoS 802.1p Priority	Set management port priority

Figure 3-1-4 Local DNS Settings Interface

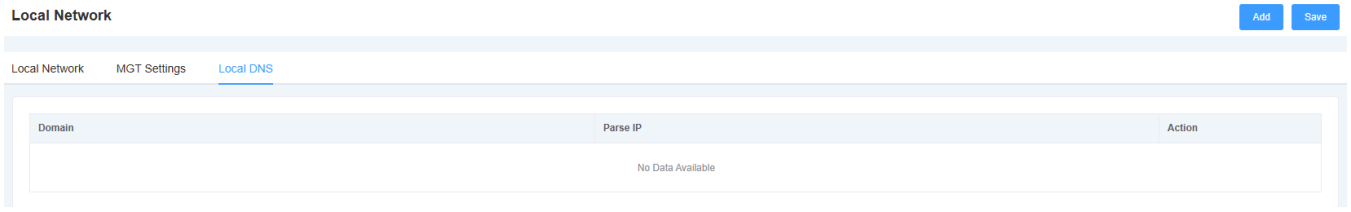


Figure 3-1-5 Add Local DNS Settings Interface

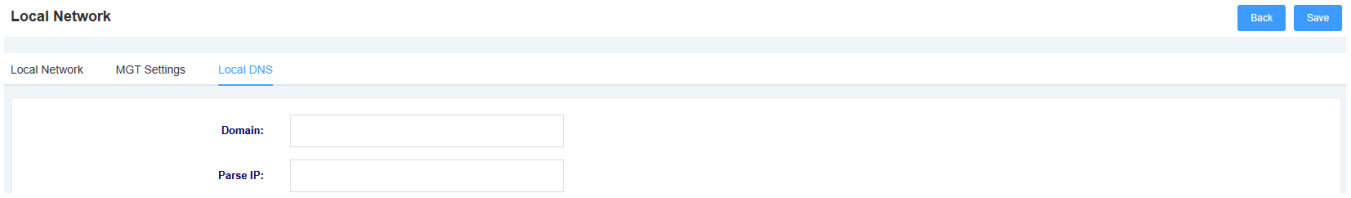


Table 3-1-4 Local DNS Interface Parameter Description

Option	Description
Domain Name	Set device domain name
Resolution IP	Set the IP to be resolved

3.2 Static Routes

On the "Static Routes" page, the network interface, destination IP address, subnet mask, gateway, hop count, and operations of static routes are displayed. Static routes can be added here. Click the Add button to add static routes.

Figure 3-2-1 Static Routes Interface

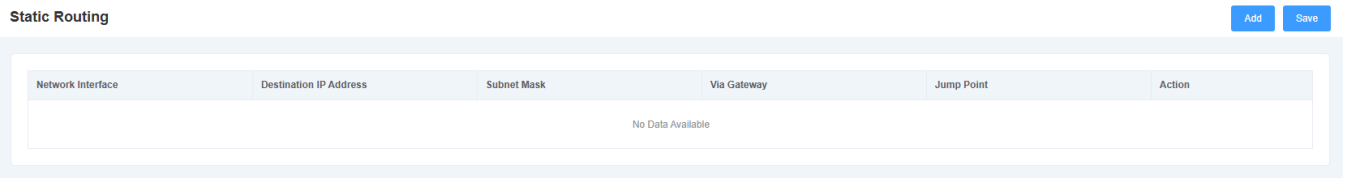
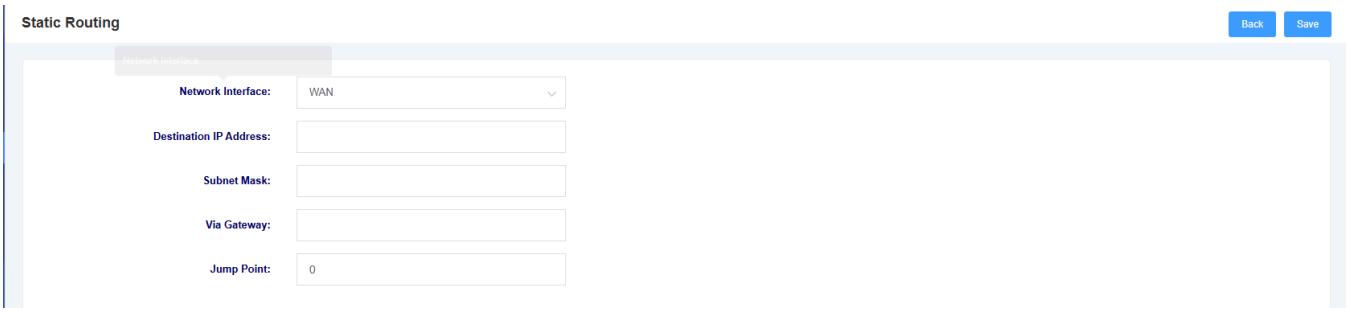


Figure 3-2-2 Add Static Route Interface



3.3 Firewall

On the "Firewall" page, the firewall rule name, protocol, source network domain, source IP, source port, destination network domain, destination IP, destination port, and rule action are displayed. Firewall rules can be added here to ensure device security. Click the Delete button to delete firewall rules, and click the Add button to add firewall rules.

Figure 3-3-1 Firewall Interface

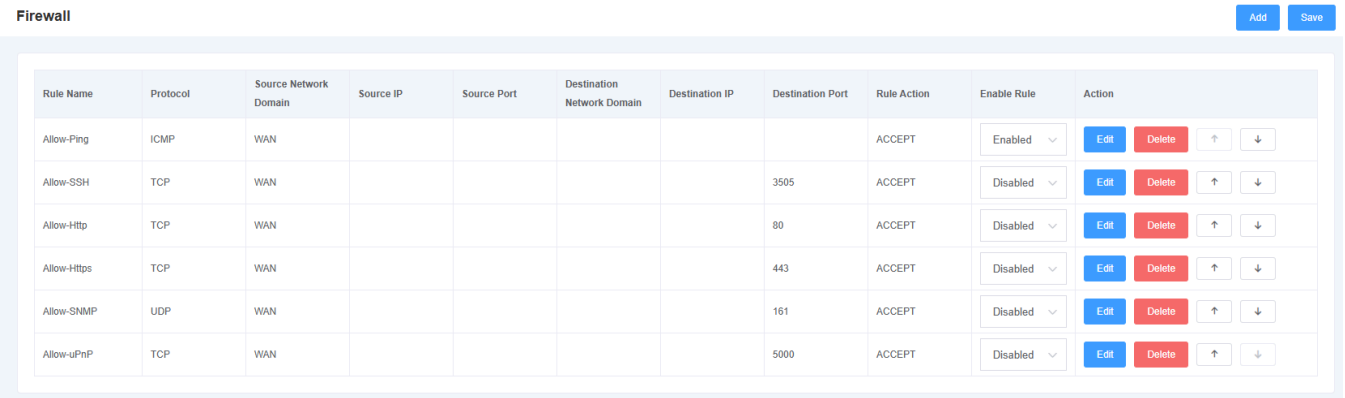


Figure 3-3-2 Add Firewall Rule Interface

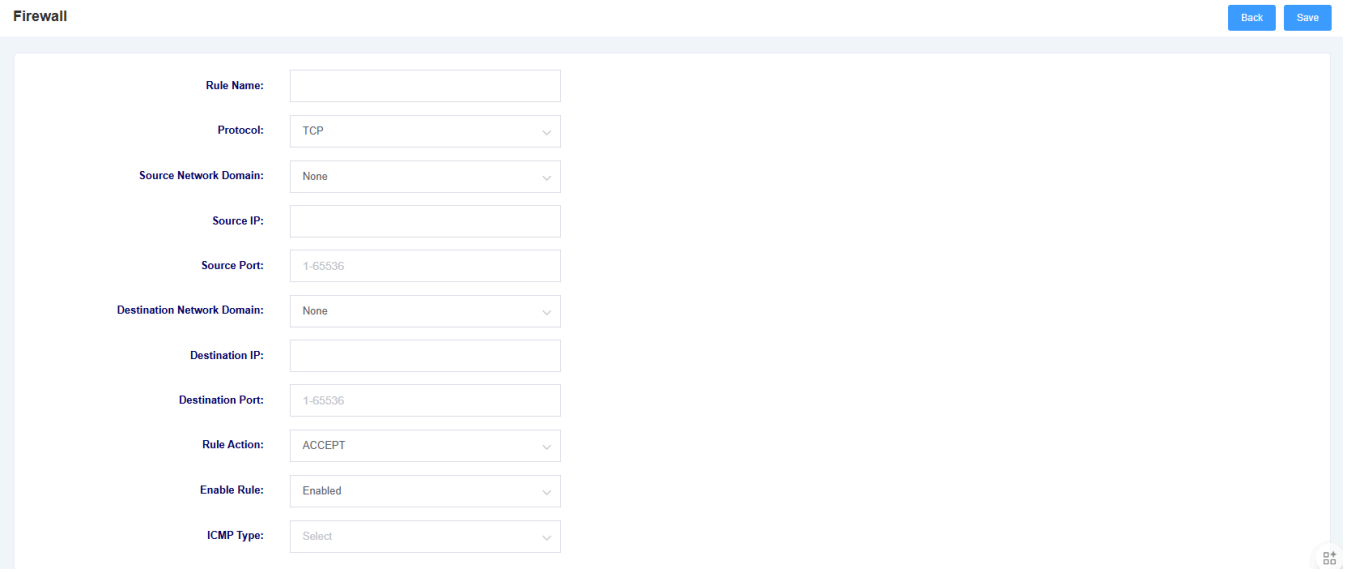


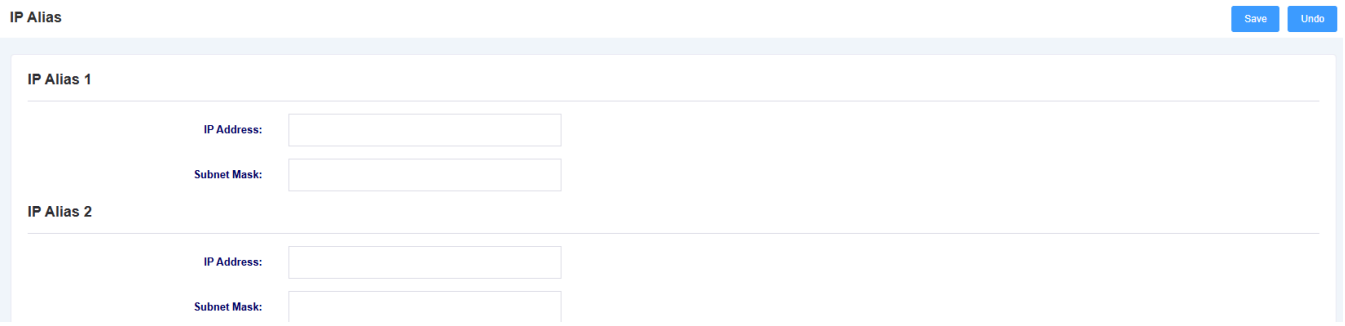
Table 3-3-1 Add Firewall Rule Parameter Description

Option	Description
Name	Firewall rule name
Protocol	Protocol restricted by the firewall rule
Source Network Domain	Source network domain of the firewall rule
Option	Description
Source IP	Source IP defined by the firewall rule, leave empty for all IPs
Source Port	Define source port, range is 1-65535
Destination Network Domain	Destination network domain of the firewall rule
Destination IP	Destination IP defined by the firewall rule, leave empty for all IPs
Destination Port	Define destination port, range is 1-65535
Rule Action	Define rule action, options are ACCEPT, REJECT, DROP

3.4 IP Alias

DTU-30X supports setting multiple IP addresses, which can be set in the IP Alias interface.

Figure 3-4-1 IP Alias Interface



3.5 VPN Settings

Figure 3-5-1 OpenVPN Settings Interface

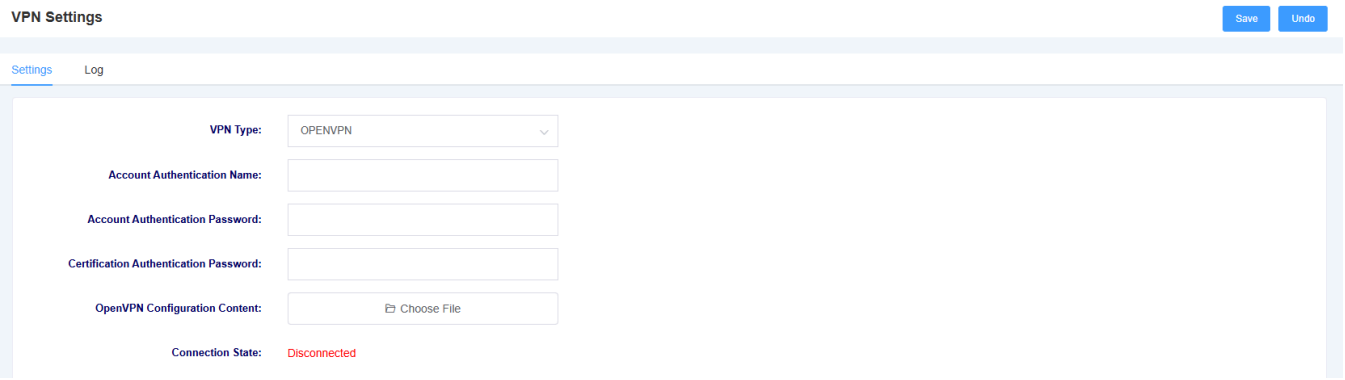


Table 3-5-1 VPN Settings Description

Option	Description
VPN Type	Can select to close VPN or use OpenVPN/SoftEther VPN
Account Authentication Name	Authentication name used by OpenVPN
Account Authentication Password	Authentication password used by OpenVPN
Cert Authentication Password	Cert authentication password
ovpn Configuration Content	Upload OpenVPN configuration file
Connection Status	Display VPN connection status

On the log page, you can select the number of log lines to display, then click the Query button. The log will be displayed in the "Log Result" box.

Figure 3-5-2 SoftEther VPN Settings Interface

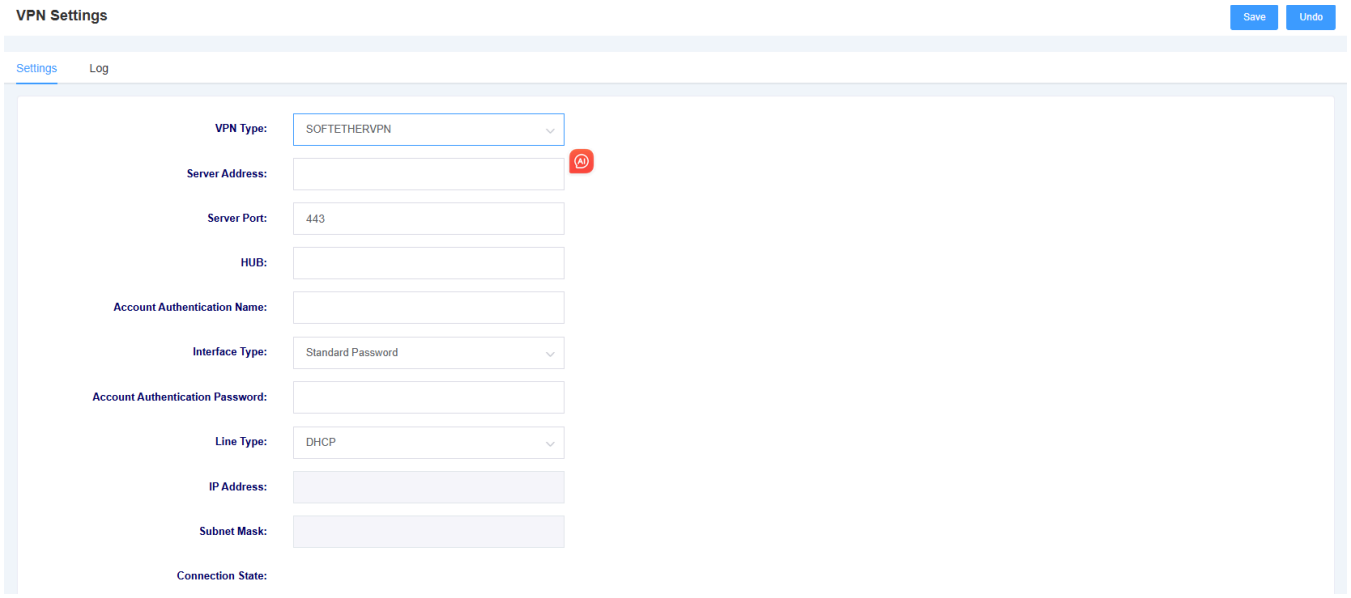
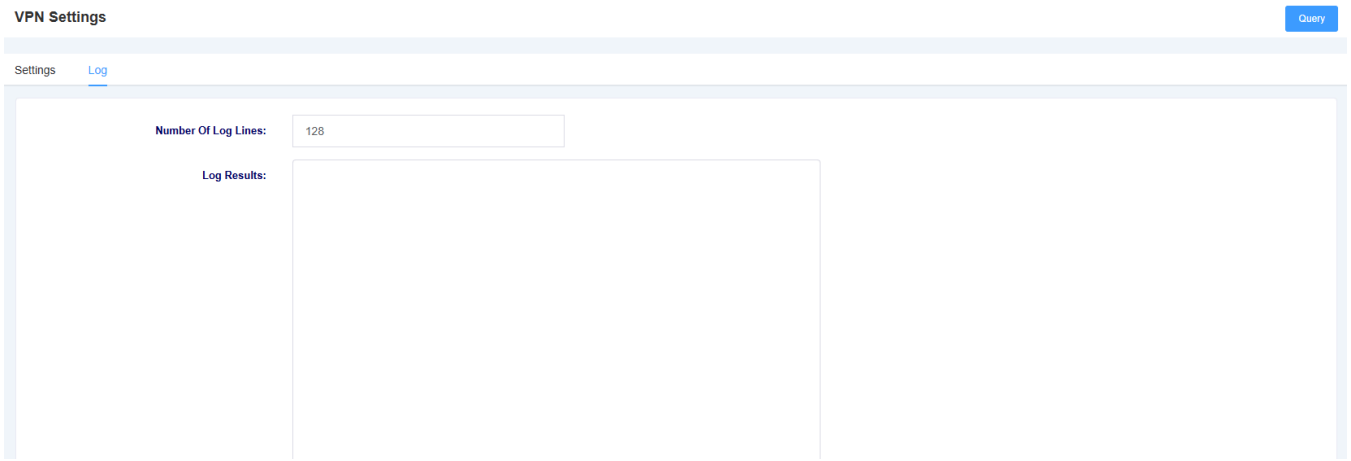


Table 3-5-2 SoftEther VPN Settings Description

Option	Description
VPN Type	Can select to close VPN or use OpenVPN/SoftEther VPN
Server Address	Server address used by SoftEther VPN
Server Port	Server port used by SoftEther VPN
Hub	Hub name
Interface Type	Select standard password or signature certificate
Account Authentication Password	Enter password
Certificate Cert	Authentication file
Certificate Key	Certificate Key
Connection Type	Select DHCP or Static IP
IP Address	Configure IP
Subnet Mask	Configure subnet mask
Connection Status	Display VPN connection status

Figure 3-5-3 VPN Log Interface



4. Template

DTU-30X provides a convenient SIP registration method. Users can conveniently apply preset templates to SIP trunks. A total of four templates are available for setting.

4.1 SIP Settings

Figure 4-1-1 SIP Settings

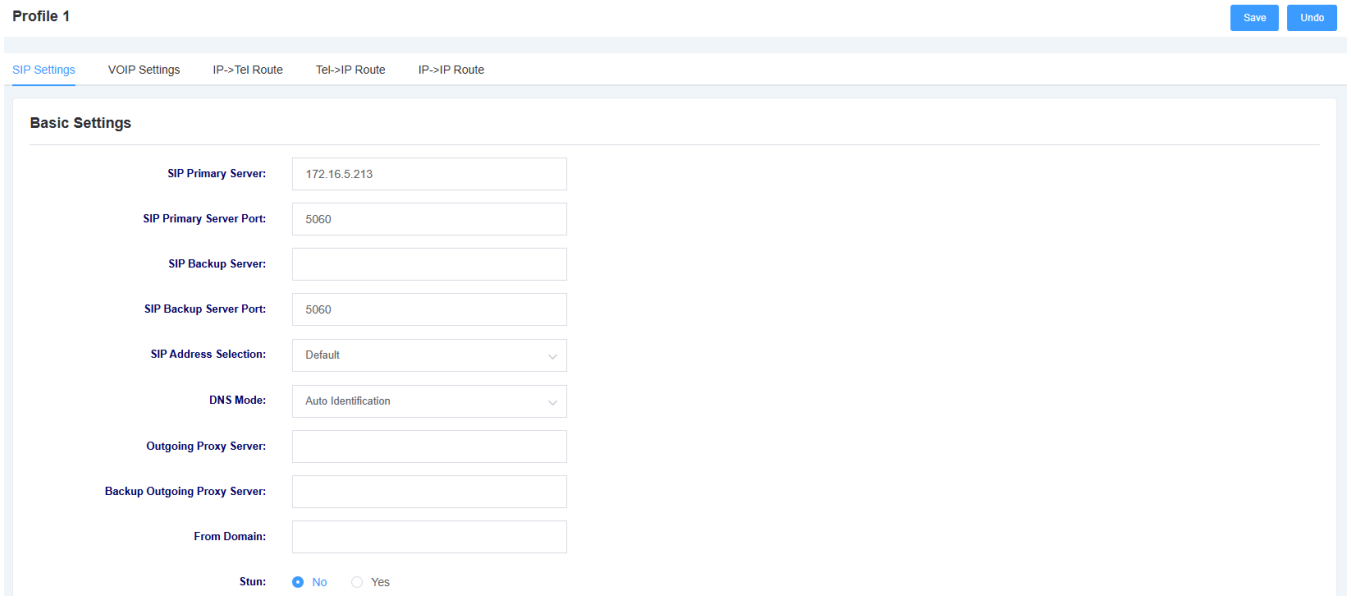


Table 4-1-1 SIP Settings Parameter Description

Option	Description
SIP Primary Server	Set SIP primary server
SIP Primary Server Port	Set SIP primary server port
SIP Backup Server	Set SIP backup server
Option	Description
SIP Backup Server Port	Set SIP backup server port
SIP Address Selection	Select which network port SIP registers on
DNS Mode	Set DNS mode, can select automatic or use DNSSRV
Outbound Proxy Server	Set outbound proxy server, the gateway will send signaling to this external proxy instead of directly to the peer.
From Domain	Set the domain name used to authenticate the peer
STUN	Select whether to enable STUN service

Option	Description
Compatibility Mode	Select whether to enable compatibility mode
Figure 4-1-2 SIP Settings	

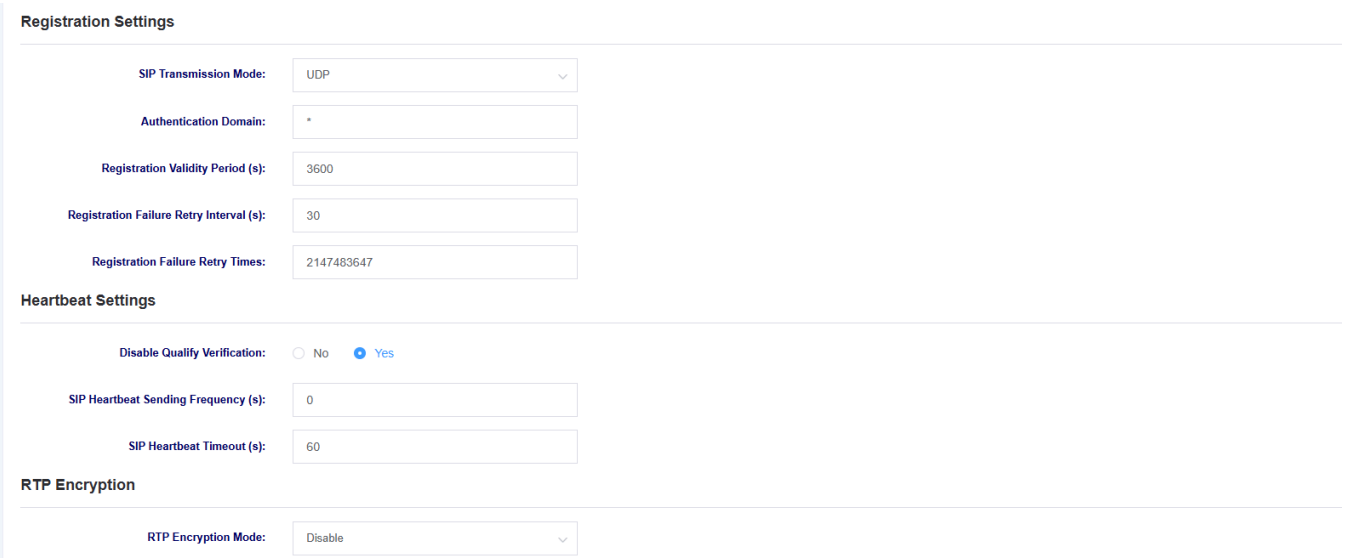
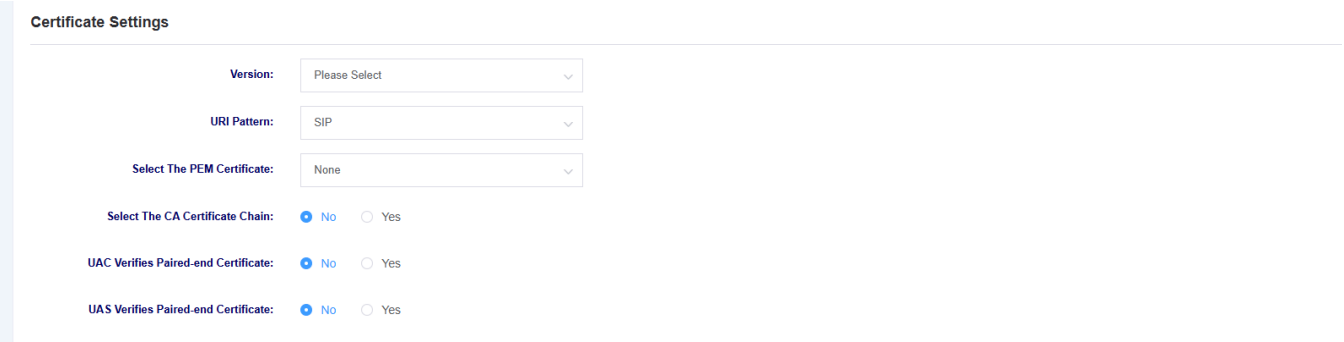


Table 4-1-2 SIP Settings Parameter Description

Option	Description
SIP Transport Method	Set SIP transport method, can select UDP, TCP, and TLS
Authentication Domain	Set SIP registration authentication domain
Option	Description
Registration Validity Period	Set registration validity period, default value is 3600 seconds
Registration Failure Retry Interval	Set registration failure retry interval, default value is 30 seconds
Registration Failure Retry Times	Set registration failure retry times, default value is 10 times
Qualify Verification	Whether to enable qualify verification
SIP Heartbeat Send Frequency	Set SIP heartbeat packet send frequency
SIP Heartbeat Timeout	Set SIP heartbeat packet timeout
RTP Encryption Mode	Whether to enable RTP encryption

Figure 4-1-3 SIP Settings



Option	Description
Version	Select the certificate version, the device supports different versions of TLS, SSL, SS certificates
URI Mode	Select URI mode, supports SIP and SIPS
Select Device PEM Certificate	Select device PEM certificate
Select CA Certificate Chain	Select whether to enable CA certificate chain
Option	Description
UAC Verify Peer Certificate	As the calling party, select UAC to use the phone as the refresher. Or select UAS to use the called party or proxy server as the refresher.
UAS Verify Peer Certificate	As the called party, select UAC to use the called party or proxy server as the refresher, or select UAS to use the phone as the refresher.

4.2 VOIP Settings

On this interface, users can set VOIP related parameters.

Figure 4-2-1 VOIP Settings

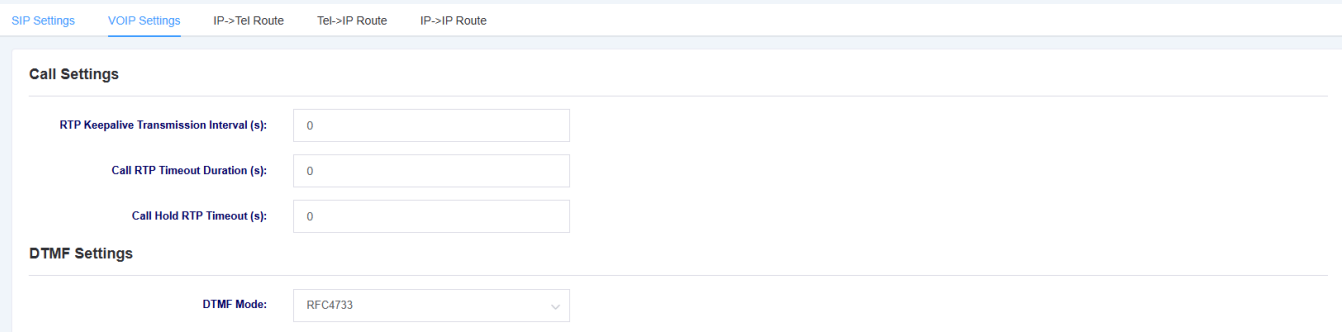


Table 4-2-1 VOIP Settings Parameter Description

Option	Description
Allow Call Transfer	Select whether to enable call transfer
RTP Keepalive Send Interval	Set RTP keepalive send interval
Call RTP Timeout	Set call RTP timeout
Call Hold RTP Timeout	Set call hold RTP timeout
DTMF Mode	Set DTMF mode, can select RFC4733, inband, info, auto, and auto_info
Figure 4-2-2 VOIP Settings	

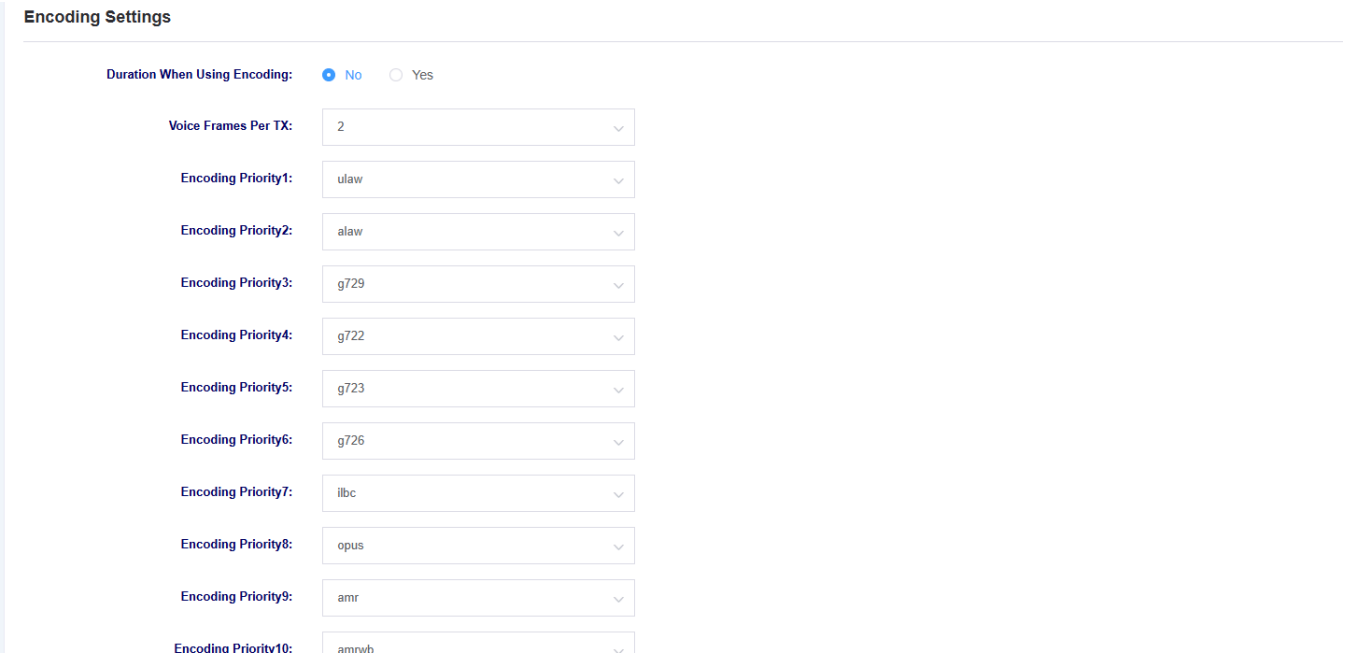


Table 4-2-2 VOIP Settings Parameter Description

Option	Description
Use Codec Packing Time	Select whether to use codec packing time for more efficient use of bandwidth and resources in transmission, storage, and processing
Codec Priority	Set codec priority
Enable UDPTL	Select whether to enable UDPTL
UDPTL Error Correction	Select UDPTL error correction method

4.3 IP->Tel Routing

Related routing can be set on this page.

Figure 4-3-1 IP->TEL Routing

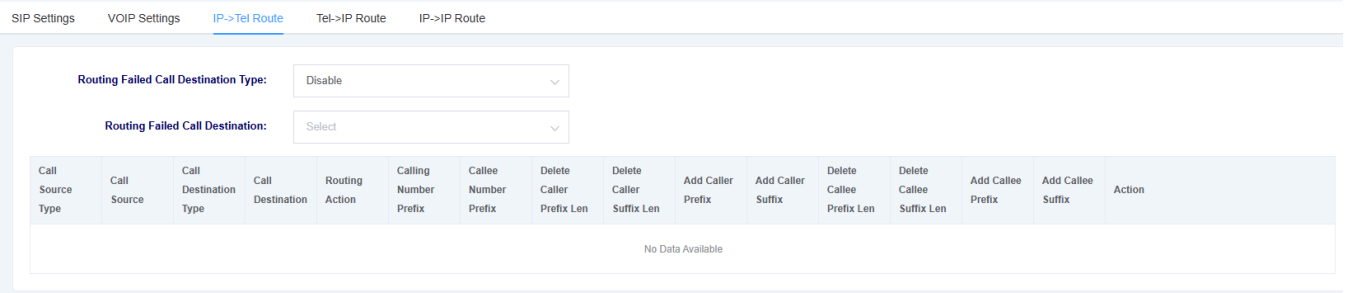


Table 4-3-1 IP->TEL Routing Parameter Description

Option	Description
Failure Backup Line	Send to this destination when call fails
Call Source Type	Call source device type
Call Source	Call source device
Call Destination Type	Destination type
Call Destination	Call destination
Routing Action	Reject or permit
Caller Number Prefix	Set caller number prefix type
Callee Number Prefix	Set callee number prefix type
Delete Caller Prefix	Delete caller number prefix
Delete Callee Prefix	Delete callee number prefix
Add Caller Prefix	Add caller number prefix
Add Caller Suffix	Add caller number suffix
Delete Callee Prefix	Delete callee number prefix
Delete Callee Suffix	Delete callee number suffix
Add Callee Prefix	Add callee number prefix
Add Callee Suffix	Add callee number suffix

4.4 TEL->IP Routing

Related routing can be set on this page.

Figure 4-4-1 TEL->IP Routing

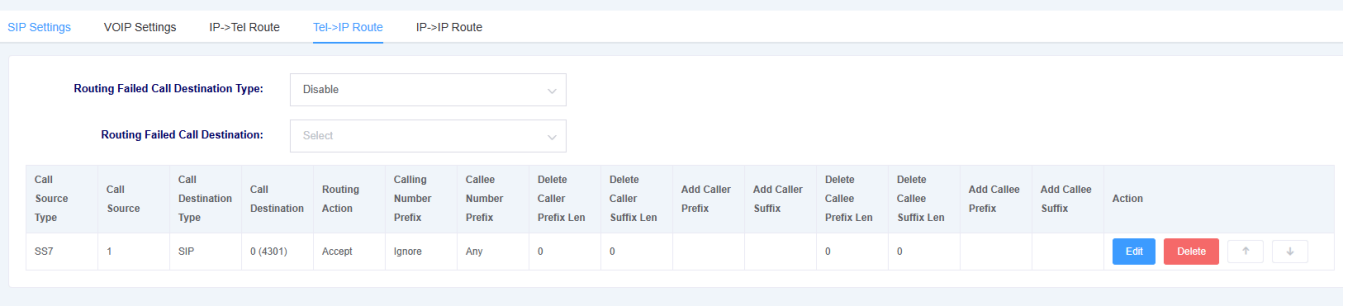


Table 4-4-1 TEL->IP Routing Parameter Description

Option	Description
Failure Backup Line	Send to this destination when call fails
Call Source Type	Call source device type
Call Source	Call source device
Call Destination Type	Destination type
Call Destination	Call destination
Routing Action	Reject or permit
Caller Number Prefix	Set caller number prefix type
Callee Number Prefix	Set callee number prefix type
Delete Caller Prefix	Delete caller number prefix
Delete Callee Prefix	Delete callee number prefix
Add Caller Prefix	Add caller number prefix
Add Caller Suffix	Add caller number suffix
Delete Callee Prefix	Delete callee number prefix
Delete Callee Suffix	Delete callee number suffix
Add Callee Prefix	Add callee number prefix
Add Callee Suffix	Add callee number suffix

4.5 IP->IP Routing

Related routing can be set on this page.

Figure 4-5-1 IP->IP Routing

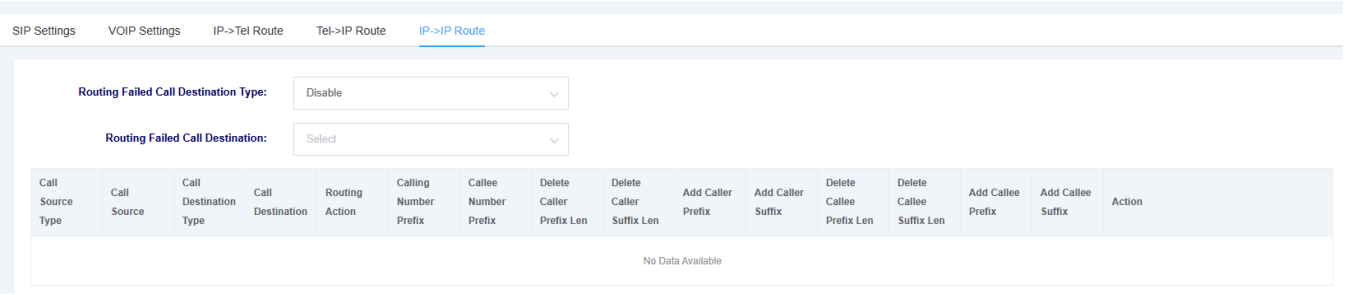


Table 4-5-1 IP->IP Routing Parameter Description

Option	Description
Failure Backup Line	Send to this destination when call fails
Call Source Type	Call source device type
Call Source	Call source device
Call Destination Type	Destination type
Call Destination	Call destination
Routing Action	Reject or permit
Caller Number Prefix	Set caller number prefix type
Callee Number Prefix	Set callee number prefix type
Delete Caller Prefix	Delete caller number prefix
Delete Callee Prefix	Delete callee number prefix
Add Caller Prefix	Add caller number prefix
Add Caller Suffix	Add caller number suffix
Delete Callee Prefix	Delete callee number prefix
Delete Callee Suffix	Delete callee number suffix
Add Callee Prefix	Add callee number prefix
Add Callee Suffix	Add callee number suffix

5. Trunk Settings

On this page, trunk types can be configured.

5.1 SIP Trunk

Figure 5-1-1 Add SIP Trunk Page

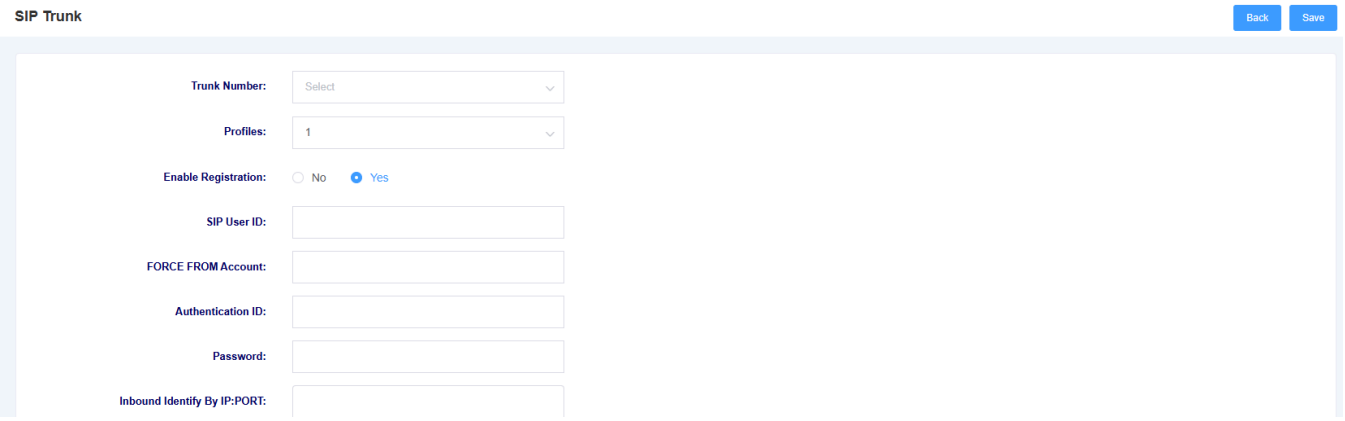


Table 5-1-1 SIP Trunk Page Parameter Description

Option	Description
Trunk Number	Custom trunk number
Template	Select the template setting to use
Enable Registration	Select whether to enable registration settings
SIP User ID	Trunk name setting
FROM Force Account	Set FROM force account
Authentication ID	Authentication ID corresponding to this SIP user ID
Password	Password corresponding to the authentication ID
IP Direct Sending Table	Set caller display name

5.2 Port Settings

Figure 5-2-1 Port Settings

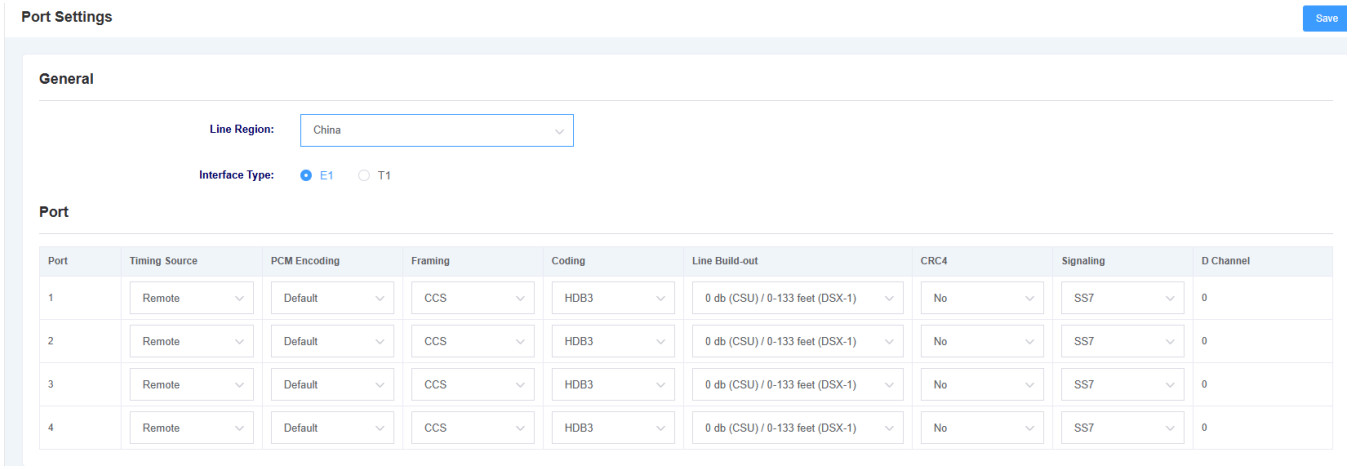
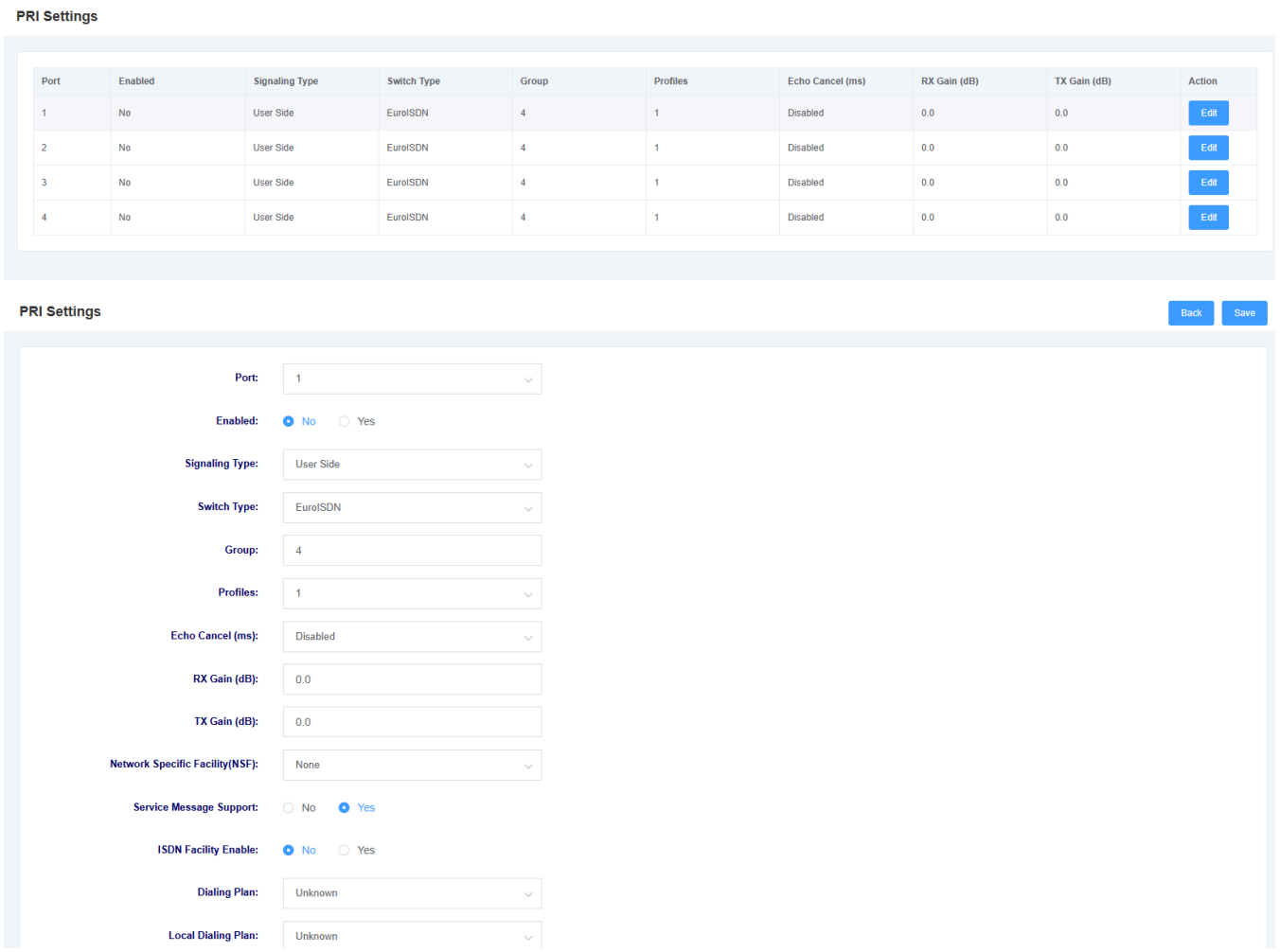


Table 5-2-1 Call Settings Parameter Description

Option	Description
Line Area	Set line area
Interface Type	E1 or T1 type
Clock Source	Select clock source
PCM Coding	Select coding format
Frame Structure	Frame structure type
Line Coding	Select line coding
Line Compensation	External line represents the cable length from this gateway port to the next device.
CRC4	Set verification
Signaling	Set signaling type
D Channel	Set D channel position

5.3 PRI Settings

Figure 5-3-1 PRI Settings



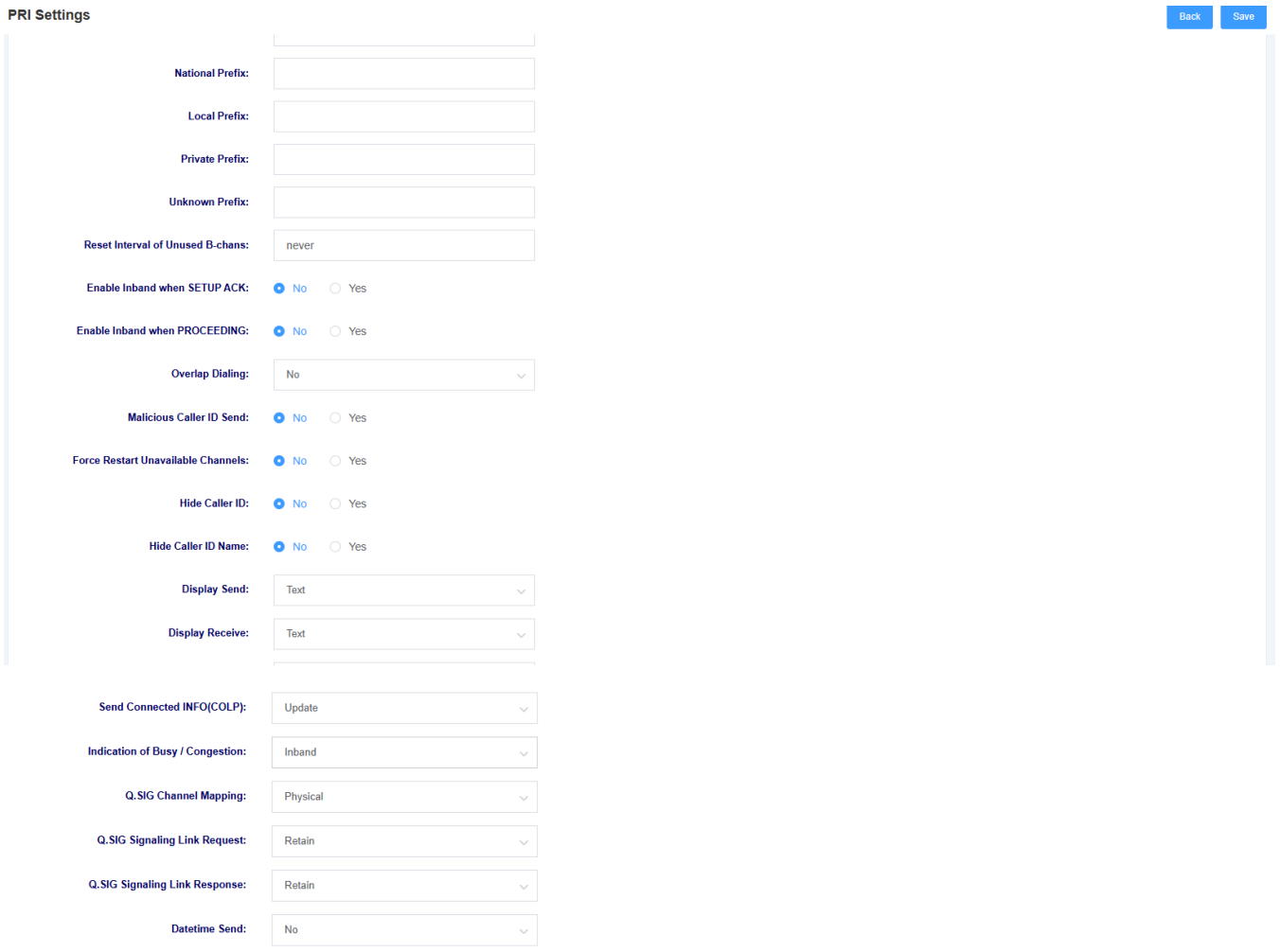


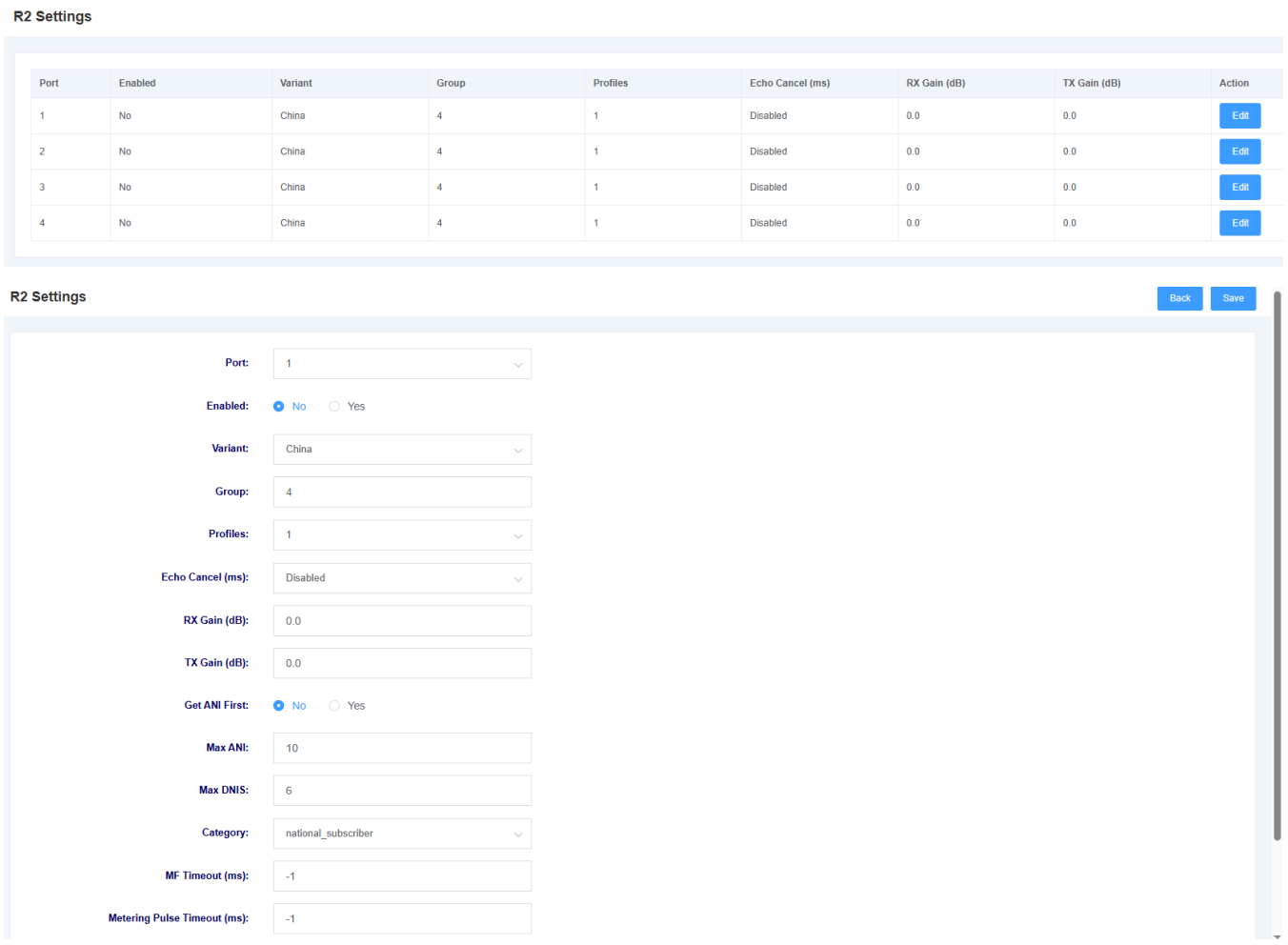
Table 5-3-1 Call Settings Parameter Description

Option	Description
Port	Select port
Enable	Whether to enable
Signaling Type	Set signaling type
Switch Type	Digital signaling switch type
Group	Set group number
Template	Select the template to use
Echo Cancellation	Echo cancellation length
RX Gain	Receiving audio energy gain
TX Gain	Transmitting audio energy gain
ATT Carrier	ATT carrier network special parameters
Enable Message Service	Enable message service support

Option	Description
Dialing Plan	Dialing plan
Local Dialing Plan	Local dialing plan
Peer Dialing Plan	Peer dialing plan
Number Prefix International	Number prefix International
Number Prefix National	Number prefix National
Number Prefix Local	Number prefix Local
Number Prefix Private	Number prefix Private
Number Prefix Unknown	Number prefix Unknown
Unused B Channel Restart Cycle	Unused B channel restart cycle
SETUP ACK Receive Inband Audio	Receive inband audio at SETUP ACK (Q.SIG must be enabled if overlap is enabled)
PROCEEDING Receive Inband Audio	Receive inband audio at PROCEEDING
Overlap Dialing	Overlap dialing
Send ISDN Request	Send ISDN Malicious Caller ID request on SPAN
Auto Restart Unavailable Channels	Whether to automatically restart unavailable channels
Hide Caller Number	Whether to hide caller number
Hide Caller Name	Whether to hide caller name
Send Display	Send display Note: only NET side supports, CPE and Q.SIG do not support
Receive Display	Receive display Note: only NET side supports, CPE and Q.SIG do not support
Send Information	Whether to send connect number information when sending connect
Busy and Congestion Indication Method	PRI busy and congestion indication method
Q.SIG Channel Mapping Method	Set Q.SIG channel mapping method Note: T1 forces physical
Q.SIG Calling Signaling Link	Set Q.SIG calling signaling link
Q.SIG Responding Signaling Link	Set Q.SIG responding signaling link
NET Side Send Datetime to CPE Side	Set NET side send datetime to CPE side

5.4 R2 Settings

Figure 5-4-1 R2 Settings



Parameter	Description
Port	Select port
Enable	Whether to enable port
Protocol Type	Select protocol type
Group	Set group
Template	Select the template to use
Echo Cancellation	Whether to enable echo cancellation
RX Gain	Set receive gain
TX Gain	Set transmit gain
Get ANI	Get ANI before obtaining DNIS
Max ANI Requested	Maximum ANI digits requested
Max DNIS Requested	Maximum DNIS digits requested

Parameter	Description
Incoming Subscription	Incoming subscription category
MF Timeout	MF timeout
Pulse Timeout	Pulse timeout
Skip Request Caller Category and ANI	Skip request caller category and ANI
Support Double Answer	Whether to support double answer

5.5 SS7 Settings

Figure 5-5-1 SS7 Settings

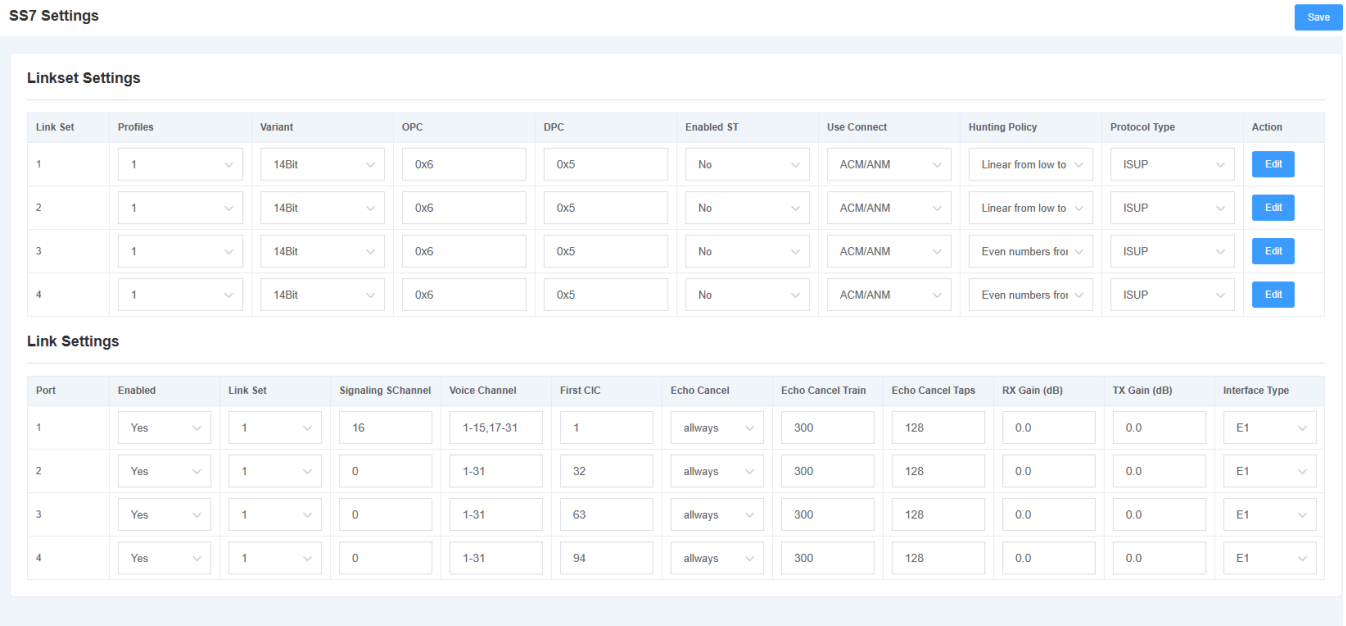


Table 5-5-1 SS7 Parameter Description

Parameter	Description
Enable	Whether to enable
Link Group	Select link group
Signaling Channel	Signaling channel
Voice Channel	Audio channel
Starting Circuit Identification Code	CIC starting position
Echo Cancellation	Echo cancellation switch
Echo Cancellation Training	Echo training period
Echo Cancellation Taps	Echo cancellation TAPS(ms=taps/8)
RX Gain	Receiving audio energy gain

Parameter	Description
TX Gain	Transmitting audio energy gain

6. Advanced Configuration

6.1 Fax Parameters

On this page, fax-related parameters can be configured.

Figure 6-1-1 Fax Parameters

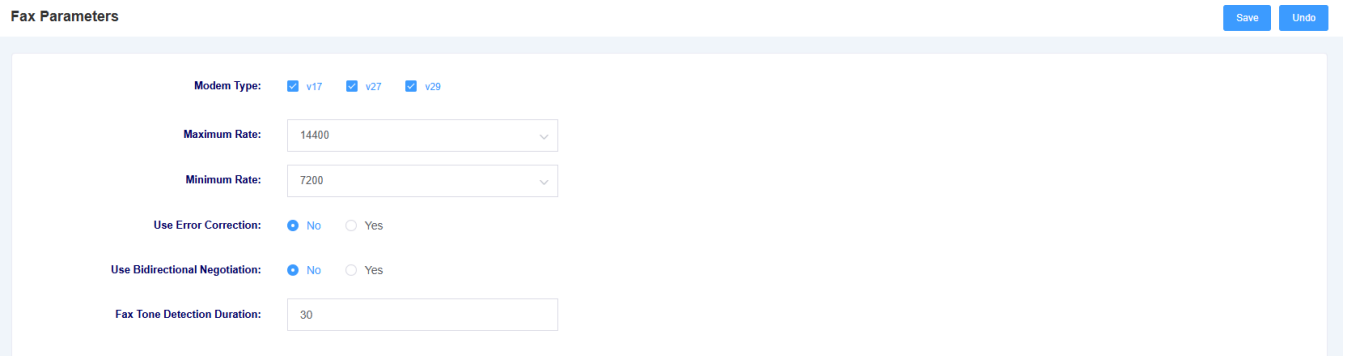


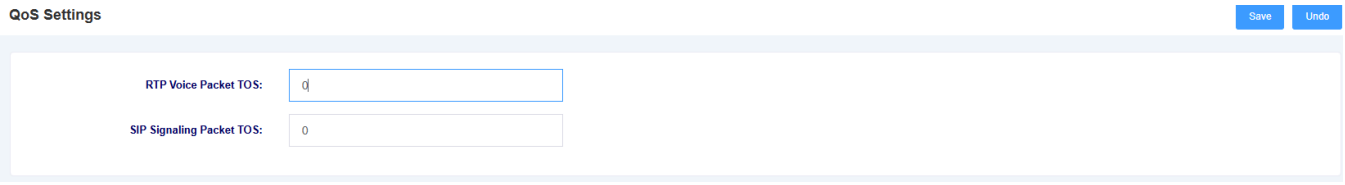
Table 6-1-1 Network Settings Description

Option	Description
Modem Type	Set supported modem types
Max Rate	Select the maximum rate supported by fax
Min Rate	Select the minimum rate supported by fax
Error Verification	Select whether to enable error verification
Bidirectional Negotiation	Select whether to enable bidirectional negotiation
Fax Tone Detection Duration	Set fax tone detection duration

6.2 QoS Settings

On this interface, RTP voice packet TOS and SIP signaling packet TOS can be set.

Figure 6-2-1 QoS Settings Interface



6.3 E1/T1 Settings

On this interface, digital line related parameters can be set, such as DTMF and jitter buffer.

Figure 6-3-1 E1/T1 Settings Interface

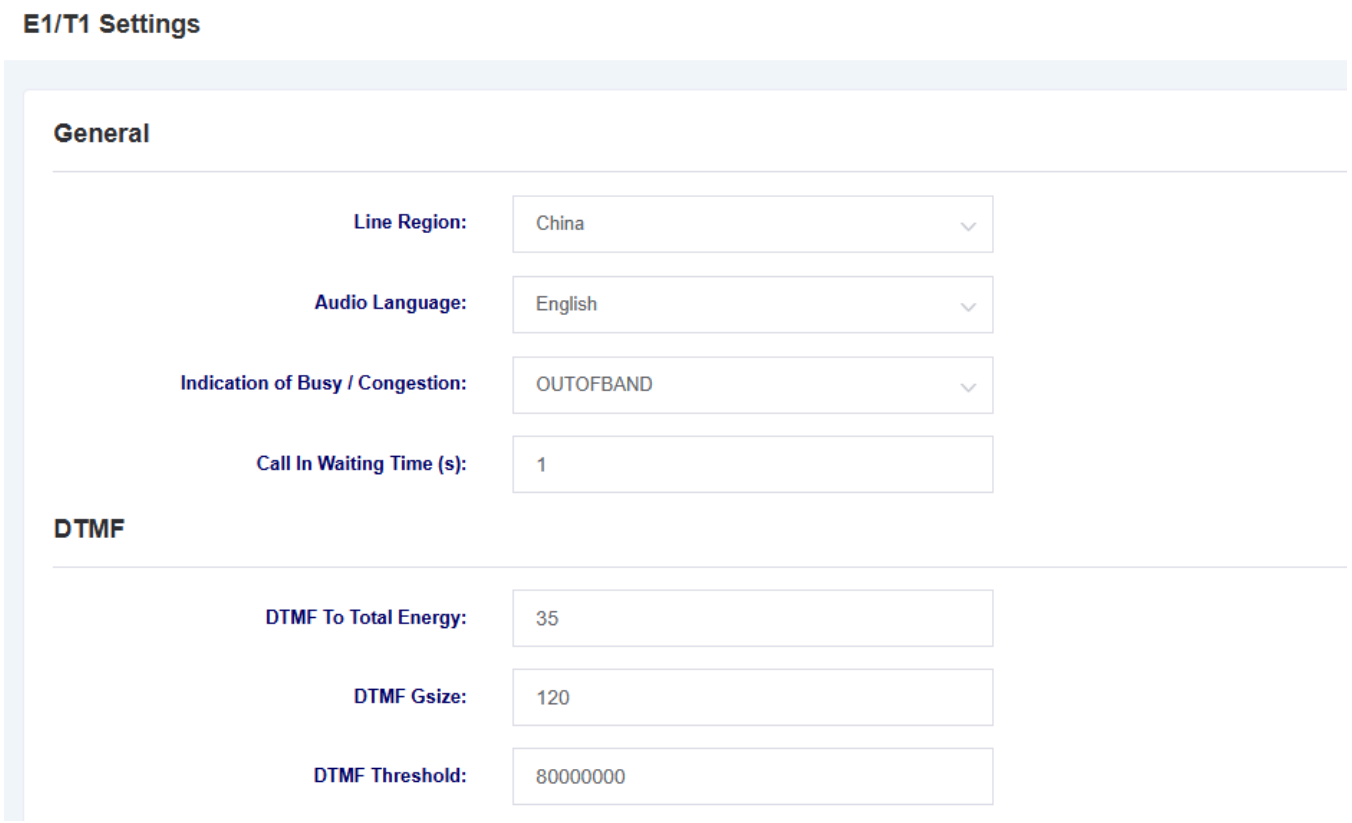


Table 6-3-1 E1/T1 Parameter Description

Option	Description
Line Area	Select the area where the line is located
Audio Language	Select the language for voice prompts
Busy and Congestion Indication Method	Method to generate BUSY and CONGESTION notifications
Total Energy Ratio Coefficient	Adjust energy ratio coefficient
Sampling Points per Detection Segment	Set sampling points
Energy Threshold	Set energy threshold

Figure 6-3-2 E1/T1 Settings Interface

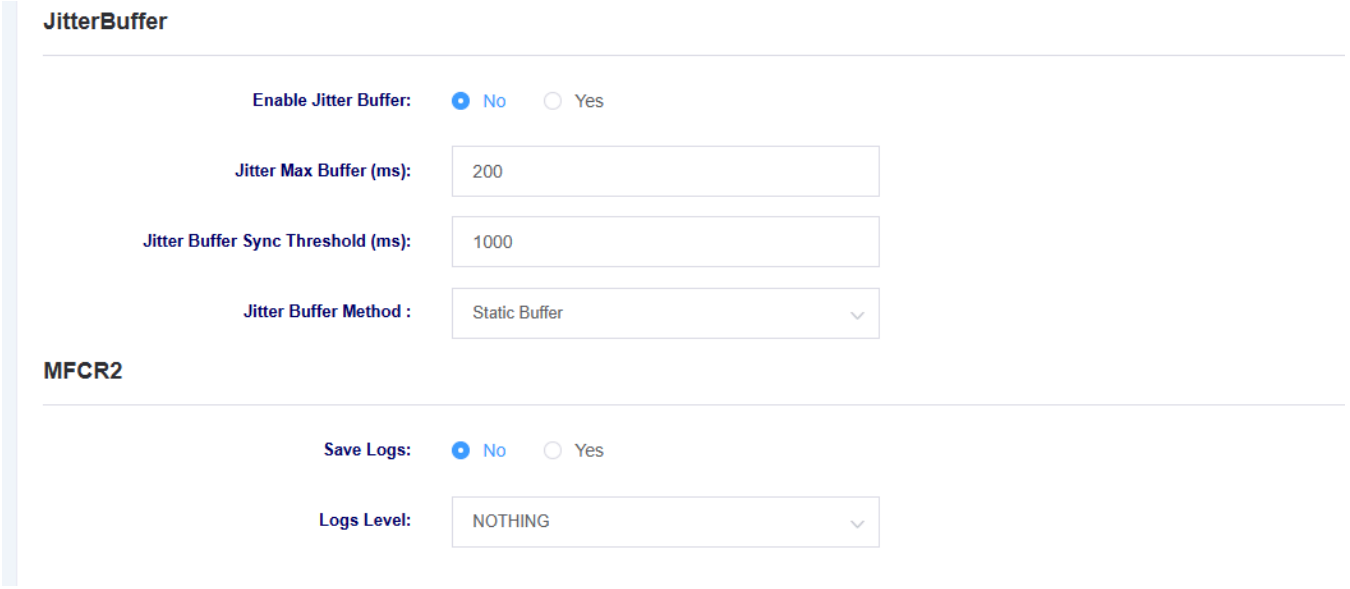


Table 6-3-2 E1/T1 Settings Parameter Description

Option	Description
Jitter Buffer	Select whether to enable jitter buffer
Jitter Buffer Method	Select jitter buffer method
Jitter Sync Timestamp	Set jitter sync timestamp
Jitter Max Buffer	Set jitter max buffer
Save Log	Whether to save log
Log Level	Set log level

6.4 VOIP Settings

On this page, VoIP-related settings can be made, such as call settings and session settings.

Figure 6-4-1 VoIP Settings

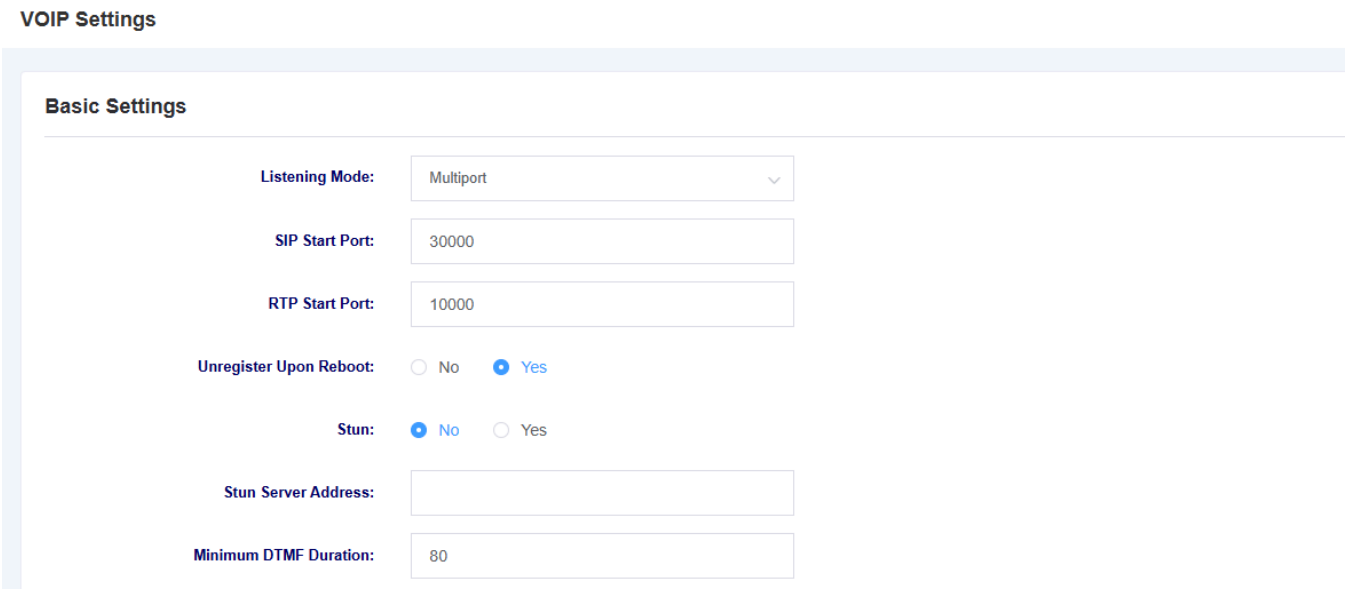


Table 6-4-1 VoIP Settings Parameter Description

Option	Description
Listening Mode	Select listening mode, can select multi-port and single-port
SIP Starting Port	Set SIP starting port
RTP Starting Port	Set RTP starting port
Unregister on Restart	Select whether to unregister on restart
STUN	Select whether to enable STUN
STUN Server Address	Set STUN server address
Min DTMF Duration	Set minimum DTMF duration

Figure 6-4-2 VoIP Settings

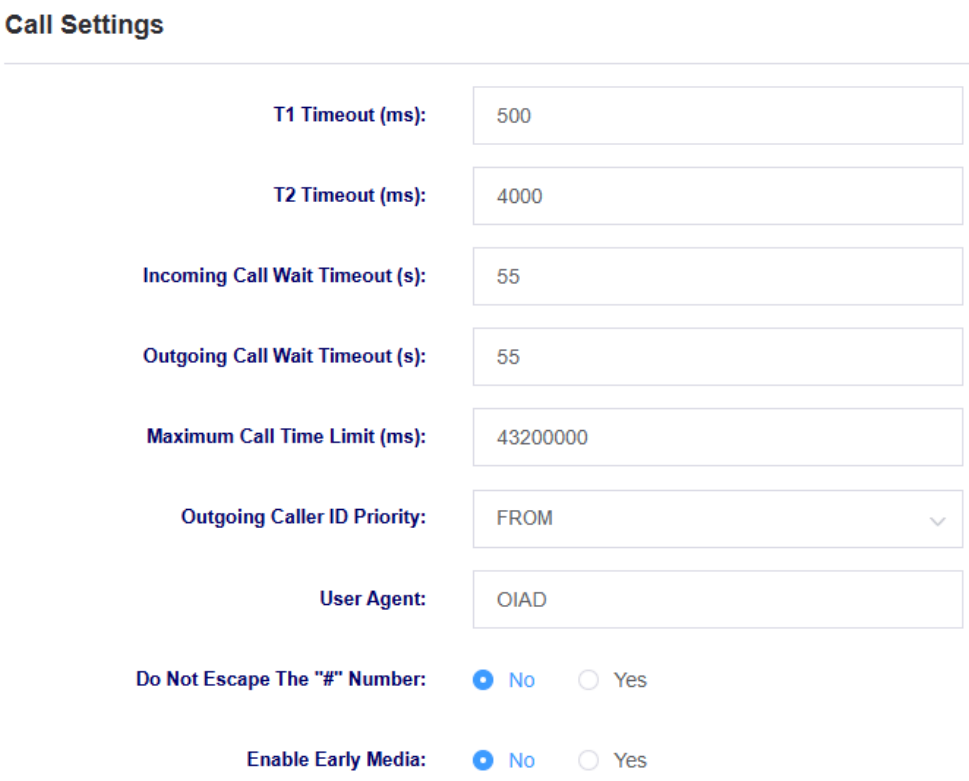


Table 6-4-2 VoIP Settings Parameter Description

Option	Description
T1 Timeout	Set T1 timeout time
T2 Timeout	Set T2 timeout time
Incoming Wait Timeout	Set incoming wait timeout time
Outgoing Wait Timeout	Set outgoing wait timeout time
Call Max Duration	Set call maximum duration, call will be hung up after exceeding
Caller Number Display Priority	Select caller number priority from FROM field or P-Asserted-Identity field
User Agent	Set User Agent
Do Not Escape "#"	Whether not to escape #

Figure 6-4-3 VoIP Settings

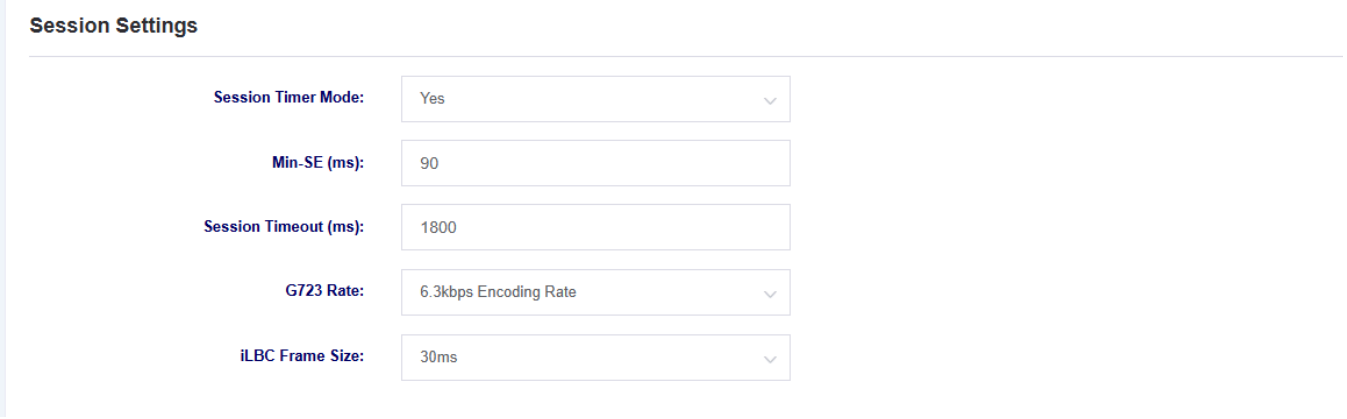


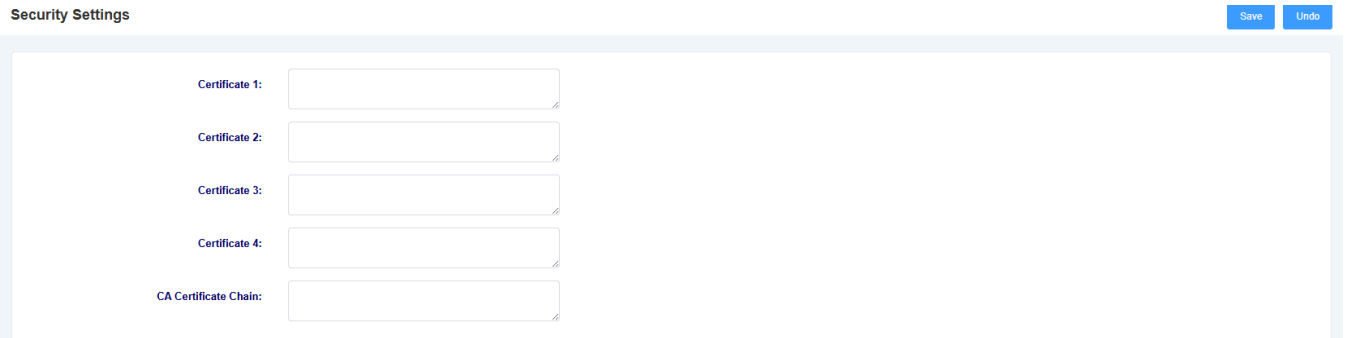
Table 6-4-3 VoIP Settings Parameter Description

Option	Description
Session Timer Mode	Select session timer mode
Min-SE	Set minimum session timeout duration
Session Timeout	Set session timeout time
G723 Rate	Set G723 rate
iLBC Frame Duration	Set iLBC frame duration

6.5 Security Settings

On this page, certificates can be uploaded.

Figure 6-5-1 Security Settings Interface



7 Maintenance

7.1 Auto Restart

On this page, the auto restart function can be set, and the device can restart according to the set time.

Figure 7-1-1 Restart Page

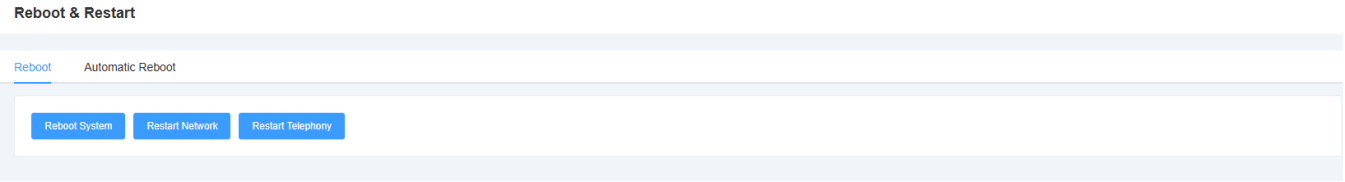
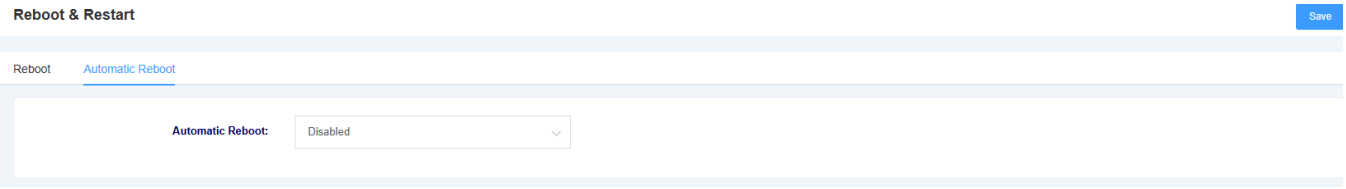


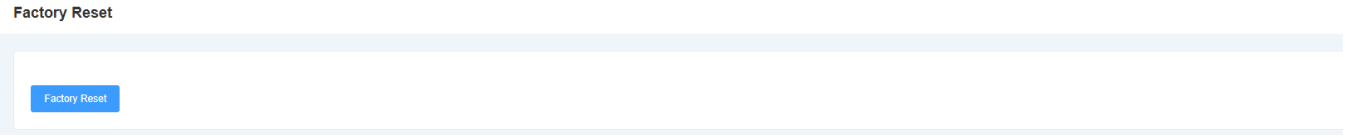
Figure 7-2-1 Auto Restart Page



7.2 Factory Reset

After clicking the factory reset button, the device will automatically restart and restore factory settings.

Figure 7-2-1 Factory Reset Interface



7.3 Auto Deployment

DTU-30X configuration file and upgrade file function can be set on this page.

Figure 7-3-1 Auto Deployment Interface

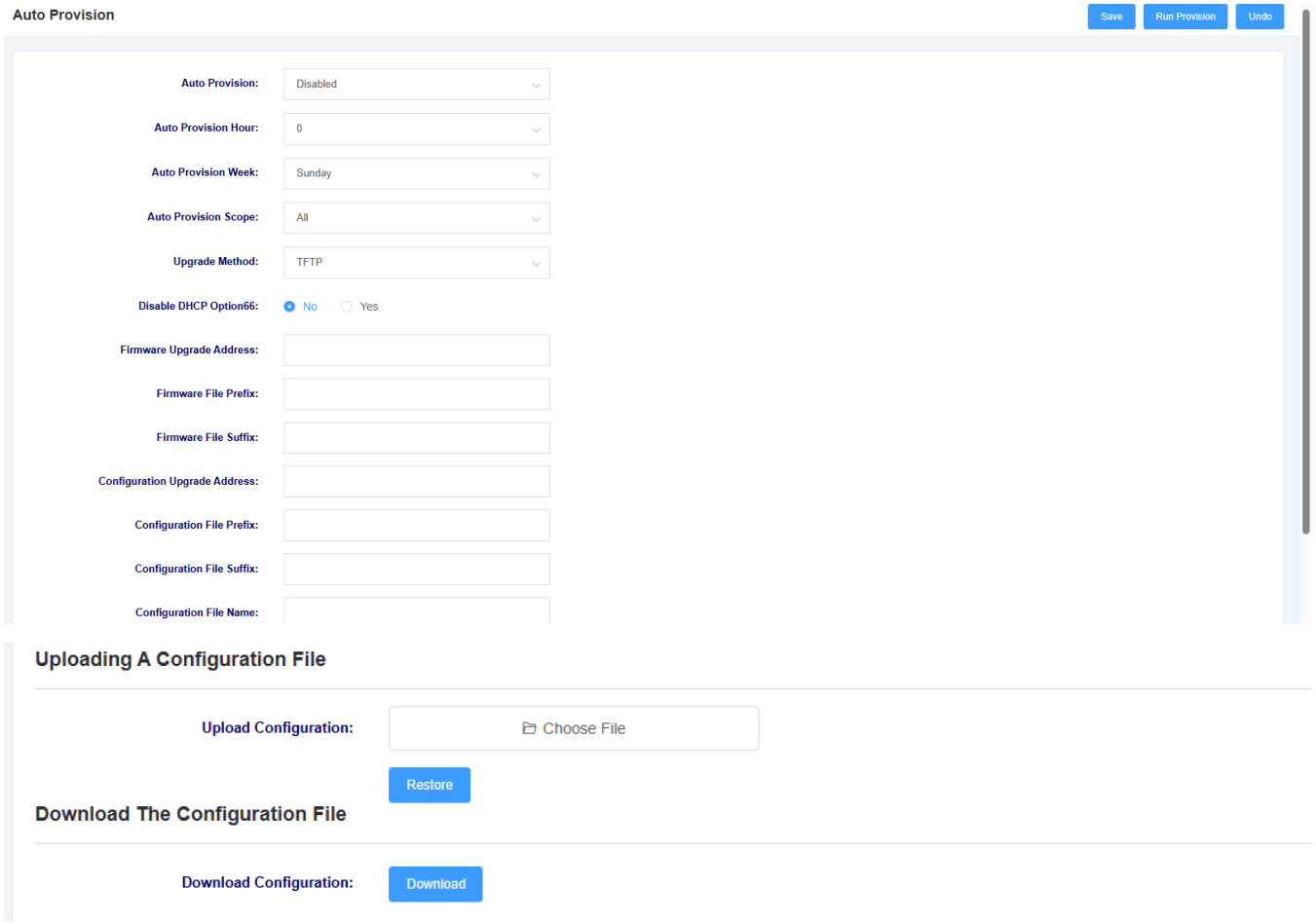


Table 7-3-1 Auto Deployment Parameter Description

Option	Description
Auto Deployment	Set auto deployment mechanism, can select auto deployment after each power-on or deploy at set time intervals
Auto Deployment Hour	Set at what time to deploy
Auto Deployment Week	Set on which day of the week to deploy
Auto Deployment Scope	Select the scope of auto deployment, can select configuration file and upgrade firmware
Upgrade Method	Select auto deployment upgrade method, supports TFTP, HTTP, HTTPS
Disable DHCP Option 66	Select whether to enable DHCP option 66 to obtain files
Option	Description

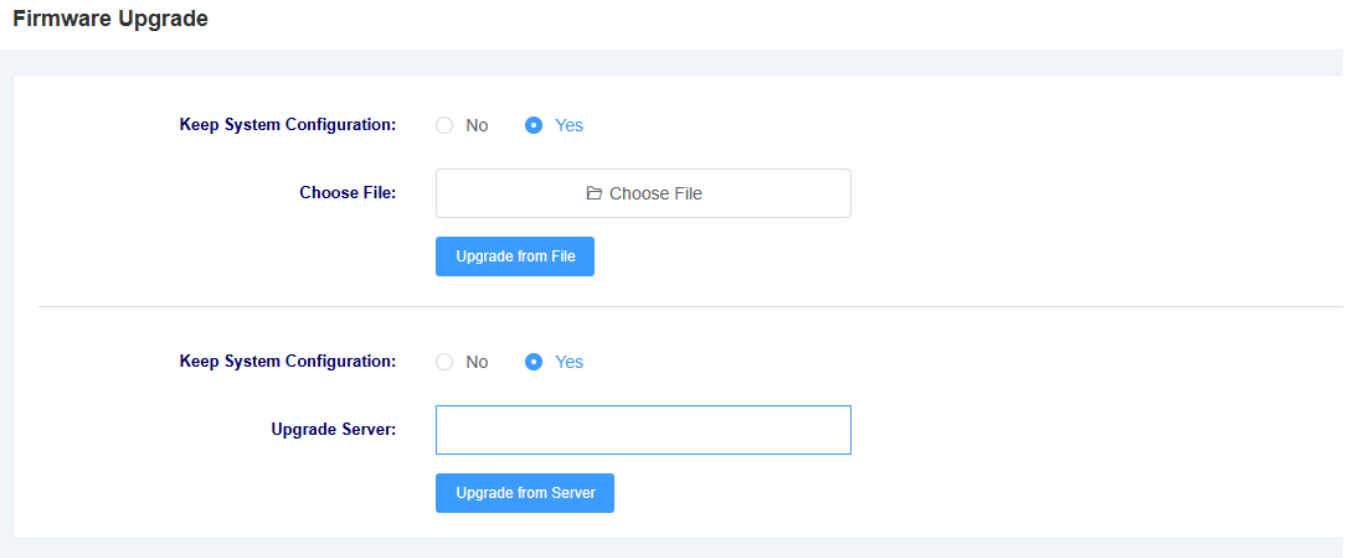
Option	Description
Firmware Upgrade Address	Set firmware upgrade path
Firmware File Prefix	Set firmware file prefix
Firmware File Suffix	Set firmware file suffix
Configuration Upgrade Address	Set configuration upgrade path
Configuration File Prefix	Set configuration file prefix
Configuration File Suffix	Set configuration file suffix
Upload Configuration	Upload configuration file
Download Configuration	Download device current configuration file

The file name needs to be modified according to the rules. The main control firmware file name rule is (pre)(firmware model).img(post), the interface board firmware file name rule is (pre)ixu(mac).img(post), the configuration file name rule is (pre)cfg(mac)(post), pre is prefix, post is suffix, prefix and suffix can be left blank.

7.4 Firmware Upgrade

On this page, firmware upgrade can be performed. Select the corresponding firmware type and upload the file to upgrade. You can choose whether to retain the system configuration. If the system configuration is not retained, the device will clear the system configuration after upgrading.

Figure 7-4-1 Firmware Upgrade



7.5 Time Settings

On this page, the device time settings can be made. Users can set the time zone and set the NTP server address to automatically synchronize time.

Figure 7-5-1 Time Settings

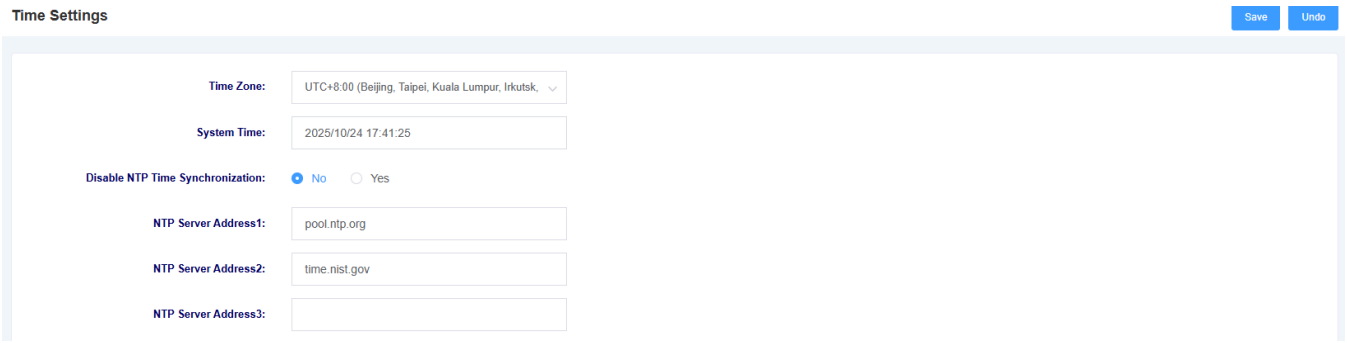


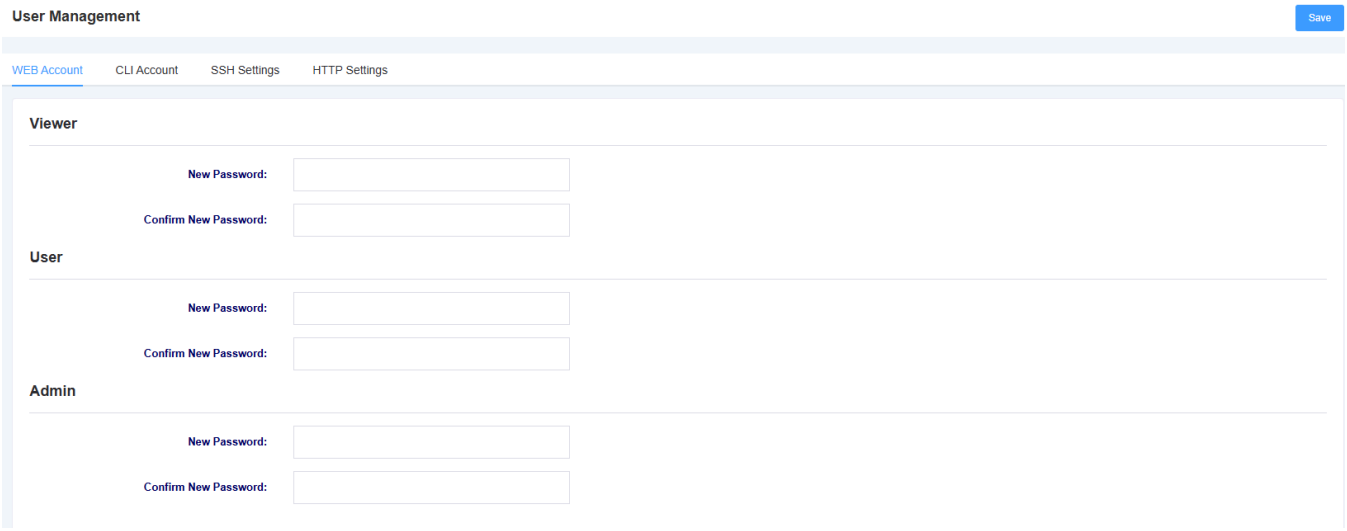
Table 7-5-1 Time Settings Parameter Description

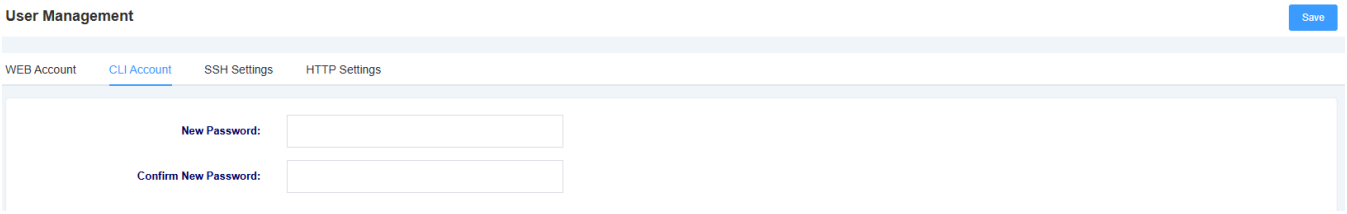
Option	Description
Time Zone	Set device time zone
System Time	Display system time
Enable NTP Time Sync	Select whether to enable NTP time sync
NTP Server Address	Set NTP server address

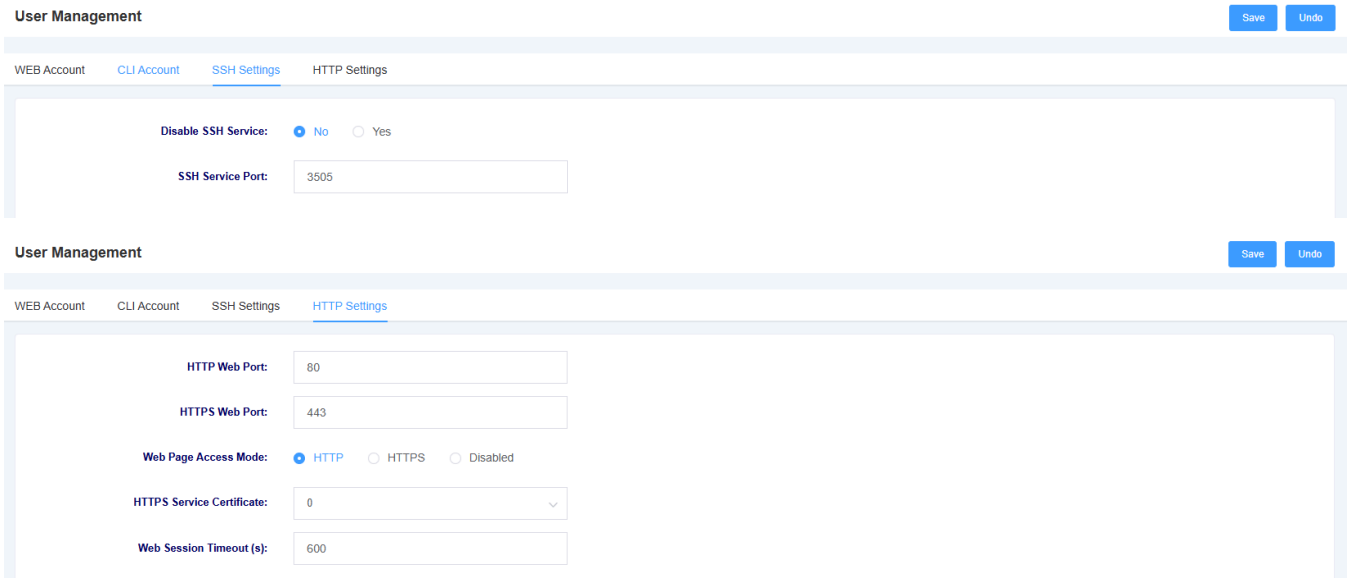
7.6 User Management

DTU-30X supports different user roles for login, with different permissions. On the user management page, passwords can be changed for different roles, SSH function can be switched on and off, and HTTP settings can be made.

Figure 7-6-1 User Management



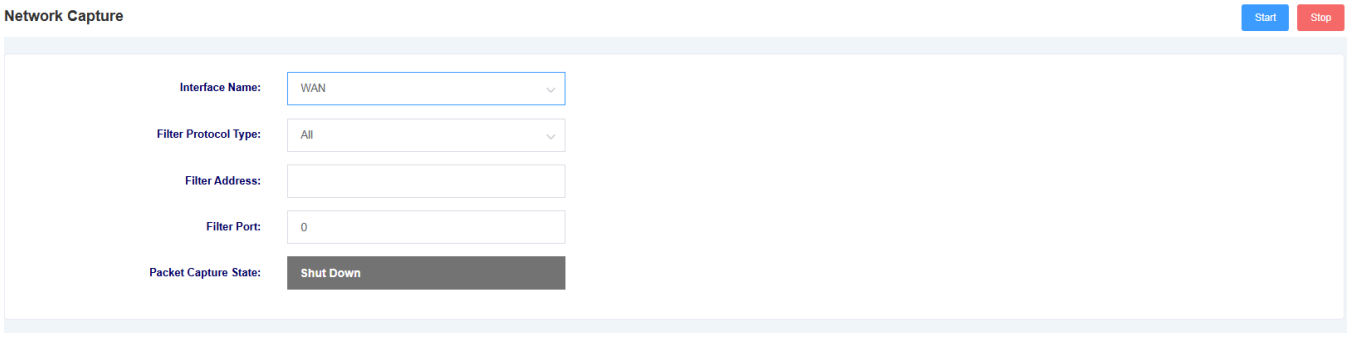




7.7 Network Capture

DTU-30X can facilitate network problem location. Users can define the capture interface on this interface and select protocol type, address, and port.

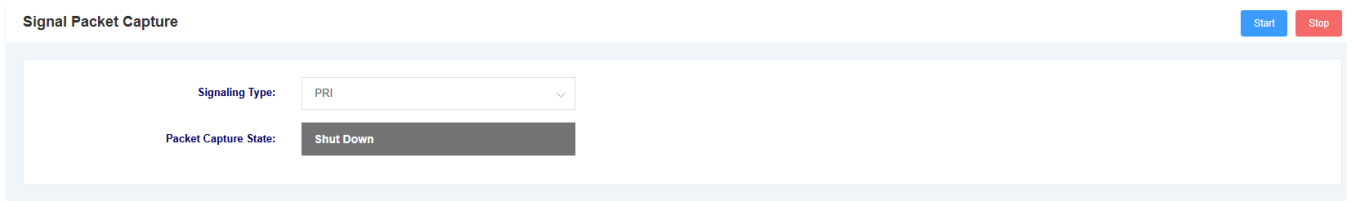
Figure 7-7-1 Network Capture



7.8 Signaling Capture

DTU-30X can perform signaling capture.

Figure 7-8-1 Signaling Capture



7.9 Log Management

On the log management interface, the log server address and port can be set, and the kernel log level can be selected to facilitate viewing device logs for technical analysis.

Figure 7-9-1 Log Management

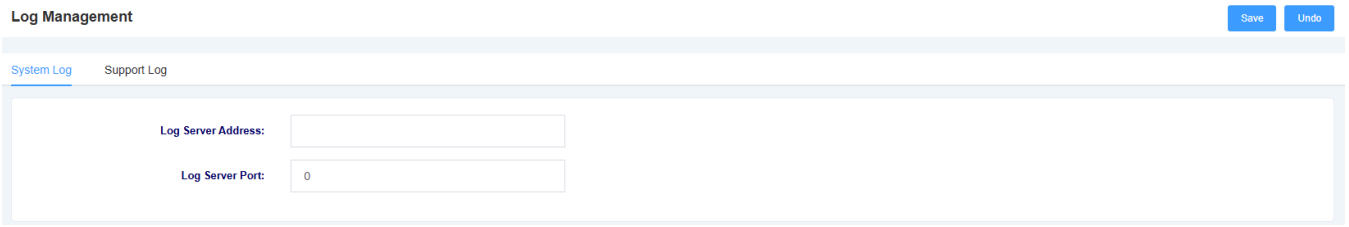
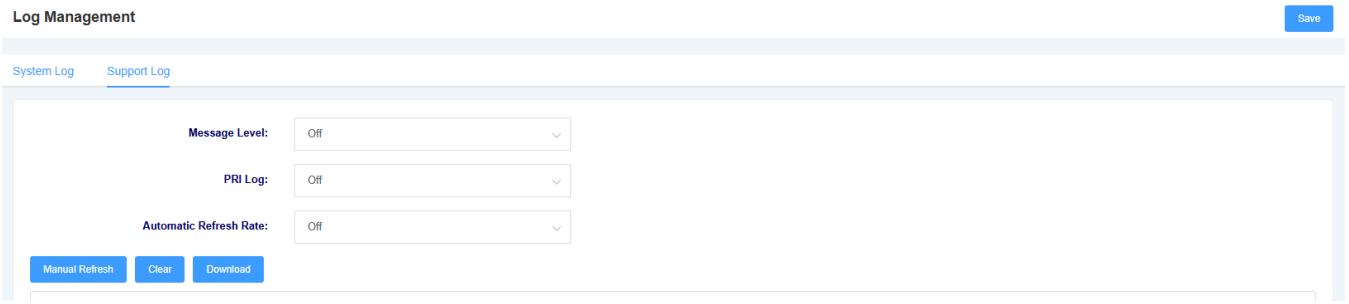


Figure 7-9-2 Log Support Interface



Syslog is often called system log or system record, and is a standard used to transfer record information in Internet Protocol (TCP/IP) networks. This term is often used to refer to the actual syslog protocol, or applications or databases that send syslog messages. The syslog protocol is a client-server protocol: the syslog sender will send a small text message (less than 1024 bytes) to the syslog receiver. The receiver is usually named "syslogd", "syslog daemon", or syslog server. System log messages can be transferred using UDP protocol and/or TCP protocol.

Syslog Level Introduction:

• EMERG Failure

• ALERT Warning

• CRIT Needs to be resolved promptly

• ERROR Error conditions that prevent tools or certain subsystems from achieving some functionality

• WARNING Early warning information

• NOTICE Important common conditions

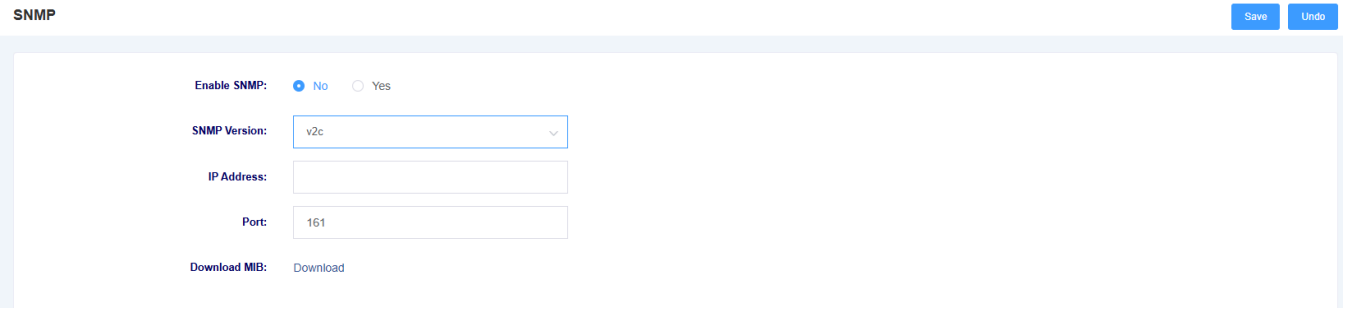
• INFO Information

• DEBUG Other information that does not contain function conditions or problems

7.10 SNMP

On this page, SNMP service related information can be set. DTU-30X supports SNMPv1, v2c.

Figure 7-10-1 SNMP



7.11 Cloud Management

On this page, cloud management related information can be set. DTU-30X supports OpenVox cloud management function. After entering the server address, port, and binding code, the device can be managed on the cloud management platform.

Figure 7-11-1 Cloud Management Settings

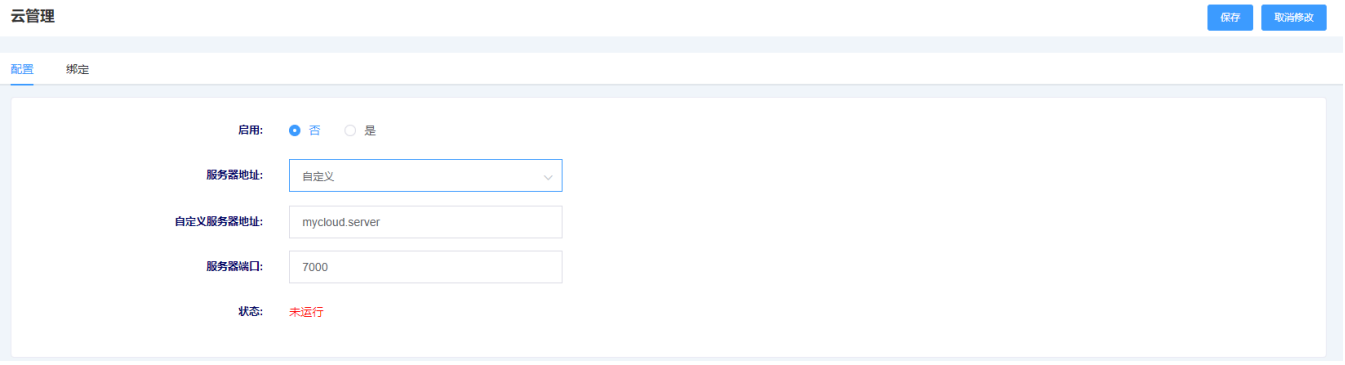
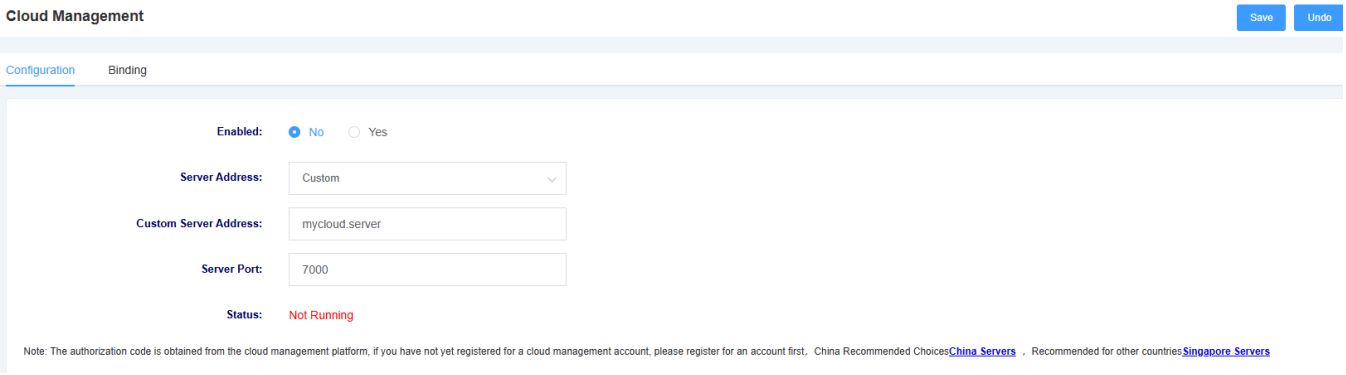


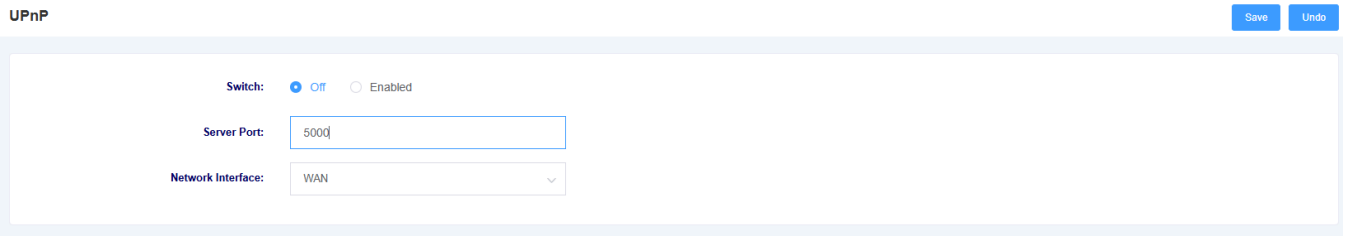
Figure 7-11-2 Cloud Management Binding



7.12 UPnP

On this page, you can select whether to enable the UPnP function. After enabling, the local device can be automatically searched on the server for management.

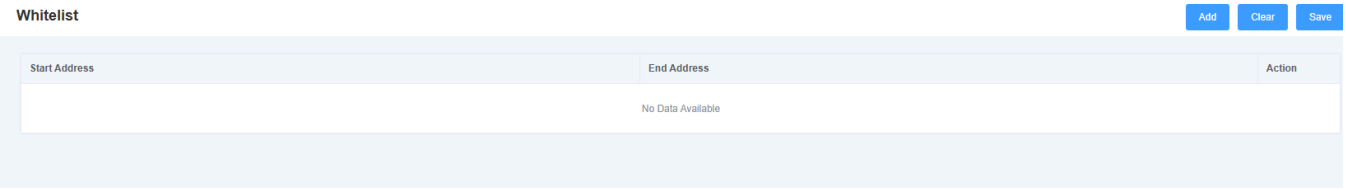
Figure 7-12-1 UPnP Settings



7.13 Whitelist

On this page, whitelist related information can be set. After setting, only IPs in the whitelist can access the device.

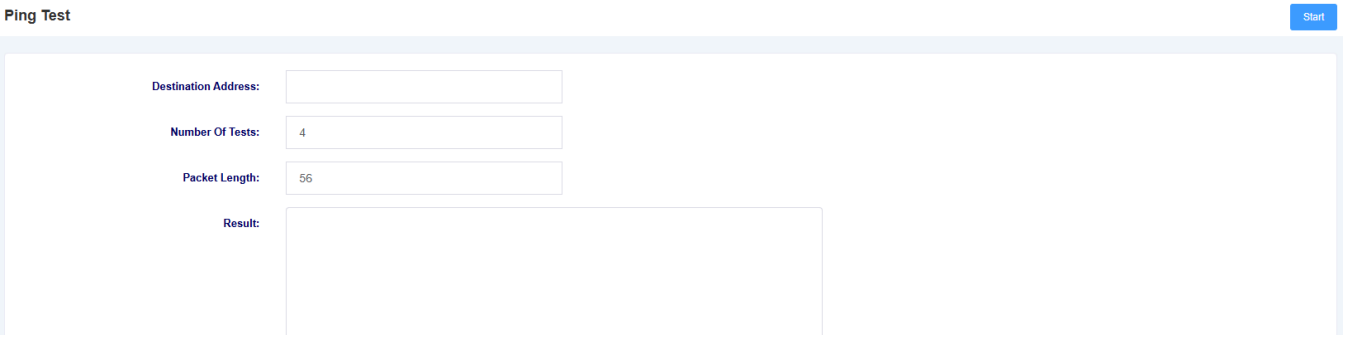
Figure 7-13-1 Whitelist Settings



7.14 Ping Test

On this page, the ping command can be used to test network connectivity.

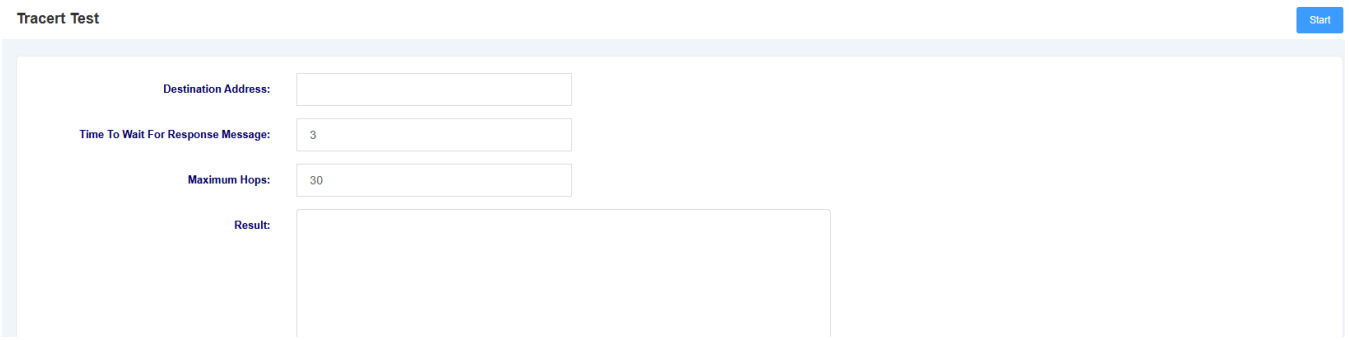
Figure 7-14-1 Ping Test



7.15 Tracert Test

On this page, the tracert command can be used to test network connectivity.

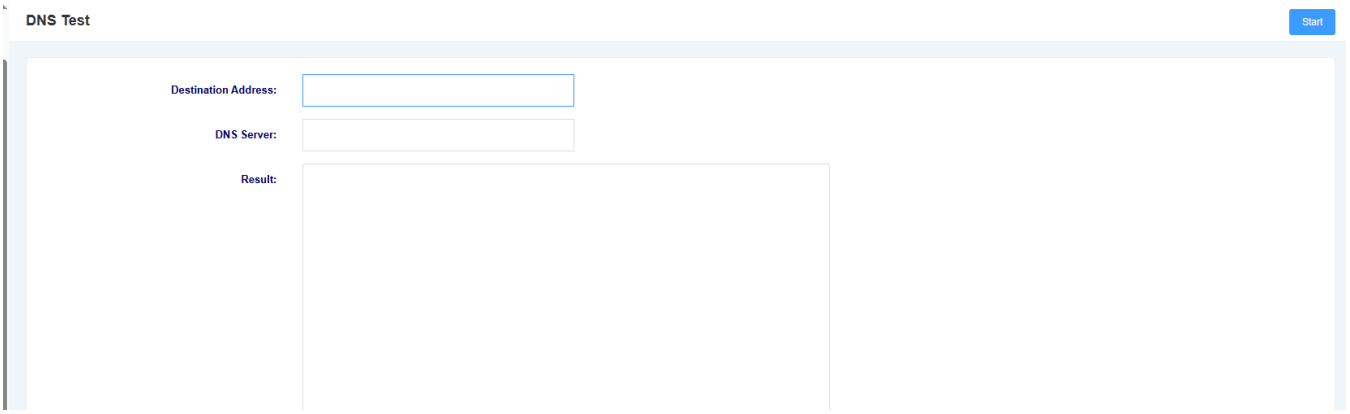
Figure 7-15-1 Tracert Test



7.16 DNS Test

On this page, the specified DNS can be tested.

Figure 7-16-1 DNS Test



7.17 Port Recording

On this page, you can select a specified port for recording to troubleshoot problems.

Figure 7-17-1 Port Recording