



HS108 IP Phone

User Manual



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Tips: Please check IP address by pressing the button ”*1*1*2” in the on hook status.

1. Getting Started

Technical Features

Tips: The following functions in the unit cannot operation, only operate under the WEB.

Item	Technical Features
Language	English, Chinese
Line	1
Function Keys	Function Keys :Transfer、HOLD、Redial、RLS、Number Keys
Voip Protocol	SIP 2.0
Network Protocol	HTTP、BOOTP、FTP、TFTP、IEEE 802.1Q
Codec	G.723.1 (5.3K 6.4K b/S)、G.729 A (8Kb/s)、G.711 A/U (64Kb/S)、G.722(64Kb/S)
QoS	TOS, Jiffer Buffer, VAD, CNG, G.168 (32ms)
Network	1*RJ45 10/100M Ethernet interfaces(LAN) IP Assignment: Static IP or DHCP
Speech	Handset, Headset or Hand-free Mode, volume adjustment
Call Processing	Call Waiting Call Forward, Call Holding, Call Pickup, Callback
Application (WEB set)	Enterprise phone directory Banlist
Security	Password Login Web
Management	Upgrade: HTTP/TFTP/PnP auto-provision Configurations: Phone/Web/auto-provision Debug: Telnet/Phone/Web
Power Supply	PoE(IEEE 802.af)
Specification	Storage Temperature: 0°C ~ 60°C Operating Humidity: 10%~90% Size: 335mm*219mm*68mm Net weight: 1.07kg Operating Humidity: 10% ~ 90%

2. Phone overview



3. Basic Call Handling

You can perform basic call-handling tasks using a range of features and services. Feature availability can vary; see your system administrator for more information.

Note: The bold type of the following text in table signifies the phone's button.


Placing a Call

Here are some easy ways to place a call on SayHi HS108 IP Phone::

If you want to...	Then...	
Place a call using the handset	Pick up the handset	--1) You can hear dial tone; --2) Enter a number; --3) Press # button (default), -or wait 5s (default), then it send the number automatically.
Redial	-- press "Dialed "	

Answering a Call

You can answer a call by simply lifting the handset, or you can use other options if they are available on SayHi HS108.

If you want to...	Then...	
Answer with a handset	--1) Your phone ring; --2) Light strip is Red  and flashing;	--Pick up the handset
Auto-answer	--1) WEB>Advance Phone Setting> “Auto answer”; --2) Select “Enable”; --3) Your phone answers incoming calls automatically after a few rings.	

Ending a Call

To end a call, hang up. Here are some more details.

If you want to...	Then...
Hang up while using the Handset	-- Return the handset to its cradle

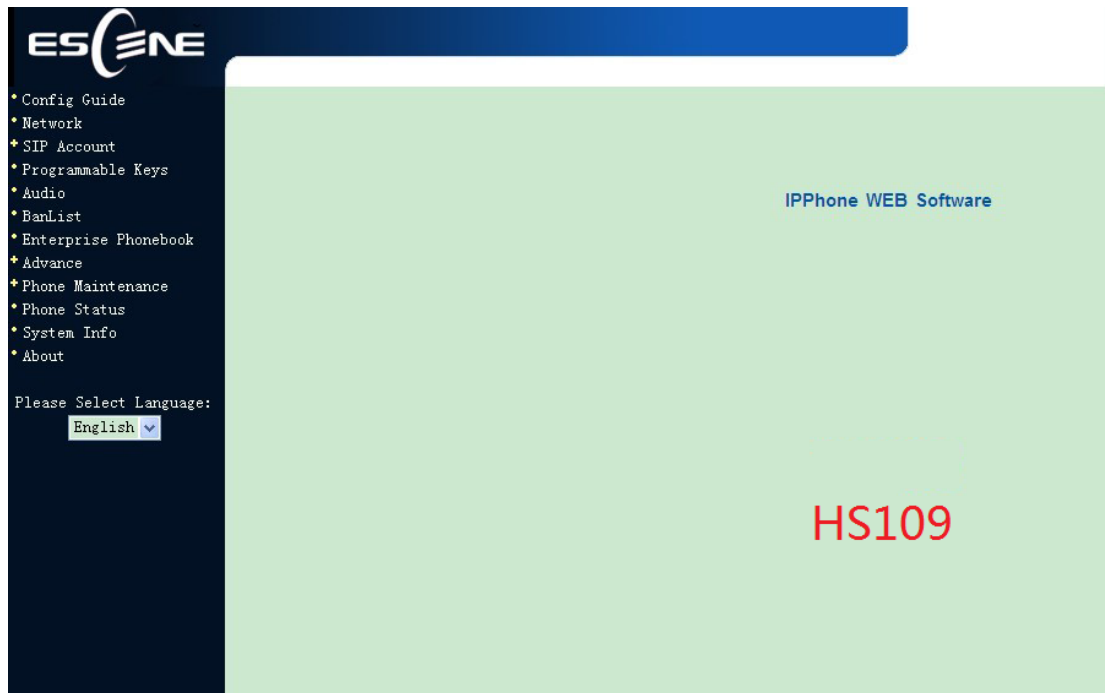
Do Not Disturb (WEB set >SIP account>Account 1> Do Not Disturb)

To end a call, hang up. Here are some more details.

If you want to...	Then...
Turn on DND	-- web>SIPaccount>do not disturb>on
Shut down DND	-- web>SIPaccount>do not disturb>off

4. Web Settings

We can configure IP Phone more handy through web setting.. Enter it (for example <http://192.168.0.200>) into the address bar of web browser. **Tips: Please check IP address by pressing the button '*1*1*2' in the on hook status.** The default login name and password are both "root".



Config Guide

You can finish the base configuration step-by-step by this guide.



When press 'next', you can configure the Network parameters for the phone,

Network

IP Type

DHCP

Static IP

IP Address:

Netmask:

Gateway:

PPPoE

Username:

Password:

MTU: Default: 1500

DNS

Automatic Get DNS

Manual DNS

Primary DNS:

Secondary DNS:

MAC Address

MAC Address: 00:28:8b:00:5b:7d

Port Management

HTTP Port:

Telnet Port:

OutboundProxy Server

After config the network parameter, press next, then you can config sip account for the phone.

Account

SIP

Username: *

Password: *

SIP Server:

Attention: If you want to get more configuration information, please click to the appropriate Web page.

Press Finish, the base configuration of the phone is complete, now you can use the phone to call with sip.

Network

You can config the network parameters for the phone on the web page.

Network

IP Type

DHCP

Static IP

IP Address:

Netmask:

Gateway:

PPPoE

Username:

Password:

MTU: Default: 1500

DNS

Automatic Get DNS

Manual DNS

Primary DNS:

Secondary DNS:

MAC Address

MAC Address: 00:26:8b:00:5b:7d

Port Management

HTTP Port:

Telnet Port:

OutboundProxy Server

Choose network, you will find the following parameters:

Field	Description
DHCP	Config the phone get ip info from DHCP server
IP Address	Config the ip manual for phone
Netmask	Config the netmask manual for phone
Gateway	Config the gateway manual for phone
Username (pppoe)	The pppoe username
Password (pppoe)	The pppoe password
MTU (pppoe)	The mtu for pppoe, default is 1500
Primary DNS	The primary DNS server
Secondary	The secondary DNS server
MAC Address	Display the MAC of the phone

HTTP Port	The default web port is 80,if you change it(for example change it to88), You must use IP and Web port to login the web page(for example http://192.168.0.200:88). It will take effect on next reboot.
Telnet Port	the default Telnet port is 23,if you change it(for example change it to 2003),you must use IP and Telnet port to login the manage page (for example telnet 192.168.0.200:2003).It will take effect on next reboot.

SIP Account

The phone attempts to register to the SIP server using the account/registrar data provided by the automatic or manual initialization.

SIP

Enable:

Display Name:

Username: *

Authenticate Name:

Password: *

Label:

SIP Server:

Secondary server:

OutboundProxy Server:

NAT Traversal: ▾

STUN Server:

Register Method: SIP TEL

Subscribe Period: Default: 3600s, Min: 20s

Register Expire Time: Default: 3600s, Min: 40s

SIP Transport: UDP TCP TLS

Call

Do Not Disturb: off on

Security

SIP Encryption: off on

RTP Encryption: off on

Encryption Algorithm: ▾

Choose one Account, you will find the following parameters:

Field	Description
Enable	You can choose on/off to enable/disable the line.
Account Mode	VOIP
Display Name	It is showed as Caller ID when making a phone call
Username	It is a username provide by SIP Server
Authenticate Name	It is authenticated ID for authentication
Password	It is a password provide by SIP Server
SIP Server	Server for registration, provided by administrator
Register Expire Time	IP phone automatically registered every time
Amount Of Line Account Used	The line key of account used,default is 1

.

Audio

The IP phone supports the following voice codes: G.722, G.711A, G.711U, G.723, and G.729A.

You can enable/disable the desired codes via Web interface. Please contact your system administrator for more details about the codes. To enable/disable the codes:

Audio

Tone

Dial Tone: Ring Volume (0~9):

Output Volume (1~9) **Input Volume (1~7)**

Handset Volume: Handset Mic Volume:

SpeakerPhone Volume: SpeakerPhone Mic Volume:

Headset volume: Headset Mic Volume:

Voice Codec

Payload Length: ms High Rate of G723.1:

Other

VAD: Echo Suppression Mode:

Ring

Ring Type:

Uploading Ring Tone

((Please upload a ring tone with G711 audio coding, and the size must less than 300k.))

Audio Codecs:

<input type="button" value="Up"/> <input type="button" value="Down"/>	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> G722 G711A G711U G729A G723 </div> <input type="button" value="←"/> <input type="button" value="→"/>	<input style="width: 100%;" type="text"/> <input type="button" value="disableCode"/>
--	--	---

- 2) Use the navigation keys to highlight the desired one in the Enabled/Disable Codecs list, and press the / to move to the other list.
- 3) Choose Submit to save the change.

Of course, you can control the voice bulk in this choose.

Phone Book


BanList


You can add, edit and delete banlist in a phone book on web page of HS108.

- 1) Click "PhoneBook" > "BanList",

BanList						
ID	Operation	Name	Phone	Description	Account	
<input type="button" value="Add BanList"/> <input type="button" value="Delete All BanList"/>						

If you want to add a BanList, you just ought to click ‘Add BanList’.

You can edit an existed BanList by click .

You can delete an existed BanList by click , if you want to delete all BanLists, you just ought to click ‘Delete All BanList’.

2) When you add a BanList or edit an existed BanList, you can set several parameters as follow:

BanList	
Serial Number	Serial number of a BanList
Description	Description of a BanList
First Name	The First Name of a ban contact
Last Name	The Last Name of a ban contact
Mobile Number	The number1 phone number of a ban contact
Home Number	The number2 phone number of a ban contact
Office Number	The number3 phone number of a ban contact
Account	Select a SIP account relating this ban contact, that is the ban contact can’t dial to this SIP account.

Enterprise Phonebook

You can download Enterprise Phonebook from this web interface. But you should do second develop on the sip server to enable this function completely.

If the sip server no add some function to hold this option ,this option can be used.

Enterprise Phonebook	
<input type="checkbox"/> Auto Download Enterprise Phonebook	
Server IP:	<input type="text"/>
Password:	<input type="text"/>
<input type="button" value="Submit"/>	

Advance

Phone Setting

You can use phone setting to set the time, qos, port Mirroring for the phone.

Phone Setting

Basic

Called No AnswerTime: s (Min:20, Max:99)

DTMF: RFC 2833 Inband SIP Info Auto

: # %23

RFC 2833 PayLoad:

BackLight: off Always On timer s (Min:1, Max:255)

PSTN Setting

PSTN Ring Type: PSTN Ring VOIP Ring

PSTN Prefix Code:

VOIP Prefix Code:

Call

Hot Line Function: off Immediately Hot Line Delay

Hot Number:

Call Waiting: off on

Auto Answer: off on

Pickup Code:

Message:

Booking Voicemail:

Hang voice Play: off on

VOIP Call Forward

Always: off on Number:

If Busy: off on Number:

When used Phone Setting option, you can set several parameters as follow:

Phone Setting	
DTMF	The DTMF transmitted mode, include RFC 2833,Inband,SIP Info
Set Time Mode	The mode of set time for phone, include SNTP/SIP Server/PSTN/Manual
Daylight Saving Time	Enable/disable the DST for the phone
Time Format	You can use 24 hour time format or 12 hour time format

Time Zone-GMT	You can select different time zone for the phone
Manual Setting	This used to manual set time for the phone
QoS	The qos priority, support diff-serv and precedence
Network Packet Mirroring	When select on, then you can capture the phone's packet use notebook which connect to pc port of the phone

VLAN Setting

You can add the phone and PC to different VLAN used VLAN Setting option.

When used VLAN Setting option, you can set several parameters as follow:

VLAN Setting	
Enable VLAN	You can enable/disable vlan for phone and pc
VID	The vlan you want the phone or pc to join

VPN Setting

IF you need to setup a VPN Setting, you should fill below options.

When used VPN Setting option, you can set several parameters as follow:

VLAN Setting	
Enable VPN	You can enable/disable VPN for phone and pc
VPN Type:	There is one choose you can choice.
VPN Server Addr	VPN server'ip
VPN User Name	VPN iser's name
VPN User Name	A password be used foe authentication
SSL_VPN	You can upload VPN config

Dial Plan setting

If you want to setup a dial plan, you can click "Dial Plan".

Dial Plan

Send Key: * #

Dial Length:

No Dial Timeout:

ID	Operation	Prefix	IP Address	Description
1		209	192.168.2.83	

Click "add rule" to entry this interface.

Dail Rule And Routing

ID: Description:

IP: Port (Default 5060):

Prefix:

Called Insert Number: Called Delete Number:

Position: Position:

Number: Length:

Caller Insert Number: Caller Delete Number:

Position: Position:

Number: Length:

(Note: When you want to add code and delete at the same time, you can add code first, after that base on the number you add, decide the position and length of the delete code.)

Dial Plan Setting	
ID	Dial Plan ID
IP	The ip of a phone which you want to call
prefix	The number which you need to press actually if you want to call the phone
Called Insert Number	There have two option, Enable or Disable.
Position	Which position you want insert the number
Number	Waht number you want to insert

Called Number	Delete	There have two option, Enable or Disable.
---------------	--------	---

Tips

(Note: When you want to add code and delete at the same time, you can add code first, after that base on the number you add, decide the position and length of the delete code.)

Global SIP

You also can setup the SIP server on Global SIP.

Global SIP

SIP

SIP Server:

Secondary server:

Proxy Server

OutboundProxy Server:

STUN

STUN Server:

Others

Register Expire Time: s Default: 3600s, Min: 40s

Local SIP port: (Default: 5060)

SIP Transport: UDP TCP TLS

RTP Port Range: --

SUB Expire Time:

Phone Maintenance

Log

If you need to catch a debugging Level log, you need setup on this interface.

Log

No Record
 Call:
 SIP
 DSP
 LCD

You can change the password used to login phone GUI in Password option.

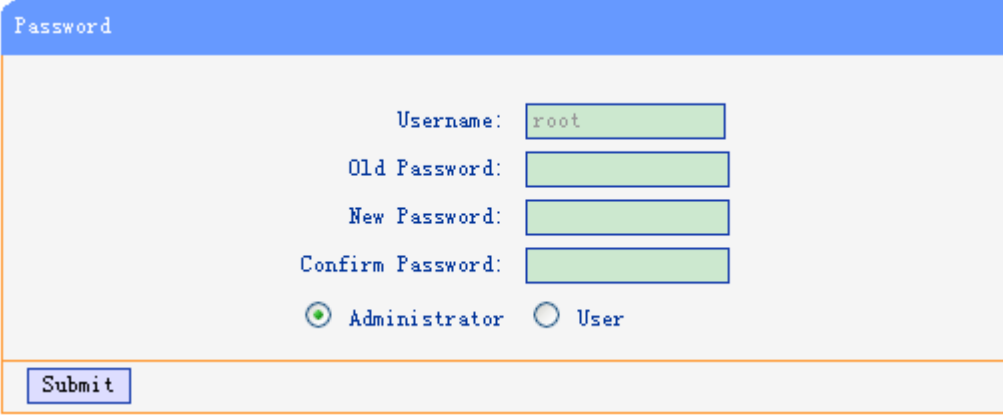
Password

Username:
 Old Password:
 New Password:
 Confirm Password:
 Administrator User

In Password option, you can set several parameters as follow:

Password	
Username	The login username of the web page
Old Password	The old password used to login of the web page
New Password	The new password used to login of the web page
Confirm Password	The new password used to login of the web page
Administrator	Login phone web page used administrator privileged
User	Login phone web page used general user privileged

Password



Username:

Old Password:

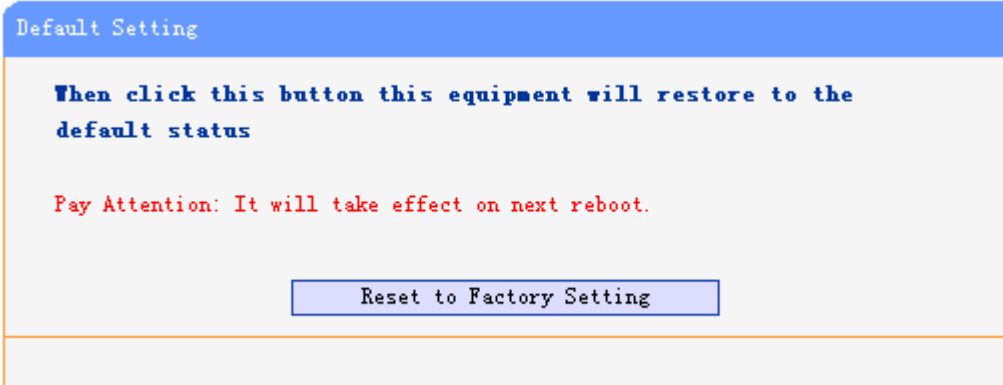
New Password:

Confirm Password:

Administrator User

Default Setting

You can load the phone to the factory default setting in default setting option.



When click this button this equipment will restore to the default status

Pay Attention: It will take effect on next reboot.

Press the 'Reset to Factory Setting' option, the phone will load to factory default setting on next reboot.

Auto Provision

When you open the auto provision function, the phone will auto provision if the phone detect a higher software or kernel which are put on the software server. The detail information about auto provision you can see the appendix.

Auto Provision

Auto Provision: on off

Option: (Default :66, Min:1, Max:254)

Protocol:

Software Server URL:

Username:

Password:

Auto Download Software

Auto Download Kernel

Auto Download Config File

Broadsoft Compatibility

Auto Download Expansion

Auto Download Personal Phonebook

Booting Checked

Auto Provision Frequency: Hour (Default :7 days, Max:30 days)

Auto Provision Time:

AES Enable: off on

AES Key:

When use auto provision, you can set several parameters as follow:

Auto Provision	
Auto Provision	You can enable/disable auto provision by select on/off
Protocol	The protocol use for auto provision, it include tftp/http/ftp
Software Server URL	The server address of the auto provision
Username	The username provide by provision server
Password	The password provide by provision server
Auto Download Software	This used to auto download software from server
Auto Download Kernel	This used to auto download kernel from server
Auto Download Config File	This used to auto download config file from server
Broadsoft Compatibility	This used to compatible the broadsoft format's config file

Auto Download Personal Phonebook	This used to auto download personal phonebook from server
Bootling Checked	This used to checked the auto provision when phone bootling
Auto Provision Frequency	This used to set the time interval for auto provision
Auto Provision Time	This used to the specific time for auto provision
AES Enable	You can enable/disable AES encrypt for auto provision
AES Key	The key of the AES
Auto Provision Now	This used to do auto provision immediately

FTP Upgrade

You can upgrade the software, kernel and configure file for the phone use ftp.

FTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

Server IP:

Filename:

Username:

Password:

Software Upgrade:

Kernel Upgrade:

Note: It's no necessary to input filename when backup.

Configuration:

Phone Book:

EXT Module:

When use ftp upgrade, you can set several parameters as follow:

FTP Upgrade	
Server IP	The ip address of the ftp server
Filename	The name of the file want to download from ftp server
Username	The username provide by ftp server
Password	The password provide by ftp server
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone

Configuration	You can used update/backup to update/backup the configure file of the phone
Phone Book	You can used update/backup to update/backup the phonebook of the phone
EXT Module	You can used update/backup to update/backup the expansion of the phone

TFTP Upgrade

You can upgrade the software, kernel and configure file for the phone use tftp.

TFTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)

Server IP:

Filename:

Software Upgrade:

Kernel Upgrade:

Note: It's no necessary to input filename when backup.

Configuration:

Phone Book:

EXT Module:

When use tftp upgrade, you can set several parameters as follow:

TFTP Upgrade	
Server IP	The ip address of the tftp server
Filename	The name of the file want to download from ftp server
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used update/backup to update/backup the configure file of the phone
Phone Book	You can used update/backup to update/backup the phonebook of the phone
EXT Module	You can used update/backup to update/backup the expansion of the phone

HTTP Upgrade

You can upgrade the software, kernel and configure file for the phone use http.

HTTP Upgrade
(Attention: Do not cut off the electricity when Upgrade!!)

HTTP Upgrade:

Select a File:

Software Upgrade:

Kernel Upgrade:

Configuration:

PhoneBook:

EXT Module:

Log:

All Config File:

When use http upgrade, you can set several parameters as follow:

HTTP Upgrade	
Select a File	Browse the software/kernel/config file you want to upgrade from http
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used upload/download to upload/download the configure file of the phone
Phone Book	You can used upload/download to upload/download the phonebook of the phone
EXT Module	You can used update/backup to update/backup the expansion of the phone

Reboot

You can use reboot option to reboot the phone.

Reboot

Attention: When click this button this equipment will be reboot, web service will be interred, please connect again.

Reboot

When you press 'Reboot', the phone will reboot.

Phone Status

You can see the currently status of the phone when use Phone Status option.

Phone Status

System Run Time 0 Day0 Hour16 Minute44 Second

Register status

 Account1: Registered

 Account2: Unregister

EX Module1: Off Line

EX Module2: Off Line

EX Module3: Off Line

EX Module4: Off Line

EX Module5: Off Line

EX Module6: Off Line

Network Status

 Connection: Dynamic

 IP Address: 192.168.2.12

 Netmask: 255.255.0.0

 Gateway: 192.168.0.10

 Primary DNS: 192.168.0.10

 Secondary DNS:

 VPN IP Address:

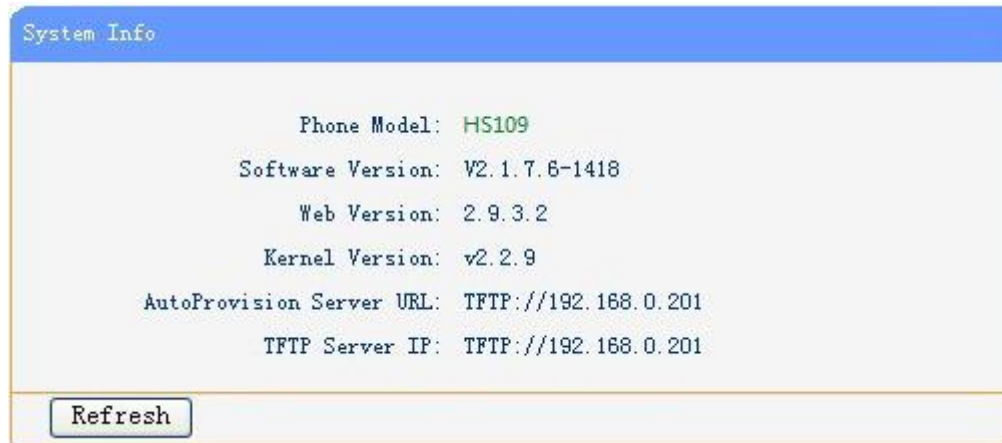
Hardware

 Hardware ID: 4

Refresh

System Info

You can see the system information when used System Info option.



Attention:

On this interface ,you can see the software and kernel which we used for test and this user_manual is written base on this software and kernel.

AES Encryption:

AES encryption is used for all the setting files of your phone (include configuration file, Expansion file, Enterprise/Personal Phonebook etc. You just need to enable the AES Encryption function and input the AES Key matching the one on your server on.



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