



IP Phone VPS-804P



Instruction manual

Release 1.1

2016-04-26



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1. IP Phone VPS-804P

Thank you for purchasing the VPS-804P. It is a fully functional mobile web enables voice communication over the network. This device works like a traditional phone: You can make and receive calls and use other functions specific to a regular phone. This phone has other features data services that are unavailable in traditional phones.

This manual contains information on the features and services available on the device.

1.1. Notice Information

Before you connect and start using your phone, please read the following information. They are important, the unit will operate in a safe and reliable.

Safety cautions

1. To use the power adapter that delivered with the phone. Other power adapters may damage the phone.
2. The phone is only for indoor use. And also avoid in high humidity, water and some other liquids.
3. Do not use the phone during thunderstorms.

Disposal of the phone



This symbol indicates that the product is classified as electrical or electronic equipment and should not be disposed of with other commercial or household waste at the end of its working life.

Cleaning

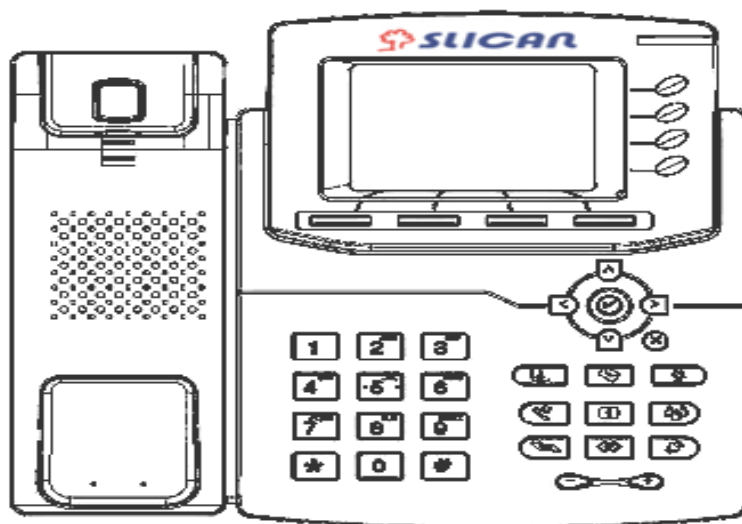
To clean the device, use an anti-static cloth. Please avoid cleaning liquids as they might damage the surface or internal electronics of the phone.

„The manufacturer reserves the right to make changes to the product without prior notice.”
www.slican.pl
e-mail: office@slican.pl

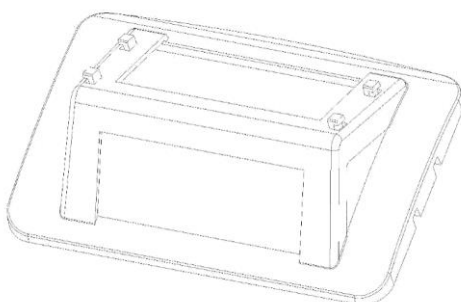
1.2 Packing List

The package contains the following parts, please check if all the items are not missed:

PHONE

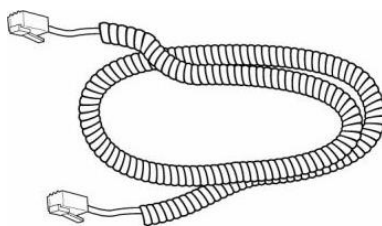
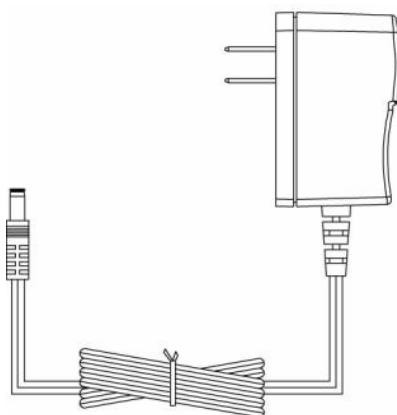
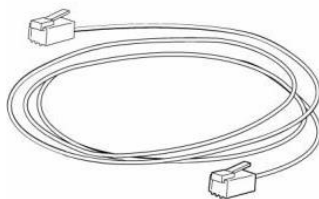


THE FOOTSTAND



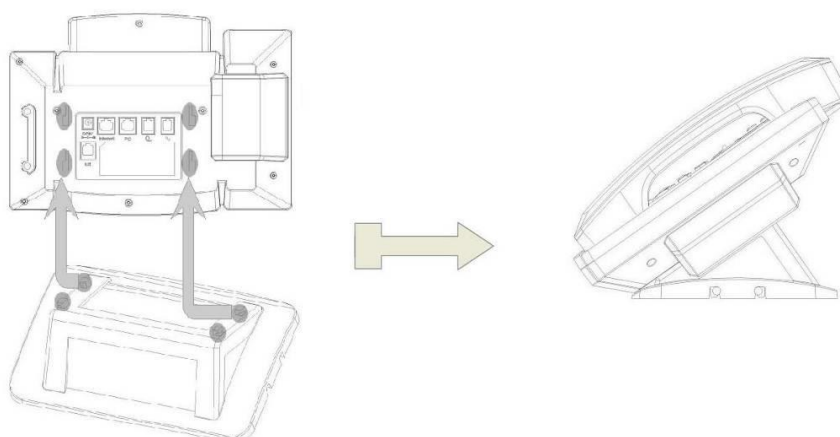
HANDSET



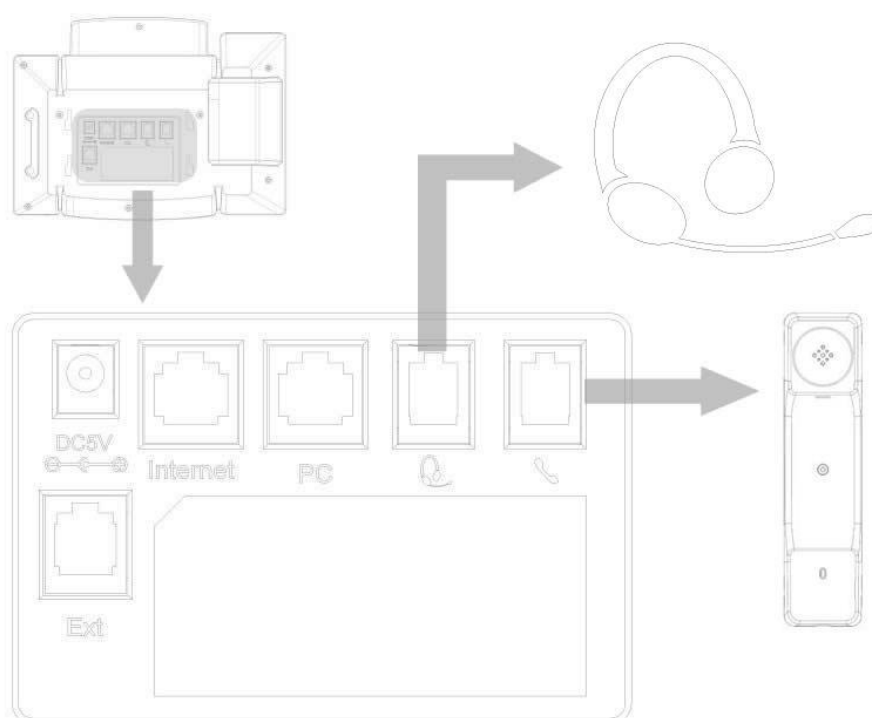
HANDSET CORD**POWER ADAPTER****ETHERNET CABLE****QUICK INSTALLATION REFERENCE**

2. Phone Installation

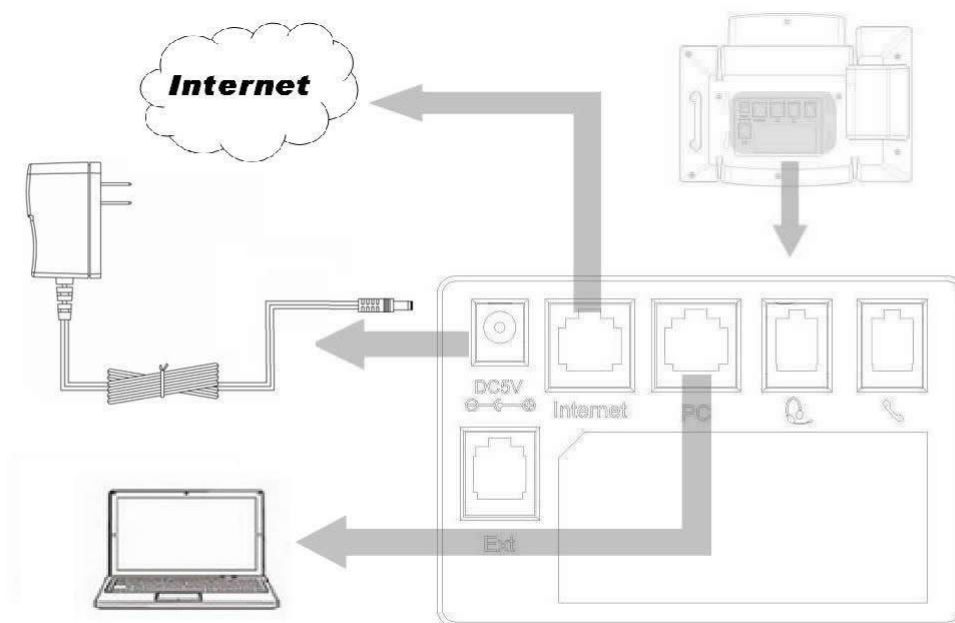
2.1. Attach the Foot stand



2.2. Connect the Handset and optional Headset.



2.3. Connect the Network and Power

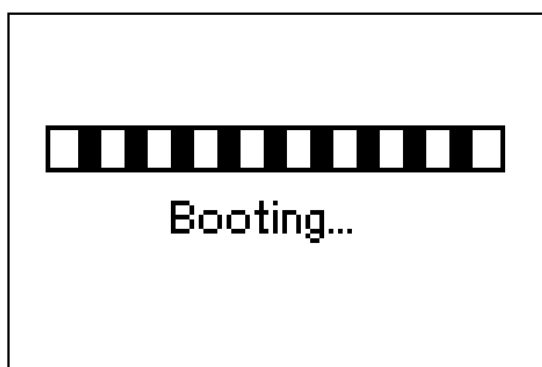


2.4. Initialization

After your phone has been powered up, the system boots up and performs the following steps:

- automatic phone initialization

The phone finishes the initialization process by loading the saved configuration. The phone LCD screen will display "Booting":



- and then show "Initializing" during the initialization process.




Initializing














By default the phone attempts to contact a DHCP server in your network in order to obtain its valid network settings, e.g. IP address, subnet mask, default gateway, DNS server.

3. Getting Familiar with Your Phone

















3.1. Hardware Components Preview

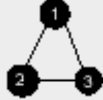




COMPONENT	DESCRIPTION
LCD screen	To Presentation all information about the date& time, accounts, soft keys, messages, calls and other some information.
Power Indicator LED	To indicate the power status
Line keys	The phone supported up to 2 accounts <ul style="list-style-type: none"> Steady green: idle interface, during a call. Blink red: a call incoming
Soft keys	Labels automatically to identify their context-sensitive features.
Navigation keys	<p> OK</p> <p> Up arrow key: to move up of the selection shows on the screen.</p> <p> Right arrow key: to move right of the selection shows on the screen.</p>

	 Left arrow key: To move left of the selection shows on the screen.  Down arrow key: To move down of the selection shows on the screen.  Cancel: to cancel the information or call on the screen, return to idle screen
Mute key	 Mute the voice during the call (green light).
Conference	 To place a conference call
Speaker	 Press this button to place a call in hands-free mode.
Redial	 To dial the previous dialed number. To act as send key.
Volume	  To increase/decrease the volume.
Hold	 To hold or to resume a call during a conversation.
Information	 To show the accounts status and some other relevant information.
Transfer	 To transfer a call to a third party. To enable or disable Forward feature during the idle page.
Alphanumeric keypad	To enter the phone numbers, letters and so on.
Message	 To indicator the New message, and press to read.

3.2. Icon preview

ICON	DESCRIPTION
	Network
	Registered succeed
	Unregistered
	Speakerphone mode
	Handset mode
	Headset mode
	Voice messages
	Text message
	Mute
	Do Not Disturb
	Volume Off
	Hold
	Missed calls
	Dialed Calls
	Received calls
	Forward calls

	Conference
	Keypad locked
	Keypad unlocked

Description of the behavior of LEDs on the phone

Power LED

STATUS LED	OPIS
Blinking green	Ringing or missed call
Steady green	Power on
Off	Power down

Account LED

STATUS LED	OPIS
Steady green	Talking or off the hook
Mrugająca czerwona	Ringing
Off	Idle

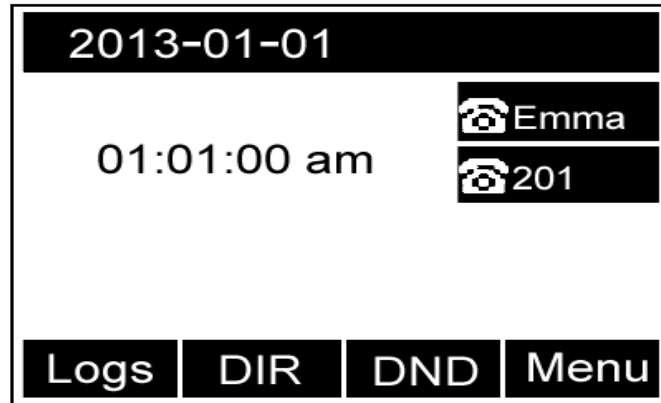
BLF LED

STATUS LED	OPIS
Steady green	Idle line
Steady red	Monitored line during a call or ringing
Blinking red	Monitored line during ringing
Off	Unknown status

4. Phone Configuration

4.1. Basic Features Configuration

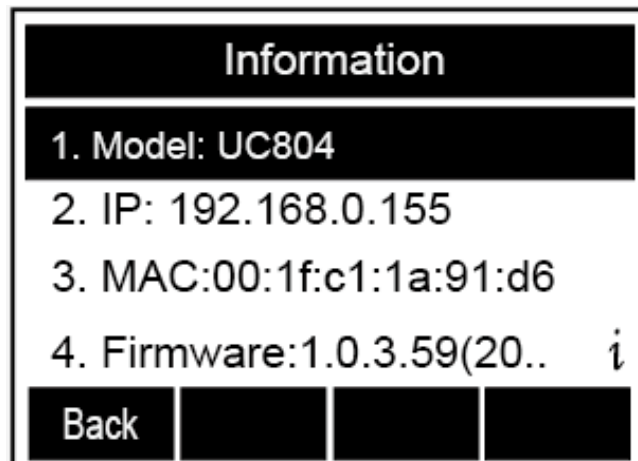
This part will mainly introduce the basic configuration as the Time, Language, and Volume by the help of the LCD display.



Advanced features require knowing the password for configuration (default: admin)

Advanced phone features can be configured using a web browser. This requires knowledge of the phone IP address.

To get the IP address: Press *Menu* → *Status* → *Information* (phone defaulted as a DHCP client)



Input the IP Address in the web browser.

Enter user name: **admin**(default) and password: **admin**(deafult).

Login successfully.

The screenshot displays the SUCAR web interface with a navigation menu at the top: Home | Account | Network | Function Keys | Setting | Directory | Management. The main content area is divided into three sections: Version, Account Status, and Network. A 'NOTE' sidebar on the right provides explanations for the 'Version', 'Account Status', 'Network', 'System Up Time', and 'Restart' sections.

Version	
Product Model	VPS-804P
Firmware Version	BOOT-1.0.3.34(2014-03-21 14:28:00) IMG-1.0.3.66(2014-10-20 15:35:00) DSP-6.1.6(Patch 1.0.0)

Account Status	
Account1	Register Failed
Account2	Disabled
Account3	Disabled

Network	
WAN Port Type	DHCP
WAN IP Address	192.168.16.51
Subnet Mask	255.255.0.0
Gateway	192.168.0.1
Primary DNS	8.8.8.8
Secondary DNS	8.8.8.8
MAC Address	b0:b3:2b:00:60:1f
Device Type	Bridge

NOTE

Version:
It shows product type and the version of firmware.

Account Status:
It shows the registered status of accounts.

Network:
It shows the information of WAN port and LAN ports.

System Up Time:
It shows the running time after device power up.

Restart:
This button will restart the voip application.

4.2. Administrator Password

The password is mainly used for login the web interface or set the advanced settings through phone interface. And the default password of the administrator is: **admin**

To change to password via Phone Interface

Press *Menu*→*Setting*→*Advanced settings*→*password(default admin)*→*Phone Setting*→*Set Password*

Enter the current PWD (password), new password and confirm the new password.

Press save soft key or  to save the new password.

Set Password

1. Current PWD:

2. New PWD:

3. Confirm:

Cancel
2aB
Delete
Save

To change to password via Web Interface

Management → *Password*

Fill the value: *Current password, new password, confirm the password* then click Save to save the configuration.

The screenshot shows the SUCAR web interface. The top navigation bar includes Home, Account, Network, Function Keys, Setting, Directory, and Management. The left sidebar has buttons for Password, Upgrade, Auto Provision, Configuration, TLS Certs, Tools, Restart, and Reboot. The main content area is titled 'Password' and contains a form with the following fields:

- User Type: dropdown menu with 'admin' selected.
- Current Password: text input field with '(Max length 26)' label.
- New Password: text input field with '(Max length 26)' label.
- Confirm Password: text input field with '(Max length 26)' label.

At the bottom of the form are 'SaveSet' and 'Cancel' buttons. To the right, a 'NOTE' box contains the following text:

NOTE

Password:
If you login as an administrator, you can modify admin's password here.

TLS Certs:
you can import TLS certificate file here.

4.3. Language

The default phone interface language is English (both LCD Menu and WEB interface).

To change the language via Phone interface

Press: *Menu*→*Settings*→*Basic Settings*→*Language*.

Press: Save soft key to save the configuration.

The screenshot shows a 'Language' selection menu. The title is 'Language'. The list of options is:

1. English (checked with a checkmark)
2. Serbian
3. Chinese
4. French

At the bottom of the menu are two buttons: 'Cancel' and 'Save'.

To change the language via Web Interface

Select: *Setting*→*Preference*→*Web Language*

Select the necessary one.

Press : Save, to save the configuration.

Note:

All languages may not be available for selection. The available languages depend on the language packs currently loaded to the IP phone.

4.4. Time and Date

The time and date show on the idle page, and it can be set and change by SNTP server automatically or manual setting.

To configure the time and Date by SNTP setting

Press: *Menu* → *Setting* → *Basic setting* → *Time & Date* → *SNTP Settings*


Press  or , or info soft key to change the Time zone.

- NTP server

Fill the NTP server1, NTP server2 (default: tempus1.gum.gov.pl).

- Daylight Saving.



The choice: Auto, Daylight Saving Time on and off.

Press  or Save soft key to save the configuration.



To configure time and date manually



To press : *Menu* → *Setting* → *Basic setting* → *Time & Date* → *Manual Settings*



Press  and  or change the right time, or you can input the right time.


Press  or Save soft key to save the configuration.

To configure the Time & Date Format

To press: *Menu* → *Setting* → *Basic setting* → *Time & Date Format*



Press  and  or press Info to change between 12 Hour or 24 Hour.


Press  and  or press Info to change among Y-M-D(year-month-day), M-D-Y(month-day-year), D-M-Y(day-month-year).

Press  or Save soft key to save the configuration.

To configure the DHCP time

To press: *Menu* → *Setting* → *Basic setting* → *DHCP time*

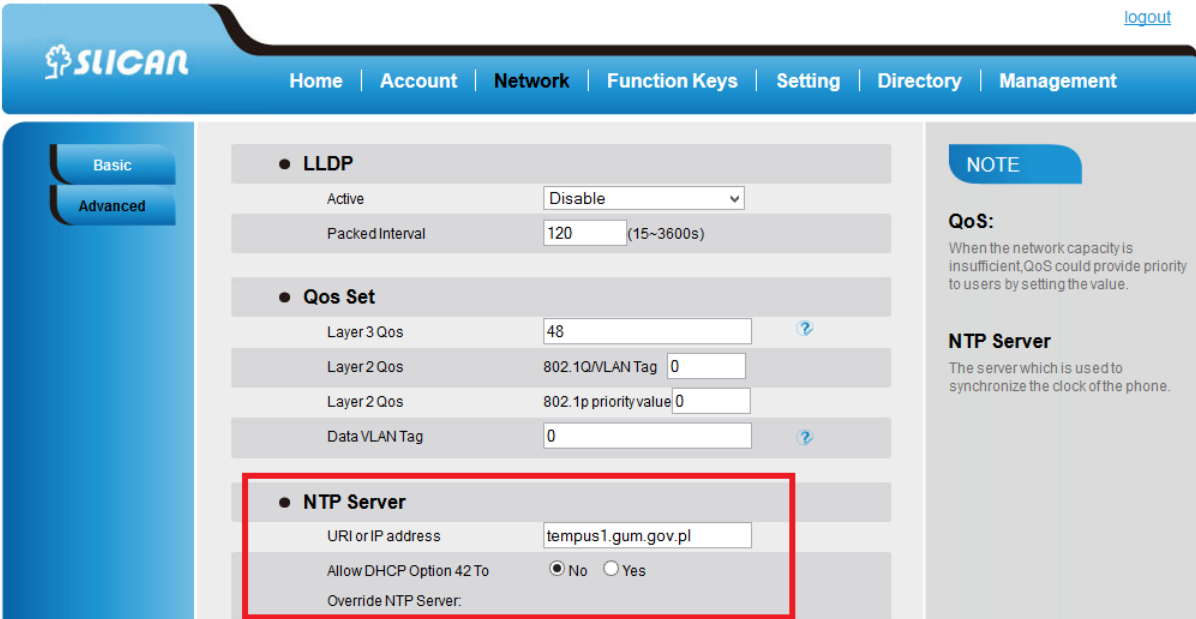
Press  and  or press Info to change between Disable and Enable.

Press  or Save soft key to save the configuration.

To configure the Time and Date by web interface

Select: *Network* → *Advanced* → *NTP Server*

Set IP address NTP server (default: tempus1.gum.gov.pl).



The screenshot shows the SUCAR web interface. The top navigation bar includes 'Home', 'Account', 'Network', 'Function Keys', 'Setting', 'Directory', and 'Management'. The left sidebar has 'Basic' and 'Advanced' tabs. The main content area is divided into sections: LLDP, Qos Set, and NTP Server. The NTP Server section is highlighted with a red box and contains the following fields:

- URI or IP address: tempus1.gum.gov.pl
- Allow DHCP Option 42 To: No Yes
- Override NTP Server: (empty field)

On the right side, there is a 'NOTE' section with two sub-sections: 'QoS:' and 'NTP Server'. The 'QoS:' note states: 'When the network capacity is insufficient, QoS could provide priority to users by setting the value.' The 'NTP Server' note states: 'The server which is used to synchronize the clock of the phone.'

To change the Time Zone and Date Display Format via web interface

Select: *Setting* → *Preference* → *Time Zone*

Select the necessary one. Press Save to save the configuration.

The screenshot shows the SUCAR web interface. At the top, there is a navigation bar with 'Home', 'Account', 'Network', 'Function Keys', 'Setting', 'Directory', and 'Management'. Below this is a sidebar with 'Preference', 'Features', 'Tones', 'SMS', 'Action URL', and 'Softkey Layout'. The main content area is titled 'Setting' and contains a table of configuration options. A red box highlights the 'Preference' section, which includes:

Web Language	English	?
Time Zone	+1 Serbia(Belgrade)	?
DHCP Time	<input checked="" type="radio"/> No <input type="radio"/> Yes	?
Daylight Saving Time	<input checked="" type="radio"/> No <input type="radio"/> Yes	?
Time Format	<input checked="" type="radio"/> 24 Hour <input type="radio"/> 12 Hour	
Date Display Format	<input type="radio"/> Year - Month - Day <input type="radio"/> Month - Day - Year <input checked="" type="radio"/> Day - Month - Year	?

To the right of the settings is a 'NOTE' section with two sub-sections: 'Time Zone: Choose the time zone you are in.' and 'ScreenSaver Photo: You can only upload screen photos in format of '.bmp' and '.jpg'.'

Note:

If the IP Phone cannot obtain the time and date from the Simple Network Time Protocol (SNTP) server, please contact your system administrator for more information.

4.5. Screen Saver

There are two types of screen saver: Backlight off, Time & Logo .

To enable screen saver via Phone

To press: *Menu* → *Display* → *Screensaver...*

Press and or press Switch soft key to Choose the Time-out as 1 min or 2/5/10/30 minute.

Enter the Screensaver Type to choose one of the type: Backlight off, Time & Logo.

Press or Save soft key to save the selected configuration.

To disable screen saver via Phone

To press: *Menu* → *Display* → *Screensaver...*

Press and or press Switch soft key to Choose the Time-out as off.

Press or Save soft key to save the selected configuration.

To Enable screen saver via Webpage

Select: *Setting* → *Preference*

To choose the Time-out as 1 min or 2/5/10/30 minute.

To select the screen Type as Backlight off or Time & Logo.

Click Saveset to save the configuration.

To Disable screen saver via Webpage

Select: *Setting* → *Preference*

To choose the Time-out as Off



Click *Saveset* to save the configuration.


4.6. Ring Tone

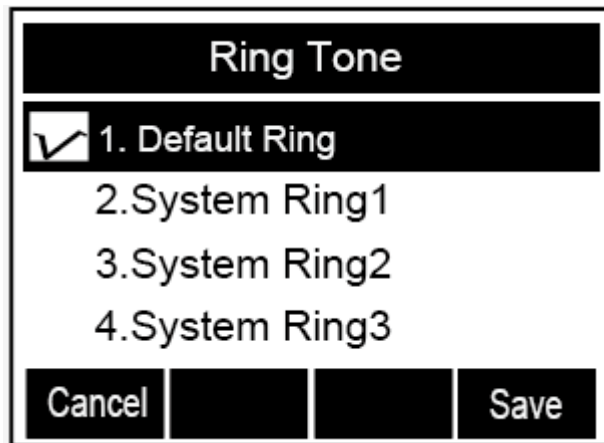
You can adjust the type and volume of the ring tone(8 types).

Change the ringing tone via phone interface

To press : *Press Menu* → *Setting* → *Basic Settings* → *Ring Tone*.

Press  and  to select the aimed one.

Press  or *Save* soft key to save the configuration.

**Change the ringing tone via WEB interface**

Selekt: *Account* → *Advanced* → *Account Ring Tone*

Make Your choice

Click to *Save* to save the configuration.



The screenshot shows the SUCAR web interface. The top navigation bar includes 'Home', 'Account', 'Network', 'Function Keys', 'Setting', 'Directory', and 'Management'. The left sidebar has 'Preference', 'Features', 'Tones', 'SMS', 'Action URL', and 'Softkey Layout'. The main content area displays various settings. A red box highlights the 'MIC Volume Amplification' setting, which is set to '0dB default'. Other settings include 'Web Language' (English), 'Time Zone' (+1 Serbia(Belgrade)), 'DHCP Time' (No), 'Daylight Saving Time' (No), 'Time Format' (24 Hour), 'Date Display Format' (Day - Month - Year), 'Keypad DTMF Tone' (On), 'Backlight Time' (0), 'Screen Time Out' (off), 'Text Logo', 'ScreenSaver Type' (time & logo), 'Ring Tones' (Ring2.bin), 'NO Key Entry Timeout(seconds)' (0), and 'Dial-now Time-out (seconds)' (0). A 'NOTE' section on the right provides instructions for 'Time Zone' and 'ScreenSaver Photo'.

Assign a ring tone to a contact on your phone

Press *Directory*.



Select the target contact.

Press Detail soft key to edit the contact.


Press  and  to select the wanted Ring Tone for the contact

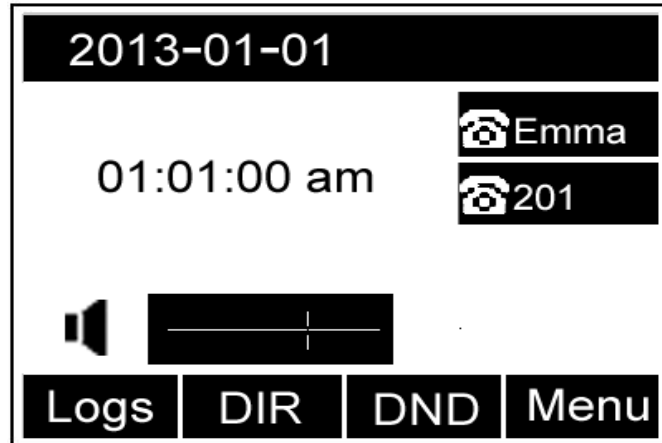
Press *Save* soft key to save the contact.

4.7. Ring volume

You can adjust the volume for the phone by the volume keys:  and .

To adjust the Ring tone volume

Option 1: To press  and  on the idle page



Option 2: To press and during the call is ringing.

To adjust the handset volume

To press and during a call in handset mode.

To press and during a call in speaker mode.

To adjust the headset volume

To press and during a call in headset mode.

4.8. Directory – edit contact list


In the directory, you can add or delete your friends, business partner or anyone others' phone number so you will not forget their number. Or put some anonymous phone No. in the blacklist to prevent from being disturbed.

To add contacts manually

Press: *Menu* → *DIR*





Press: *Add* soft key

Enter the necessary information as name, phone number...


Press Save soft key or  to add the contacts successfully.

To add contacts from Call Log

Press: History soft key or press *Menu* → *Logs* → *Local history*

Press  and  to select the targeted one. (Press  and  switched among the All calls, Dialed calls, Received calls, Missed Calls and Forward Calls).

Edit the necessary information as Name, Phone number...

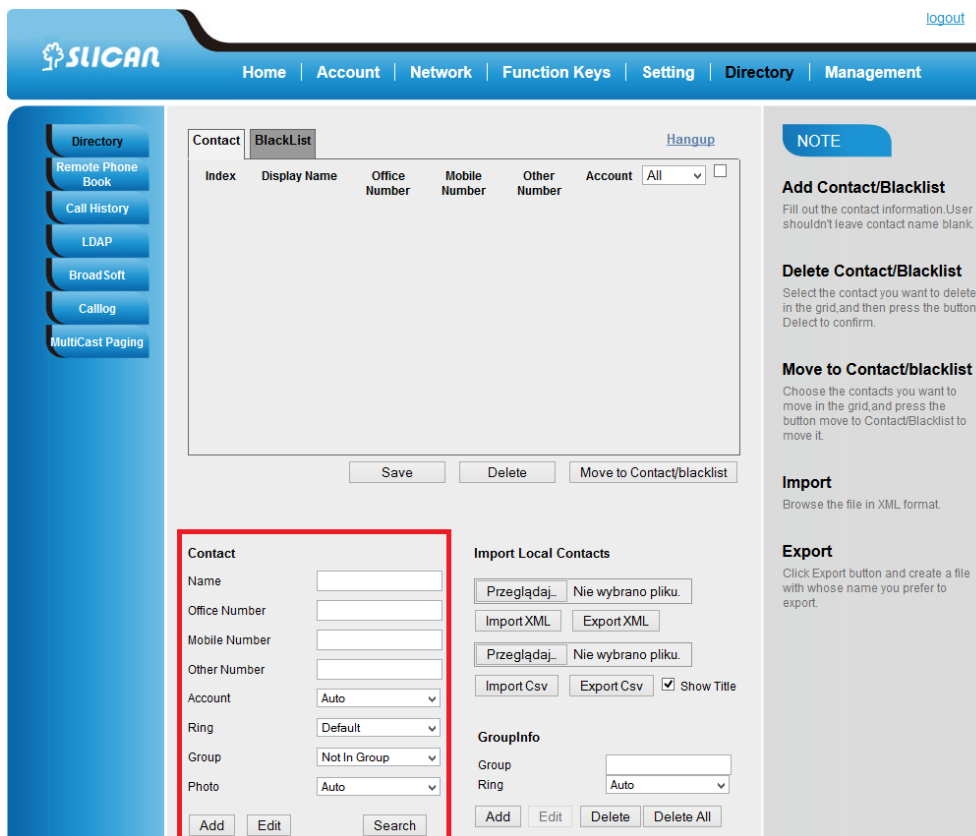
Press Save soft key or  to add the contacts successfully.

To add contacts via WEB interface

Click: Directory.

Enter the name, number and some other information.

Press *Add* and next *Save* button.




The screenshot shows the SUCAR web interface for managing a BlackList. The page has a blue header with the SUCAR logo and navigation links: Home, Account, Network, Function Keys, Setting, Directory, and Management. A 'logout' link is in the top right. On the left, there is a vertical menu with options: Directory, Remote Phone Book, Call History, LDAP, BroadSoft, Calllog, and MultiCast Paging. The main content area is titled 'Contact BlackList' and includes a 'Hangup' link. Below the title is a table with columns: Index, Display Name, Office Number, Mobile Number, Other Number, and Account. The table is currently empty. Below the table are buttons for 'Save', 'Delete', and 'Move to Contact/blacklist'. To the right of the table is a 'NOTE' section with instructions for adding, deleting, and moving contacts. Below the table is a form for adding a new contact, with fields for Name, Office Number, Mobile Number, Other Number, Account (set to 'Auto'), Ring (set to 'Default'), Group (set to 'Not In Group'), and Photo (set to 'Auto'). There are 'Add', 'Edit', and 'Search' buttons at the bottom of the form. To the right of the form are sections for 'Import Local Contacts' and 'Export', each with 'Przełączaj' buttons and file selection options. The 'Import Local Contacts' section has buttons for 'Import XML', 'Export XML', 'Import Csv', and 'Export Csv', with a 'Show Title' checkbox checked. The 'Export' section has a 'Click Export button and create a file with whose name you prefer to export.' instruction.

To add blacklist manually

Press: *Menu* → *Directory* → *Blacklist*

Enter the necessary information as Name, Phone number...

Press save soft key or  to add the contacts successfully.

Import/export contact list

The phone support export and import file with a list of contacts in both the CSV and XML.

File format in XML should look like this:

```
<?xml version="1.0" encoding="UTF-8" ?>
<contactData>
  <group>
    <contact sDisplayName="Grzegorz" sOfficeNumber="1003"
sMobilNumber="601501401" sOtherNumber=""
sAccountIndex="255" sRing="Auto" group="Marketing"
photoDefault="" photoSelect="0" />
  </group>
  <blacklist>
  </blacklist>
  <groupinfo>
  <group name="Marketing" Ring="Auto" />
  </groupinfo>
```

Import/export XML file via WEB interface

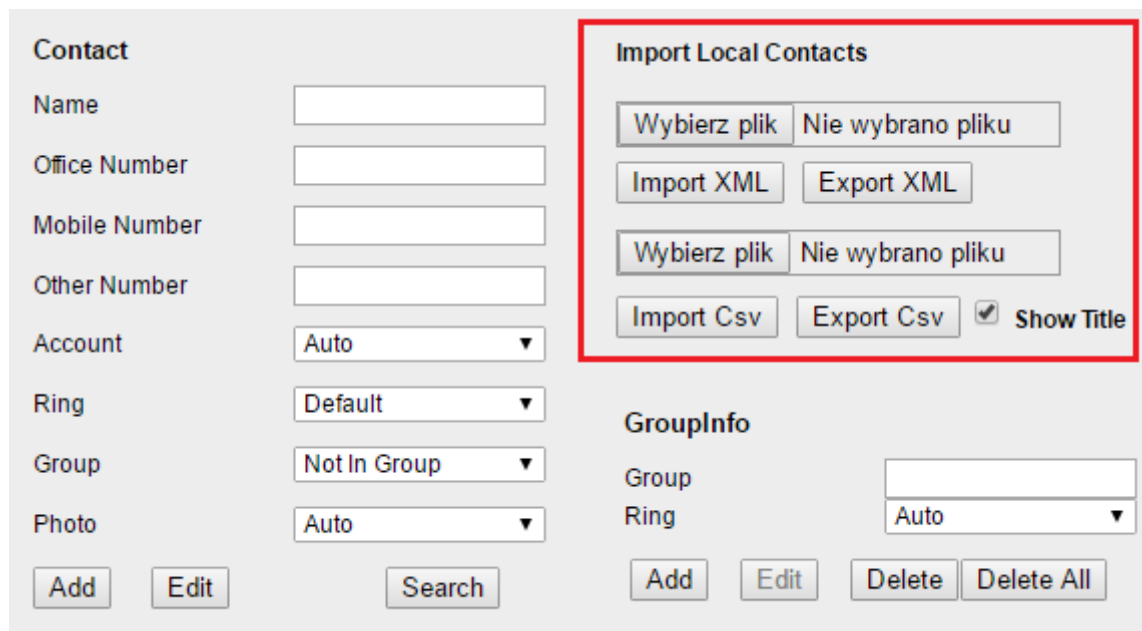
Press: Directory→Contact→Import/export XML

Choose file to upload or download.

Import/export CSV file via WEB interface

Press: Directory→Contact→Import/export CSV

Choose file to upload or download.



Phonebook we can also download a dedicated server. Just specify the path (URL) and configure it via WEB interface.

Press: *Directory*→*Remote phonebook* and fill the URL path for example:

<http://192.168.0.254/phonebook/Phonebook.xml>

4.9. Call log

The phone stores the call history divided by:

- all calls
- missed calls
- incomin calls
- outgoing calls
- forwarded calls

The maximum capacity of the call log is 100 entries.

Call history via phone interface

Press: *History*→*All calls/incoming/outgoing*

Call history via WEB interface

Choose: *Directory*→*Call History*→*Dilaed List/Missed List...*

4.10. Network Configuration

The phone on the housing has two network ports: Internet and PC. To connect with Internet we have to use Intrnet. Additional PC port is used as a switch to connect other devices like PC, laptop.

4.10.1. Configuration Internet port

The phone is configured as a DHCP client and after connect to network automatically get the IP address assigned by a DHCP server.

To check IP address from phone interface press: *Menu*→*Status*→*Information*

In the absence of a DHCP server, you must configure a static IP address, subnet mask, gateway, and DNS server. After the above information, please contact the network administrator.

From phone LCD menu:

Press: *Menu*→*Settings*→*Advanced*→*Network*→*WAN Port*→*Static mode*.

From WEB interface:

Select: Network→*Basic*→*Static address*.

You can also get the IP address logging phone to the network using PPPoE protocol. In this case, enter your account name (login) and password you received from your network administrator.

From phone LCD menu:

Press: *Menu*→*Settings*→*Advanced*→*Network*→*WAN Port*→*PPPoE mode*.

From WEB interface:

Select: Network→*Basic*→*PPPoE*.

Configure provider details for PPPoE service as a: user ID and password.

4.10.2. Configuration PC port

Additional port to connect other devices as PC or laptop.

It works in the two modes:

- as bridge
- as router

In bridge mode, this port behaves as a switch. Connected devices can access to LAN. In router mode allows You to connect network devices for which the phone acts as a router assigning them IP address according to the configuration.

5. Configuration VoIP Account

For the realization of voice calls, it is necessary to configure the SIP accounts. After all the data for account setup, ask your network administrator or service provider VoIP.

To properly configure the SIP account as follows:

- set VoIP server address
- backup SIP server (optional)
- username (User ID)
- register name (Authenticate ID)
- password
- account name (on LCD display)

[logout](#)

SICAR Home | Account | Network | Function Keys | Setting | Directory | Management

Basic
Codec
Advanced

Account Account 1

Account Status Register Failed

* Account Active No Yes

* Primary SIP Server 10.0.0.60 ?

Failover SIP Server ?

Second Failover SipServer ?

Prefer Primary SIP Server No Yes ?

Outbound Proxy ?

Backup Outbound Proxy ?

* SIP Transport UDP TCP TLS ?

NAT Traversal No No, but send keep alive STUN

Label 342 ?

* SIP User ID 620 ?

* Authenticate ID 620 ?

* Authenticate Password ?

Name ?

NOTE

* fields must be filled and require a phone restart

Basic:
The Basic Parameters set for administrator

Codecs:
Choose the codecs you want to use.

Advanced:
The Advanced parameters for administrator.

5.1. Basic configuration VoIP Account

Basic configuration VoIP account requires knowledge of VoIP account login details, such as: SIP server address, user name, service, service user password.

From phone LCD menu:

Press: *Menu*→*Settings*→*Advanced*→*Account*.

Fill SIP server name, username, password, register name.

From WEB interface:

Select: *Account*→*Basic*

Fill SIP server name, username, password, register name.

Note:

After data for your VoIP account login, please contact your service provider or network administrator.

5.2. Advanced Configuration VoIP Account

From the web interface you can configure advanced settings for SIP account:

- **Outband proxy:** Proxy SIP sever address provided that the VoIP service requires its settings.

- **Active account:** enable/disable the account registration.
- **SIP Transport:** type of transport protocol - UDP(default), TCP, TLS.
- **Type DNS:** DNS Server search service.
- **Empire of registration:** expiration time of registration to the SIP server, if the register expire time of the phone is different from the time required by the server, it will automatically changed for the time recommended by the server and register again.
- **Outgoing call without registering::** permit or prohibit making calls without registration to the SIP server.
- **Local SIP port:** port for VoIP call signaling process - the default 5060.
- **Local RTP port:** port for used to transfer audio frames - 5004 by default.
- **Codecs:** settings for compression codecs in order to use of acoustic signals negotiated in the call signaling.
- **DTMF mode:** specifies how to send DTMF(in the band, SIP INFO, RFC 2833)
- **SRTP mode:** activation of RTP voice encryption frames.
- **VAD(Voice Activity Detection):** detection of silence during a call.
- **Ringtone for an account:** assign one of 8 ringtones for your account.
- **Ring time:** phone ringing time settings for incoming calls.
- **Sign # as a send:** use the # key as a sign of the end of the dial.
- **Subscribe for MWI message:** MWI settings for sending messages informing about the new voice message.
- **Anonymous calls:** reservation number for outgoing calls CLIP.
- **Anonymous Call Rejection:** enable anonymous call rejection.
- **Auto answer:** allows to automatically answer incoming calls.
- **Rejection of the return code:** reject code defines a call in the SIP signaling.
- **Direct interception code:** service code interception defined by the administrator of the SIP server.
- **Interception group code:** service code interception in the group defined by the administrator of the SIP server.

NOTE:

These data are dependent on the specific VoIP server settings. Their parameters are set by the service provider or network administrator.

5.3. Codecs

Settings on the order of use preferred codecs compress acoustic signals negotiated in the call signaling.

Phone supports the following codecs:

- G.711a(PCMA)
- G.711u(PCMU)
- G.729A/B
- G.726
- G.723
- G.722
- GSM
- iLBC

6. Basic Call Features

6.1. Place a Call


There are three ways to dialing a call: Handset, Headset and Hands-free speakerphone.

To place a call by Handset

Pick up the handset, or press a line key and dial the necessary number.

Press  or press the send softkey, then the call is sending.


To place a call by Headset:

Press the  (light is Green),

Enter the desired number.

Press  or press the *Send* softkey, then the call is sending.

Placing a call by hands-free speakerphone

Press the , or press the Line key, then you can hear the dial tone.

Enter the number.

Press  or press the *Send* soft key, then the call is sending.


To place a call by call history or Directory

Press the *History* soft key or *Menu* → *History* /*Directory*

Press  and  to select the targeted one.

Press  or *Send* soft key to make the call.

NOTE:

The  key is set to be a send key. You can set the * key as send key or set some other to be as send keys. For more information, refer to the Key as Send on page During the call, you can also change among Headset, Handset or Free-speaker mode.

6.2. End a Call

There are three ways to end a call:

To end a call by Handset

Naciśnij przycisk „Anuluj” lub odłóż słuchawkę.

To end a call under Headset Mode

Press *Cancel* soft key or press .

To end a call under hands-free Speakerphone Mode

Press the *Cancel* soft key or press .

NOTE:

During the conference, to end the call is same as mentioned above.

6.3. Receive a Call

There are three ways to receive a call when the phone is ringing:

To receive a call by handset

Pick up the handset the conversation is built.

To receive a call by headset

Press  and now the conversation is built.


To receive a call by hands-free speaker

Option 1: Press  directly.

Option 2: Press Answer soft key.

Option 3: Press the Line key (flashes red).

Moreover, some other action can be done by soft key when the call is coming.

To press the *Reject* soft key to reject the call. Or press  to reject the current call.

To press *Forward* to forward to another phone.

To press *Silence* soft key, and then the call will keep silent, no ring tone display.

6.4. Redial a Call

To redial the last placed call from the IP Phone

Press  directly when LCD is on the idle interface.

6.5. Auto answer

Enable auto answer feature, you will answer all incoming call automatically.

To enable Auto Answer via Webpage:

To Click: *Account* → *Advanced*

To choose *Yes* for the Auto Answer.

To click *Saveset* to save the configuration.

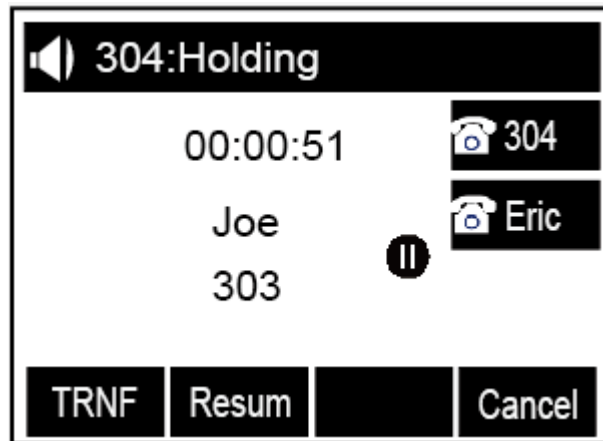
6.6. Call Hold

When use hold feature, the *Hold* icon will show on the display.

To make a call on hold during three modes:

To hold a call under handset mode:

Press *Hold* soft key to hold the current call.



Press *Resume* soft key to resume the call on hold.

To hold a call under headset mode:

Press *Hold* soft key or  to hold the current call.

Press *Resume* soft key or  to resume the call on hold.

To hold a call during the speaker mode:


Press *Hold* soft key or  to hold the current call.

Press *Resume* soft key or  to resume the call on hold.

6.7. Call Transfer

This phone supports blind, attended and Semi-Attended Transfer.

Blind Transfer

Press *Transfer* soft key or  during the conversation, the call is on hold now.

Enter the number that transfers to.


Press *Transfer* soft key or  , and now the blind transfer completed.


NOTE:


The “Enable Call Feature” must be configured to “Yes” to enable this feature.

Attended Transfer

When you use this feature, you can:

Press *Transfer* soft key or  during the conversation, the call is on hold now.


Enter the number that transfer to, and press the send soft key or .

Start the second conversation, press the *Transfer* or  soft key, then, transfer completed.

NOTE:

To transfer calls across SIP domains, SIP service providers must support transfer across SIP domains. Blind transfer will usually use the primary account SIP profile. To use this function, should at least one line key set as Auto.

Semi-Attended Transfer

Press the *Transfer* soft key or  during the conversation, the call is on hold now.


Enter the number transfer to, and then press , then you can here the ring tone.

Press the *Transfer* soft key or , and now the Semi-attended transfer completed.

BLF Transfer

Set a Programmable Key or line key is set as BLF.

For how to set BLF, please refer to BLF

Press the *Transfer* soft key or  during the conversation, the call is on hold now.

Press BLF key then realize blind, attended and Semi-Attended Transfer. (Webpage--Setting--Features)

The screenshot shows the SUCAR web interface for configuring transfer settings. The 'Transfer Settings' section is highlighted with a red box. It includes the following options:

- Blind Transfer On Hook: On Off
- Semi-Attended Transfer: On Off
- Attended Transfer On Hook: On Off
- Transfer Mode via DSSkey: Attended Transfer (dropdown menu is open showing options: Attended Transfer, Blind Transfer, New Call)
- Hold Transfer On Hook: On Off

Other settings visible include Forward, Do Not Disturb, HotLine, Call Pickup, Phone Lock, Call Waiting, and Alert Ring. The interface also includes a 'NOTE' section on the right with the following information:

Forward::
This feature allows you to forward an incoming call to another phone number.

Target:
The number to which the incoming calls will be forwarded.

On Code:
The code that will be sent to PBX when it is switched On.




Off Code:
The code that will be sent to PBX when it is switched Off.


6.8. Call Conference

This IP Phone supports up to 5-way conference.


To set Conference

Assuming that call party A and B are in conversation. A wants to bring C, D and E in a conference:

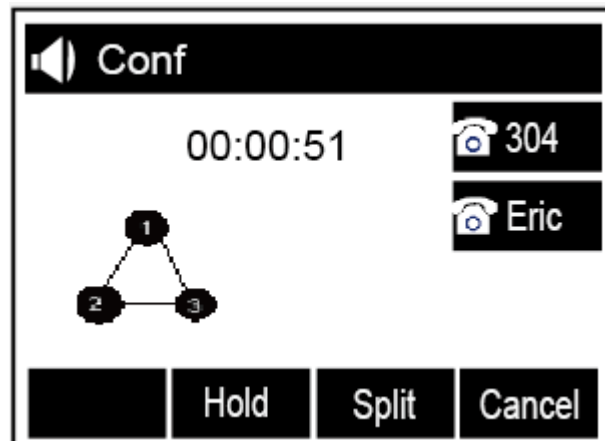
1. A press line 2 key, the call is placed on hold.
2. A enter the number of C and then press send soft key or .
3. C answering the call.
4. A press *Conference* soft key or , then A, B and C are now in a conference (and now this is **3-way conference**).
5. A press line 3 key, the current 3-way conference is placed on hold.
6. A enter the number of D and then press send soft key or .
7. D answering the call.
8. A press the conference soft key, then A, B, C and D are now in a conference.(and now this is **4-way conference**)
9. A press line 4 key, the call is placed on hold.

10 A enter the number of E and then press send soft key or .

11 E answering the call.

12 A press the *Conference* soft key or , then A, B, C, D and E are now the **5-way conference** is built.

13 A end the call, the conference is finished.




NOTE:

If C does not answer the call, A can back to continue the conversation with B; Once A hangs up the call, the conference is ended, while if B or C drops the call, A&C or A&B conversation continues.

The conference feature is not available on all servers. For more information, contact your system administrator.

To realize the 5 way conference, the line should be all available.

Press  to get all parties information.

6.9. Call Forward

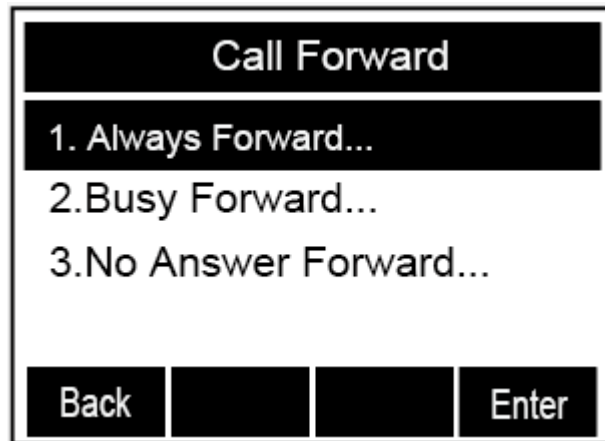
This phone supports static forward (always forward, busy forward and no answer forward) and dynamic forward

To configure always forward


With this feature, all incoming calls will forward immediately to configured number.

Press: *Menu* → *Features* → *Call forward* → *Always Forward*.

Press  and  or press *info* soft key to select the enable choice.





Enter the forward to number and on code (optional), off code (optional).

Press  or Save soft key to save the configuration.


To configure busy forward

With this feature, the incoming calls are immediately forwarded if the phone is busy.

Press: *Menu* → *Features* → *Call forward* → *Busy forward*.

Press  and  or press info soft key to select the enable choice.

Enter the forward to number and on code (optional), off code (optional).

Press  or Save soft key to save the configuration.


To configure no answer forward

No Answer Forward: Incoming calls are forwarded if not answered after some time.

Press: *Menu* → *Features* → *Call forward* → *No answer forward*.

Press  and  or press *info* soft key to select the enable choice.

Enter the forward to number and on code (optional), off code (optional).

Press  or Save soft key to save the configuration.

When the Forward feature is enabled, the Forward Icon will display on Top of the LCD.

To configure Forward via Web Interface

Select :Setting → Features → *Forward*.

Click on for the Always/Busy/No Answer.

Fill the Forward to Number.

Click *SaveSet* to save the configuration

NOTE

Forward::
This feature allows you to forward an incoming call to another phone number.

Target:
The number to which the incoming calls will be forwarded.

On Code:
The code that will be sent to PBX when it is switched On.

Off Code:
The code that will be sent to PBX when it is switched Off.

Forward an incoming call during the ringing.

When the phone is ringing, press *Forward* soft key.

Enter the forward number.

Press  or press the send soft key, then the call is forwarded.

NOTE:

If the Programmable Key or line key is set as BLF, when an incoming call ringing, press this BLF key directly to realize the dynamic forward.




6.10. Call Return - REDIAL




This feature allows you to dial the last phone call you received.


To configure the Call Return via phone interface

Press: *Menu* → *Features* → *Function Keys* → *Line* or *Memory* keys as *Function Keys* → *Memory key1* (for example)

Select the wanted *Line* or *Memory* key.

Press  and  or press  key to select the Key Event in the type field.

Press  and  or press  key to select the Call Return.

Press  or Save soft key to save the configuration.

To configure the Call Return via Web interface

Select: *Function keys* → *Line* or *Memory* key.

Select the desired Line or Memory key and select Call Return in the Type.




Click the *SaveSet* to save the configuration.




6.11. Anonymous Call

Just enable the anonymous call feature, you can set your ID do not appear on the other phone that you called.


To configure anonymous call

Press: *Menu* → *Features* → *Anonymous Call*

Press  and  or press  key to change the Line ID

Press  and  or press  key to select the enable choice in Anonymous Call filed.




Enter the call on code (optional), call off code (optional).




Press  or Save soft key to save the configuration.


Reject anonymous call

If you do not want to be disturb by anonymous calls, you can set the reject anonymous call features, so you will not hear the unknown calls

Press: *Menu* → *Features* → *Anonymous Call*


Press  and  or press  key to change the Line ID.

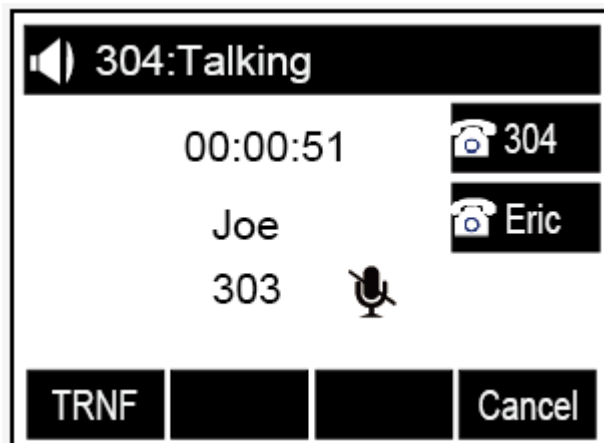
Press  and  or press  key to select the enable choice in Rejection filed.

Press  or Save soft key to save the configuration.

6.12. Call Mute

When you use the Mute feature, the other parties will not hear your voice while you can hear their voice. Call mute applies to all modes (handset, headset, and speakerphone).

Press the mute key , then the mute key glows green, and the LCD display Mute Icon.



To disable the mute function, press  again.

6.13. Do Not Disturb DND

When you use the DND feature, the phone is to reject all incoming calls automatically and you can see the DND icon shown on the Top of the LCD on idle page.

To enable DND feature

Press the *DND* soft key when the phone is idle, and then DND icon shown on the LCD.

To disable DND feature

Press the *DND* soft key again, and then there is no DND icon on the LCD.


6.14. Key as Send

To speed up the process of dialing can be attribute to the end of dialing key (default #).

To configure Key as Send

Press: *Menu* → *Features* → *Key as Send*.

Press  and  or press  key to select the enable choice.

Press  or *Save* soft key to save the configuration

6.15. No Key Entry Timeout

No Key Entry Timeout means that when you entry the number, it will dial out automatically after some time when you stop enter the number.

To configure No Key Entry Timeout

From WEB interface select: *Setting* → *Preference* → *NO Key Entry Timeout(seconds)*
 Fill the blank of No Key Entry Timeout: for example 5(seconds).(0 means never timeout, you should press the send key the dial out the number.
 Click the *SaveSet* to save the configuration.

The screenshot shows the SUCAR web interface with the 'Preference' menu selected. The 'Setting' tab is active. The 'Preference' section contains various configuration options. The 'NO Key Entry Timeout(seconds)' and 'Dial-now Time-out (seconds)' fields are highlighted with a red box and set to 0. The 'Dial-now Time-out (seconds)' field is also highlighted with a red box.

Web Language	English	?
Time Zone	+1 Serbia(Belgrade)	?
DHCP Time	<input checked="" type="radio"/> No <input type="radio"/> Yes	?
Daylight Saving Time	<input checked="" type="radio"/> No <input type="radio"/> Yes	?
Time Format	<input checked="" type="radio"/> 24 Hour <input type="radio"/> 12 Hour	
Date Display Format	<input type="radio"/> Year - Month - Day <input type="radio"/> Month - Day - Year <input checked="" type="radio"/> Day - Month - Year	?
Keypad DTMF Tone	<input checked="" type="radio"/> On <input type="radio"/> Off	?
MIC Volume Amplification	0dB default	
Backlight Time	0	?
Screen Time Out	off	
Text Logo		?
ScreenSaver Type	time & logo	
Ring Tones	Ring2.bin	
NO Key Entry Timeout(seconds)	0	?
Dial-now Time-out (seconds)	0	?

NOTE
Time Zone:
 Choose the time zone you are in.
ScreenSaver Photo:
 You can only upload screen photos in format of '.bmp' and '.jpg'.


6.16. Hot Line

The hot line gives us the opportunity to direct dialing immediately after hook off programmed number with which you want to connect to.

To configure Hot Line from phone interface

Press: *Menu* → *Features* → *Hot Line*

Enter the number and delay time (as present, we support off hook auto dial).

Press  or Save soft key to save the configuration.

To configure Hotline auto dial via Web Interface

Select: *Setting* → *Features*.

Fill the number in the Hotline Number and Hotline Time-out.

Click *SaveSet* to save the configuration.

Delete the number and save the configuration, and then now the Hotline auto dial is cancelled.

The screenshot shows the SUCAR web interface. At the top, there is a navigation bar with the SUCAR logo and menu items: Home, Account, Network, Function Keys, Setting, Directory, and Management. A 'logout' link is visible in the top right corner. On the left side, there is a vertical menu with options: Preference, Features, Tones, SMS, Action URL, and Softkey Layout. The main content area is divided into several sections. The 'HotLine' section is highlighted with a red border and contains two input fields: 'Hotline Number' and 'Hotline Time-out(seconds)(0~180s)' with the value '0'. Below this section are buttons for 'SaveSet' and 'Cancel'. To the right of the configuration area is a 'NOTE' section with the following text: **Forward::** This feature allows you to forward an incoming call to another phone number. **Target:** The number to which the incoming calls will be forwarded. **On Code:** The code that will be sent to PBX when it is switched On. **Off Code:** The code that will be sent to PBX when it is switched Off.

7. Advanced Features

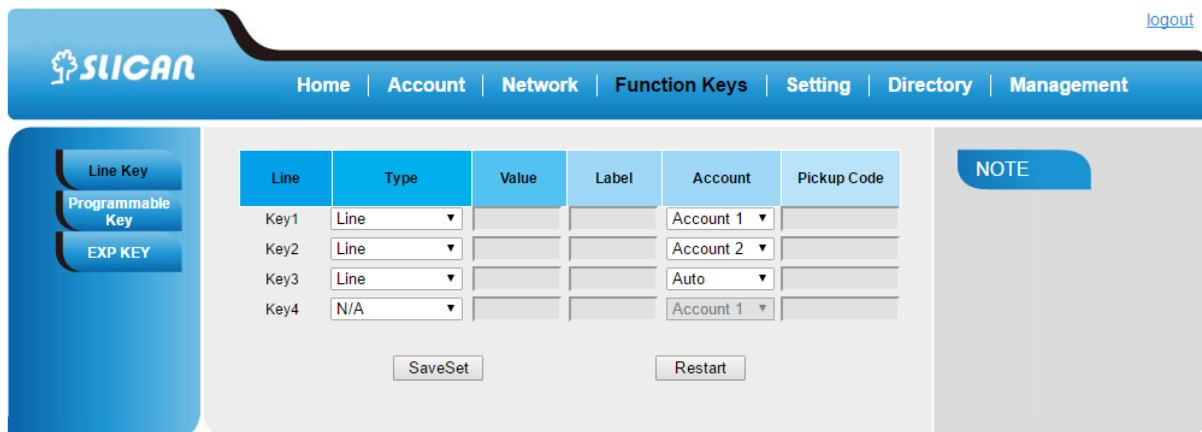
7.1. Line

To line keys can assign SIP accounts.

To configure SIP account via WEB interface:


Choose: *Function Keys*→*Line Keys*

Choose account number then press *Save*.



Line	Type	Value	Label	Account	Pickup Code
Key1	Line			Account 1	
Key2	Line			Account 2	
Key3	Line			Auto	
Key4	N/A			Account 1	

7.2. Voice Message


This phone supports Voicemail MWI, and when there is message, the message will  will light green. Moreover, when pick up the handset, or press speaker key, you will hear some quick busy tone.



To configure the voice mail message feature via phone

Press: *Menu*→*Messages*→*Voice Mail*→*Set Voice Mail*.

Enter the SIP account number and set voice mail extension number.

Press  or Save soft key to save the configuration.

To configure the voice mail message feature via WEB interface

To set function keys as a voice mail key choose: *Function Keys*→*Line Keys*→*Voice mail*. Set voice mail number and choose proper SIP account. Then press: *Save*.

NOTE:




This feature is not available on all servers. For more information, contact your system administrator.

7.3. Intercom


When use the intercom feature, you can quickly get access connect to the configured one.

To configure intercom feature via phone interface

Press: *Menu* →*Features* →*Function Keys*→*Line* or *Memory keys as Function Keys* → *Memory key1*(for example)

Press  and  or press  key to select the intercom in the type field.

Enter the targeted Number.

Press  or Save soft key to save the configuration

Then the selected Line or Memory key will work as intercom.

To configure Intercom feature via Web Interface

Select: *Function keys* → *Line* or *Memory key*.

Select the wanted Line or Memory key.

Enter the desired phone number in the Value field.

Select the Account ID

Click the *SaveSet* to save the configuration.

[logout](#)

SICAR Home | Account | Network | **Function Keys** | Setting | Directory | Management

Line Key

Programmable Key

EXP KEY

Line Key	Type	Value	Label	Account	Pickup Code
Key1	Intercom	102		Auto	
Key2	Line			Auto	
Key3	Line			Auto	
Key4	Record		REC	Auto	

NOTE

NOTE:




This feature is not available on all servers. For more information, contact your system administrator.

7.4. Speed Dial


With this feature, you can dial one directory by press the definite key.

To configure Speed Dial feature via phone interface

Press: *Menu* → *Features* → *Function Keys* → *Line* or *Memory keys as Function Keys*
 → *Memory key1*(for example)

Press  and  or press  key to select the Speed Dial in the type field.

Enter the targeted Number.

Press  or Save soft key to save the configuration

Then the selected Line or Memory key will work as Speed Dial.

To configure Speed Dial feature via Web Interface

From WEB interface select: *Function keys* → *Line* or *Memory key*.

Select the wanted Line or Memory key and set as Speed Dial.

Enter the desired phone number in the Value field.

Select the Account ID.




Click the *SaveSet* to save the configuration.

7.5. Direct Pickup


With this feature, you can pick up the set line when it ringing.

To configure Direct Pickup feature via phone interface

Press: Menu→Features→Function Keys→Line or Memory keys as Function Keys → Memory key1(for example)

Press  and  or press  key to select the Speed Dial in the type field.

Enter the value.

Press  or Save soft key to save the configuration

Then the selected Line or Memory key will work as Direct Pickup.

To configure Direct Pickup feature via Web Interface

From WEB interface select: *Function keys* → *Line* or *Memory key*.

Select the wanted Line or Memory key and set as Direct Pickup.

Enter the pickup code and followed the desired phone number in the Value field.

Select the Account ID.

Click the *SaveSet* to save the configuration.




7.6. Group Pickup

With this feature, you can pick up the specified group that you want incoming calls.


To configure the Pick up via phone interface

Press: Menu→Features→Function Keys→Line or Memory keys as Function Keys → Memory key1(for example)

Select the wanted Line or Memory key.

Press  and  or press  key to select the Group Pickup in the type field.

Enter pickup code and followed the desired group numer.

Press  or Save soft key to save the configuration

To configure the Pick up via WEB interface

From WEB interface select: *Function Keys* → *Line Key1*→*Key1*.

Select the wanted Line or Memory key.

Enter pickup code and followed the desired group numer.

Click the *SaveSet* to save the configuration.

7.7. BLF(Busy Lamp Field)

You can use the BLF (Busy Lamp Field) feature to monitor a specific number whether its phone is busy or free.

When the monitored line is idle, the LED is solid green. When the monitored line is ringing, the light is blinking red, press the BLF key to pick the phone up directly. When the monitored line is calling or in a conversation, the light is steady red.

Optionally, this function gives us the ability to intercept calls to the monitored number with code capture.

To configure a BLF key by phone

Press: *Menu* → *Features* → *Function Keys* → *Line* or *Memory* keys as *Function Keys* → *Memory key1*(for example).


Select the targeted Line or Memory key.

Press  and  or press  key to select the BLF in the type field.

Enter the targeted Value Number.

Press  and  or press  key to select the BLF in the type field.

Enter the Pickup Code.

Press  or *Save* soft key to save the configuration

To configure a BLF key by WEB interface

Select: *Function keys* → *Line* or *Memory* key.

Select the desired Line or Memory key and select BLF in the Type.

Enter the monitored phone number in the Value field.

Select the Account ID.

Filled the Pickup code.

Click the *SaveSet* to save the configuration and then restart.

Memory Key	Type	Value	Account	Pickup Code
Key1	BLF		Account 1	
Key2	N/A		Account 1	
Key3	N/A		Account 1	
Key4	N/A		Account 1	
Key5	N/A		Account 1	

NOTE

Key Type:
The free function key Type Speed Dial,BLF,Key Event,intercom,URL.

BLF:
BLF setting require a phone restart

7.8. Shared Line

This feature allows subscribers to share SIP lines. Moreover it also provides status monitoring of the shared line.

To configure the line key as shared line via phone interface

Press: *Menu*→*Features*→*Function Keys*→*Line* or *Memory keys as Function Keys* → *Memory key1*(for example)

Select the wanted Line or Memory key.

Press and or press key to select the Shared Line in the type field.

Press and or press key to select the Account ID.

Enter the Label.

Enter the Value.

Press or Save soft key to save the configuration.

To configure the line key as shared line via Web Interface

From WEB interface select: *Function keys* → *Line Key* or *Memory key*.

Select the desired Line or Memory key and select Shared Line in the Type.

Enter the Value.

Enter the Label.

Select the Account ID

Click the *SaveSet* to save the configuration and then restart.

logout

Home | Account | Network | **Function Keys** | Setting | Directory | Management

Line Key
Memory Key
Programmable Key

Memory Key	Type	Value	Account	Pickup Code
Key1	Shared Line		Account 1	
Key2	N/A		Account 1	
Key3	N/A		Account 1	
Key4	N/A		Account 1	
Key5	N/A		Account 1	

SaveSet Restart

NOTE

Key Type:
The free function key Type Speed Dial,BLF,Key Event,intercom,URL.

BLF:
BLF setting require a phone restart

NOTE:

This feature is not available on all servers. For more information, contact your system administrator.

7.9. Call Park

With this feature, you can put a call on hold and continue the conversation from another phone.

To configure the Call Park via phone interface

Press : *Menu*→*Features*→*Function Keys*→*Line* or *Memory keys as Function Keys*→*Memory key1*

(for example)

Select the wanted Line or Memory key.

Press and or press Switch soft key to select the Key Event in the type field.

Press and or press Switch soft key to select the Call Park.

Press or Save soft key to save the configuration.

To configure the Call Park via Web interface

From WEB interface select: *Function key* → *Line* or *Memory key*.

Select the desired Line or Memory key and select Direct Pickup in the Type.

Click the SaveSet to save the configuration.




7.10. Paging




With this feature, you can call a phone directly.


To configure the paging via phone interface

Press: *Menu*→*Features* →*Function Keys*→*Line* or *Memory* keys as *Function Keys*→*Memory key1*(for example)

Select the wanted Line or Memory key.

Press  and  or press  key to select the Key Event in the type field.

Press  and  or press  key to select the Paging.

Press  or Save soft key to save the configuration

To configure the Paging via Web interface

Select: *Function keys* → *Line* or *Memory key*.

Select the desired Line or Memory key and select Paging in the Type.

Click the *SaveSet* to save the configuration.




7.11. DTMF

This feature allows you to send directly to the DMTF signaling lines during an ongoing call.


To configure the DTMF via Phone Interface

Press: *Menu*→*Features*→*Function Keys*→*Line* or *Memory* keys as *Function Keys*→*Memory key1*(for example)

Select the wanted Line or Memory key.

Press  and  or press  key to select the DTMF in the type field.

Enter the value.

Press  or Save soft key to save the configuration

To configure the DTMF via Web interface

Click *Function keys* → *Line* or *Memory key*.

Select the desired Line or Memory key and select DTMF in the Type.

Fill the value.

Click the *SaveSet* to save the configuration.

7.12. Prefix

This feature allows us to define any prefix added before the dialed number.

To configure the Prefix via Phone Interface

Press: *Menu*→*Features*→*Function Keys*→*Line* or *Memory keys as Function Keys*→*Memory key1*(for example)

Select the wanted Line or Memory key.

Press  and  or press  key to select the Prefix in the type field.

Enter the value.

Press  or Save soft key to save the configuration.

To configure the Prefix via Web interface

Select: *Function key* → *Line* or *Memory key*.

Select the desired Line or Memory key and select Prefix in the Type.

Fill the value.

Click the SaveSet to save the configuration.

Then when you press this key, the set value is input directly.

7.13. Action URL

This feature allows us to send useful information from the phone to the server and vice versa in order to initiate certain actions on the phone.

This gives us the opportunity to observe phone status or sending such requests:

- login / logout phone
- hook on/hook off handset
- make a call
- turn on DND service

An example of the syntax of the call from the phone by account number 1 to number 523 251 111:

http://admin:password@IP-Address/Phone_ActionURL&Command=1&Number=523251111&Account=1

where:

- admin:password – user name and password
- IP-Address – IP address of the phone which will be place a call
- Command=1 – command call
- Number – called number
- Account=1 – SIP ID account to call

7.14. SMS

Additional feature to send short text messages between phones.

To send message vis phone interface:

Press: *Menu* → *Messages* → *Text Messages* → *Set SMS*

Type the text and set number then press *Send*.

To send message vis WEB interface:

Select: *Setting* → *SMS*


Select *Account* and target *Number* type the message then press *Send* button.

7.15. Keypad Lock

Phone lock feature allows us to completely block the function or the function keys.

To enable Keypad Lock via Phone

Press: *Menu* → *Settings* → *Advanced Setting* → *Phone Setting* → *Lock*

Press:  or *Switch* to change choose lock type: All Keys Menu Key Function Key Lock & Answer

Press *Save* or *OK* key to save the configuration.

To disable Keypad Lock via Phone

Press: *Menu* → *Settings* → *Advanced Setting* → *Phone Setting* → *Lock*.

Press: *Info* or *Switch* to change choose *Off*.

Press *Save* or *OK* key to save the configuration.

To enable Keypad Lock via Webpage

From WEB interface: *Setting* → *Preference*.

To choose the Lock keys.

To fill the unlock PIN and auto lock time

Fill the Emergence Number, when the phone is Lock, only Emergency Number can be sent.

To click *Saveset* to save the configuration..

The screenshot shows the SUCAR web interface. The top navigation bar includes 'Home', 'Account', 'Network', 'Function Keys', 'Setting', 'Directory', and 'Management'. A 'logout' link is in the top right. The left sidebar contains a menu with 'Preference', 'Features', 'BLF Settings', 'Date&Time', 'Tones', 'SMS', 'Action URL', and 'Softkey Layout'. The main content area is titled 'Phone Lock' and contains several sections: 'Forward:', 'Do Not Disturb', 'HotLine', 'Transfer Settings', 'Call Pickup', and 'Phone Lock'. The 'Phone Lock' section has four rows: 'Keypad Lock' with a dropdown menu set to 'All Keys', 'Phone Unlock Pin(0~15digit)' with a text input field containing '*****', 'Auto Lock Time-Out(15~3600s)' with a text input field containing '15', and 'Emergency' with a text input field containing '112'. Below these are sections for 'Call Waiting', 'Alert Ring', and 'Auto Redial'. At the bottom are 'SaveSet' and 'Cancel' buttons. On the right, a 'NOTE' section explains the 'Forward:' feature, 'Target:', 'On Code:', and 'Off Code:'.

7.16. Setting LED status

Phone let us configure behavior LED status:

- Power
- Ringing
- Missed call
- Voice message

7.17. Dial plan

Dial plan is a set of the rules to select some prefixes based on digits.

Phone support the following digits: 1,2,3,4,5,6,7,8,9,0,*,#.

Dial plan rules:

STRING	DESCRIPTION
x	any digits from 0-9;
xx+	at least 2 digit number;
^	exclude;
,	hear dial tone;

[3-5]	any digits from 3 to 5;
[147]	any digit 1, 4 or 7;
<2=011>	Replace digit 2 with 011.

Default dial plan: {[x*]+}.

Examples:

Example 1:

{[369]11 | 1617xxxxxxx} :

Allow 311, 611, 911, and any 10 digit numbers of leading digits 1617

Example 2:

{^1900x+ | <=1617>xxxxxxx}:

Block any number of leading digits 1900 and add prefix 1617 for any dialed 7 digit numbers

Example 3:

{1xxx[2-9]xxxxxx | <2=011>x+}:

Allow any length of number with leading digit 2 and 10 digit-numbers of leading digit 1 and leading exchange number between 2 and 9; If leading digit is 2, replace leading digit 2 with 011 before dialing

Example 4:

{99,x+[[*x]+}

When user dial 99, can hear dial tone again, user continue dial, dial tone will stop.

7.18. Encrypted call handling - TLS/SRTP

The phone support encrypted call based on TLS and SRTP protocols.

To configure TLS and SRTP via WEB interface

Select: *Account* → *Basic* → *SIP Transport* → *TLS* for encryption signaling.

Select: *Account* → *Advanced* → *SRTP Mode* for encryption acoustic.

To correct TLS authentication is necessary to upload the trusted certificates.

To upload certificates file select: *Management* → *Import Trusted Certificate Files*.

Then select *Custom Certificates* and press *SaveSet*.

The screenshot shows the Slicar web interface. The top navigation bar includes 'Home', 'Account', 'Network', 'Function Keys', 'Setting', 'Directory', and 'Management'. The left sidebar has buttons for 'Password', 'Upgrade', 'Auto Provision', 'Configuration', 'Trusted CA', 'Server CA', 'Tools', 'Restart', and 'Reboot'. The main content area displays a table of Trusted CA entries:

Index	Issued TO	Issued By	Expiration	Delete
1	NCP Private CA	Slicar NCP	Apr 3 08:43:39 2031 GMT	<input type="checkbox"/>
2				<input type="checkbox"/>
3				<input type="checkbox"/>
4				<input type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

Below the table is a 'Delete' button. A red box highlights the first row and the 'Import Trusted Certificate Files' form. The form includes a file selection button ('Wybierz plik'), a status message ('Nie wybrano pliku'), an 'Import Trusted Certificates' button, and radio buttons for 'Default Certificates', 'Custom Certificates' (selected), and 'All Certificates'. There are also 'SaveSet' and 'Cancel' buttons at the bottom.

A 'NOTE' box on the right states: 'Trusted CA: you can import TLS certificate file here.'

7.19. VLAN and QoS service

Phone support 802.1Q protocol for VLAN and QoS. This gives us the opportunity to work with virtual network(VLAN) and set priority for voice packets.

To configure VLAN/Qos via WEB interface:

Set: Network→Advanced→QoS set

Set proper VLAN ID and QoS priority. This information should specify the network administrator.

The screenshot shows the Slicar web interface. The top navigation bar includes 'Home', 'Account', 'Network', 'Function Keys', 'Setting', 'Directory', and 'Management'. The left sidebar has buttons for 'Basic' and 'Advanced'. The main content area displays the QoS configuration page:

- LLDP**
 - Active: Disable
 - Packed Interval: 120 (15~3600s)
- Qos Set**
 - Layer 3 Qos: 48
 - Layer 2 Qos: 802.1Q/VLAN Tag 10
 - Layer 2 Qos: 802.1p priority value 2
 - Data VLAN Tag: 11

A 'NOTE' box on the right states: 'QoS: When there is insufficient network capacity, QoS priority can be provided by setting the value for the user.'

7.20. Additional tools

The phone has a built-in diagnostic tools to analyze any problems. One of them is the ability to retrieve logs of network traffic. Second tool to analyze phone problem is system logs.

Getting network traffic from the WEB interface:

Select: *Management*→*Tools*→*Pcap Feature*→*Start*

After finish getting network packets select *Stop* and *Export* to download log file.

Getting system log from the WEB interface:

Select: *Management*→*Configuration*→*System log*

Set proper the log level from the drop-down list(DEBUG, INFO, WARNING, ERROR) and next *Download* to get log file.

8. Management – Upgrade

8.1. Start

Login window startup web interface gives us a phone the most important status such as:

- product model
- firmware Version
- account status
- network status: address IP, DNS, MAC address
- memory free
- system up time

8.2. Factory Reset

It enables us to reset all phone settings to default factory settings.

To set Factory Reset by phone interface

Press: *Menu*→*Setting*→ *Advanced Setting*(default password: *admin*)→*Phone Setting*→*Factory Reset*

Press OK soft key in the warning page.

To set Factory Reset via web interface

Select: *Management* → *Upgrade*→ *Reset To Factory*.

The screenshot shows the SUCAR web interface. The top navigation bar includes 'Home', 'Account', 'Network', 'Function Keys', 'Setting', 'Directory', and 'Management'. The 'Management' section is active. On the left sidebar, 'Upgrade' is selected. The main content area displays system information and options:

- Image Version:**
 - Major Version: IMG--1.0.3.77(2015-01-29 11:30:00)
 - Minor Version: IMG--1.0.3.74(2014-12-22 18:17:00)
- Reset To Factory:** A red box highlights this option and its corresponding 'Reset To Factory' button.
- ROM Firmware Upgrade:** Includes buttons for 'Przeglądaj...', 'Nie wybrano plik', and 'Upgrade'.

On the right, a 'NOTE' section provides instructions:

- Image Version:** Show the information of the two system image version .
- Reset To Factory :** Reset all the settings of the phone to default configurations.
- Restart:** one simple operation for restart the voip application.

8.3. Software update

The software update can be done in several ways:

- via TFTP/http/HTTPS server(specify the path).
- through auto-provisioning server HTTP/HTTPS
- by selecting the firmware image file from the specified location (local or network drive)

Upgrade firmware from image file via WEB interface:

Select: *Management* → *Upgrade* → *ROM Firmware Upgrade*

Select proper file and press Upgrade button. Phone after this action should be reset to factory.

To configure the TFTP/HTTP/HTTPS server via the WEB interface

Select: *Management* → *Auto Provision* → *Upgrade Mode(TFTP/HTTP/HTTPS)*.

Then enter the address of the TFTP/HTTP/HTTPS and server access path. After this reset the phone.

NOTE

Firmware Upgrade :
The detail sets about the firmware upgrade for the system.

Phonebook Download:
The detail sets about the phonebook XML download.

8.4. Download/restore configuration

This functionality allows you to import or export the current configuration of the phone in two formats:

- as a BIN(binary) file

- with an extension of XML

From WEB interface:

Select: *Management* → *Configuration* → *Download Device BIN/XML Configuration*.

You can also restore the configuration using the following options:

Select: *Management* → *Configuration* → *Restore Configuration XML/BIN*.

8.5. Autoprovisioning HTTP/HTTPS

Automatic update method configuration functionality is available as a server.

The system administrator knowing the specific data of the phone, ie.: MAC address, prepares the server level preconfiguration file that is downloaded on the phone while its initialization (reboot).

Phone support two method of autoprovisioning configuration:

- automated proces using SIP Multicast(available plug'n'play server)
- manually by entering the phone configuration path access to the server

To configure automated method via WEB interface:

Select: *Management* → *Auto Provision* → *PnP Active*

Select: Yes.

To configure manula method via WEB interface:

Select: *Management* → *Auto Provision* → *Configure Server Path*

9. Troubleshooting

9.1. Why is the phone LCD screen blank?

Ensure your phone is properly plugged into a functional AC outlet.

Ensure that the phone isn't plugged into a plug controlled by a switch that is off.

If the phone is plugged into a power strip, try plugging it directly into a wall outlet instead. If your phone is powered from PoE, ensure you use a PoE compliant switch or hub, or contact your system administrator for more information. Check that the power LED is on to ensure the phone is powered on.

Otherwise, contact your system administrator.

9.2. Why does the phone display "Network Unavailable"?

Ensure that the Ethernet cable is plugged into the Internet port on the phone and the Ethernet cable is not loose. Ensure that the switch or hub in your network is operational.

Otherwise, contact your system administrator.

9.3. Why can't I get a dial tone?

Check for any loose connections and that the phone has been installed properly.

Check whether dial tone is present on one of the audio modes(handset/headset).

Switch between the Handset, Headset (if present) or Hands-Free Speakerphone to check whether dial tone is present for one of the audio modes. If the dial tone exists on another audio mode, connect a different handset or headset to isolate the problem.

Otherwise, contact your system administrator.

10. Annex

10.1. Hardware Specifications

COMPONENT	DESCRIPTION
POWER ADAPTER	Wejście: 100-240V AC 50-60Hz Wyjście: 5v/1.2A DC
NETWORK PORT	Internet: 10/100 Base-T RJ-45(WAN/LAN) PC: 10/100 Base-T RJ-45 (LAN) Power over Ethernet(PoE) IEEE 802.3af
ADDITIONAL PORT	Handset: RJ-9(4P4C) Headset: RJ-9(4P4C)
GRAPHIC LCD	128 × 96 mm, matryca punktowa LCD
OPERATION TEMPERATURE	-10~50°C
RELATIVE HUMIDITY	10~95%
WEIGHT	0,72 kg

10.2. Technical Specifications

COMPONENT	DESCRIPTION
NETWORK PROTOCOL	TCP, UDP, ICMP, RARP, ARP, NTP, SNTP, UpnP, FTP, TFTP, DNS
VoIP PROTOCOL	SIPv2, SDP(RFC 2327), RTP (RFC 1889,1890), RTCP
VOICE CODECS	G.711A/u law, G.729A/B, G.722, G.726-32, G.723.1, GSM FR
DTMF	RFC(2833), SIP INFO, IN-BAND
SECURITY	HTTPS, TLS, SRTP, VLAN QoS(802.1pq)
QoS	VLAN QoS(802.1Q), ToS, DiffServ