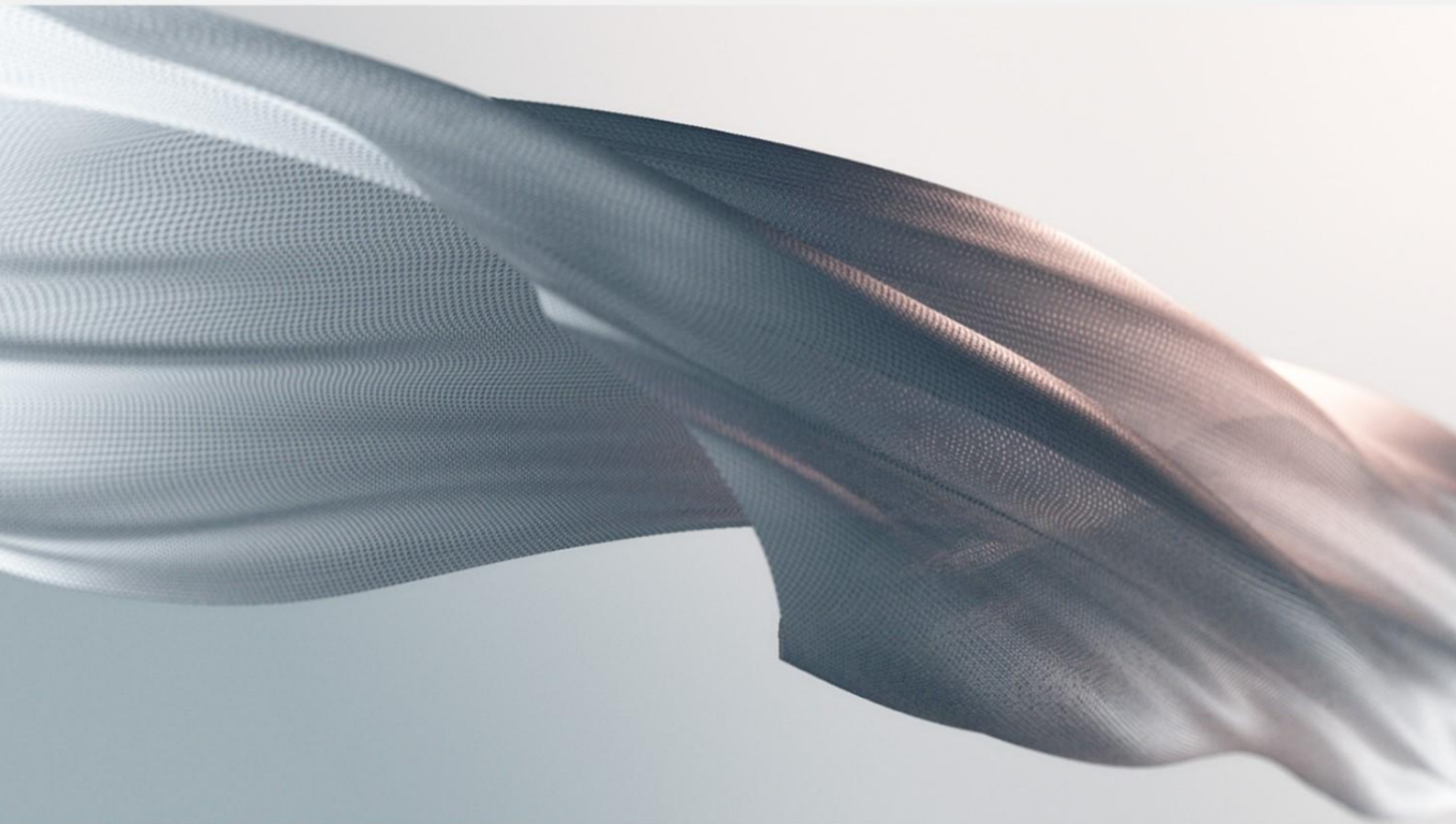


Ejointech

SMS Gateway User Manual

Welcome to the Ejointech User Manual. This document aims to help you understand how the device works more clearly.

Applicable to ACOM6XX SMS Gateway Series Products



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DEFINITIONS AND INTERPRETATIONS

"You" "Your""User" "Customer"or "Client" or refers to you, the individual or business entity acquiring a Ejointech gateway .

"Ejoin", "We", "Us", and "Our" refer to Ejoin Technology ("Ejointech").

"Device", "Modem", and "Gateway" refer to Ejointech gateway.

"Update" means maintenance of, or a fix to, a version of Ejointech Software, including, but not limited to a hot fix, patch, or enhancement, none of which function as a standalone service or other software package and which do not have an additional cost for an existing Licensee.

Purpose

This agreement outlines the permitted use of SMS gateway devices sold by Ejoin Technology, and sets out the responsibilities of the buyer in ensuring legal and ethical usage of the product.

Safety Notice & AGREEMENT

By using Ejointech VoIP and SMS gateways, you agree to the following terms:1.) Ejointech VoIP and SMS gateways are strictly prohibited from being used in mainland China. This restriction is non-negotiable and strictly enforced; 2.) Any gateways used within mainland China will not be granted a license or technical support;3.)Always install antennas in locations with a strong cellular signal and avoid metallic enclosures.

Prohibited Use

Buyer must not use the device, or allow it to be used:

To send unsolicited or bulk SMS ("spam") without user consent

For phishing, fraud, scams, or illegal marketing

To harass or threaten any individual or entity
In violation of any local, national, or international law
With forged sender IDs or misleading message content

Termination and Enforcement

Violation of this policy may result in:
Immediate suspension of support and warranty
Reporting to carriers, regulators, or government agencies
Refusal of future sales to the offending party

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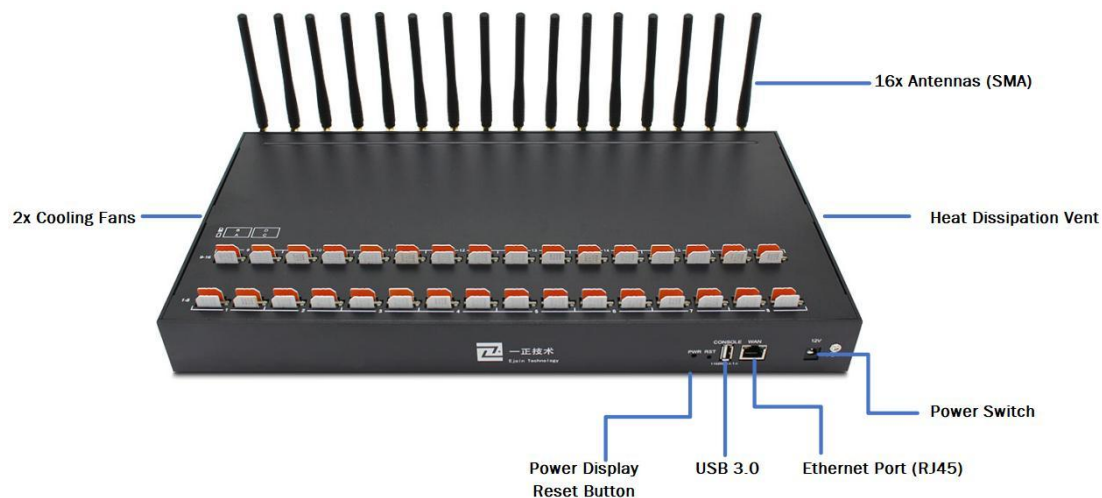
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1 Product Brief

This manual is for the Ejointech ACOM6XX Series SMS Gateway, a powerful and flexible device for sending and receiving SMS messages using multiple SIM cards. The gateway is widely used for SMS marketing, two-factor authentication, USSD querying, and more. It supports 8 to 64 ports and up to 512 SIM cards.

1.1 Hardware Overview

The front panel includes ports for SIM cards, Ethernet/WAN, power, and status LEDs. Ports are typically grouped in banks of 8 and correspond to the internal 4G modems.



2 Get Ready to Start

2.1 What's in the Box

- Ejointech ACOM6XX Gateway Device
- External Antennas (SMA Connectors)
- Power Adapter (AC 100-240V INPUT)
- Ethernet Cable and USB Cable
- Mounting Brackets



Your Ejointech Device is designed so that user can set it up quickly and start using it right away. Follow the steps below to get started.

2.2 Install Antennas

ANTENNA INSTALLATION GUIDELINES

- Install antennas in a location with access to a cellular network radio signal.
- Antennas must not be installed inside metal cases.



2.3 Insert SIM Card

The device supports hot-swapping, allowing SIM cards to be inserted or removed without the need to power off. Ensure SIM card chips connect with the SIM tray's interface.

The SIM cards should be Standard SIM Cards 2FF (25mm×15mm×0.8mm).

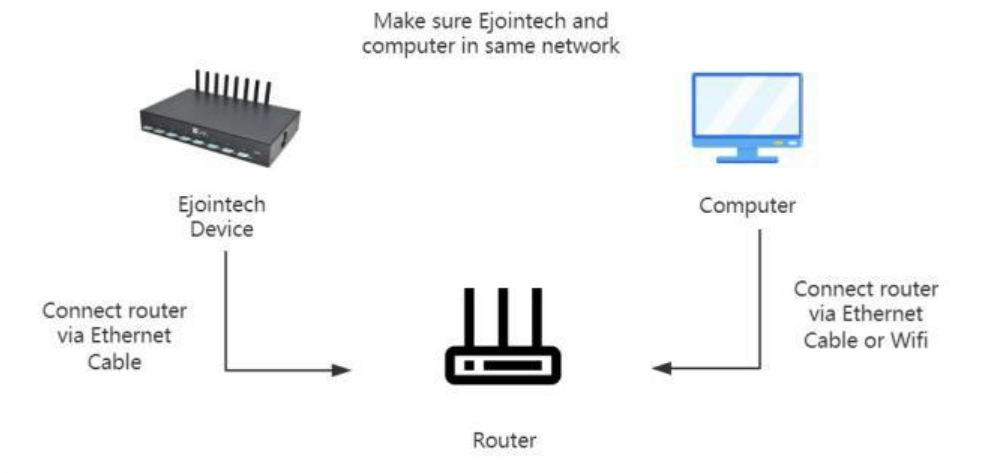


2.4 Network Connection

a. Wan Connection

Connect one end of the Ethernet cable to the WAN port of the gateway and the other end to the router. Make sure the gateway and computer connect with same network and login with default information ; which typically takes 1-2 minutes.

Video Reference: [How to Set Up Ejointech New Gateway \(YouTube\)](#)



b. Wifi Connection

This feature only applies to special model.

Click on menu position “Basic Settings” and navigate to tab “Wifi Settings”

WIFI Setting Collapse

WIFI Mode:	STA	
SSID:	ChinaNet-rDYK	Scan WIFI
WIFI Password:	*****	Connect WIFI
Status:	Connected	
WAN IP:	0.0.0.0	
IP Mask:	0.0.0.0	
Default Gateway:	0.0.0.0	
DNS Server:	0.0.0.0	

Submit Reset

Click on the "Running Status" position, navigate to the "System Settings" tab, and check the Wan Status to see if the wifi connection mode is successfully selected.

It should be “Wifi” if connected.

Advanced Settings

- System Settings
- Running Status
- Port Status
- System Status
- Inter-Call Stats
- SMS/MMS Stats
- SMS Inter Send

WAN Status Collapse

Connection Mode	Static IP	Connection Status	Connected
IP	192.168.1.164	Default Gateway	192.168.1.1
DNS Server IP	192.168.1.1	MAC Address	00-30-11-01-ad-7f

2.5 Power Connection

Connect the smaller end of the power cable to the power input on the back panel, and insert the other end of the cable into a 100-220V power outlet.



2.6 USB Serial Connection

The USB interface is only used for initial setup in case the user cannot find the IP or for troubleshooting by the EJointech technical team to resolve bugs. **It is not required to be connected when the device is operating normally.**



3 Accessing the Web Interface

3.1 Login Credential

- Default IP: 192.168.1.67
- Username: root
- Password: root

Ensure your computer is on the same subnet (e.g., 192.168.1.xxx) and access the device via a

browser.

The default WAN IP address of the device is 192.168.1.67. Here are the considerations regarding its compatibility with the router's LAN IP:

1. If the router's LAN IP is set to 192.168.1.1, the default IP of the device will work fine without any changes.
2. If the router's LAN IP is different from 192.168.1.1, say 192.168.0.1, then the default IP of the device needs to be adjusted. [So, how can you change it?](#)



3.2 Network Configuration

You can set the device IP via Static, DHCP, or PPPoE. Navigate to 'Basic Settings' > 'WAN Settings'.

- Static IP (default): 192.168.1.67
- DHCP: Automatically obtains an IP address from the router.
- PPPoE: Use if ISP requires username/password.



Enable Wan Type. Fill IP settings, submit to take effect.

Items	Description
WAN Type	Static IP: Manually set up gateway IP.
	Dynamic IP: Automatically obtain IP from local network (DHCP)
	PPPoE: Requires ISP to provide account and password. Use this mode when there is no router in the local network.
WAN IP	The WAN IP address of the gateway.
IP Mask	The subnet mask of the gateway.
Default Gateway	IP address of the default gateway. Example: router IP.
DNS Gateway	Domain name server IP address. Example: 8.8.8.8.

3.3 Basic Setting

a. SIP Server Connection

Click on menu position “Basic Settings” and navigate to tab “Sip Server Settings”

- Under this section, users can configure settings to connect with their softswitch or SIP server.
- This format clearly presents each setting and its description.

Item	Description
Protocol Mode	Two modes available: Registration and Point-to-Point. <i>Note: Point-to-Point is only for gateways and servers in the same LAN or with public IPs.</i>
Encryption Method	Two methods available: Ejointech’s and VOS2000. <i>Note: Selecting "EJOIN" requires configuring the proxy server and port</i>

	<i>first.</i>
SIP Server IP	IP or domain name of the softswitch directing traffic to the gateway. <i>Example: VOS IP.</i>
SIP Server Port	The SIP port of the softswitch, default is 5060.
Phone Number	Caller phone number for the SIP client, also serves as the callable SIP port number.
Account	SIP registration account provided by softswitch. <i>Example: Routing gateway ID on VOS.</i>
Password	Password for the SIP registration account.

4 Gateway Settings

In this section, users can perform basic configurations for the device, such as changing the IMEI, automatically obtaining numbers, setting billing options, configuring SIM card switching and etc.

4.1 Enable/Disable Port

Click on menu position "Gateway Setting" and navigate to tab "Port Setting".

In this section, users can manually enable or disable ports, slots, and select the network information for registration. Generally, it is recommended to keep the Basic Settings in this section at their default values. The device will intelligently select the network for registration based on the situation. Arbitrary changes may result in the SIM card failing to register.

Basic Settings

SIP Setting

Gateway Settings

Port Settings

PIN Settings

SIM Settings

Number Settings

Billing Settings

AT Command

USSD Command

Switch Card

Inter-Calling

Internet Settings

Call Dur. Control

Call Num. Control

Talk Num Settings

Call Cntrl Settings

SMS/MMS Settings

App Settings

Advanced Settings

System Settings

Running Status

Port Settings

Basic Settings

Hardware Properties

Network Type: Auto

Register Type: Data network

VoLTE Configuration: Auto

Unnormal SIM Supp: ☐ Enable

Submit

Reset

Hardware Properties

Port	Enable SIM Card	Forced Lock The Operator	Mobile Base	Provider	In Vol	Out Vol	IMEI
1	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626915
2	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626733
3	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626857
4	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626956
5	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626923
6	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626790
7	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626907
8	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626949
9	☒ .01 ☒ .02 ☐ .03 ☐ .04 ☒ .05 ☒ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629158

In this section, users can lock the operator. Generally, no additional settings are required by the user.

✓ Click 'Submit' at the bottom of the page to save your settings

4.2 IMEI Change

IMEI (International Mobile Equipment Identity) is a 15-digit number. The gateway supports IMEI modification to protect SIM cards .users can automatically change or generate IMEIs as needed.

Basic Settings

SIP Setting

Gateway Settings

Port Settings

IMEI Settings

PIN Settings

SIM Settings

Number Settings

Billing Settings

AT Command

USSD Command

Switch Card

Inter-Calling

Internet Settings

Call Dur. Control

Call Num. Control

Talk Num Settings

Call Cntrl Settings

SMS/MMS Settings

App Settings

Advanced Settings

IMEI Settings

IMEI Switching

Port IMEI

Modify IMEI: Specify Prefix

IMEI Switching

☒ Enable

By SIM Switching.

☐ Enable

Continuous Call F...

☐ Enable

Online Time(Min):

☐ Enable

Calls Num:

☐ Enable

Talks Num:

☐ Enable

Call dur. Value(M...

0

0

0

0

0

Call dur. P...

60

Submit

Reset

Port IMEI

Port	IMEI					
1	355385077058911					
2	868921045568878					
3	868921045209184					
4	868921045285036					
5	868921045285036					

- It supports automatic import and export of IMEIs.
- When selecting the IMEI prefix auto-fill option to change the IMEI, users can copy the first 6-8 digits of the IMEI, enter them into a designated field, click "Copy," and then select "Auto Complete" to automatically generate the IMEI.

- For detailed instructions, please refer to the video tutorial
<https://www.youtube.com/watch?v=jLuAiWcuRrY>
- Additionally, users can activate automatic IMEI switching and modification based on SIM card locking or other relevant conditions.

4.3 PIN Settings

Port					
1					
2					
3					
4					
5					
6					
7					
8					

PIN (Personal Identification Number) Most SIM cards do not have a PIN code. If a SIM card does have a PIN, enter the PIN code in the corresponding slot and enable "PIN Unblock" for the SIM card to function properly.

4.4 Sim Card Auto Enable

Click on menu position "Sim Setting" and navigate to tab "SIM Schedule".

This feature is suitable for multi-SIM devices and allows for automatic activation of SIM cards at different time intervals for more flexible management. For instance, user can activate SIM card 1 from 06:00 to 07:00 and SIM card 2 from 08:00 to 09:00.

4.5 Configure the Sim Number

a. Automatically Retrieve Sim Number

There are three ways to automatically retrieve the card number depending on user's mobile carrier (USSD code, SMS message, SIM card calling). For example, using **T-Mobile** in the United States:

- Access the "Number settings" under the "Gateway Setting" section on the device page.
- Fill in the information under the "Auto Query" section.
 - **Operator ID:** 310260
 - **Operator Name:** T-Mobile
 - **Method:** USSD
 - **Content:** #686#
- Click "Submit" to apply the changes.

Auto Query

Collapse

Operator I...	Operator Name	Method	Content	Number Key	Valid Character Set	Service Num	Recv Num	Translation
46001	CHN-UNICOM	USSD	#686#	number is				->

Inquiry Now

Submit

Reset

- This method is also applicable for USSD or SMS number queries.

Operator ID: Auto-select

Operator Name: Auto-select

Method: USSD/SMS

Content: USSD code or the phone number for SMS queries

Number Key: The keyword in the response from the recipient.(For example: if the USSD response is "Your SIM number is 923345556978," the keyword would be "number," which is typically the word that appears just before the SIM number).

Prefix Translation: If user receive the number as 923345556978 but do not need the country code, user can use prefix translation to delete "923" and add "0" instead.

b. Manual Entry Sim Card Number

If sim cards do not support automatic number retrieval or if automatic retrieval fails, please use manual entry mode. The page supports manually entering the sim card number into the corresponding sim card slot.

SIM Number

Collapse

Port No.	SIM Number				
1.01	18680091	01 18680091	02	03	04
		05	06	07	08
2.01	John Mark	01 John Mark	02	03	04
		05	06	07	08
3.01		01	02	03	04

√ Click "Submit" at the bottom of the page to apply the changes.

- Extended Prompt: When users enable port-to-port calling or messaging, they need to enter the number on this interface.

4.6 Billing Settings

This is the billing system page, widely used for automatically querying balance to remind customers to recharge or replace SIM cards with no balance. The billing system works by getting an accurate balance for each SIM card from USSD or SMS responses, then deducting money during each billing period based on the set tariff. Note that this method may have some deviations.

Billing Settings

Basic Settings

Simulate Billing: Disabled

Hangup The Call: Disabled

Source Of Operators: Register Operators

Periodic Query Balance: 0

Bal Warn Card Query: Disabled

Use Last Balance: Enabled

Check Balance When Switch Card: Enabled

Bal Warn Card Switch: Enabled

☐ When Balance Warning Send SMS to

Provider List

Index	Operator ID	Operator Name	Query Method	Caution Balances	Inval Balances
-------	-------------	---------------	--------------	------------------	----------------

Items	Description
Billing	Enable this to activate the billing system.
Hangup The Call	If enabled, the call will be hung up when the balance is lower than the invalid balance value.
Source of Operators	Use this setting when the operator ID and IMSI are different.
Periodic Query Balance	Enable to periodically query the balance for more accuracy.
Bal Warn Card Query	If enabled, it will query the balance when it is lower than the caution balance value.
Use Last Balance	- Enable: If the balance query fails, use the last known balance. - Disable: If the balance query fails, the balance shows as N/A, and the SIM can't be used if it is lower than the invalid balance value, indicated by a yellow SIM LED.

Provider List
Collapse

Index	Operator ID	Operator Name	Query Method	Caution Balances	Invalid Balances
1	46000	CHINA MOBILE	USSD	11.00	10.00
2	46001	CHN-UNICOM	USSD	0.00	0.00

Submit Reset

USSD Query Keyword List
Collapse

Index	Operator ID	Operator Name	Query Command	Balance Keywords	Invalid Balance Keywords	Invalid SIM Keywords
1	46000	CHINA MOBILE	17368758898	100		
2	46001	CHN-UNICOM				

Inquiry Now Submit Reset

SMSQuery Keyword List
Collapse

Index	Opr ID	Operator Name	Send Num	Recv Num	Query Cmd	Parse Scope	Bal Keys	Invalid Bal Keys	Invalid SIM Keys
1	46000	CHINA MOBILE							
2	46001	CHN-UNICOM							

Test Inquiry Now Submit Reset

Items	Description
Query Method	USSD or SMS for querying balance.
Caution Balances	When the balance is lower than the caution balance value, the billing system will send a USSD or SMS to recalibrate the balance.
Invalid Balances	The SIM can't be used if it is lower than the invalid balance value.
Query Command	The HTTP or SMS command for querying balance.
Balance Keywords	The balance keywords in the USSD or SMS response. For example: in "Your credit balance is AED 45.82," AED can be the keyword.
Invalid Balance Keywords	Keywords indicating an invalid balance.
Invalid SIM Keywords	If the SIM is blocked by the operator, it may get a response like "Sorry, your SIM is blocked now." You can set "blocked" as an invalid SIM keyword. The card will show as invalid.
Service Num	The operator number that will send an SMS back to you.
Query Cmd	SMS command for querying balance.
Balance Keys	Same as balance keywords.

Invalid Bal Keys	Same as USSD.
Invalid SIM Keys	Same as USSD.

Click “Add New” to set a tariff list with different destination prefixes. "x" means for all prefixes. User can also perform delete and edit operations here.

Tariff List Collapse

Data Detail

Data Status:

Destination Prefix:

Tariff:

Data List

☐	Destination Prefix	Tariff	Operation
☐	x	0.0010/60	[Del] [Edit]

4.7 AT Command

AT Command is used for communicating with and controlling gateways. These commands are used to check the status of the SIM card, send USSD commands, make calls, and perform other operations necessary for managing the gateway.

Module and Command Collapse

Module Operations

Please Select Module:

Command Operations Collapse

Please Select Port: ☐ All

☒ 01 ☐ 02 ☐ 03 ☐ 04 ☐ 05 ☐ 06 ☐ 07 ☐ 08
☐ 09 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24
☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

Manually Call:

AT Command:

USSD Command:

Response Data

Port	SIM Status	Content	Operation
1.01	at+cops?		
	+COPS: 0		
	OK		

- Module Operations**

User can select different modules and perform operations such as restart, stop, and start.

- Command Operations**

Items	Description
-------	-------------

Select Port	Choose the port to perform command operations.
Manually Call	Test if the SIM card can make a call.
AT Command	Send AT commands to check the SIM status.
USSD Command	Send USSD commands for balance inquiry, number retrieval, and recharge.
SIM Status	Display the current status of the SIM card.
Content	The response received after executing a USSD or AT command.

Command Operations

Please Select Port: ☐ All

☒ 01
 ☐ 02
 ☐ 03
 ☐ 04
 ☐ 05
 ☐ 06
 ☐ 07
 ☐ 08
☐ 09
 ☐ 10
 ☐ 11
 ☐ 12
 ☐ 13
 ☐ 14
 ☐ 15
 ☐ 16
☐ 17
 ☐ 18
 ☐ 19
 ☐ 20
 ☐ 21
 ☐ 22
 ☐ 23
 ☐ 24
☐ 25
 ☐ 26
 ☐ 27
 ☐ 28
 ☐ 29
 ☐ 30
 ☐ 31
 ☐ 32

Manually Call:

AT Command:

USSD Command:

Start Send Query All

4.8 USSD Command

USSD Command is used for sending USSD (Unstructured Supplementary Service Data) messages. These commands allow users to query balances, retrieve numbers, recharge accounts, and perform other operations on the SIM card.

Basic Settings

SIP Setting

Gateway Settings

Port Settings

PIN Settings

SIM Settings

Number Settings

Billing Settings

AT Command

USSD Command

Switch Card

Inter-Calling

Internet Settings

Call Dur. Control

Call Num Control

Talk Num Settings

Call Ctrl Settings

SMS/MMS Settings

App Settings

Advanced Settings

System Settings

USSD Command

USSD Auto Send

By Dur.

Min Minutes: 0

Max Minutes: 0

USSD:

By Call Dur.

Dur. Minutes: 0

Billing Prd(S): 60

USSD:

By Schedule1

Begin Time: 00:00

End Time: 00:00

USSD:

By Schedule2

Begin Time: 00:00

End Time: 00:00

USSD:

By Schedule3

Begin Time: 00:00

End Time: 00:00

USSD:

Drop

Drop

Drop

Drop

Drop

Submit

Reset

USSD List

USSD Command

Copy

Show Current

Show All SIM

Clear Data

Export Records

Send

Port	Status	Command	Response	Operations
1.01				
2.01				
3.01				
4.01				
5.01				
6.01				

- **USSD Auto Send**

USSD commands are automatically sent based on specific conditions. "Drop" means ending the current call after the specified call duration is reached.

- On this page, can manually send USSD commands and receive responses easily.

Items	Description
Copy	Copy the USSD command to another channel.
Show Current	Display the active SIM cards.
Show ALL SIM	Display all SIM cards.
Clear Data	Clear the USSD response data.
Send	Execute the USSD command.

4.9 Sim Slot Switch

This feature is only applicable to devices with multiple card slots per port. Ejointech devices allow only one SIM card to be online per port. When using a multi-card device, this interface for configuring the conditions for locking SIM cards in an Ejointech SMS device. Users can set various conditions under which a SIM card should be locked or switched out. It allows users to switch SIM cards under various conditions.

The screenshot displays the 'Conditions for Locking Card' configuration page. On the left is a sidebar with navigation options: Basic Settings, Gateway Settings (selected), Port Settings, IMEI Settings, PIN Settings, SIM Settings, Number Settings, Billing Settings, AT Command, USSD Command, Switch Card, Inter-Calling, Internet Settings, SMS/MMS Settings, App Settings, Advanced Settings, System Settings, Running Status, and Save and Reboot. The main content area is titled 'Conditions for Locking Card' and includes a 'Collapse' button. It contains several sections for configuring locking conditions:

- SIM Online Time Checking:**
 - ☒ Enable
 - Drop Call: ☐ Enable
 - Online Time: 3 : 10 (Minutes : Seconds)
 - Locking Duration: 300 (Seconds)
 - Drop the active call when online time expired.
 - * Minutes : Seconds
 - Seconds, 0 means no lock while -1 means permanent lock.
- Accumulated SMS Count Checking:**
 - ☐ Enable
- Accumulated Failed SMS Count Checking:**
 - ☐ Enable
- Consecutive Failed SMS Count Checking:**
 - ☐ Enable
- Consecutive Undelivered SMS Count Checking:**
 - ☐ Enable

a. Automatic SIM Card Switching

In the SIM card switching section, users can configure the conditions under which SIM cards will be automatically switched. When a SIM card meets the specified conditions, it will automatically switch to the next card slot.

- For receiving SMS messages, it is recommended to enable the following conditions and set the Sim card's online duration to be no less than 3 minutes to ensure stable card registration and reception.

SIM Online Time Checking: ☒ Enable

Drop Call: ☐ Enable Drop the active call when online time expired.

Online Time: 3 : 10 * Minutes : Seconds

Locking Duration: 300 Seconds. 0 means no lock while -1 means permanent lock.

- To check which SIM cards are active, navigate to "Running Status" > "Port Status" in the interface.
- Click 'Submit' at the bottom of the page to save your settings

b. SIM Card Switch by Manual

For manual SIM card switching, users need to navigate to the "Gateway Setting" section and configure the settings under the "Port Setting" page.

Port	Enable SIM Card	Forced Lock The Operator	Mobile Base	Provider	In Vol	Out Vol	IMEI
1	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626915
2	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626733
3	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626857
4	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626956
5	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626923
6	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626790
7	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626907
8	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061626949
9	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629158
10	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629042
11	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629141
12	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629380
13	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629125
14	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629174
15	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629059
16	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061629455
17	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061628481
18	☒ .01 ☐ .02 ☒ .03 ☐ .04 ☒ .05 ☐ .06 ☒ .07 ☐ .08	0	0	0	3	12	865828061628572

- **Enable/Disable SIM Cards:**
 - Check the SIM slots to enable the SIM card in that slot.
 - Uncheck the SIM slots to disable the SIM card in that slot.
 - Use this option to manually enable or disable SIM cards as needed.
- Click 'Submit' at the bottom of the page to save your settings

4.10 Port Inter-Calling

In this section, users can configure different ports and slots to call each other under specific conditions.

- Before enabling port-to-port calling, user need to go to the “Gateway Setting” section and enter the numbers in the “Number Setting” to ensure the software recognizes the corresponding card numbers for sending.
- Once the SIM numbers are filled, create the groups user need for the task, set the required conditions, and the idle ports will call each other **randomly** once the conditions are triggered.

The screenshot shows the 'Inter-Calling' configuration page. On the left is a sidebar with navigation links: Basic Settings, SIP Setting, Gateway Settings (with sub-links for Port, PIN, SIM, Number, Billing, AT Command, USSD Command, Switch Card, Inter-Calling, Internet, Call Dur. Control, Call Num Control, Talk Num Settings, and Call Ctrl Settings), SMS/MMS Settings, App Settings, Advanced Settings, System Settings, and Running Status. The main content area has two tabs: 'Inter-Calling' (active) and 'Oriented Call Setting'. Under the 'Inter-Calling' tab, there are two sections: 'Basic Settings' and 'Conditions Settings'. The 'Basic Settings' section has a 'Collapse' button and contains: 'Inter-Calling' set to 'Enabled' (with a help icon and note: '* If enabled, device will enable the feature by following conditions.'), 'Send SMS' set to 'Disabled' (with a help icon and note: '* If enabled, the callee will send a SMS to caller before inter-calling.'), 'Min Call Duration' set to '60' (with a unit selector set to 'Seconds'), and 'Max Call Duration' set to '120' (with a unit selector set to 'Seconds'). There are 'Submit' and 'Reset' buttons at the bottom right. The 'Conditions Settings' section also has a 'Collapse' button and contains several checkboxes: 'Time flow control' (unchecked), 'By Device Online Time' (checked), 'Consecutive Failed Calls' (unchecked), 'By Consecutive Calls' (unchecked), 'Total Call Durations' (unchecked), 'Cumulative of Calls' (unchecked), and 'By Continuous SuccCalls' (unchecked). To the right of these checkboxes are input fields: a time range '00:00 - 24:00', 'Min Interval' set to '60' (unit 'Minutes'), 'Failed Calls' set to '5', 'Consecutive Calls' set to '20', 'Call Durations' set to '60' (unit 'Minutes'), 'Call Sums' set to '0', and 'Con SuccCalls' set to '0'. There are also 'Submit' and 'Reset' buttons at the bottom right.

Items	Description
Port Inter-Calling	The function will work if it is enabled. (need to set SIM number for every port first).
Send SMS	If it is enabled, the callee will send a SMS to caller before inter-calling
Min Call Duration	The minimum call duration when do port inter calling

Max Call Duration

The maximum call duration when do port inter calling. the call duration will between minimum and maximum duration.

Conditions Settings Collapse

☐ Time flow control 00:00 - 24:00
☒ By Device Online Time Min Interval: 60 **Minutes**
☐ Consecutive Failed Calls Failed Calls: 5
☐ By Consecutive Calls Consecutive Calls: 20
☐ Total Call Durations Call Durations: 60 **Minutes**
☐ Cumulative of Calls Call Sums: 0
☐ By Continuous SuccCalls Con SuccCalls: 0

Max Interval: 120 **Minutes**

- If needed, users can choose to send an SMS before making a call to simulate human behavior.

Inter-Calling Oriented Call Setting

Inter-Calling Collapse

Basic Settings

Inter-Calling: Enabled * If enabled, device will enable the feature by following conditions.
 Send SMS: Enabled * If enabled, the callee will send a SMS to caller before inter-calling.
 Min Call Duration: 60 **Seconds**
 Max Call Duration: 120 **Seconds**

SMS List Collapse

Data List

	SMS Content	Operation
☐	please call me!	[Delete] [Edit]
☐	call me right now!	[Delete] [Edit]
☐	plz call me when u're free.	[Delete] [Edit]

- The callee will select an SMS content first, then send it to the caller before inter-calling. User can click the “Add New” button to add new SMS content, as well as delete or edit the existing SMS content.

4.11 Internet Settings

Under this section, users can configure a simulated internet connection to reduce the risk of their cards being blocked.

Each Port Data Flow Schedule Collapse

Port	Cycled / CycleDays	Consumed / Max Consum...	Trigger Time1	Trigger Time2	Operations
1	0 / 2	0 / 2048	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
2	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
3	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
4	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
5	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
6	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
7	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
8	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
9	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
10	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>
11	0 / 0	0 / 0	☐ 00:00 - 00:00	☐ 00:00 - 00:00	<button>Reset</button>

- The screenshot below shows which URL the device will surf for consuming data.

URL Settings Collapse

URLs

www.google.com
www.facebook.com

Seperated by comma or CRLF.

Submit

Reset

- This feature requires configuring the APN and activating data services to ensure that the card can access the internet.

APN Settings Collapse

Operator ID	Operator Name	APN	User Name	Password
Submit Reset				

5 SMS Send/Receive

This section is primarily for configuring settings related to SMS receiving and sending.

5.1 Port Status

This section is designed to display the registration status of the ports

Basic Settings

SIP Setting

Gateway Settings

SMS/MMS Settings

Port Settings

SMS Send

SMS Receive

SMS Forward

SMS Inter-Sending

Message Control

SMPP Settings

EIMS Settings

Prefix Route

SMS Filter

MMS Send

App Settings

Advanced Settings

System Settings

Running Status

Save and Reboot

SMS port settings

SMS port settings

Enabled Disabled Submit

☐	Port	Port Status	SMS Enabled	SMS Center Number
☐	1.01		✓	
☐	2.01		✓	
☐	3.01		✓	
☐	4.01		✓	
☐	5.01		✓	
☐	6.01		✓	
☐	7.01		✓	
☐	8.01		✓	
☐	9.01		✓	
☐	10.01		✓	
☐	11.01		✓	
☐	12.01		✓	
☐	13.01		✓	
☐	14.01		✓	
☐	15.01		✓	

5.2 SMS Sending

On this page, users can select one or multiple ports to send SMS messages to multiple contacts.

Basic Settings

SIP Setting

Gateway Settings

SMS/MMS Settings

Port Settings

SMS Send

SMS Receive

SMS Forward

SMS Inter-Sending

Message Control

SMPP Settings

EIMS Settings

Prefix Route

SMS Filter

MMS Send

App Settings

Advanced Settings

System Settings

SMS Record Source: EIMS

Submit Reset

Send SMS

Collapse

☒ 01 ☐ 02 ☐ 03 ☐ 04 ☐ 05 ☐ 06 ☐ 07 ☐ 08

☐ 09 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24

☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

Please Select Port: ☐ All

Receiver List:

SMS Content:

Successful SMS: Clear

Failed SMS: Clear

Send

* Semi-colon can be used to separate multiple receivers.

In the "Basic Setting" section, the "Sending Interval" allows users to set the time interval between sending SMS messages, thereby controlling the delay between two consecutive messages.If no value is set, the SIM card will send the second SMS immediately after the first one. If a value is set, the SIM card will wait for the specified interval before sending the second SMS.

Basic Settings

Collapse

Sending Interval: 5 - 6 * Seconds

Sms Send Timeout: 124 * 3-300(Seconds) for one short SMS

SMS Format: AUTO

Status Report: Disabled

Sms Send Max Length: 0 * Default 0 is not limited, the unit: byte

Sms Send Max Count: 0 * Default 0 is not limited

Sms Send Over Flow Proc: Refuse * Default rejection

Count rule: 0-0-140-6

Delay send duration: 0 * Seconds

SMS Record Source: EIMS

Submit Reset

- SMS Format can be PDU and TXT.
- SMS Status Report:When this feature is enabled, the system will receive a status report

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from the operator after an SMS is sent, confirming whether the message was successfully delivered.

5.3 SMS Receiving

The SMS inbox allows user to view received messages, including the sender and recipient. Use 'Refresh' to view the latest messages and 'Clear' to delete all messages.

- Basic Settings
- Gateway Settings
- SMS/MMS Settings
 - Port Settings
 - SMS Send
 - SMS Receive
 - SMS Forward
 - SMS Inter-Sending
 - SMS Control
 - SMPP Settings
 - ELMS Settings
 - Prefix Route
 - SMS Filter
 - MMS Send
- App Settings
- Advanced Settings
- System Settings
- Running Status
- Save and Reboot

SMS InBox

SMS Content

⌵ Collapse

Refresh
Clear

Port	Sender	Receiver	Time	Content	Operations
1.01	021820545	0640656816	04-26 14:27	ได้เวลาจริง!! กลเลข "158# สันนิษฐานเป็นเงิน500บ. สนิทเชงเมฆจนล้นบ้นด	(Details2)
2.01					(Details0)
3.01	True	0832043587	04-26 12:58	เดินแท่งนี้คิดเป็นคนละครึ่ง เริ่มค่น้อย ขึ้นเป็นค่น50% เข้าทุกรับนี้ไปซื้อของที่ร้านค้าบ้านQRพุดได้โดย1-30นบ65 คล็ก https://bit.ly/3lim8	(Details2)
4.01	027669038	0834706892	04-26 11:39	คงมีเรื่อง ทุกรวัน เลข ๆ วย ๆ ับบ้นล้นวาม สนิทคด "301"04# โทรลลค	(Details1)
5.01					(Details0)
6.01					(Details0)
7.01	020019700	0829800245	04-26 12:09	แจกไม่สั้น ทุกรบ้นบ้น! ล่นค่นโทรทศ 500น กล"124# สนิทลวงค 3บ/บด	(Details1)
8.01	TrueYou	0803316201	04-26 11:34	สคค่น! ชื่อของทุกรค้าบ้าน QR พุด ไรค่นแนบทุกรลลนเป็นส่วนลคได้สูงลค 175บ/เลือน 1นค85-30นบ65 คล็ก https://bit.ly/g1tvL	(Details2)
9.01					(Details0)
10.01					(Details0)
11.01	TrueYou		04-26 11:21	สคค่น! ชื่อของทุกรค้าบ้าน QR พุด ไรค่นแนบทุกรลลนเป็นส่วนลคได้สูงลค 175บ/เลือน 1นค85-30นบ65 คล็ก https://bit.ly/g1tvL	(Details2)

- To display the number or remark in the receiver field, please navigate to the “Gateway Setting” section, and under “Number Setting”, enter the corresponding sim slot's number in advance.

5.4 SMS Filter

In this section, user can filter out related numbers by setting a number prefix. User can also filter messages containing specific keywords by setting up keyword filters.

5.5 SMS Forward

a. SMS to HTTP

- The feature “SMS forward” allows to forward incoming SMS messages to one/more recipients/Servers according to defined rules.
- Click on Position "Gateway Setting" , Navigate to "SMS Forward",enable SMS to HTTP

- Users can refer to the Ejoin Gateway HTTP API Document to configure the relevant parameters.

Download [Ejoin Gateway HTTP API Document](#)

Parameter	Description
Forward protocol	GET: The SMS content will be in the request line.

	POST: The SMS content will be in the request body.
URL	The URL to which the SMS is forwarded.
User name	Use this field when the destination URL requires the 'username' parameter; user may leave it blank.
Password	Use this field when the destination URL requires the 'password' parameter; user may leave it blank.
Sender	The SIM number that sends SMS messages to the SIM card in the gateway.
Receiver	If the 'receiver' parameter is filled, it will display the value of that parameter. If it's not set, but the SIM card number is configured, it will display as the SIM card number. If the SIM card number is not set, this parameter will be empty.
Device Port	The device port.
Charset	UTF-8 or BASE64.

b. SMS to Email

The SMS to Email feature allows user to forward incoming SMS messages to one or multiple email addresses. Please ensure that your gateway is connected to the internet for it to work.

1. Open the Gmail sender email settings page, enable IMAP and POP, and keep them enabled.
2. Go to **Gmail "Account" > Security** and turn on two-step verification for login.
3. Search "APP PASSWORDS" on the search bar ,enter to create an app password.
4. Copy the password, remove any spaces, and enter it in the ****email password**** field on the device page.
5. Enter the Gmail recipient email in the device settings page.
5. Save and reboot the device to take effect.

Here are detailed steps

- Click on the "Gateway Setting" > "SMS Forwarding" > "Basic Setting", and select Email email in the forwarding protocol box.

Basic Settings

Forward Protocol: Email
 Content Before: Disabled
 Multiple Port: Enabled
 Sender:
 Password:
 Global Subject:

* Email Account
 * Email Password

Sms Forward Multi Ports

Port No.	Recipient	Subject	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

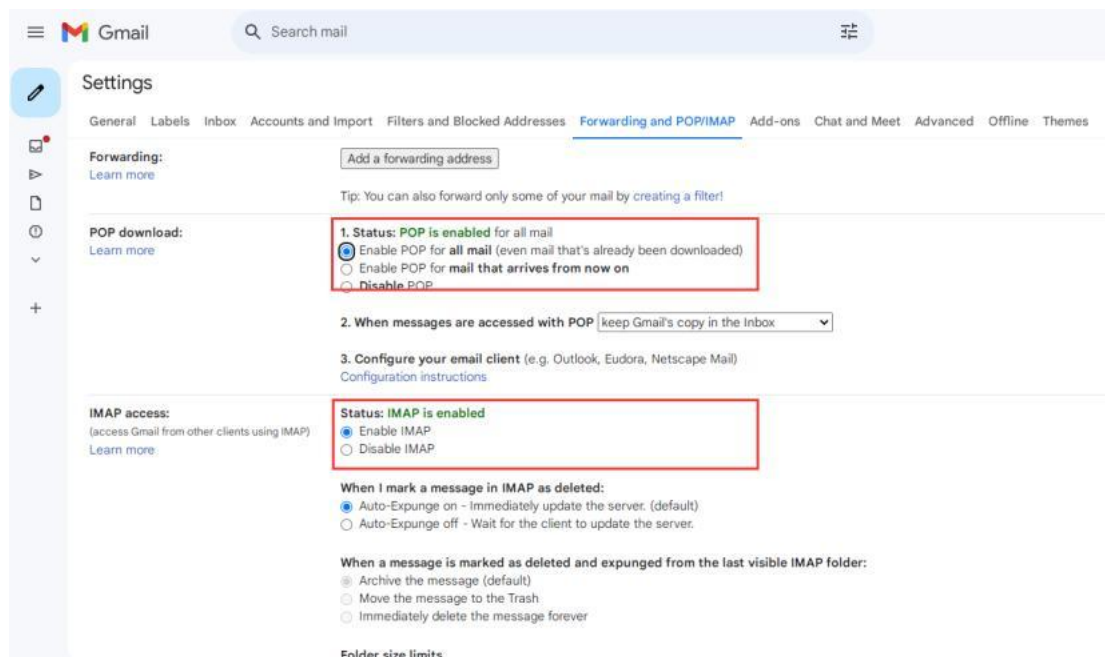
✓ The current version only supports forwarding to GMAIL email addresses. We will use a Gmail email address as an example to demonstrate the setup.

- The plugin can be used in two modes:
 - Forward all incoming SMS to one fixed email address
 - Forward incoming SMS from each port to different email address

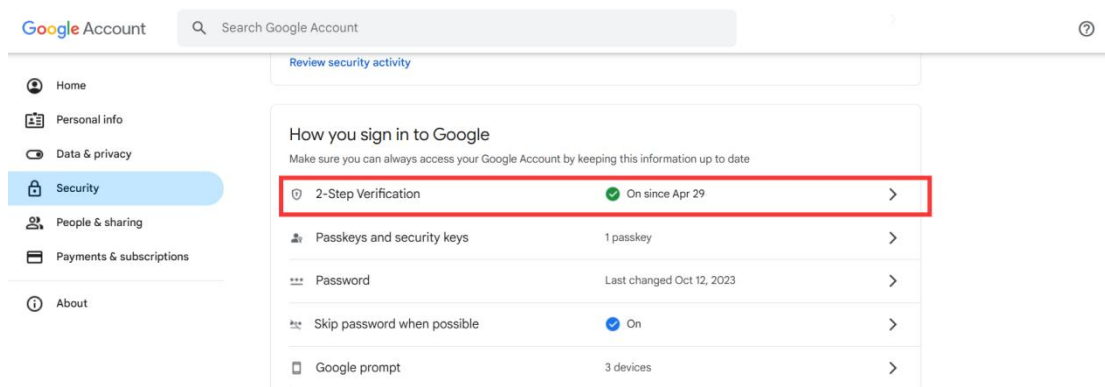
Parameter	Description
Forward protocol	After receiving a text message, the device forwards it to the destination email address in the form of an email.
Multiple Port	After enabling it, user can configure forwarding email addresses for each port
Sender	The sender's email address for emails sent to the destination email
Password	The sender's email password
Recipient	Recipient's email inbox

● Setup Instructions

1. Open the Gmail sender email settings page. Enable POP and IMAP on Gmail



- Go to Gmail "Account" > Security and turn on two-step verification for login.



← 2-Step Verification

Turn on 2-Step Verification

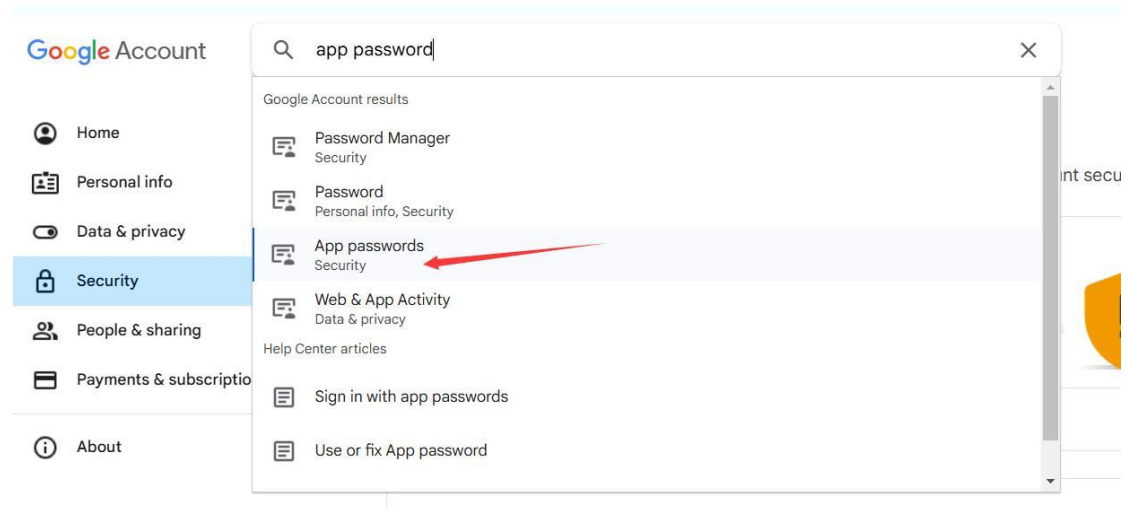
Prevent hackers from accessing your account with an additional layer of security.

Unless you're signing in with a passkey, you'll be asked to complete the most secure second step available on your account. You can update your second steps and sign-in options any time in your settings. [Go to Security Settings](#)



[Turn on 2-Step Verification](#)

3. Search "APP passwords" on the GOOGLE Account Search and enter APP passwords and create password.



← App passwords

App passwords help you sign into your Google Account on older apps and services that don't support modern security standards.

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.

[Learn more](#)

You don't have any app passwords.

To create a new app specific password, type a name for it below...

App name
ejointech

Create

4. Copy the password ,remove the spaces and fill in below tab. Submit
5. Save and Reboot device to take effect.

c. Example Email Text Sent from Plugin

- **Sender:** +16738126421
- **Receiver:** "port.sim slot number" +8618281110000
- **SMSC:** 8613800758500
- **SCTS:** 23090516464932
- **SMS Message Content**

✓ Requires App-Specific Password rather than regular Gmail email password

✓ Save and reboot to take effect after enabling and filling in the Gmail account details

5.6 SMS Port Inter-Sending

a. Port SMS Auto-Send

Scheduled Sending

Scheduled Sending allows user to customize the content user need to send and the numbers user want to send it to. When the conditions are triggered, the port will automatically send the SMS to the numbers user have entered.

The screenshot shows the 'SMS Inter-Sending' configuration page. On the left is a sidebar with navigation buttons: Basic Settings, SIP Setting, Gateway Settings, SMS/MMS Settings (selected), Port Settings, SMS Send, SMS Receive, SMS Forward, SMS Inter-Sending (active), Message Control, SMPP Settings, EIMS Settings, Prefix Route, SMS Filter, MMS Send, App Settings, Advanced Settings, and System Settings. The main area is titled 'SMS Inter-Sending' and contains a 'Scheduled Sending' section. This section has two text input fields: 'Content' (with a note 'maximum 2400 ASCII characters or maximum 800 local character') and 'Recipients' (with a note 'maximum 255 digits, including the semi-colon'). Below these fields are several checkboxes: 'Send To Local SIM', 'By Duration', 'By Consecutive Failed Calls', 'By Consecutive Calls', 'By Call Duration', and 'Sent by SMS'. To the right of these checkboxes are input fields for 'Inter Send Count' (set to 1), 'Minimum Minutes' (0), 'Failure Count' (0), 'Call Count' (0), 'Call Duration' (0), and 'SMS Count' (1). There is also a 'Maximum Minutes' field set to 0. At the bottom right of the 'Scheduled Sending' section are 'Submit' and 'Reset' buttons.

b. Port Inter-Send

In this section, users can configure different ports and slots to send SMS messages to each other under specific conditions.

Before enabling port-to-port sending, user need to go to the “Gateway Setting” section and enter the numbers in the “Number Setting” to ensure the software recognizes the corresponding card numbers for sending.

This screenshot shows the same 'SMS Inter-Sending' configuration page, but with the 'Port Group' section expanded below the 'Scheduled Sending' section. The 'Port Group' section has a table with 8 columns labeled 'Port', '.01', '.02', '.03', '.04', '.05', '.06', '.07', and '.08'. Each column has a checkbox in the first row, all of which are checked. Below the table are 'Submit' and 'Reset' buttons. The sidebar and other configuration options remain the same as in the previous screenshot.

- Once the sim numbers are filled, create the groups user need for the task, set the required conditions, and then activate this feature.

Basic Settings

SIP Setting

Gateway Settings

SMS/MMMS Settings

Port Settings

SMS Send

SMS Receive

SMS Forward

SMS Inter-Sending

Message Control

SMPP Settings

EIMS Settings

Prefix Route

SMS Filter

MMS Send

App Settings

Advanced Settings

System Settings

Running Status

Save and Reboot

☐ Send To Local SIM
 ☐ By Duration
 ☐ By Consecutive Failed Calls
 ☐ By Consecutive Calls
 ☐ By Call Duration
 ☐ Sent by SMS

Inter Send Count:
 Minimum Minutes:
 Failure Count:
 Call Count:
 Call Duration: **Minutes**
 SMS Count:

Port Group

Collapse

Port	.01	.02	.03	.04	.05	.06	.07	.08
☐ 1	☐	☐	☐	☐	☐	☐	☐	☐
☐ 2	☐	☐	☐	☐	☐	☐	☐	☐
☐ 3	☐	☐	☐	☐	☐	☐	☐	☐
☐ 4	☐	☐	☐	☐	☐	☐	☐	☐
☐ 5	☐	☐	☐	☐	☐	☐	☐	☐
☐ 6	☐	☐	☐	☐	☐	☐	☐	☐
☐ 7	☐	☐	☐	☐	☐	☐	☐	☐
☐ 8	☐	☐	☐	☐	☐	☐	☐	☐
☐ 9	☐	☐	☐	☐	☐	☐	☐	☐
☐ 10	☐	☐	☐	☐	☐	☐	☐	☐
☐ 11	☐	☐	☐	☐	☐	☐	☐	☐
☐ 12	☐	☐	☐	☐	☐	☐	☐	☐
☐ 13	☐	☐	☐	☐	☐	☐	☐	☐

c. Parameter Definition

Item	Description
Content	The SMS content user need to set for port-to-port sending. Maximum 2400 ASCII characters or maximum 800 local characters!
Recipients	The recipient numbers user want to send to. Use a semi-colon to separate multiple receivers.
Send To Local SIM	Enable this option to allow the gateway to send inter-port SMS (SIM numbers must be filled in "Number Setting" first). For example, channel 1 sends SMS to port 3.
By Duration	Send SMS based on the device's online time, within the specified minimum and maximum minutes.
By Consecutive Failed Calls	Send SMS based on consecutive failed calls.
By Consecutive Calls	Send SMS based on consecutive calls.
By Call Duration	Send SMS based on the SIM's call duration.

5.7 Message SMS-Send Control

In this section, users can control the sending volume for each port by adjusting the settings.

When user set Max Msg, Max Msg / Hour, Max Msg / Day, and Max Msg / Month, user need to configure the correct time zone (NTP Server). This setting resets every day at (0:00am).

Message Control

Basic Settings

Ctrl Mode: Enabled

Message Exhaust Operation: Lock SIM

Only Successful SMS: Disabled

Set by Each Port: Disabled

Max Msg: 0 means disabled * to use this feature, please set the NTP server

Max Msg / Hour: 0 means disabled * to use this feature, please set the NTP server

Max Msg / Day: 0 means disabled * to use this feature, please set the NTP server

Max Msg / Month: 0 means disabled * to use this feature, please set the NTP server

Message Statistics

Data List

Port	Status	Total	Remain	Current Hour	Remain	Today	Remain	Current Month	Remain	Operations
1.01										
2.01										
3.01										
4.01										
5.01										
6.01										

Port Settings

Port	Max Msg	Max Msg / Hour	Max Msg / Day	Max Msg / Month
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0

Item	Description
SMS Control Mode	Enable this mode by using the flash option.
Switch SIM	Switch the SIM card when one SIM card reaches the set limit.
Only Count Successful SMS	Enabled: Failed SMS will not be counted.Disabled: Failed SMS will be counted.
Set by Each Port	Enabled: Each port uses different SMS limit values. Disabled: All ports use the same SMS limit value.

Max SMS	The maximum number of SMS messages a SIM card can send.
Max SMS/Day	The maximum number of SMS messages a SIM card can send in a day.
Max SMS/Month	The maximum number of SMS messages a SIM card can send in a month.
Show Current SIM	Show only active SIM cards (default).
Show All SIMs	Show all SIM cards, including inactive ones.
Batch Reset	Manually reset the SMS count.

5.8 SMPP Settings

Ejointech devices support SMPP V3.4 and can function as both an SMPP client and server. Typically, Ejointech devices are more commonly used as SMPP servers.

SMPP Settings

Basic Settings

SMPP: SERVER Port: 20002 *Add :port to specify a special port.

Data List

Account	Password	Yield Code	Report Code	Dest Addr	TON	Status
1		AUTO	UTF-8			

Advanced Settings

Forward Sms: Enabled Sms Report Msg Type: Deliver_SM

Submit Response: Submitted Submit Timeout: 60 * Minutes

Report Response: Sent Report Timeout: 60 * Minutes

Smpp Min Submit Ports: 0

Auto Clip Routing: Disabled Max Queue Size: 1600

Fail Retry: 0

Retry Codes: a comma separated list of error codes that can trigger a retry, length limit 1024

We will demonstrate how to connect an Ejointech device to a Diafaan server to show how the connection is made.

The sending process is: Diafaan SMS server → Ejointech SMS gateway → Mobile.

a. Steps to Connect Diafaan SMS Server with Ejointech Device:

Create SMPP Port, Account, and Password in Ejointech Device

Set the port, account, and select all ports as shown in the screenshot above. Leave other fields blank.

Basic Settings

SMPP: SERVER Port: 20002 * Add 'port' to specify a special port.

Data List

	Account	Password	Yield Code	Report Code	Dest Addr	TON	Status
1	diafaan	123456	AUTO	UTF-8			

Buttons: Add New, Delete, Submit, Reset

b. Add SMPP Gateway in Diafaan

Open Diafaan and add a new SMPP gateway.

Add SMPP Gateway

Message Gateway type

Select the message gateway type you want to use.

☐ GSM Modem Gateway
☒ SMPP Gateway
☐ Clickatell Gateway
☐ Other: Emulator Gateway

Buttons: < Previous, Next >, Cancel

c. Configure the SMPP Gateway in Diafaan

Enter the SMPP server account details created on the Ejointech device in step 1:

Host or IP: Device IP address (if Diafaan and the device are not in the same local network, forward the SMPP port).

Server Port: 20002

SMPP Version: v3.4

Username: Diafaan

Password: 123456

Add SMPP Gateway



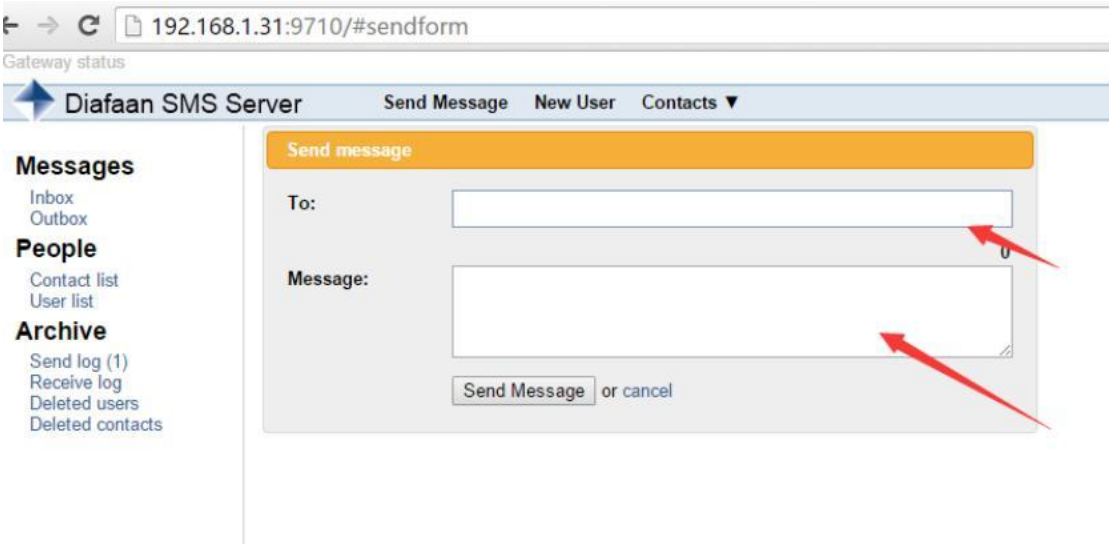
SMPP server

Enter your SMPP server account details.

SMPP server	
Host or IP	
Server port:	2775
SMPP version:	☐ v3.3 ☒ v3.4
SMPP server account	
User name:	
Password:	
Default source	+000000000000
☐ Users can override the default source	
Test Click on the Test button to test the SMPP server before going to the next step.	
< Previous Next > Cancel	

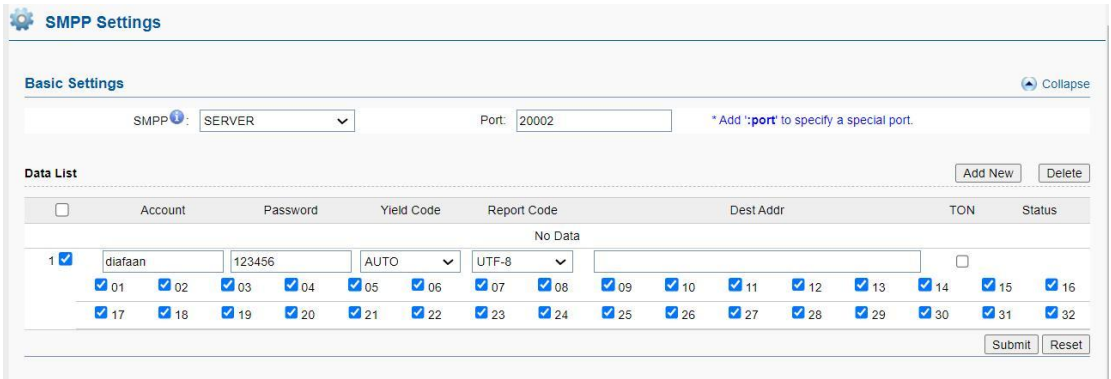
d. Send a Test SMS

After configuring, send a test SMS to verify the connection.



This will guide user through connecting the Diafaan SMS server with an Ejointech device for SMS transmission.

e. Parameter Explanation



Item	Description
SMPP	client: Device works as an SMPP client. server: Device works as an SMPP server. If the device is in NAT, the SMPP port needs to be forwarded first.
Port	Device SMPP port.

Account	SMPP account for SMPP client registration.
Password	SMPP account password.
Yield Code	When the device receives an SMS, it will encode the message using this code.
Report Code	The code for the delivery report.
Dest Addr	Destination address. When the device receives an SMS, it will send the SMS to the SMPP client, and the recipient address will be the destination address.
TON	NPI and TON are set to 0x01 if enabled.
Status	When an SMPP client is registered in the device, it will show as "transceiver".
Select Ports	Selecting all ports means all ports will use one SMPP account.

f. Parameter Explanation

Advanced Settings

Collapse

Forward Sms: Enabled

Submit Response: Submitted

Report Response: Sent

Smpp Min Submit Ports: 0

Auto Clip Routing: Disabled

Fail Retry: 0

Retry Codes: a comma separated list of error codes that can trigger a retry, length limit 1024

Sms Report Msg Type: Deliver_SM

Submit Timeout: 60 * Minutes

Report Timeout: 60 * Minutes

Max Queue Size: 1600

Submit

Reset

Item	Description
Forward SMS	Enabled: Forward SMS to SMPP client. Disabled: Do not forward SMS to SMPP client.
SMS Report Msg Type	SMS report message type, default is Deliver_SM.
Submit Response	Submitted: When the device receives a request, it sends back "submit ok". Sent: When the device sends SMS to SMSC successfully, it sends back "submit ok".

	Delivered: When the destination mobile receives SMS, it sends back "submit ok".
Submit Timeout	Submit "ok" timeout value. After 60 minutes, it will timeout.
Report Response	Sent: When the device sends SMS to SMSC successfully, it sends back a delivery report. Delivered: When the destination mobile receives SMS, it sends back a delivery report. No Response: Do not send a delivery report.
Report Timeout	Report timeout value, default is 60 minutes.
Auto Clip Routing	Send: When an SMS is sent from one port, the next time, the same recipient number will also use that port. Receive: When SMPP sends an SMS from a device port, the next time this port receives an SMS, it will forward to the destination address using the original address from the first time.
Cache Time	The auto clip routing cache time.

5.9 EIMS (Bulk SMS Software) Connection

EIMS is a bulk SMS system developed by Ejointech for its devices. In this section, users can register their devices to connect to EIMS for bulk sms. The installation of EIMS requires the user to provide a cloud server with LINUX CENTOS7.

For detailed instructions, please refer to the documentation [Ejointech EIMS Quickstart User Guide](#). This page only guides users on how to register to EIMS.

a. Here are the steps for setting remote management for user's devices.

1. **Prepare VPS:** Set up a VPS running Linux CentOS 7.
2. **Install EIMS:** Contact the Ejointech technical team to install the EIMS system on your VPS.
3. **Register Device:**
 - a. Login EIME Link Ejointech installed and Click on Position "Basic Setting", navigate to "Device Mgnt" to create new account for gateway.
 - b. Go to the "EIMS Setting" section on the SMS/MMS Settings.
 - c. Select "EIMS" as the server type.
 - d. Enter the EIMS server IP and choose TCP Port.
 - e. Enter the account credentials user created on EIMS.
 - f. Click "Submit" to register user's device with the EIMS system.
 - g. Save and Reboot to take effect.

Video Reference: [How to Register Ejointech Device with EIMS \(YouTube\)](#)

5.10 Prefix Route

The SMS will be routed to the ports that match the specified prefix, which helps save communication expenses. There are two modes for prefix settings: operator prefix and port prefix.

- **Operator Prefix:** This mode is used when one device has SIM cards from different operators. By configuring the operator prefix, the device will use the same operator to send SMS

traffic routed to it.

- The screenshot below shows the operator prefix setup. When SMS traffic is sent to the device, it will use the SIM card from the same operator to send the SMS.

The screenshot shows the 'Prefix Route Settings' page. On the left is a sidebar menu with categories: Basic Settings, SIP Setting, Gateway Settings, SMS/MMMS Settings (expanded), App Settings, Advanced Settings, System Settings, Running Status, and Save and Reboot. Under 'SMS/MMMS Settings', 'Prefix Route' is selected. The main content area has a 'Basic Settings' section with a 'Prefix Route' dropdown set to 'Operator Prefix'. Below this is a 'Data List' table with columns: Country Code, Operator ID, and Receive Number Prefix. The first row shows '86' for Country Code and '46000' for Operator ID. There are 'Add New', 'Delete', 'Submit', and 'Reset' buttons.

	Country Code	Operator ID	Receive Number Prefix
1 ☒	86	46000	

- **Port Prefix:** This mode routes SMS traffic based on the port prefix settings. When SMS traffic is sent to the device, it will route the SMS according to the specified port prefix

The screenshot shows the 'Prefix Route Settings' page with 'Port Prefix' selected in the 'Prefix Route' dropdown. Below the 'Basic Settings' section is the 'Port Prefix Settings' section, which contains a table with columns: Port, Port Status, Prefix, and Remove Prefix Digits. The table lists ports from 1.01 to 10.01. The first row for port 1.01 shows a status of 0. There are 'Submit' and 'Reset' buttons.

	Port	Port Status	Prefix	Remove Prefix Digits
☐	1.01			0
☐	2.01			0
☐	3.01			0
☐	4.01			0
☐	5.01			0
☐	6.01			0
☐	7.01			0
☐	8.01			0
☐	9.01			0
☐	10.01			0

5.11 MMS Send

Ejointech 4G devices support MMS sending. Currently, receiving MMS can only be achieved via HTTP API.

When configuring MMS sending, ensure that the SIM cards inserted in the device have data enabled. Additionally, user need to configure some related settings on the device to ensure successful sending.

Configuration Steps:

1. Ensure Data Activation: Make sure that the SIM cards inserted in the device have an active data plan.

2. Configure APN information

- If user do not know the APN information for user's SIM card, insert the SIM card into an Android phone and navigate to the "Access Point Names" (APN) settings to find the information. Alternatively, user can contact SIM card provider or mobile carrier for this information.
- The image below is an example of the APN information for a specific mobile carrier.

APN Name	Verizon
APN	vzwinternet
Proxy	
Port	
Username	
Password	
Server	
MMSC	https://mms.vtext.com/servlets/mms
MMS Proxy	
MMS Port	80
MCC	310
MNC	12
Authentication Type	
APN Type	internet+mms
APN Protocol	
APN Roaming Protocol	
Bearer	

3. Configure MMS Settings: On the device, configure the necessary settings such as MMSC, MMS proxy, port and APN (Under Gateway Settings>Internet Settings>APN Settings).

Settings

Collapse

Operator ID	MMSC	MMS Proxy	MMS Por...	ContextId
310410			0	0
311480			0	0
310260	http://mms.msg.eng.t-mobile.com/mms/wapenc		80	1

Submit Reset

Send MMS

Collapse

☐ 01
☐ 02
☐ 03
☐ 04
☐ 05
☐ 06
☐ 07
☐ 08

APN Settings

Collapse

Operator ID	Operator Name	APN	User Name	Password

Submit Reset

4. **Select Ports:** Choose one or more ports for sending MMS to different recipients.
5. **Monitor Records:** Check the records of successful and failed MMS sends displayed below.

For receiving MMS, set up the HTTP API according to the provided guidelines.

Remind to save and reboot the software to take effect.

6 Application Settings

6.1 Translation Settings

a. SIP to LTE Translation List

Using the example in the figure above:

- **Callee Number:** 25670123456
- **Prefix:** 2567
- **Digits Stripped:** 3 digits
- **Added Digit:** 0

The callee number 25670123456 will be translated to 070123456 after stripping the first 3 digits and adding a 0.

If the ports are set to `\*`, the translation will apply to all ports.

The screenshot shows the 'SIP->GSM Translation List' configuration window. It has a 'Data Details' section with input fields for 'Data Status' (set to 'Edit'), 'Ports' (set to '*'), 'Callee Prefix' (set to '2567'), 'Digits Stripped' (set to '3'), and 'Digits Added' (set to '0'). To the right of these fields are explanatory notes: '* Asterisk means match all digits', '* 0 means not stripping prefix', and '* Space means not adding prefix'. A 'Submit' button is at the bottom right of the details section. Below is a 'Data List' section with 'Add New' and 'Delete' buttons. It contains a table with the following data:

☐	Ports	Callee Prefix	Digits Stripped	Digits Added	Operation
☐	*	2567	3	0	[Del] [Edit]

b. LTE->SIP Translation List

Using the example in the figure above, when calling the SIM in the gateway, user will hear an IVR message: "Please dial a number." If user dial 85245166, it will be translated to 075585245166.

Prefix Translation List

Collapse

Data Detail

Data Status: Edit

Ports: All

Original Prefix: [2-9]

Translated Prefix: 0755x

x means all input number, [0-9] means all digits

x means the corresponding digit of original prefix from right to left

Submit

Data List

Add New

Delete

☐	Ports	Original Prefix	Translated Prefix	Operation
☐		[2-9]	0755x	[Delete] [Edit]

c. Caller ID Hidden

This feature requires support from the carrier. If the carrier in the user's country does not support it, this feature will not be available on the user's device. Some operator's SIM cards can also hide the caller ID by adding a dial prefix.

Callerid Hidden

Collapse

Callerid Hidden: Enabled

Dial Prefix:

Submit

Reset

6.2 SIM Pool Settings

This page is used to register for the Ejointech Simbank system(ESPS). When users purchase a Simbank and a Gateway, they need to provide a VPS Linux Centos 7 for Ejointech to install the Simbank system (Called ESPS). The Gateway can then be registered to the SIMBANK system using this page.

Steps for Connecting Gateway with Simbank Server (ESPS)

1. Create a Gateway device account in the ESPS system.
2. Enter the ESPS link IP and the created device account.
3. Save the settings and restart the device.

6.3 Auto Recharge

Auto recharge is based on the billing system. If user want to enable auto recharge, please configure the billing system first.

- **Recharge Template #0:** Connects with the Ejointech auto recharge system.
- **Recharge Templates #1-#4:** Connect with third-party recharge systems in Bangladesh.

Auto Recharge Parameter

Item	Description
------	-------------

Server Address	The auto recharge server address (the server with the Ejointech EAR system).
Username	The username created in the Ejointech EAR system.
Password	The password created in the Ejointech EAR system.
Status	Displays the registration status.
Min Balance	If the balance is lower than this value, the EAR system will perform an auto recharge.

Basic Settings

Collapse

Auto Recharge:

Recharge Platform:

Server Address:

User Name:

Password:

Operator:

Number Type:

Amount:

Access key:

Repeat Time: Can't be less than 600 seconds

Confirmed Timeout: Seconds

Time recharge control ⓘ: -

Other Settings

Collapse

Min Balance: If balance reached to this value, the auto-recharge will be trigger.

Recharge Record

Collapse

Port	Phone Number	Amount	Time	Status	Description
No Data					

Total: undefined undefined/NaNPages

Auto Recharge Configuration

Item	Description
------	-------------

Server Address	The address of the third-party recharge system.
Username	The username created in the recharge system.
Password	The password created in the recharge system.
Operator	The operator ID.
Number Type	Specifies whether the SIM card is prepaid or postpaid.
Amount	The amount to be refilled.
Access Key	The access key created in the recharge system.
Repeat Time	The time interval during which the SIM card cannot be recharged again after a recharge.
Confirmed Timeout	The time to query the balance.
Time Recharge Control	The time period during which recharges are enabled.
Recharge Record	Displays the recharge records on this page.

6.4 State Notification

- This feature is used to send various types of reports from the device to a configured URL. The reports include data such as Call Detail Records (CDR), SMS data, call duration, SMS counts, and traffic counts. The information is transmitted using HTTP, and detailed implementation can be found in the API documentation.

The device sends reports to a configured URL. These reports include:

- Call Detail Records (CDR)
- SMS data
- Call duration data
- SMS counts
- Traffic counts

The reporting is based on HTTP. For more details, please refer to the Ejointech Gateway Http API document.

The screenshot shows the 'State Notification' configuration page. The left sidebar contains the following menu items: Basic Settings, SIP Setting, Gateway Settings, SMS/MMMS Settings, App Settings (with sub-items: Phone Book, Dial Plan, Translate Settings, Inward Black List, Inward White List, SIM Pool Settings, Auto Recharge, and State Notification), Advanced Settings, System Settings, Running Status, and Save and Reboot. The main content area has two sections: 'Basic Settings' and 'Reporting Control'. The 'Basic Settings' section includes fields for 'Enable' (set to 'Enabled'), 'URL' (empty), and 'Interval time' (set to '60' seconds). The 'Reporting Control' section includes checkboxes for 'CDR', 'Receive SMS', 'Sent SMS', 'Call Control', 'SMS Control', and 'Traffic Control', all of which are currently checked. Both sections have 'Submit' and 'Reset' buttons.

Device Reporting Configuration

Item	Description
URL	The URL to which the HTTP report is sent.
Interval Time	The interval at which reports are sent.
CDR	Call Detail Records.
Receive SMS	The SMS messages received by the device.
Sent SMS	The SMS messages sent from the device via HTTP, SMPP, and web.
Call Control	Call duration data, including SIM cards' call duration and remaining time.
SMS Control	SMS counts, including SIM cards' SMS count and remaining SMS count.
Traffic Control	Data usage of the SIM cards.

This configuration allows the device to send various reports to a specified URL at defined intervals.

7 Advanced Setting

This section allows for detailed customization and management of the device's advanced functions.

7.1 Network & VPN Settings

The Network and VPN settings allow users to configure how the device connects to and interacts with other networks.

a. VPN Settings

- This device operates only as a VPN client (PPTP and OpenVPN). To use the VPN function, please enter the VPN parameters on the VPN settings page.

Network Settings

VPN Settings

VPN Support: OpenVPN
 Auth Mode: Password
 Server Address:
 User Name:
 Password: *****
 Vpn Proto: UDP
 MTU: 1400
 Local IP: 0.0.0.0
 Remote IP: 0.0.0.0

Network Management Settings

Web Port: 80
 Telnet Port: 0
 System Telnet Port: 0
 HTTP API Port: 80

* Open (> 0) Risk of attack, please use caution

- Network Settings**

There are three ways to access the device:

- **Web** (default port: 80)
- **Telnet** (default port: 23)
- **Serial** (the COM port user insert)

- Web configuration is the most commonly used method for this device.

Network Management Settings

Web Port: 80
 Telnet Port: 0
 System Telnet Port: 0
 HTTP API Port: 80

* Open (> 0) Risk of attack, please use caution

- Network Settings**

Item	Description
Web Port	Device web management port
Telnet Port	Device telnet port (0 means disabled)
System Telnet Port	Device system shell access via telnet (0 means disabled)
HTTP API Port	HTTP API port (default is the same as web port)

Network Management Settings ⌵ Collapse

Web Port:	80	
Telnet Port:	0	
System Telnet Port:	0	* Open (> 0) Risk of attack, please use caution
HTTP API Port:	80	
HTTPS:	Disabled	

7.2 Port Settings

This section allows users to control how calls are managed and forwarded on the device's various channels.

Port Settings ⌵ Collapse

Port	Type	Disable Port	RTP	Hot-line	Unconditional Forward	No Answer Forward	Busy Forward
1	LTE	☐	☒				
2	LTE	☐	☒				
3	LTE	☐	☒				
4	LTE	☐	☒				
5	LTE	☐	☒				
6	LTE	☐	☒				
7	LTE	☐	☒				
8	LTE	☐	☒				
9	LTE	☐	☒				
10	LTE	☐	☒				
11	LTE	☐	☒				
12	LTE	☐	☒				
13	LTE	☐	☒				
14	LTE	☐	☒				
15	LTE	☐	☒				
16	LTE	☐	☒				
17	LTE	☐	☒				

Port Settings Description

Item	Description
Type	Indicates the current type of network (LTE).

Disable	If disabled, this channel will be locked by the gateway.
Hot-line	When a client calls this channel, the gateway will automatically forward the call to the specified hot-line (Mobile to VoIP). Leave blank if not needed.
Unconditional Forward	When a client calls this channel, the gateway will forward the call to another mobile unconditionally.
No Answer Forward	When a client calls this channel and there is no answer, the gateway will forward the call to another mobile.
Busy Forward	When a client calls this channel and the channel is busy, the gateway will forward the call to another mobile.

7.3 LED Settings

The "LED Setting" page allows users to configure the LED indicators for SIM card status. Each SIM slot has an LED that displays the current status of the SIM card. If there is an issue with the SIM card, such as carrier lock, profile lock, no balance, or registration failure, the LED will flash. The flash frequency can be adjusted for different conditions.

Settings Overview:

- Lock Card Flash Frequency:

- **Carrier Lock Card:** Adjusts the flash speed when the SIM card is locked by the carrier
- **Profile Lock Card:** Adjusts the flash speed when the SIM card profile is locked.
- **No Balance:** Adjusts the flash speed when the SIM card has no balance.
- **Registered Failed:** Adjusts the flash speed when the SIM card fails to register.

- Other Settings:

- **Port Light Indication:** Option to disable or enable the port light indicator.
- **Temp Lock LED Disabled:** Option to enable or disable the temporary lock LED.

This page is used to set how the LEDs will behave to indicate various statuses and issues with the

SIM cards in the device.

The screenshot shows the 'LED Setting' configuration page. On the left is a sidebar menu with categories: Basic Settings, SIP Setting, Gateway Settings, SMS/MM/S Settings, App Settings, Advanced Settings, System Settings, Running Status, and Save and Reboot. Under 'Advanced Settings', 'LED Settings' is selected. The main content area is titled 'LED Setting' and includes a 'Collapse' button. It contains two sections: 'Lock Card Flash Frequency' and 'Other Settings'. The 'Lock Card Flash Frequency' section has four rows, each with a label, a radio button for 'Slow' or 'Fast', and a numeric input field. The 'Other Settings' section has two checkboxes: 'Port Light Indication' (unchecked, labeled 'Disable') and 'Temp Lock LED Disabled' (checked, labeled 'Enable'). At the bottom right are 'Submit' and 'Reset' buttons.

Lock Card Flash Frequency	Slow	Fast	Value
Carrier Lock Card	☐	☐	100
Profile Lock Card	☐	☐	100
No Balance	☐	☐	500
Registered Failed	☐	☐	1000

Other Settings

Port Light Indication: ☐ Disable

Temp Lock LED Disabled: ☒ Enable

Submit Reset

7.4 Other Settings

This section provide comprehensive control over the device's behavior, allowing for customization to meet specific operational requirements.

The screenshot shows the 'Other Settings' configuration page. On the left is a sidebar menu with categories: Basic Settings, SIP Setting, Gateway Settings, SMS/MM/S Settings, App Settings, Advanced Settings, System Settings, Running Status, and Save and Reboot. Under 'Advanced Settings', 'Other Settings' is selected. The main content area is titled 'Other Settings' and includes a 'Collapse' button. It contains a section titled 'Application Feature' with various settings. The settings are organized into two columns. The left column includes: Caller ID Display (checked), Adaptive JitterBuffer (checked), Don't send # to PSTN (checked), Carry PSTN Caller ID (checked), Forbid PLMN Call (unchecked), White Number List (text input), and Agents MMS (text input). The right column includes: Silence Suppression (checked), IP TOS (unchecked), and Append # to PSTN (unchecked). Below these are several time-related settings: DTMF Pre-Act Time (1), DTMF Activity Time (3), First DTMF Wait Time (12), Max Alerting Time (120), Max Ringback Time (120), RTP Inactivity Time (60), and Auto Alerting Time Range (0-0). There are also checkboxes for Stop Pseudo Alert (checked), GSM Delay Answer (unchecked), and GSM Delay Answer Time Range (0-0). At the bottom right are 'Submit' and 'Reset' buttons.

Application Feature

Caller ID Display: ☒ Enable

Adaptive JitterBuffer: ☒ Enable

Don't send # to PSTN: ☒ Enable

Carry PSTN Caller ID: ☒ Enable

Forbid PLMN Call: ☐ Enable

White Number List:

Agents MMS:

DTMF Pre-Act Time: * Seconds

DTMF Activity Time: * Seconds

First DTMF Wait Time: * Seconds

Max Alerting Time: * Seconds

Max Ringback Time: * Seconds

RTP Inactivity Time: * Seconds

Auto Alerting Time Range: * Seconds

Auto Alerting Type: * Seconds

Stop Pseudo Alert: ☒ Enable

GSM Delay Answer: ☐ Enable

GSM Delay Answer Time Range: * Secs

Silence Suppression: ☒ Enable

IP TOS: ☐ Enable

Append # to PSTN: ☐ Enable

* excluding white list numbers

* Separated by comma

* Separate multiple proxy configurations with

c...

Stop the pseudo alert when callee is alerting.

Submit Reset

a. Application Feature Settings Overview

This page provides a variety of settings to configure advanced features and behaviors of the gateway device. Below is an explanation of each section and how to use them.

1. Caller ID and Jitter Buffer Settings

- **Caller ID Display:** Enable or disable caller ID display.
- **Adaptive JitterBuffer:** Enable or disable adaptive jitter buffer to help manage variations in

packet arrival times.

- **Silence Suppression:** Enable to avoid transmitting silence packets.
- **IP TOS:** Enable to set Type of Service for IP packets.
- **Don't send # to PSTN:** Enable to prevent sending '#' to PSTN.
- **Append # to PSTN:** Enable to append '#' to PSTN.

2. Call Forwarding and DTMF Settings

- **Carry PSTN Caller ID:** Enable to carry PSTN caller ID.
- **Forbid PLMN Call:** Enable to forbid PLMN calls (excluding white list numbers).
- **White Number List:** Enter numbers separated by commas.
- **Agente MMS:** Configure multiple proxy configurations separated by commas.
- **DTMF Pre-Act Time:** Set the pre-action time for DTMF.
- **DTMF Activity Time:** Set the activity time for DTMF.
- **First DTMF Wait Time:** Set the wait time for the first DTMF.
- **Max Alerting Time:** Set the maximum alerting time.
- **Max Ringback Time:** Set the maximum ringback time.
- **RTP Inactivity Time:** Set the RTP inactivity time.
- **Auto Alerting Time Range:** Set the time range for auto alerting.
- **Auto Alerting Type:** Set the type of auto alerting (default is 183).
- **Stop Pseudo Alert:** Enable to stop pseudo alert when the callee is alerting.

3. Delay and Interval Settings

- **LTE Delay Answer:** Enable to delay answer for LTE.
- **Delay Answer Time Range:** Set the delay answer time range for LTE.
- **LTE SIP Delay Answer:** Enable to delay answer for LTE SIP.
- **SIP Delay Answer Time Range:** Set the delay answer time range for SIP.
- **SIP Delay Answer Call Dur.:** Set the call duration for SIP delay answer.
- **VoIP Delay Answer:** Enable to delay answer for VoIP.
- **Delay Answer Time:** Set the delay answer time.
- **Call interval Model:** Set the call interval model (default is Refuse).
- **Call interval Time Range:** Set the call interval time range.

- **Auto Redial Times:** Set the number of auto redial attempts.
- **Call Wait Settings Times:** Set the call wait settings times.
- **DTMF Mode:** Set the DTMF mode (default is RFC2833).
- **RFC2833 Payload Type:** Set the payload type for RFC2833.
- **DTMF Quiet Duration:** Set the quiet duration for DTMF.
- **RTP Ptime:** Set the RTP packetization time.
- **RTP Start Port:** Set the RTP start port.
- **RTP End Port:** Set the RTP end port.
- **Hotline Number Dial Delay:** Set the dial delay for hotline numbers.
- **Network Compatible Count:** Set the network compatible count.
- **Network Compatible Dur.:** Set the network compatible duration.
- **Check Balance TimeOut:** Set the timeout for checking balance.
- **Module Reg Timeout:** Set the module registration timeout.
- **Auto Reply:** Enable to auto-reply to messages.
- **Busy Tone Det:** Enable busy tone detection.
- **TE Char Set:** Set the TE character set (default is LTE).
- **Wireless Mod Heartbeat Det:** Set the heartbeat detection for the wireless module.
- **Switch Mode:** Set the switch mode (default is qsimsw).
- **SIM Card Init Judge:** Enable SIM card initialization judge.
- **Volte Call Only:** Enable to allow only VoLTE calls.
- **SMS Failed Retries:** Set the number of retries for failed SMS.
- **Signal Period:** Set the signal period.
- **SIMVOL:** Set the SIM volume (default is Auto).
- **Echo Canceller:** Set the echo canceller settings.
- **IVR:** Enable IVR functionality.
- **IVR Play Time:** Set the playtime for IVR.
- **Dial Is Alert:** Enable dial as alert.
- **IVR Delay Answer Time Range:** Set the IVR delay answer time range.
- **Auto Fail Sim Switch:** Enable automatic SIM switch on failure.
- **Optimize Msg:** Enable message optimization.
- **Receive Method:** Set the receive method (default is Default).
- **Receive Period:** Set the receive period.
- **SRA2:** Enable SRA2.

- **HTTP client wait time:** Set the HTTP client wait time.

4. Auto Drop Settings

- **Enable Drop After Start:** Enable and set the drop time after start.
- **Enable Drop After Alert:** Enable and set the drop time after alert.
- **Enable Drop After Talk:** Enable and set the drop time after talk.

b. How to Use:

1. Adjust General Settings:

Enable or disable features like caller ID display, jitter buffer, silence suppression, etc.

2. Configure Call Handling:

Set up DTMF settings, alerting times, and call forwarding options.

3. Set Delay and Interval Parameters:

Configure delay answers, auto redial times, and call intervals.

4. Manage RTP and Network Settings:

Set RTP ports, network compatibility, and module registration timeouts.

5. Activate Special Features:

Enable features like auto reply, busy tone detection, IVR, and auto SIM switch on failure.

6. Define Auto Drop Conditions:

Set conditions for automatically dropping calls after start, alert, or talk.

7. Save and Apply:

Items	Description
Caller ID Display	If it is disabled, caller ID will not show on “call status” page.

Silence Suppression	If it is enabled, half of the bandwidth will be saved.
Adaptive Jitter Buffer	A jitter buffer is a shared data area where voice packets can be collected, stored, and sent to the voice processor in evenly spaced intervals.
IP TOS	TOS of IP packets.
Don't send # to PSTN	If it is enabled, the last digit # of callee number will be removed.
Append # to PSTN	If it is enabled, # will be appended in the callee number
Carry PSTN Caller ID	SIP extension will show the mobile number when user call the SIM in gateway.
Forbid PLMN call	Calls will be rejected when calling the SIM in gateway.
White Number List	The numbers in white list will not be rejected if forbid LTE call is enabled.
DTMF Pre-Act time	The prepare time until DTMF tone is detected.
DTMF Activity time	The minimum of DTMF activity time.
First DTMF wait time	Send a call to the sim card in device, after the call connected, if don't dial number, the call will be hangup after 12 seconds.
Max Alerting Time	The maximum time of alerting.
Max Ringback Time	The maximum time of ring back.
RTP Inactivity Time	The maximum duration of silence from gateway. System will hang up the call automatically if the silence duration reaches this value

Auto Alerting Time	Fake ring back time, gateway will do fake ring back when reaches this value.
Stop Pseudo Time	Stopping fake ring back when the callee is alerting.
LTE Auto Answer	Applying to calls from LTE network. The gateway will answer the incoming calls automatically when reaches the value.
VoIP Call Auto Answer	Applying to calls from IP network. The gateway will answer the calls automatically when reaches the value.
Call Interval Mode	Refuse: in interval time, the call will be reject by 503 code Keep: in interval time, the call will hold, then send out by this sim.
Call Interval Time Range	The call interval time value, can set time range
Auto Redial Time	LTE redial time
Call Wait Settings Times	Example: if set to 3 seconds, when sim card A in device is calling mobile B, then mobile C call A, A will connected C, and hold the call with B, after 3 seconds, A disconnect C, talk with B again. This settings is used for sim blocking.
DTMF Mode	RFC2833, SIP INFO and IN-BAND. The default one is RFC2833.
RFC2833 Payload Type	RTP Payload for DTMF, the default is 101.
RTP Ptime	The interval of RTP packages.
RTP Start Port	The initial port when RTP voice stream transmit the IP network.
RTP End Port	The maximum rtp port

Hotline Number Dial Delay	Incoming call delay to send to sip server
Network Compatible Count	Sim card registered two times, after failed, shows registered failed
Network Compatible Dur	Sim card registered time period, every time 180s
Check Balance Timeout	The time of query balance
Auto reply	One caller send call from one port to a mobile, next time, this mobile call back, the call will forward to the caller and ignore hotline number settings.
Busy Tone Det	Detect the busy tone, then hangup the call, need to confirm the busy tone frequency first.
TE Char Set	Set character for USSD response.
Wireless mod Heartbeat Det	The module heartbeat detect time
SIM Card Init Judge	If enabled, the sim card need to read phone before registered
SMS failed Retries	Sms send failed, will retry 5 times
Echo Cancellor	Echo canceller parameter setting

Items	Description
Drop after start	The call drop automatically after the call start value
Drop after alert	The call drop automatically after the call ringing value
Drop after talk	The call drop automatically after the call connected value

8 System Settings

This section is used for managing various system-related configurations and functions.

8.1 User Mgmt

User MGT (Management) is used to manage user accounts and control IP access to the system.

The default username/password of gateway are root/root. User are allowed to change the password and add new users on this page. Every account has a role, different roles have different right of permissions. Role "admin" has the highest right of permission, role can be added in page "role mgmt".

User Management

User List [Collapse](#)

Data Detail

Data Status: Add

Account:

Password: The password must be composed of 8-15 English letters, numbers or special symbols ~\$@#?&*%[-_!., not all numbers or letters

Weak Medium Strong

Confirmed Pwd:

Role: Admin

Data List

☐	Account	Role	Phone Number ¹	Email rcp ¹	Email Sender ¹	Operation
☐	root	Admin				[Edit] [Edit Phone] [Edit Email]

The User Management page allows administrators to:

1. **Manage User Accounts:** Add, edit, and delete user accounts, including updating phone numbers and email addresses.
2. **Control Access:** Define which IP addresses are allowed or not allowed to access the system, enhancing security by restricting access to trusted IP addresses only.

This ensures that only authorized users can access and manage the system, and access can be controlled based on IP addresses for added security.

8.2 Role Mgmt

The "Role Management" page is used to manage user roles and their permissions within the system. This allows administrators to control access to various features and functionalities based on the role assigned to a user.

- **Create and Manage Roles:** Define different roles within the system and assign appropriate permissions to each role.
- **Control Access:** Ensure that users only have access to the features and settings necessary for their role, enhancing security and operational efficiency.
- **Modify Permissions:** Easily update and manage permissions for existing roles as needed.

The screenshot displays the 'Role Management' section of the Ejointech ACOM6XX user interface. On the left is a sidebar with navigation links: Basic Settings, SIP Setting, Gateway Settings, SMS/MMS Settings, App Settings, Advanced Settings, System Settings (expanded), User MGT, Role MGT (selected), Device MGT, File MGT, System Update, Test Network, Monitor System, System Warning, Running Status, and Save and Reboot. The main content area is titled 'Role Management' and contains a 'Role List' table. The table has columns for Role Name, Home, Permit, and Operation. It lists three roles: Admin, User, and sms_only. The Admin role has 'System Status' as its home and 'All Permit' as its permit. The User role has 'System Status' as its home and a list of permissions including MMS Inbox, System Warning, Port Status, Call Status, System Status, Call Statistics, Inter-Call Stats, SMS Inter Send, and CDR Query. The sms_only role has 'SMS Send' as its home and permissions for SMS Send, SMS Receive, and SMS/MMS Stats. There are 'Add New', 'Submit', and 'Reset' buttons at the bottom of the table.

Role Name	Home	Permit	Operation
Admin	System Status	All Permit	
User	System Status	☒ MMS Inbox ☒ System Warning ☒ Port Status ☒ Call Status ☒ System Status ☒ Call Statistics ☒ Inter-Call Stats ☒ SMS Inter Send ☒ CDR Query	
sms_only	SMS Send	☒ SMS Send ☒ SMS Receive ☒ SMS/MMS Stats	[Edit]

8.3 Device Mgmt (ETMS Connection)

The "Device Management" section is essential for ensuring that the device is properly configured, operates within the correct time zone, and has the necessary settings for **cloud management**.

The screenshot displays the 'Device Management' section of the Ejointech ACOM6XX user interface. On the left is a sidebar with navigation links: Basic Settings, SIP Setting, Gateway Settings, SMS/MMS Settings, App Settings, Advanced Settings, System Settings (expanded), User MGT, Role MGT, Device MGT (selected), File MGT, System Update, Test Network, Monitor System, System Warning, Running Status, and Save and Reboot. The main content area is titled 'Device Management' and contains three sections: 'Basic Settings', 'Date And Time', and 'Network Management System'. The 'Basic Settings' section has fields for Device Alias, Country Code, Auto Reboot (0), and Scheduled Reboot (Disabled). The 'Date And Time' section has fields for Time Zone (+8:00), Get time mode (NTP), and Time Server (time.windows.com). The 'Network Management System' section has fields for Server Type (ETMS), Server IP (www.ejoinerm.com), Server Port (60000), Account (goup32), Password (*****), and Status (OK). There are 'Submit' and 'Reset' buttons at the bottom of each section.

Basic Settings

Device Alias:
Country Code:
Auto Reboot: * After running specified times(hours)
Scheduled Reboot:

Date And Time

Time Zone:
Get time mode:
Time Server: * NTP Server's host or IP address.

Network Management System

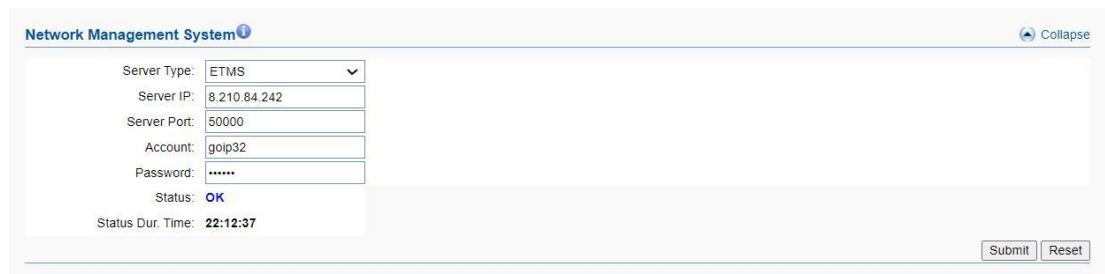
Server Type:
Server IP:
Server Port:
Account:
Password:
Status:

The Device Management page allows administrators to:

- **Configure Basic Device Settings:** Set device alias, country code, and configure automatic or scheduled reboots.
- **Set Date and Time:** Ensure the device has the correct time settings by configuring the time zone and synchronizing with an NTP server.
- **Manage Network Settings:** Connect the device to a network management system for remote management and monitoring.

a. Device Cloud Management (ETMS Connection)

Ejointech devices support cloud-based remote management. If user need to manage devices remotely via the cloud, user will need to provide a VPS running Linux CentOS 7 for the Ejointech technical team to install the ETMS system. Once installed, users can register their device with the ETMS using the options provided in the Network Management System section.



The screenshot shows a web interface titled "Network Management System" with a "Collapse" button in the top right. The interface contains several input fields: "Server Type" is a dropdown menu set to "ETMS"; "Server IP" is a text box containing "8.210.84.242"; "Server Port" is a text box containing "50000"; "Account" is a text box containing "golp32"; and "Password" is a text box with masked characters. Below these fields, the "Status" is indicated as "OK" in blue text, and "Status Dur. Time" is "22:12:37". At the bottom right, there are "Submit" and "Reset" buttons.

b. Enabling Cloud-Based Remote Management (ETMS):

1. **Prepare VPS:** Set up a VPS running Linux CentOS 7 or Centos 8.
2. **Install ETMS:** Contact the Ejointech technical team to install the ETMS system on your VPS.
3. Register Device:
 - a. Login ETMS Link Ejointech installed and Click on Position "Basic Setting", navigate to "Device user" to create new account for gateway.
 - b. Go to the "Network Management System" section on the Device Management page.
 - c. Select "ETMS" as the server type.
 - d. Enter the ETMS server IP and Server Port **50000**.
 - e. Enter the account credentials you created on ETMS.
 - f. Click "Submit" to register your device with the ETMS system.

Video Reference: [How to Register Ejointech Device with ETMS](#)

8.4 File Management

The "File Management" (File MGT) section is used to manage log files generated by the device. This page allows administrators to view, export, and delete log files as needed.

File MGT

File List

Del

☐	Index	Dirname	Filename	Modification Time	Type	Size	Operations
☐	1	/opt/ejoin/var/log	sysmsg.log	2024-05-23 14:54:34	log	9751	DelExport
☐	2	/opt/ejoin/var/log	messages.log	2024-05-23 14:34:33	log	36787	DelExport
☐	3	/opt/ejoin/var/log	messages.001.log	2024-05-23 13:06:58	log	1048589	DelExport

The File Management page is essential for:

- ①

Log Management: Keeping track of log files that record system activities and events.
- ②

Maintenance: Deleting old or unnecessary log files to free up storage space.
- ③

Analysis: Exporting log files for detailed analysis, troubleshooting, and record-keeping.

8.5 System Update

The "System Update/Restore" section is used to manage firmware updates, export and import configurations, export service data, and restore the device to factory settings. Here's a detailed explanation of each section and their purposes:

System Update/Restore

Import File

File Type:

File Name:

选择文件

未选择任何文件

Submit

Cancel

Export Configuration

Click 'Export' button to export the configuration.

Configuration Type:

Configuration

Export Configuration

Service Data

Click 'Export' button to export the service data

Service Data Type:

Call Duration

Export Data

Restore To Factory

Click 'Restore' button will restore system to factory settings.

Restore

a. Import File

Use this section to import new firmware updates or configuration files to the device. Select the

appropriate file type, choose the file, and click "Submit" to apply the update or configuration.

b. Export Configuration

This section allows user to export the current configuration of the device for backup or transfer to another device. Choose the configuration type and click "Export Configuration" to download the file.

c. Export Service Data

Export specific service data, such as call duration records, for analysis or record-keeping. Select the data type and click "Export Data" to download the information.

d. Restore to Factory:

If user need to reset the device to its original factory settings, use this section. Clicking "Restore" will erase all custom settings and data, restoring the device to its default state.

8.6 Test Network

The "Ping and Capture" section is used for network diagnostics and traffic capture. This subsection allows user to configure and execute ping tests to diagnose network connectivity.

Ping

Auto Ping: Disabled

IP or Host:

Packet Size: 56

Packet Count: 4

Save Results: Disabled

* Ping automatically when system booting.

* Default is 56 bytes

* Default is 4, 0 means always ping ...

* Save Ping result to log

Result

Submit

Start ...

Capture

Auto Capture: Disabled

IP or Host:

Port: 0

File Size: 2M*3

* capture automatically when system booting.

* blank means do not limit the ip address.

* Default is 0,0 means all ports

Submit

Start ...

a. Ping

1. Configure Auto Ping:

Enable auto ping if user want the system to perform ping tests automatically upon booting.

2. Manual Ping Test:

Enter the IP address or hostname, packet size, and packet count.

Click "Start" to initiate the ping test.

View the results in the "Result" section to diagnose connectivity issues.

b. Capture

1. Configure Auto Capture:

Enable auto capture if user want the system to start capturing network traffic automatically upon booting.

2. Manual Traffic Capture:

Specify the IP address and port (if needed) and select the file size.

Click "Start" to begin capturing network traffic.

Use the captured data for detailed network analysis.

8.7 Monitor System

The "Log Settings" page is used to configure how the system logs various events and activities.

This allows administrators to monitor, debug, and analyze the performance and behavior of the device.

Log Settings

General Settings [Collapse](#)

Log File Count: 5 * The size of single logfile is 1MB.

UTL Log Level: WARN

SIP Log Level: INFO

Network Log Level: EVENT

Log Server: www.ejoinerm.com

Send Log To Server: Disabled

GDB Debug: Enabled * Modifying this configuration requires restarting the device.

[Submit](#) [Cancel](#)

Log Modules [Collapse](#)

☐ POTS ☐ CCM ☐ SIP ☐ SIP Msg ☐ SIP Route

☐ WIRELESS ☐ DSP ☐ ESP ☐ SPC ☐ EBM

☐ ETM ☐ RC ☐ LED ☐ UTIL ☐ EAR

[Submit](#) [Cancel](#)

CPU & Memory [Collapse](#)

CPU & Memory Mon: Disabled

[Submit](#) [Cancel](#)

a. General Settings

- **Log File Count:** Specifies the number of log files to keep. Each log file is 1MB in size.
- **UTL Log Level:** Sets the log level for utility logs (e.g., WARN, INFO, ERROR).
- **SIP Log Level:** Sets the log level for SIP-related logs (e.g., INFO, DEBUG).
- **Network Log Level:** Sets the log level for network events (e.g., EVENT, ERROR).
- **Log Server:** Specifies the server where logs will be sent, if configured.
- **Send Log To Server:** Enables or disables sending logs to the specified server.
- **GDB Debug:** Enables or disables GDB debugging. Note that modifying this setting requires restarting the device.

b. Log Modules

Allows users to select which modules to log. Modules include:

- **POTS:** Plain Old Telephone Service
- **WIRELESS:** Wireless communication logs
- **ETM:** Event and Transaction Management
- **CCM:** Call Control Management
- **DSP:** Digital Signal Processing
- **RC:** Remote Control
- **SIP:** Session Initiation Protocol

- **SIP Msg:** SIP Messages
- **SIP Route:** SIP Routing
- **ESP:** Event Streaming Processing
- **SPC:** Service Provider Control
- **LED:** LED status logs
- **UTIL:** Utility logs
- **EBM:** External Business Management
- **EAR:** Event and Alarm Reporting

c. CPU & Memory

- **CPU & Memory Mon.:** Enables or disables monitoring of CPU and memory usage.

d. How to Use

1. Configure General Settings:

Set the desired log file count.

Choose appropriate log levels for UTL, SIP, and Network logs.

Specify the log server if logs need to be sent to an external server.

Enable or disable GDB debugging as needed.

2. Select Log Modules:

Check the boxes for the modules user want to log. This will ensure that logs for these specific components are recorded.

3. Enable CPU & Memory Monitoring:

If needed, enable monitoring of CPU and memory usage to keep track of the system's resource consumption.

4. Submit Changes:

After configuring the settings, click the "Submit" button to save changes.

Use the "Cancel" button to discard any changes.

The Log Settings page is essential for:

- 1. **Monitoring System Performance:** By configuring log levels and modules, administrators can keep track of system performance and diagnose issues.
- 2. **Debugging:** Detailed logs help in troubleshooting and resolving technical problems.
- 3. **Analysis:** Logs provide valuable insights for analyzing the device's behavior and performance over time.

8.8 System Warning

The "System Warning" page is used to display the current status and potential risks associated with the device. It provides alerts and warnings about various aspects of the system that may require attention.

 System Warning	
System Warning ⌵ Collapse	
License	Device License Normal
Account Risk	Device account no risk
ETM Account Risk	The etm account is not secure, please contact the server administrator to change the password.
Receive All Call	Receive all call close

a. Warnings Displayed:

- 1. License

Status: Indicates whether the device license is normal or if there is an issue.

Example: "Device License Normal" means the device license is functioning correctly.

- 2. Account Risk

Status: Shows if there are any risks associated with the device accounts.

Example: "Device account no risk" means there are no detected issues with the device accounts.

- 3. ETM Account Risk

Status: Indicates the security status of the ETM account.

Example: "The etm account is not secure, please contact the server administrator to change the password." This means the ETM account is at risk and needs attention.

4. Receive All Call

Status: Displays the status of the "Receive All Call" setting.

Example: "Receive all call close" means the setting to receive all calls is turned off.

9 Running Status

The "Running Status" section serves as a monitoring tool for various operational aspects of the device. It provides detailed statistics and status information on ports, calls, SMS, and more.

9.1 Where to Check Sim Cards Status

Navigate to the **Port Status** page under the **Running Status** section.

In this section, user can monitor the registration status and signal strength of different SIM cards in real-time.

- **Panel Mode:** Check SIM Cards Register Status
- **List Mode:** Check SIM Cards signal strength, SIM card number, etc.
- **LED Control Panel:** Locate specific SIM cards on the device by controlling LEDs.

The screenshot shows the Ejointech ACOM6XX web interface. The top header includes the Ejointech logo, the text "LTE/WCDMA/CDMA/GSM", and the version "MoIP32/128 Version: 6.8". The left sidebar contains a menu with options: Basic Settings, Gateway Settings, SMS Settings, App Settings, Advanced Settings, System Settings, and Running Status. The Running Status section is expanded, showing a list of sub-items: Port Status, System Status, Inter-Call Stats, Media Statistics, SMS Statistics, SMS Inter Send, Traffic Statistics, and SMS Query. The main content area displays a grid of 32 SIM card status indicators (A-D, 1-32). Each indicator is represented by a circle with a color and a status icon. A legend at the bottom explains the icons: Card Detected (grey circle), Card Inserted (white circle), Registering Card (green circle), Register OK (green circle), Calling (blue circle), Inter-Calling (blue circle), Inter-Calling holding (green circle), Access Mobile Network (green circle), No Balance (yellow circle), Register Failed (red circle), Locked (red circle), Locked By Operator (red circle), Locked By User (grey circle), SIM Problem (red circle), and Module Problem (red circle).

Basic Settings

Gateway Settings

SMS Settings

App Settings

Advanced Settings

System Settings

Running Status

Port Status

System Status

Inter-Call Stats

Media Statistics

SMS Statistics

SMS Inter Send

Traffic Statistics

SMS Query

Save and Reboot

Panel Mode

List Mode

Port Status List

Port Status

Port	SIM	SIM Status	SIM Number	Balance	Module	Operator	Network	Signal	Description
1	C			0.00	Yes	311490	4G	24	
2	A			0.00	Yes				SIM not inserted
3	A			0.00	Yes				SIM not inserted
4	A			0.00	Yes				SIM not inserted
5	A			0.00	Yes				SIM not inserted
6	A			0.00	Yes				SIM not inserted
7	A			0.00	Yes				SIM not inserted
8	A			0.00	Yes				SIM not inserted
9	A			0.00	Yes				SIM not inserted
10	A			0.00	Yes				SIM not inserted
11	A			0.00	Yes				SIM not inserted
12	A			0.00	Yes				SIM not inserted
13	A			0.00	Yes				SIM not inserted
14	A			0.00	Yes				SIM not inserted
15	A			0.00	Yes				SIM not inserted
16	A			0.00	Yes				SIM not inserted
17	A			0.00	Yes				SIM not inserted
18	A			0.00	Yes				SIM not inserted
19	A			0.00	Yes				SIM not inserted

Panel Mode

List Mode

LED Control Panel

LED Control Panel

SIM LED

Click the icon to turn on/off the LED light

Turn off all LED lights

Collapse

	1	2	3	4	5	6	7	8
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								
	9	10	11	12	13	14	15	16
.01								
.02								
.03								
.04								
.05								
.06								
.07								
.08								

9.2 System Status

This page provides information on the system status, device information, WAN (Wide Area Network) status, and license details.

System Status

Device Info

Device ID

4c0bf0d8-550146a5- NA

Current Time

2024-05-23 15:31:06 +8:00

Module Type

LTE

Hardware Version

4.1.1.2.15

Software Version

532-707-900-841-100-000

Net Management Status

OK

Running Time

22 Hr 52 Min 13 Sec

Library Version

u753.14342 e319.14197

Firmware Version

0.9.16

Released Time

Jan 19 2024 09:26:27 r9693

WAN Status

Connection Mode

Static IP

IP

192.168.2.205

DNS Server IP

192.168.1.1

Connection Status

Connected

Default Gateway

192.168.1.1

MAC Address

00-30-f1-01-46-a5

License Info

License File ID

0qRjkmJpIH2xYcm9auz

Create Time

2024-05-22 14:36

Max Rem Time

No limit

IMEI Modify

Disable

Allow ICCID

8986

Status

OK

Birth Time

1970-01-01 00:17

Remain time

No limit

Max call dur

No limit

Deny ICCID

9.3 Inter-Calling Statistics

"Call statistics for the Port Inter-Calling setting. user can review the statistics within this section after enabling Port Inter-Calling."

Basic Settings

SIP Setting

Gateway Settings

SMS/MMS Settings

App Settings

Advanced Settings

System Settings

Running Status

Port Status

Call Status

System Status

Call Statistics

Inter-Call Stats

Media Stats

SMS/MMS Stats

SMS Inter Send

Traffic Stats

CDR Query

SMS Query

Save and Reboot

Inter-Calling Statistics

Inter-Calling Statistics

Data List

Show Cur

Show All

Clear Data

☐ Port	State	Duration	Inc. Calls	Out. Calls	Success	Failed	Sent SMS	Rcvd SMS	Descriptions
☐ 1.01	IDLE		0	0	0	0	0	0	
☐ 2.01	IDLE		0	0	0	0	0	0	
☐ 3.01	IDLE		0	0	0	0	0	0	
☐ 4.01	IDLE		0	0	0	0	0	0	
☐ 5.01	IDLE		0	0	0	0	0	0	
☐ 6.01	IDLE		0	0	0	0	0	0	
☐ 7.01	IDLE		0	0	0	0	0	0	
☐ 8.01	IDLE		0	0	0	0	0	0	
☐ 9.01	IDLE		0	0	0	0	0	0	
☐ 10.01	IDLE		0	0	0	0	0	0	
☐ 11.01	IDLE		0	0	0	0	0	0	
☐ 12.01	IDLE		0	0	0	0	0	0	
☐ 13.01	IDLE		0	0	0	0	0	0	
☐ 14.01	IDLE		0	0	0	0	0	0	
☐ 15.01	IDLE		0	0	0	0	0	0	
☐ 16.01	IDLE		0	0	0	0	0	0	
☐ 17.01	IDLE		0	0	0	0	0	0	

9.4 SMS Statistics

This page displays SMS/MMS statistics for each port over different time.

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Basic Settings

SIP Setting

Gateway Settings

SMS/MMS Settings

App Settings

Advanced Settings

System Settings

Running Status

Port Status

Call Status

System Status

Call Statistics

Inter-Call Stats

Media Stats

SMS/MMS Stats

SMS Inter Send

Traffic Stats

CDR Query

SMS Query

Save and Reboot

SMS/MMS Stats

SMS/MMS Stats

Data List

Show CurShow AllClear DataLast hour

Port	SIM Status	Received	Filtered Out	Sent	Sent OK	Send Failed	Con. Failed	Unsent	Sending	Send Succ Rate
Total		0	0	0	0	0	0	0	0	
1.01										
2.01										
3.01										
4.01										
5.01										
6.01										
7.01										
8.01										
9.01										
10.01										
11.01										
12.01										
13.01										
14.01										
15.01										
16.01										

9.5 SMS Inter Send

Call statistics for the Port Inter-Send setting. user can review the statistics within this section after enabling Port Inter-Send.

Basic Settings

SIP Setting

Gateway Settings

SMS/MMS Settings

App Settings

Advanced Settings

System Settings

Running Status

Port Status

Call Status

System Status

Call Statistics

Inter-Call Stats

Media Stats

SMS/MMS Stats

SMS Inter Send

Traffic Stats

CDR Query

SMS Query

Save and Reboot

SMS Inter Send

SMS Inter Send

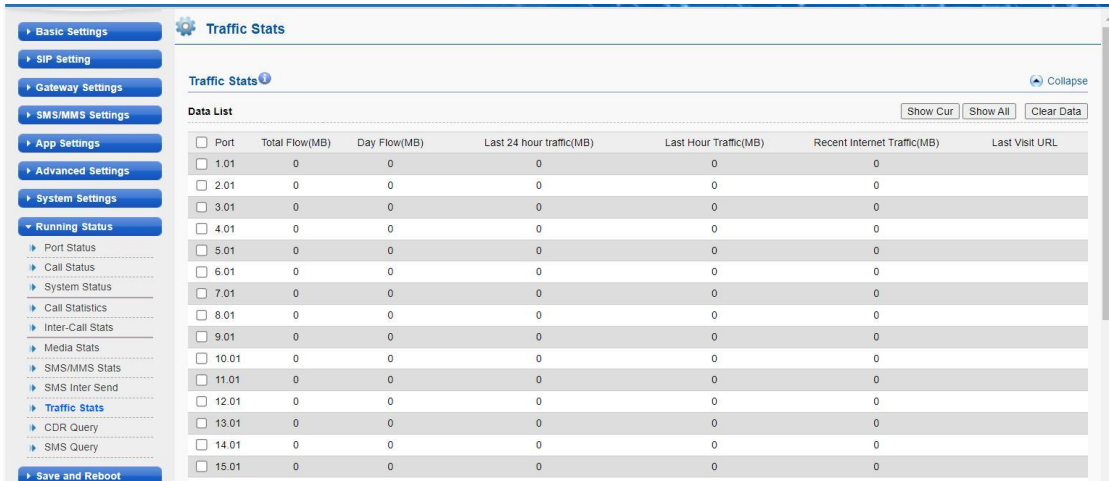
Data List

Show CurShow AllLast hour

Port	SIM Status	Sent	Sent OK	Send Failed	Con. Failed	Unsent	Sending
Total		0	0	0	0	0	0
1.01							
2.01							
3.01							
4.01							
5.01							
6.01							
7.01							
8.01							
9.01							
10.01							
11.01							
12.01							
13.01							
14.01							
15.01							
16.01							

9.6 Traffic Statistics

This page allows user to view how much data SIM card has consumed. It is only applicable when users have enabled “Internet Setting” and are simulating internet usage.

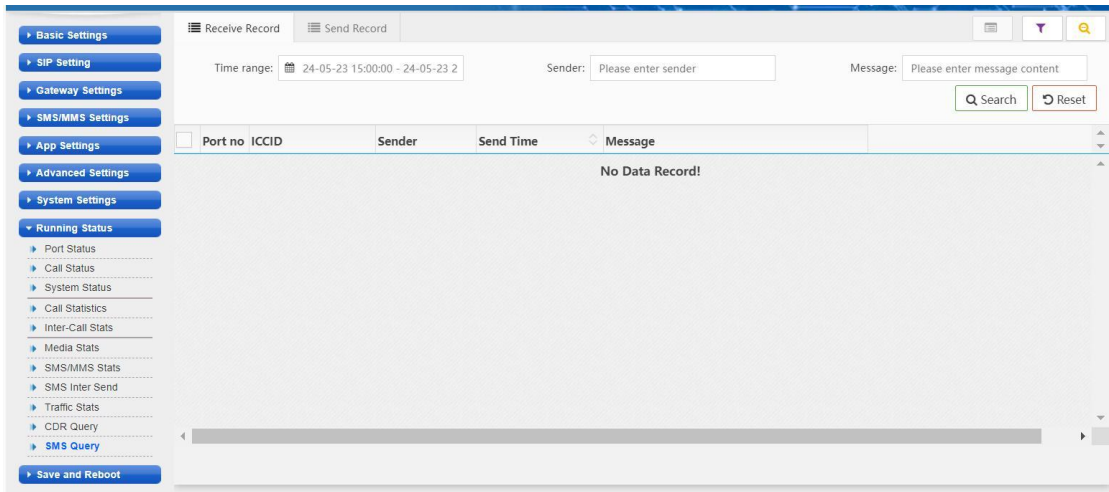


The screenshot shows the 'Traffic Stats' page. On the left is a sidebar with navigation options: Basic Settings, SIP Setting, Gateway Settings, SMS/MMS Settings, App Settings, Advanced Settings, System Settings, and Running Status. The 'Running Status' section is expanded, showing options like Port Status, Call Status, System Status, Call Statistics, Inter-Call Stats, Media Stats, SMS/MMS Stats, SMS Inter Send, Traffic Stats (selected), CDR Query, and SMS Query. The main area is titled 'Traffic Stats' and contains a 'Data List' table. The table has columns: Port, Total Flow(MB), Day Flow(MB), Last 24 hour traffic(MB), Last Hour Traffic(MB), Recent Internet Traffic(MB), and Last Visit URL. The table lists 15 ports, each with a checkbox and various traffic statistics, all showing 0 values.

Port	Total Flow(MB)	Day Flow(MB)	Last 24 hour traffic(MB)	Last Hour Traffic(MB)	Recent Internet Traffic(MB)	Last Visit URL
☐ 1.01	0	0	0	0	0	
☐ 2.01	0	0	0	0	0	
☐ 3.01	0	0	0	0	0	
☐ 4.01	0	0	0	0	0	
☐ 5.01	0	0	0	0	0	
☐ 6.01	0	0	0	0	0	
☐ 7.01	0	0	0	0	0	
☐ 8.01	0	0	0	0	0	
☐ 9.01	0	0	0	0	0	
☐ 10.01	0	0	0	0	0	
☐ 11.01	0	0	0	0	0	
☐ 12.01	0	0	0	0	0	
☐ 13.01	0	0	0	0	0	
☐ 14.01	0	0	0	0	0	
☐ 15.01	0	0	0	0	0	

9.7 SMS Record

"SMS Query" : In this section, user can view partial data of received and sent SMS messages. The device retains a maximum of 50 received SMS messages for each port and does not store sent SMS records. To preserve and access all SMS records, it's necessary to establish a connection with the EIMS server beforehand.

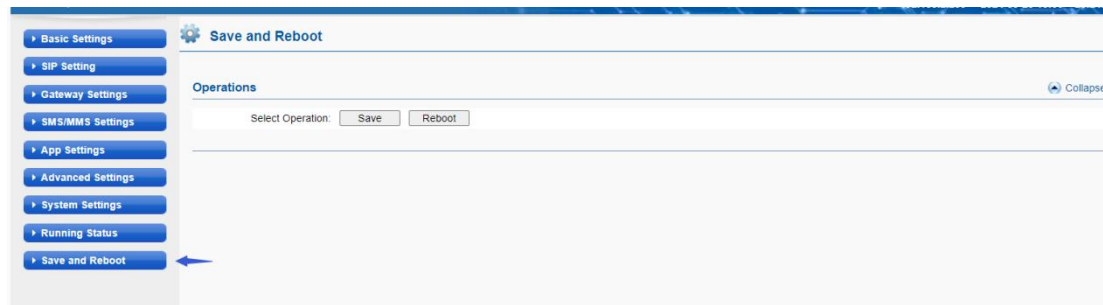


The screenshot shows the 'SMS Query' page. On the left is a sidebar with navigation options: Basic Settings, SIP Setting, Gateway Settings, SMS/MMS Settings, App Settings, Advanced Settings, System Settings, and Running Status. The 'Running Status' section is expanded, showing options like Port Status, Call Status, System Status, Call Statistics, Inter-Call Stats, Media Stats, SMS/MMS Stats, SMS Inter Send, Traffic Stats, CDR Query, and SMS Query (selected). The main area is titled 'SMS Query' and contains a 'Receive Record' table. The table has columns: Port no, ICCID, Sender, Send Time, and Message. The table is currently empty, displaying 'No Data Record!'. Above the table, there are search filters: Time range (24-05-23 15:00:00 - 24-05-23 2), Sender (Please enter sender), and Message (Please enter message content). There are also 'Search' and 'Reset' buttons.

Port no	ICCID	Sender	Send Time	Message
No Data Record!				

10 Save and Reboot

The modifications will take effect after user save and reboot the gateway. After users save their modifications and initiate a reboot, the settings will persist, although data will be lost. Ongoing calls will be interrupted during this process.



11 Frequently Asked Questions (FAQs)

11.1 What is the Login Information?

Default IP: 192.168.1.67

Username: root

Password: root

11.2 How Can I Reset the Device to Factory Settings?

Press and hold the "RST" button near the power button for 10 seconds to reset the device to factory settings.

11.3 What Should I Do if the SIM Card Registration Fails?

- Ensure the antenna is properly installed.
- Ensure the SIM card is inserted in the correct direction.
- If the previous two steps are not problematic, please swap the SIM cards between the ports
 - a. Navigate to the "Port Status" section.
 - b. Browse the list of available ports to see if there are any other ports available.
 - c. If other ports are available, select one.
 - d. Remove the failed SIM card from the current port and insert it into the selected new port.
 - e. Ensure the antenna is properly installed.
 - f. Wait for a moment as the device automatically detects the new SIM card.
 - g. Check if the SIM card works in the selected new port.

- h. If the SIM card still fails to register, consult the SIM card provider or check if the SIM card is functional.
- i. If the SIM card registers successfully, please consult the Ejointech Support Team for further debugging.

11.4 How Do I Update the Firmware?

- a. Navigate to "System Settings" > "System Update".
- b. Upload the firmware file and submit.
- c. The device will reboot automatically after saving the changes.
- d. Flash the page in 3 minutes and get the software back online.

11.5 Where Do I Download Ejoin Gateway Http API Document

Download [Ejoin Gateway HTTP API Document](#)

11.6 Why are My Settings Changes not Taking Effect?

- a. Save the changes made to settings.
- b. Reboot the device for the new configuration to take effect.

11.7 How to Make My Device Remotely Manage in Different Locations?

Here are the steps for setting remote management for your devices.

- **Prepare VPS:** Set up a VPS running Linux CentOS 7.
- **Install ETMS:** Contact the Ejoin technical team to install the ETMS system on your VPS.
- **Register Device:**
 - a. Login ETMS Link Ejoin installed and Click on Position "Basic Setting", navigate to "Device user" to create new account for gateway.
 - b. Go to the "Network Management System" section on the Device Management page.
 - c. Select "ETMS" as the server type.
 - d. Enter the ETMS server IP and Server Port 50000.
 - e. Enter the account credentials you created on ETMS.

- f. Click "Submit" to register your device with the ETMS system.

11.8 How to Install EIMS Bulk SMS Software

Here are the steps for setting remote management for your devices.

- **Prepare VPS:** Set up a VPS running Linux CentOS 7.
- **Install ETMS:** Contact the Ejoin technical team to install the EIMS system on your VPS.
- **Register Device:**
 - a. Login EIME Link Ejoin installed and Click on Position "Basic Setting", navigate to "Device Mgmt" to create new account for gateway.
 - b. Go to the "EIMS Setting" section on the SMS/MMS Settings.
 - c. Select "EIMS" as the server type.
 - d. Enter the EIMS server IP and choose TCP Port.
 - e. Enter the account credentials you created on EIMS.
 - f. Click "Submit" to register your device with the EIMS system.
 - g. Save and Reboot to take effect.

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help important announcement .

Radiation Exposure Statement

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 120 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.