



Grandstream Networks, Inc.

GXP1400/GXP1405

Small-Medium Business IP Phone



GXP1400/GXP1405 USER MANUAL

GXP1400/GXP1405 User Manual

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GUI Interface Examples GXP1400/GXP1405 User Manual

http://www.grandstream.com/products/gxp_series/general/documents/gxp21xx_gui.zip

1. Screenshot of Configuration Login Page
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GNU GPL INFORMATION

GXP1400/GXP1405 firmware contains third-party software licensed under the GNU General Public License (GPL). Grandstream uses software under the specific terms of the GPL. Please see the GNU General Public License (GPL) for the exact terms and conditions of the license.

Grandstream GNU GPL related source code can be downloaded from Grandstream web site from:
http://www.grandstream.com/support/faq/gnu_gpl.

CHANGE LOG

This section documents significant changes from previous versions of GXP1400/GXP1405 user manuals. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

FIRMWARE VERSION 1.0.4.13

- Added instructions for connecting the phone. [CONNECTING YOUR PHONE]
- Updated Keypad MENU options and Keypad configuration flow. [CONFIGURATION VIA KEYPAD]
- Added Line Key options Speed Dial, Dial DTMF, Call Return, Transfer, VMmsg, Intercom, Call Park, LDAP Search, and etc. [SETTINGS/BASIC SETTINGS PAGE]
- Added IPv6 configuration options. [SETTINGS/BASIC SETTINGS PAGE]
- Added LDAP options information. [SETTINGS/ADVANCED SETTINGS PAGE]
- Added Public Mode information for hot desking feature. [PUBLIC MODE]
- Added NAT setting information. [NAT SETTINGS]
- Added Matching Incoming Caller ID function in Account Setting. [ACCOUNT PAGE DEFINITIONS]
- Added Editing Contacts and Click-to-Dial information. [EDITING CONTACTS AND CLICK-TO-DIAL]
- Added GNU GPL information. [GNU GPL INFORMATION]
- Added Change Log for this user manual. [CHANGE LOG]

WELCOME

Thank you for purchasing Grandstream GXP1400/GXP1405 Small-Medium Business IP Phone. GXP1400/1405 is a next generation small-to-medium business IP phone that features 2 lines with 2 SIP accounts, a 128x40 graphical LCD, 3 XML programmable context-sensitive soft keys, dual network ports with integrated PoE (GXP1405 only), and 3-way conference. The GXP1400/1405 delivers superior HD audio quality, rich and leading edge telephony features, personalized information and customizable application service, automated provisioning for easy deployment, advanced security protection for privacy, and broad interoperability with most 3rd party SIP devices and leading SIP/NGN/IMS platforms. It is a perfect choice for small-to-medium businesses looking for a high quality, feature rich IP phone with affordable cost.

Caution:

Changes or modifications to this product not expressly approved by Grandstream, or operation of this product in any way other than as detailed by this User Manual, could void your manufacturer warranty.

Warning:

Please do not use a different power adaptor with the GXP1400 as it may cause damage to the products and void the manufacturer warranty.

This document is subject to change without notice. The latest electronic version of this user manual is available for download here:

<http://www.grandstream.com/support>

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PRODUCT OVERVIEW

FEATURE HIGHLIGHTS

- 128x40 pixel graphical LCD display;
- 2 line keys with dual-color LED (2 SIP accounts and up to 2 call appearances), 3 XML programmable context-sensitive soft keys, 3-way conference;
- HD wideband handset, hands-free speakerphone with advanced acoustic echo cancellation;
- Phonebook with up to 500 contacts and call history with up to 200 records;
- Automated personal information service (e.g., local weather), personalized music ring tone/ring back tone;
- Dual switched auto-sensing 10/100Mbps network port, integrated PoE (GXP1405 only);
- Automated provisioning using TR-069 or AES encrypted XML configuration file, SRTP and TLS for advanced security and privacy protection, 802.1x for media access control, LLDP, IPv6.

GXP1400/GXP1405 TECHNICAL SPECIFICATIONS

Table 1: GXP1400/GXP1405 TECHNICAL SPECIFICATIONS

Protocols and Standards	SIP RFC3261, TCP/IP/UDP, RTP, HTTP/HTTPS, ARP/RARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, TR-069, 802.1x, LLDP, IPv6, TLS, SRTP
Network Interfaces	Dual switched 10/100Mbps port, integrated PoE (GXP1405 only)
Graphic Display	128x40 graphical LCD display
Feature Keys	2 line keys with dual-color LED and 2 SIP accounts, 3 XML programmable context sensitive soft keys, 5 navigation/menu keys, 8 dedicated function keys for HOLD, TRANSFER, CONFERENCE, VOLUME, HEADSET, MUTE, SPEAKERPHONE, SEND/REDIAL
Voice Codec	Support for G.723.1, G.729A/B, G.711u/a, G.726-32, G.722 (wide-band), iLBC, in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
Telephony Features	Hold, transfer, forward, 3-way conference, call park, pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phone book (XML, LDAP, up to 500 items), call waiting, call log (up to 200 records), off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones, server redundancy and fail-over
HD Audio	Yes, HD handset with support for wideband audio
Headset Jack	RJ9 headset jack

Base Stand	Yes, 2-angle positions available
Wall Mountable	Yes
QoS	Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, 802.1x media access control
Multi-language	English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Simplified Chinese, traditional Chinese, Korean, Japanese, and etc
Upgrade and Provisioning	Firmware upgrade via TFTP/HTTP/HTTPS, mass provisioning using TR-069 or AES encrypted XML configuration file
Power and Green Energy Efficiency	Universal power adapter: Input: 100-240VAC 50-60Hz; Output: 5VDC, 800mA Integrated Power-over-Ethernet (802.3af, GXP1405 only); Max power consumption 2.5W (power adapter) or 3W (PoE)
Physical	Unit dimension: 186mm (W) x 210mm (H) x 81mm (D) Unit weight: 0.7kg Package weight: 1.1kg
Operating Temperature and Humidity	32-104 °F / 0-40 °C, 10-90% (non-condensing)
Package Content	GXP1400/GXP1405 phone, handset with cord, base stand, wall mount spacers, universal power supply, network cable, quick start guide
Compliance	FCC Part 15 (CFR 47) Class B; EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1; AS/NZS CISPR 22 Class B, AS/NZS CISPR 24, RoHS; UL 60950 (power adapter)

INSTALLATION

EQUIPMENT PACKAGING

Table 2: GXP1400/GXP1405 EQUIPMENT PACKAGING

Main Case	Yes (1)
Handset	Yes (1)
Phone Cord	Yes (1)
Power Adaptor	Yes (1)
Ethernet Cable	Yes (1)
Phone Stand	Yes (1)
Quick Start Guide	Yes (1)
Wall Mount Spacers	Yes (2)

CONNECTING YOUR PHONE

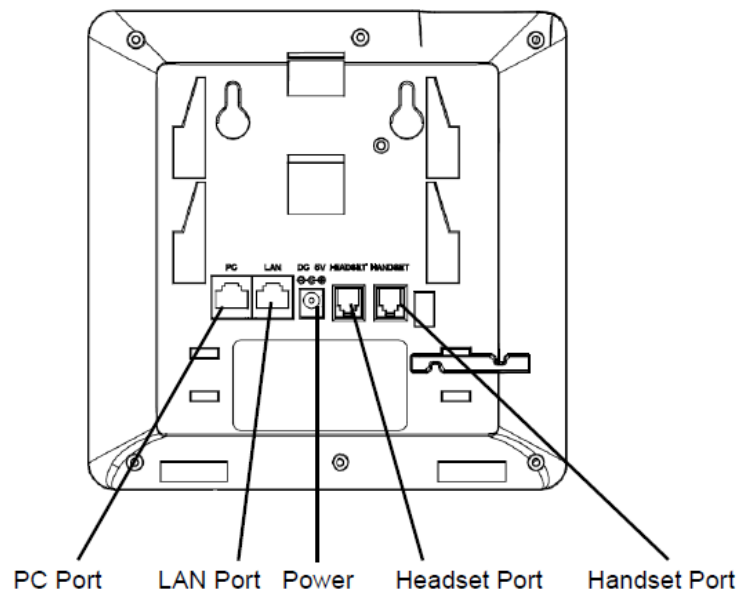


Figure 1: GXP1400/GXP1405 Ports

Table 3: GXP1400/GXP1405 CONNECTORS

Handset Port	RJ9 handset connector port
Headset Port	RJ9 headset connector port
LAN Port	10/100Mbps RJ-45 port connecting to Ethernet, integrated PoE (GXP1405 only)
PC Port	10/100Mbps RJ-45 port for PC connection
Power Jack	5V DC Power connector port

To set up the GXP1400/GXP1405, follow the steps below:

1. Attach the phone stand or wall mount to the back of the phone where there are slots;
2. Connect the handset and main phone case with the phone cord;
3. Connect the LAN port of the phone to the RJ-45 socket of a hub/switch or a router (LAN side of the router) using the Ethernet cable;
4. Connect the 5V DC output plug to the power jack on the phone; plug the power adapter into an electrical outlet. If PoE switch is used on GXP1405 in step 3, this step could be skipped;
5. The LCD will display provisioning or firmware upgrade information. Before continuing, please wait for the date/time display to show up;
6. Using the keypad configuration menu or phone's embedded web server (Web GUI) by entering the IP address in web browser, you can further configure the phone.

SAFETY COMPLIANCES

The GXP1400/GXP1405 phone complies with FCC/CE and various safety standards. The GXP1400/GXP1405 power adapter is compliant with the UL standard. Use the universal power adapter provided with the GXP1400/GXP1405 package only. The manufacturer's warranty does not cover damages to the phone caused by unsupported power adapters.

WARRANTY

If the GXP1400/GXP1405 phone was purchased from a reseller, please contact the company where the phone was purchased for replacement, repair or refund. If the phone was purchased directly from Grandstream, contact the Grandstream Sales and Service Representative for a RMA (Return Materials Authorization) number before the product is returned. Grandstream reserves the right to remedy warranty policy without prior notification.

Warning: Use the power adapter provided with the phone. Do not use a different power adapter as this may damage the phone. This type of damage is not covered under warranty.

USING THE GXP1400/GXP1405




GETTING FAMILAR WITH THE LCD

GXP1400/GXP1405 has a dynamic and customizable screen. The screen displays differently depending on whether the phone is idle or in use (active). The following table describes the items displayed on the GXP1400/GXP1405 idle screen.

Table 4: GXP1400/GXP1405 DISPLAY DEFINITIONS

DATE AND TIME	Displays the current date and time. It can be synchronized with Internet time servers.
LOGO NAME	Displays company logo name. This logo name can be customized via xml screen customization. The maximum size for logo name is 26 characters in English (approximately).
NETWORK STATUS	Shows the status of network in the middle of the screen. It will indicate whether the network is down or starting.
STATUS BAR	Shows the status of the phone for registration status, call features and etc, using icons as shown in the next table.
SOFTKEYS	<p>The softkeys are context sensitive and will change depending on the status of the phone. Typical functions assigned to softkeys are:</p> <ul style="list-style-type: none"> • FORWARD ALL: Unconditionally forwards the calls to another number; • MISSED CALL: Shows unanswered calls to this phone; • NEXTSCR: Toggles among idle screen, weather and IP Address; • REDIAL: Redials the last dialed out number.

Table 5: GXP1400/GXP1405 LCD ICONS


	Registration Status: Registered.
	Registration Status: Not Registered.
	Handset Status. OFF - handset on hook ON - handset off hook






	Speaker Status. OFF - speaker off ON - speaker on
	Headset Status. OFF - headset off ON - headset on
	DND Status. OFF - Do Not Disturb disabled ON - Do Not Disturb enabled
	Call Forward Status. OFF - Call Forward feature disabled ON - Call Forward feature enabled
	MUTE Status. OFF - The active call is not muted ON - The active call is muted
	SRTP Status. OFF - SRTP is not used ON - SRTP is used

GETTING FAMILAR WITH THE KEYPAD

The following table describes the buttons used on the GXP1400/GXP1405 keypad.

Table 6: GXP1400/GXP1405 KEYPAD DEFINITIONS



HOLD	Place active call on hold, or resume the call on hold.
TRANSFER	Transfer an active call to another number.
CONF	Establish 3-way conference with other 2 parties.
LINE 1/LINE 2	Switch between line 1 and line 2.
	Mute. Press to mute/unmute an active call.

	Headset.
	Speaker.
	Send/Redial. <ul style="list-style-type: none"> • Send. Enter the digits and then press Send to dial out the number; • Redial. Redial when there is a previously dialed call.
	Navigation Keys/Menu. <ul style="list-style-type: none"> • Press the 4 navigation keys to move up/down/left/right; • Press the round button in the center to enter Keypad Configuration MENU when phone is in idle; • The round button "MENU" can also be used as ENTER key when in Keypad Configuration.
	Volume. Press "-" or "+" to adjust the volume.
0 - 9, *, #	Standard phone keypad.

MAKING PHONE CALLS

HANDSET, SPEAKER AND HEADSET MODE

The GXP1400/GXP1405 allows users to switch among handset, speaker or headset when making calls.

Press the Hook Switch to switch to handset; press the Headset button  to switch to headset; or press the Speaker button  to switch to speaker.

2 SIP ACCOUNTS AND LINES

GXP1400/GXP1405 can support up to 2 independent SIP accounts. Each account is capable of independent SIP server, user and NAT settings. Each of the line buttons is "virtually" mapped to an individual SIP account. In off hook state, select an idle line and the dial tone will be heard.

To make a call, select the line you wish to use. The corresponding LINE LED will light up in green. The user can switch lines before dialing any number by pressing the LINE buttons.

For example: If 2 independent accounts are registered on GXP1400/GXP1405, when LINE 1 is pressed, the LINE 1 LED will light up in green. If LINE 2 is pressed, the LINE 2 LED will light up in green and the subsequent call will be made through SIP account 2.

Incoming calls to a specific account will attempt to use its corresponding LINE if it is not in use. When the “virtually” mapped line is in use, the GXP1400/GXP1405 will flash the other available LINE in red. A line is ACTIVE when it is in use and the corresponding LED is red.

COMPLETING CALLS

There are several ways to complete a call on GXP1400/GXP1405.

- **On hook dialing.** Enter the number when the phone is on hook and then send out.
 - When the phone is in idle, enter the number to be dialed out;
 - Take handset off hook; or
Press Speaker button; or
Press Headset button with headset plugged in; or
Select an available LINE key;
 - The call will be dialed out.
- **Off hook and dial.** Off hook the phone, enter the number and send out.
 - Take handset off hook; or
Press Speaker button; or
Press Headset button with headset plugged in; or
Press an available LINE key to activate speaker;
 - You shall hear dial tone after off hook;
 - Enter the number;
 - Press SEND key or # to dial out.
- **Redial.** Redial the last dialed number.
 - Take handset off hook; or
Press Speaker button; or
Press Headset button with headset plugged in; or
Press an available LINE key to activate speaker; or
When the phone is in idle;
 - Press SEND key, or the REDIAL softkey.
- **Via Call History.** Dial the number logged in phone's call history.

- Press MENU button to bring up the main menu;
 - Enter Call History and select "Answered Calls", "Missed Calls", "Transferred Calls" or "Forwarded Calls";
 - Select the entry you would like to call using the navigation arrow keys;
 - Press SEND button to dial out.
- **Via Phonebook.** Dial the number from the phonebook.
 - Press MENU button to bring up the main menu;
 - Select and enter Phonebook;
 - Select the phonebook entry you would like to call using the navigation arrow keys. Press MENU button to enter the entry detail;
 - Select option "Dial" using the navigation arrow keys and then press MENU button again to dial out.
- **Speed Dial.** Dial the number configured as Speed Dial on Line Key.
 - Go to GXP1400/GXP1405 Web GUI->Basic Settings, configure the Line Key's Key Mode as Speed Dial. Select the account to dial from, enter the Name and User ID (the number to be dialed out) for the Line Key. Click on "Update" at the bottom of the Web GUI page;
 - Off hook the phone, or directly press the Speed Dial key to dial out.
- **Call Return.** Dial the last answered call.
 - Go to GXP1400/GXP1405 Web GUI->Basic Settings, configure the Line Key's Key Mode as Call Return. Select the account to dial from, no Name or User ID has to be set on for Call Return;
 - Off hook the phone, or directly press the Call Return key to dial out.
- **Via Page/Intercom.**
 - Take handset off hook; or
Press Speaker button; or
Press Headset button with headset plugged in; or
Press an available LINE key to activate speaker;
 - You shall hear dial tone after off hook;
 - Press MENU button to switch the call screen from "Line x: Account x DIAL" to "Line x: Account x Paging";
 - Enter the number;
 - Press SEND key or # to dial out.

Note:

- After entering the number, the phone waits for the No Key Entry Timeout (Default timeout is 4 seconds, configurable via Web GUI) before dialing out. Press SEND or # key to override the No Key Entry Timeout;

- If digits have been entered after handset is off hook, the SEND key will work as SEND instead of REDIAL;
- By default, # can be used as SEND to dial the number out. Users could disable it by setting "User # as Dial Key" to "No" from Web GUI->Account page;
- For Paging/Intercom, if the SIP Server/PBX supports the feature and has Paging/Intercom feature code set up already, users might not necessarily need toggle to paging mode in the call screen on GXP1400/GXP1405. Simply dial the feature code with extension as a normal call.

MAKING CALLS USING IP ADDRESSES

Direct IP Call allows two phones to talk to each other in an ad-hoc fashion without a SIP proxy. VoIP calls can be made between two phones if:

- Both phones have public IP addresses; or
- Both phones are on the same LAN/VPN using private or public IP addresses; or
- Both phones can be connected through a router using public or private IP addresses (with necessary port forwarding or DMZ).

To make a direct IP call, please follow the steps below:

- Press MENU button to bring up main menu;
- Select "Direct IP Call" using the navigation arrow keys;
- Press MENU to enter the Direct IP Call mode;
- Input the 12-digit target IP address (Please see example below);
- Press the "More" softkey to make sure the softkey selection "IPv4" or "IPv6" is correctly selected depending on your network environment;
- Press "OK" softkey to dial.

For example:

If the target IP address is 192.168.1.60 and the port is 5062 (i.e., 192.168.1.60:5062), input the following: 192*168*1*60#5062. The * key represents the dot (.), the # key represents colon (:). Wait for about 4 seconds and the phone will initiate the call.

Quick IP Call Mode:

The GXP1400/GXP1405 also supports Quick IP Call mode. This enables the phone to make direct IP calls using only the last few digits (last octet) of the target phone's IP address. This is possible only if both

phones are under the same LAN/VPN. This simulates a PBX function using the CMSA/CD without a SIP server. Controlled static IP usage is recommended.

To enable Quick IP Call Mode, go to GXP1400/GXP1405 Web GUI->Advanced Setting page, set "Use Quick IP Call Mode" to "Yes". Click on "Update" on the bottom of the Web GUI page to take the change. To make Quick IP Call, take the phone off hook first. Then dial #xxx where x is 0-9 and xxx<255. Press # or SEND and a direct IP call to aaa.bbb.ccc.XXX will be completed. "aaa.bbb.ccc" is from the local IP address regardless of subnet mask. The number #xx or #x are also valid. The leading 0 is not required (but it's OK).

For example:

- 192.168.0.2 calling 192.168.0.3 -- dial #3 followed by # or "SEND";
- 192.168.0.2 calling 192.168.0.23 -- dial #23 followed by # "SEND";
- 192.168.0.2 calling 192.168.0.123 -- dial #123 followed by # "SEND";
- 192.168.0.2: dial #3 and #03 and #003 results in the same call -- call 192.168.0.3.

Note:

- The # will represent colon ":" in direct IP call rather than SEND key as in normal phone call;
- If you have a SIP server configured, direct IP call still works. If you are using STUN, direct IP call will also use STUN;
- Configure the "User Random Port" to "No" when completing direct IP calls.

ANSWERING PHONE CALLS

RECEIVING CALLS

- **Single incoming call.** Phone rings with selected ring tone. The corresponding LINE key will flash in red. Answer call by taking handset off hook, or using Speaker/Headset, or pressing the flashing LINE key;
- **Multiple incoming calls.** When another call comes in while having an active call, the phone will produce a Call Waiting tone (stutter tone). The other LINE key will flash in red. Answer the incoming call by pressing the flashing LINE key. The current active call will be put on hold automatically.

DO NOT DISTURB

Do Not Disturb can be enabled/disabled by pressing the MUTE/DND button on the phone when the phone

is in idle. Or users could set it from phone's Menu following the steps below:

- Press the Menu button and select "Preference" using navigation keys;
- Press Menu button again to get into Preference options;
- Select "Do Not Disturb" and press Menu button;
- Use arrow keys to select and press Menu button to enable or disable "Do Not Disturb" feature.

When Do Not Disturb feature is turned on, the DND icon will appear on the right side of the LCD. The incoming call will not be accepted or directly go into voicemail.

DURING A PHONE CALL

CALL WAITING/CALL HOLD

- **Hold.** Place a call on hold by pressing the HOLD button. The active LINE key will blink in green;
- **Resume.** Resume call by pressing the blinking LINE key;
- **Multiple calls.** Automatically place active call on hold or switch between two calls by pressing the LINE key. Call waiting tone (stutter tone) will be audible on incoming call during the active call.

MUTE

During an active call, press the MUTE button to mute/unmute the microphone. The LCD will show "LINE: TALKING" or "LINE: MUTE" to indicate the mute status, with Mute icon displayed on the right side of the screen.

CALL TRANSFER

GXP1400/GXP1405 supports Blind Transfer, Attended Transfer and Auto-Attended Transfer.

- **Blind Transfer.**
 - During the first active call, press TRAN key and dial the number to transfer to;
 - Press SEND key or # to complete transfer of active call.
- **Attended Transfer.**

- During the first active call, press LINE key. The first call will be put on hold;
 - Enter the number for the second call in the new line and establish the call;
 - Press TRAN key;
 - Press the other LINE key which is on hold to transfer the call.
- **Auto-Attended Transfer.**
 - Set "Auto-Attended Transfer" to "Yes" under Web GUI->Advanced Settings page. And then click "Update" on the bottom of the page;
 - Establish one call first;
 - During the call, press TRAN key. A new line will be brought up and the first call will be automatically placed on hold;
 - Enter the number and press SEND key to establish the second call;
 - After the second call is established, press TRAN key again. The call will be transferred;
 - If users press the SPLIT softkey before the call is transferred in the step above, the second call will be resumed.

Note:

- To transfer calls across SIP domains, SIP service providers must support transfer across SIP domains.
- In auto-attended transfer, use SEND key to dial out the second call instead of using #, even when # could be used as SEND in normal phone calls.

3-WAY CONFERENCING

GXP1400/GXP1405 can host 3-way conference call with another 2 parties.

- **Initiate a conference call.**
 - Establish 2 calls with 2 parties respectively;
 - While 1 call is active, the other call will be put on hold with its LINE key blinking in green;
 - Press CONF key;
 - Press the LINE key on hold, 3-way conference will be established.
- **Cancel Conference.**

- If after press the CONF key, the user decides not to conference, press Cancel softkey or the current active LINE key;
- This will resume the 2-way conversation with the current line.

- **Split and Re-conference.**

- During the 3-way conference, press HOLD key. The conference call will be split and both calls will be put on hold separately with 2 LINE keys blinking in green;
- Select 1 LINE key and press to resume the 2-way conversation;
- If users would like to re-establish conference call, before 1 separate LINE is selected, press the ReConf softkey right after the conference call is split.

- **End Conference.**

- Press HOLD key to split the conference call. The conference call will be ended with both calls on hold; Or
- Users could press the EndCall softkey or simply hang up the call to terminate the conference call.

GXP1400/GXP1405 supports **Easy Conference Mode**, which can be used combined with the traditional way to establish the conference.

- **Initiate a conference call.**

- Establish 1 call;
- Press CONF key and a new line will be brought up using the same account;
- Dial the number and press SEND key to establish the second call;
- Press CONF key or press the ConfCall softkey to establish the conference.

- **Split and Re-conference.**

- During the 3-way conference, press HOLD key. The conference call will be split and both calls will be put on hold separately with 2 LINE keys blinking in green;
- Select 1 LINE key and press to resume the 2-way conversation;
- If users would like to re-establish conference call, before 1 separate LINE is selected, press the ReConf softkey right after the conference call is split.

- **Cancel Conference.**

- If users decides not to conference after establishing the second call, press EndCall softkey instead

of the ConfCall softkey/CONF key;

- This will end the second call and the screen will show the first call on hold.

- **End Conference.**

- Press HOLD key to split the conference call. The conference call will be ended with both calls on hold; Or
- Users could press the EndCall softkey or simply hang up the call to terminate the conference call.

Note:

- The party that starts the conference call has to remain in the conference for its entire duration, you can put the party on mute but it must remain in the conversation. Also, this is not applicable when the feature "Transfer on call hangup" is turned on.
- The option "Disable Conference" has to be set to "No" to establish conference.
- When using **Easy Conference Mode**, use SEND key to dial out the second call instead of using #, even when # could be used as SEND in normal phone calls.

VOICE MESSAGES (MESSAGE WAITING INDICATOR)

A blinking red MWI (Message Waiting Indicator) on the top right corner of the GXP1400/GXP1405 indicates a message is waiting. Dial into the voicemail box to retrieve the message by entering the voice mail number of the server or pressing the VMsg softkey (Voice Mail User ID has to be properly configured as the voice mail number under Web GUI->Account page). An IVR will prompt the user through the process of message retrieval.

SHARED CALL APPEARANCE (SCA)

The GXP1400/GXP1405 phone supports shared call appearance by Broadsoft standard. This feature allows members of the SCA group to shared SIP lines and provides status monitoring (idle, active, progressing, hold) of the shared line. When there is an incoming call designated for the SCA group, all of the members of the group will be notified of an incoming call and will be able to answer the call from the phone with the SCA extension registered.

All the users that belong to the same SCA group will be notified by visual indicator when a user seizes the line and places an outgoing call, and all the users of this group will not be able to seize the line until the line goes back to an idle state or when the call is placed on hold (with the exception of when multiple call appearances are enabled on the server side).

In the middle of the conversation, there are two types of hold: Public Hold and Private Hold. When a member of the group places the call on public hold, the other users of the SCA group will be notified of this by the red-flashing button and they will be able to resume the call from their phone by pressing the line button. However, if this call is placed on private-hold, no other member of the SCA group will be able to resume that call.

To enable shared call appearance, the user would need to register the shared line account on the phone. In addition, they would need to navigate to "Settings"->"Basic Settings" on the web UI and set the line to "Shared Line". If the user requires more shared call appearances, the user can configure multiple line buttons to be "shared line" buttons associated with the account.

CALL FEATURES

The GXP1400/GXP1405 supports traditional and advanced telephony features including caller ID, caller ID with caller Name, call forward and etc.

Table 7: CALL FEATURES

*30	Block Caller ID (for all subsequent calls) <ul style="list-style-type: none"> Off hook the phone; Dial *30.
*31	Send Caller ID (for all subsequent calls) <ul style="list-style-type: none"> Off hook the phone; Dial *31.
*67	Block Caller ID (per call) <ul style="list-style-type: none"> Off hook the phone; Dial *67 and then enter the number to dial out.
*82	Send Caller ID (per call) <ul style="list-style-type: none"> Off hook the phone; Dial *82 and then enter the number to dial out.
*70	Disable Call Waiting (per Call) <ul style="list-style-type: none"> Off hook the phone; Dial *70 and then enter the number to dial out.

*71	Enable Call Waiting (per Call) <ul style="list-style-type: none"> Off hook the phone; Dial *71 and then enter the number to dial out.
*72	Unconditional Call Forward. To set up unconditional call forward: <ul style="list-style-type: none"> Off hook the phone; Dial *72 and then enter the number to forward the call; Press OK softkey or SEND key.
*73	Cancel Unconditional Call Forward. To cancel the unconditional call forward: <ul style="list-style-type: none"> Off hook the phone; Dial *73; Hang up the call.
*90	Busy Call Forward. To set up busy call forward: <ul style="list-style-type: none"> Off hook the phone; Dial *90 and then enter the number to forward the call; Press OK softkey or SEND key.
*91	Cancel Busy Call Forward. To cancel the busy call forward: <ul style="list-style-type: none"> Off hook the phone; Dial *91; Hang up the call.
*92	Delayed Call Forward. To set up delayed call forward: <ul style="list-style-type: none"> Off hook the phone; Dial *92 and then enter the number to forward the call; Press OK softkey or SEND key.
*93	Cancel Delayed Call Forward. To cancel the delayed call forward: <ul style="list-style-type: none"> Off hook the phone; Dial *93; Hang up the call.

CUSTOMIZED LCD SCREEN & XML

The GXP1400/GXP1405 IP phone supports the following XML applications. Please refer to the corresponding link for documentation and templates.

- XML custom idle screen (customize idle screen logo, softkey layout, and etc.)

http://www.grandstream.com/products/gxp_series/general/documents/GXP140x_XML_Screen_Customization.zip

- XML downloadable phonebook

http://www.grandstream.com/products/gxp_series/general/documents/gxp_wp_xml_phonebook.pdf

CONFIGURATION GUIDE

The GXP1400/GXP1405 can be configured via two ways:

- LCD Configuration Menu using the phone's keypad;
- Web GUI embedded on the phone using PC's web browser.

CONFIGURATION VIA KEYPAD

To configure via the LCD configuration menu using phone's keypad, follow the instructions below:

- **Enter MENU options.** When the phone is in idle, press the round MENU button to enter the configuration menu;
- **Navigate in the menu options.** Press the arrow keys up/down/left/right to navigate in the menu options;
- **Enter/Confirm selection.** Press the round MENU button to enter the selected option;
- **Exit.** Press LEFT arrow key to exit to the previous menu;
- The phone automatically exits MENU mode with an incoming call, when the phone is off hook or the MENU mode if left idle for more than 20 seconds.

The MENU options are listed in the following table.

Table 8: GXP1400/GXP1405 CONFIGURATION MENU

Call History	Displays call logs for answered calls, dialed calls, missed calls, transferred calls and forwarded calls.
Status	Displays network status, account registration status, software version number, MAC address, hardware version number, P/N number. <ul style="list-style-type: none"> • Network status. Press to enter the sub menu for IP setting information (DHCP/Static IP/PPPoE), IPv4 address, IPv6 address, Subnet Mask, Gateway and DNS server.
Phone Book	Displays phonebook. Users could add, edit, search and delete contacts here, or download phonebook XML to the phone.
LDAP Directory	Configures LDAP directory options, displays LDAP directory by

	searching.
Instant Messages	Displays received instant messages.
Direct IP Call	Makes direct IP call.
Preference	<p>Preference sub menu includes the following options:</p> <ul style="list-style-type: none"> • Do Not Disturb Enables/disables Do Not Disturb on the phone. • Forward Call Configures call forward feature on selected account, forward type and number. • Ring Tone Configures different ring tones for incoming call. • Ring Volume Adjusts ring volume by pressing left/right arrow key. • LCD Contrast Adjusts LCD contrast by pressing left/right arrow key. • Download SCR XML Triggers the phone to download the XML idle screen file immediately. The XML idle screen server path and downloading method need to be set up correctly in Web GUI->Advanced Settings. • Erase Custom SCR Erases custom XML idle screen previously loaded on the phone. After erasing it, the phone will show default idle screen. • Display Language Selects the language to be displayed on the phone. Users could select Automatic for local language based on IP location if available. • Time Settings Configures date and time on the phone.
Config	<p>Config sub menu includes the following options:</p> <ul style="list-style-type: none"> • SIP Configures SIP Proxy, Outbound Proxy, SIP User ID, SIP Auth ID, SIP Password, SIP Transport and Audio information to register SIP account on the phone.

	<ul style="list-style-type: none"> • Upgrade Configures firmware server and config server for upgrading and provisioning the phone. • Factory Reset Resets the phone to factory default settings. • Layer 2 QoS Configures 802.1Q/VLAN Tag and priority value.
Factory Functions	<p>Factory Functions sub menu includes the following options:</p> <ul style="list-style-type: none"> • Audio Loopback Speak to the phone using speaker/handset/headset. If you can hear your voice, your audio is working fine. Press Menu button to exit audio loopback mode. • Diagnostic Mode All LEDs will light up. Press any key (except MENU key) on the keypad to display the button name in the LCD. Lift and put back the handset or press Menu button to exit diagnostic mode.
Network	Selects IP mode (DHCP/Static IP/PPPoE); Configures PPPoE account ID and password; Configures IP address, Netmask, Gateway, DNS Server 1 and DNS Server 2; Configures 802.1x mode.
Call Features	Configures call forward features for Forward All, Forward Busy, Forward No Answer and No Answer Timeout.
Voice Mails	Displays voicemail message information in the format below: new messages/all messages (urgent messages/all urgent messages)
Reboot	Reboot the phone.
Exit	Exit from this menu.

The following picture shows the keypad MENU configuration flow on GXP1400/GXP1405.

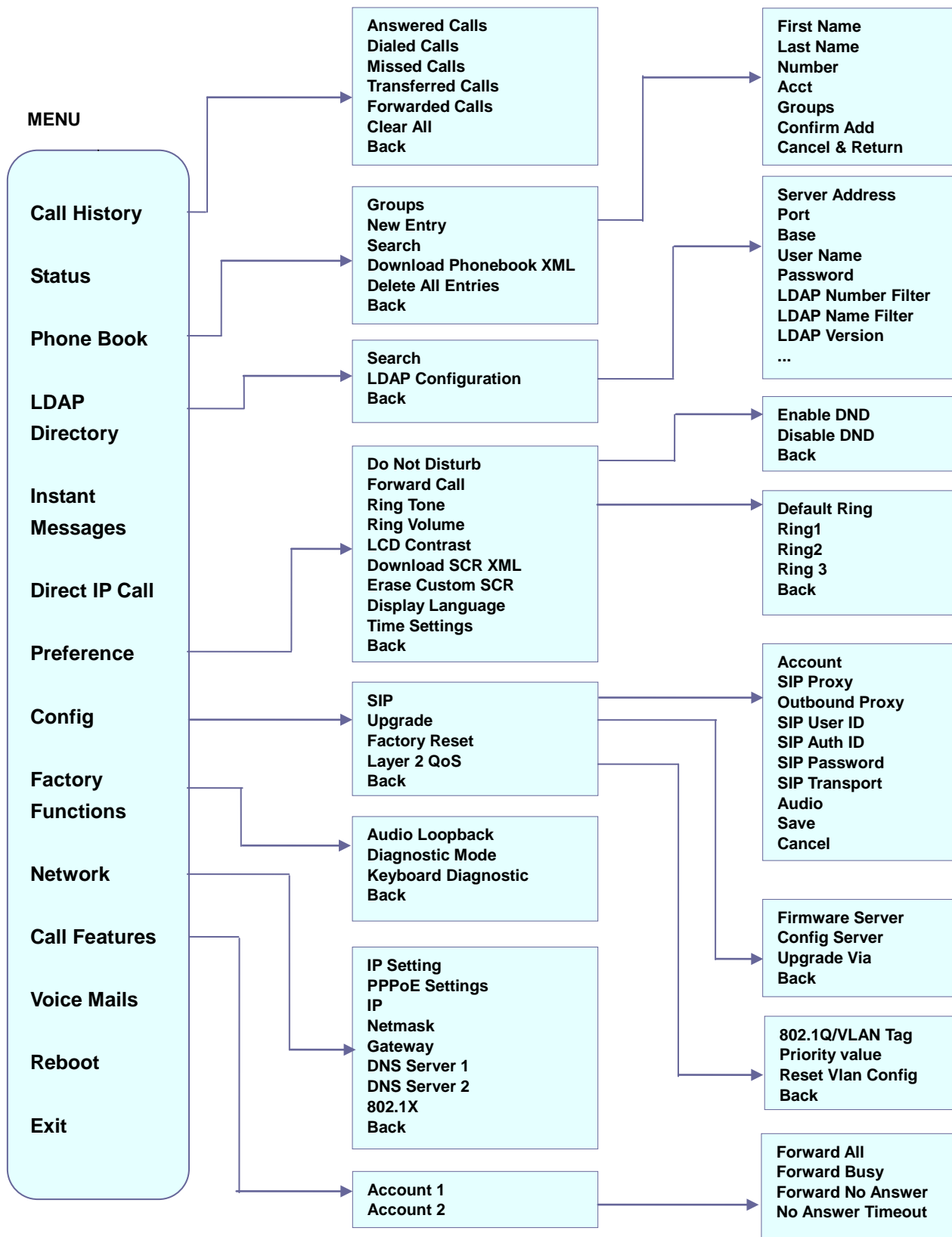


Figure 2: GXP1400/GXP1405 Keypad MENU Flow

CONFIGURATION VIA WEB BROWSER

The GXP1400/GXP1405 embedded Web server responds to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow a user to configure the IP phone through a Web browser such as Microsoft's IE, Mozilla Firefox and Google Chrome.

To access the GXP1400/GXP1405 Web GUI:

1. Connect the computer to the same network as the phone;
2. Make sure the phone is turned on and shows its IP address. You may check the IP address by pressing NextScr softkey or go to MENU->Status;
3. Open a Web browser on your computer;
4. Enter the phone's IP address in the address bar of the browser;
5. Enter the administrator's login and password to access the Web Configuration Menu.

Note:

- The computer has to be connected to the same sub-network as the phone. This can be easily done by connecting the computer to the same hub or switch as the phone connected to. In absence of a hub/switch (or free ports on the hub/switch), please connect the computer directly to the PC port on the back of the phone;
- If the phone is properly connected to a working Internet connection, the IP address of the phone will display in MENU->Status. This address has the format: xxx.xxx.xxx.xxx, where xxx stands for a number from 0-255. Users will need this number to access the Web GUI. For example, if the phone has IP address 192.168.40.154, please enter "http://192.168.40.154" in the address bar of the browser;
- The default login name for the administrator is "admin". The default administrator password is set to "admin". The default login name for the end user is "user" while the default user password is set to "123".
- When changing any settings, always SUBMIT them by pressing the **UPDATE** button on the bottom of the page. After submitting the changes in all the Web GUI pages, reboot the phone to have the changes take effect if necessary. All the options under Basic Setting and Account Setting, and most of the options under Advanced Settings do not require reboot after submitting the changes. Under Advanced Setting, the parameters on network configuration require reboot after update.

DEFINITIONS

This section describes the options in the GXP1400/GXP1405 Web GUI. As mentioned, you can log in as an administrator or an end user.

- **Status:** Displays the Account status, Network status, and System Info of the phone;
- **Account:** To configure the SIP account;
- **Basic Settings:** To configure basic network settings, time settings, Line keys, and etc;
- **Advanced Settings:** To configure advanced network settings, upgrading and provisioning, language settings, call features, and etc.

STATUS PAGE DEFINITIONS

MAC Address	Global unique ID of device, in HEX format. The MAC address will be used for provisioning and can be found on the label coming with original box and on the label located on the back of the device.
IPv4 Address	The IPv4 address obtained on the phone.
IPv6 Address	The IPv6 address obtained on the phone.
Product Model	Product model of the phone.
Part Number	Product part number.
Software Version	<ul style="list-style-type: none"> • boot: boot version number; • core: core version number; • base: base version number; • prog: program version number. This is the main firmware release number, which is always used for identifying the software system of the phone; • dsp: DSP version number.
System Up Time	System up time since the last reboot.
System Time	Current system time on the phone system.
Registered	SIP account registration status.
PPPoE Link Up	PPPoE connection status.
Service Status	GUI and Phone service status: running or stopped.
Core Dump	Core dump file that could be downloaded for troubleshooting purpose.

ACCOUNT PAGE DEFINITIONS

Account Active	This field indicates whether the account is active. The default setting is "Yes".
Account Name	The name associated with the SIP account.
SIP Server	The URL or IP address, and port of the SIP server. This is provided by your VoIP service provider (ITSP).
Secondary SIP Server	The URL or IP address, and port of the SIP server. This will be used when the primary SIP server fails.
Outbound Proxy	IP address or Domain name of the Primary Outbound Proxy, Media Gateway, or Session Border Controller. It's used by the phone for Firewall or NAT penetration in different network environments. If a symmetric NAT is detected, STUN will not work and ONLY an Outbound Proxy can provide a solution.
SIP User ID	User account information, provided by your VoIP service provider (ITSP). It's usually in the form of digits similar to phone number or actually a phone number.
Authenticate ID	SIP service subscriber's Authenticate ID used for authentication. It can be identical to or different from the SIP User ID.
Authenticate Password	The account password required for the phone to authenticate with the ITSP (SIP) server before the account can be registered. After it is saved, this will appear as hidden for security purpose.
Name	The SIP server subscriber's name (optional) that will be used for Caller ID display.
DNS Mode	<p>This parameter controls how the Search Appliance looks up IP addresses for hostnames. There are four modes: A Record, SRV, NATPTR/SRV, Use Configured IP. The default setting is "A Record". If the user wishes to locate the server by DNS SRV, the user may select "SRV" or "NATPTR/SRV". If "Use Configured IP" is selected, please fill in the three fields below:</p> <ul style="list-style-type: none"> • Primary IP: The primary IP address where the phone sends DNS query to; • Backup IP 1; • Backup IP 2.
TEL URI	If the phone has an assigned PSTN telephone number, this field should be set to "User=Phone". Then a "User=Phone" parameter will be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number. If set to "Enable", "Tel:" will be used instead

	of "SIP:" in the SIP request. The default setting is "Disable".
SIP Registration	Selects whether or not the phone will send SIP Register messages to the proxy/server. The default setting is "Yes".
Unregister On Reboot	If set to "Yes", the SIP user's registration information will be cleared when the phone reboots. The SIP Contact header will contain "*" to notify the server to unbind the connection. The default setting is "No".
Register Expiration	Specifies the frequency (in minutes) in which the phone refreshes its registration with the specified registrar. The default value is 60 minutes. The maximum value is 64800 minutes (about 45 days).
Reregister Before Expiration	Specifies the time frequency (in seconds) that the phone sends re-registration request before the Register Expiration. The default value is 0.
Local SIP Port	Defines the local SIP port used to listen and transmit. The default value is 5060 for Account 1 and 5062 for Account 2.
SIP Registration Failure Retry Wait Time	Specifies the interval to retry registration if the process is failed. The default value is 20 seconds.
SIP T1 Timeout	SIP T1 Timeout. The default setting is 0.5 seconds.
SIP T2 interval	SIP T2 Interval. The default setting is 4 seconds.
SIP Transport	Determines the network protocol used for the SIP transport. Users can choose from TCP, UDP and TLS.
SIP URI Scheme when using TLS	Specifies if "sip:" or "sips:" will be used when TLS/TCP is selected for SIP Transport. The default setting is "sips:".
Use Actual Ephemeral Port in Contact with TCP/TLS	Defines whether the actual ephemeral port in contact with TCP/TLS will be used or not. This is used when TLS/TCP is selected for SIP Transfer. The default setting is "No".
Check Domain Certificates	Defines whether the domain certificates will be checked or not when TLS/TCP is used for SIP Transport. The default setting is "No".
Remove OBP from route	Configures to remove outbound proxy from route. This is used for the SIP Extension to notify the SIP server that the device is behind a NAT/Firewall.
Validate Incoming Messages	Defines whether the incoming messages will be validated or not. The default setting is "No".
Support SIP Instance ID	Defines whether SIP Instance ID is supported or not. The default setting is "Yes".
NAT Traversal	This parameter configures whether the NAT traversal mechanism is activated. Users could select the mechanism from No, STUN, Keep-Alive, UPnP, Auto or VPN. If set to "STUN" and STUN server is

	<p>configured, the phone will route according to the STUN server. If NAT type is Full Cone, Restricted Cone or Port-Restricted Cone, the phone will try to use public IP addresses and port number in all the SIP&SDP messages. The phone will send empty SDP packet to the SIP server periodically to keep the NAT port open if it is configured to be "Keep-Alive". Configure this to be "No" if an outbound proxy is used. "STUN" cannot be used if the detected NAT is symmetric NAT.</p>
SUBSCRIBE for MWI	<p>When set to "Yes", a SUBSCRIBE for Message Waiting Indication will be sent periodically. The phone supports synchronized and non-synchronized MWI. The default setting is "No".</p>
SUBSCRIBE for Registration	<p>When set to "Yes", a SUBSCRIBE for Registration will be sent out periodically. The default setting is "No".</p>
Feature Key Synchronization	<p>This feature is used for Broadsoft call feature synchronization. When it's enabled, DND and Call Forward features can be synchronized with Broadsoft server. The default setting is "Disabled".</p>
Proxy-Require	<p>A SIP Extension to notify the SIP server that the phone is behind a NAT/Firewall. Do not configure this parameter unless this feature is supported on the SIP server.</p>
Voice Mail UserID	<p>Allows you to access voice messages by pressing the MESSAGE button on the phone. This ID is usually the VM portal access number. For example, in Asterisk server, 8500 could be used.</p>
Send DTMF	<p>Specifies the mechanism to transmit DTMF digits. There are 3 supported modes: in audio which means DTMF is combined in the audio signal (not very reliable with low-bit-rate codecs), via RTP (RFC2833), or via SIP INFO.</p>
DTMF Payload Type	<p>Configures the payload type for DTMF using RFC2833. The default value is 101.</p>
Early Dial	<p>Selects whether or not to enable early dial. If it's set to "Yes", the SIP proxy must support 484 response. The default setting is "No".</p>
Dial Plan Prefix	<p>Sets the prefix added to each dialed number.</p>
Dial Plan	<p>A dial plan establishes the expected number and pattern of digits for a telephone number. This parameter configures the allowed dial plan for the phone.</p> <p>Dial Plan Rules:</p> <ol style="list-style-type: none"> 1. Accepted Digits: 1,2,3,4,5,6,7,8,9,0 , * , #, A,a,B,b,C,c,D,d; 2. Grammar: x - any digit from 0-9; <ol style="list-style-type: none"> a) xx+ - at least 2 digit numbers

- b) xx. - only 2 digit numbers
- c) ^ - exclude
- d) [3-5] - any digit of 3, 4, or 5
- e) [147] - any digit of 1, 4, or 7
- f) <2=011> - replace digit 2 with 011 when dialing
- g) | - the OR operand

- Example 1: {[369]11 | 1617xxxxxxx}

Allow 311, 611, and 911 or any 10 digit numbers with leading digits 1617;

- Example 2: {^1900x+ | <=1617>xxxxxxx}

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

- Example 3: {1xxx[2-9]xxxxxx | <2=011>x+}

Allows any number with leading digit 1 followed by a 3 digit number, followed by any number between 2 and 9, followed by any 7 digit number OR Allows any length of numbers with leading digit 2, replacing the 2 with 011 when dialed.

Example of a simple dial plan used in a Home/Office in the US:

```
{ ^1900x. | <=1617>[2-9]xxxxxx | 1[2-9]xx[2-9]xxxxxx | 011[2-9]x. |
[3469]11 }
```

Explanation of example rule (reading from left to right):

- ^1900x. - prevents dialing any number started with 1900;
- <=1617>[2-9]xxxxxx - allows dialing to local area code (617) numbers by dialing 7 numbers and 1617 area code will be added automatically;
- 1[2-9]xx[2-9]xxxxxx |- allows dialing to any US/Canada Number with 11 digits length;
- 011[2-9]x - allows international calls starting with 011;
- [3469]11 - allows dialing special and emergency numbers 311, 411, 611 and 911.

Note:

In some cases where the user wishes to dial strings such as *123 to activate voice mail or other applications provided by their service provider, the * should be predefined inside the dial plan feature. An example dial plan will be: { *x+ } which allows the user to dial * followed

	by any length of numbers.
Delayed Call Forward Wait Time	Defines the timeout (in seconds) before the call is forwarded on no answer. The default value is 20 seconds.
Enable Call Features	When enabled, Do No Disturb, Call Forward and other call features will be supported locally provided ITSP support those features. The default setting is "Yes". If set to "No", ForwardAll softkey will be hidden for Account 1.
Call Log	Configures Call Log setting on the phone. You can log all calls, only log incoming/outgoing calls or disable call log. The default setting is "Log All Calls".
Session Expiration	The SIP Session Timer extension that enables SIP sessions to be periodically "refreshed" via a SIP request (UPDATE, or re-INVITE). If there is no refresh via an UPDATE or re-INVITE message, the session will be terminated once the session interval expires. Session Expiration is the time (in seconds) where the session is considered timed out, provided no successful session refresh transaction occurs beforehand. The default value is 180 seconds.
Min-SE	The minimum session expiration (in seconds). The default value is 90 seconds.
Caller Request Timer	If set to "Yes" and the remote party supports session timers, the phone will use a session timer when it makes outbound calls.
Callee Request Timer	If set to "Yes" and the remote party supports session timers, the phone will use a session timer when it receives inbound calls.
Force Timer	If Force Timer is set to "Yes", the phone will use the session timer even if the remote party does not support this feature. If Force Timer is set to "No", the phone will enable the session timer only when the remote party supports this feature. To turn off the session timer, select "No".
UAC Specify Refresher	As a Caller, select UAC to use the phone as the refresher; or select UAS to use the Callee or proxy server as the refresher.
UAS Specify Refresher	As a Callee, select UAC to use caller or proxy server as the refresher; or select UAS to use the phone as the refresher.
Force INVITE	The Session Timer can be refreshed using the INVITE method or the UPDATE method. Select "Yes" to use the INVITE method to refresh the session timer.
Enable 100rel	The use of the PRACK (Provisional Acknowledgment) method enables reliability to SIP provisional responses (1xx series). This is very important in order to support PSTN internetworking. To invoke a reliable

	provisional response, the 100rel tag is appended to the value of the required header of the initial signaling messages.
Account Ring Tone	Allows users to configure the ringtone for the account. Users can choose from different ringtones from the dropdown menu.
Matching Incoming Caller ID	<p>Specifies matching rules with number, pattern or Alert Info text. When the incoming caller ID or Alert Info matches the rule, the phone will ring with selected distinctive ringtone. Matching rules:</p> <ul style="list-style-type: none"> • Specific caller ID number. For example, 8321123; • A defined pattern with certain length using x and + to specify, where x could be any digit from 0 to 9. Samples: <ul style="list-style-type: none"> xx+ : at least 2-digit number; xx : only 2-digit number; [345]xx: 3-digit number with the leading digit of 3, 4 or 5; [6-9]xx: 3-digit number with the leading digit from 6 to 9. • Alert Info text <p>Users could configure the matching rule as certain text (e.g., priority) and select the custom ring tone mapped to it. The custom ring tone will be used if the phone receives SIP INVITE with Alert-Info header in the following format:</p> <p>Alert-Info: <http://127.0.0.1>; info=priority</p>
Distinctive Ringtones	Selects the distinctive ring tone for the matching rule. When the incoming caller ID or Alert Info matches the rule, the phone will ring with the selected ring.
Ring Timeout	Defines the timeout (in seconds) for the rings on no answer. The default setting is 60 seconds.
Line Seize Timeout	Defines the interval (in seconds) before the line can be seized when Shared Line is used. The default value is 15 seconds.
Send Anonymous	If set to "Yes", the "From" header in outgoing INVITE messages will be set to anonymous, essentially blocking the Caller ID to be displayed.
Anonymous Call Rejection	If set to "Yes", anonymous calls will be rejected. The default setting is "No".
Auto Answer	If set to "Yes", the phone will automatically turn on the speaker phone to answer incoming calls after a short reminding beep.
Allow Auto Answer by Call-Info	If set to "Yes", the phone will automatically turn on the speaker phone to answer incoming calls after a short reminding beep, based on the SIP info header sent from the server/proxy. The default setting is "No".
Refer-To Use Target Contact	If set to "Yes", the "Refer-To" header uses the transferred target's Contact header information for attended transfer. The default setting is

	"No".
Transfer on Conference Hangup	Defines whether or not the call is transferred to the other party if the initiator of the conference hangs up. The default setting is "No".
Check SIP User ID for incoming INVITE	If set to "Yes", SIP User ID will be checked in the Request URI of the incoming INVITE. If it doesn't match the phone's SIP User ID, the call will be rejected. The default setting is "No".
Preferred Vocoder	7 different vocoder types are supported on the phone, including G.711 U-law (PCMU), G.711 A-law (PCMA), G.723.1, G.729A/B, G.722 (wide band), iLBC and G72-32. Users can configure vocoders in a preference list that is included with the same preference order in SDP message.
SRTP Mode	Enables the SRTP mode based on your selection. The default setting is "Disabled".
Symmetric RTP	Defines whether symmetric RTP is supported or not. The default setting is "No".
Silence Suppression	Controls the silence suppression/VAD feature of the audio codec G.723 and G.729. If set to "Yes", when silence is detected, a small quantity of VAD packets (instead of audio packets) will be sent during the period of no talking. If set to "No", this feature is disabled. The default setting is "No".
Voice Frames Per TX	Configures the number of voice frames transmitted per packet. When configuring this, it should be noted that the "ptime" value for the SDP will change with different configurations here. This value is related to the codec used and the actual frames transmitted during the in payload call. For end users, it is recommended to use the default setting, as incorrect settings may influence the audio quality.
No Key Entry Timeout (s)	Defines the timeout (in seconds) for no key entry. If no key is pressed after the timeout, the digits will be sent out. The default value is 4 seconds.
Use # as Dial Key	Allows users to configure the "#" key as the "Send" key. If set to "Yes", the "#" key will immediately dial out the input digits. In this case, this key is essentially equivalent to the "Send" key. If set to "No", the "#" key is included as part of the dialing string.
G723 Rate	Selects encoding rate for G723 codec. The default value is 5.3kbps.
G.726-32 Packing Mode	Selects "ITU" or "IETF" for G726-32 packing mode.
iLBC Frame Size	Selects iLBC packet frame size. The default value is 30ms.
iLBC Payload Type	Specifies iLBC Payload type. The default value is 97. The valid range is between 96 and 127.

Jitter Buffer Type	Selects either Fixed or Adaptive based on network conditions. The default setting is "Adaptive".
Jitter Buffer Length	Selects Low, Medium, or High based on network conditions. The default setting is "Medium".
Conference URI	Configures the conference URI when using Broadsoft N-way calling feature.
Special Feature	Different soft switch vendors have special requirements. Therefore users may need select special features to meet these requirements. Users can choose from Standard, Nortel MCS, Broadsoft, CBCOM, RNK, Sylanro or Huawei IMS depending on the server type. The default setting is "Standard".

SETTINGS/BASIC SETTINGS PAGE

End User Password	Allows the administrator to set the password for user-level web GUI access. This field is case sensitive with a maximum length of 30 characters.
Confirm Password	Confirms the end user password field to be the same as above.
Internet Protocol	Selects Prefer IPv4 or Prefer IPv6.
IPv4 Address Type	Allows users to configure the appropriate network settings on the phone to obtain IPv4 address. Users could select "DHCP", "Static IP" or "PPPoE". By default, it is set to "DHCP".
DHCP Host name (Option 12)	Specifies the name of the client. This field is optional but may be required by some Internet Service Providers.
DHCP Vendor Class ID (Option 60)	Used by clients and servers to exchange vendor class ID.
Allow DHCP Option 120 to override SIP Server	Enables DHCP Option 120 from local server to override the SIP Server on the phone. The default setting is "No".
PPPoE Account ID	Enter the PPPoE account ID.
PPPoE Password	Enter the PPPoE Password.
PPPoE Service Name	Enter the PPPoE Service Name.
IPv4 Address	Enter the IP address when static IP is used.
Subnet Mask	Enter the Subnet Mask when static IP is used for IPv4.
Gateway	Enter the Default Gateway when static IP is used for IPv4.
DNS Server 1	Enter the DNS Server 1 when static IP is used for IPv4.

DNS Server 2	Enter the DNS Server 2 when static IP is used for IPv4.
Preferred DNS Server	Enter the Preferred DNS Server for IPv4.
IPv6 Address Type	Allows users to configure the appropriate network settings on the phone to obtain IPv6 address. Users could select "Auto-configured" or "Statically configured" for the IPv6 address type.
Static IPv6 Address	Enter the static IPv6 address when Full Static is used in "Statically configured" IPv6 address type.
IPv6 Prefix Length	Enter the IPv6 prefix length when Full Static is used in "Statically configured" IPv6 address type.
IPv6 Prefix	Enter the IPv6 Prefix (64 bits) when Prefix Static is used in "Statically configured" IPv6 address type.
DNS Server 1	Enter the DNS Server 1 for IPv6.
DNS Server 2	Enter the DNS Server 2 for IPv6.
Preferred DNS server	Enter the Preferred DNS Server for IPv6.
802.1x mode	Allows the user to enable/disable 802.1x mode on the phone. The default value is disabled. To enable 802.1x mode, this field should be set to EAP-MD5.
Identity	Enter the Identity for the 802.1x mode.
MD5 Password	Enter the MD5 Password for the 802.1x mode.
HTTP Proxy	Specifies the HTTP proxy URL for the phone to send packets to. The proxy server will act as an intermediary to route the packets to the destination.
HTTPS Proxy	Specifies the HTTPS proxy URL for the phone to send packets to. The proxy server will act as an intermediary to route the packets to the destination.
Line Key X	<p>Assigns a function to the corresponding line key. The key mode options are:</p> <ul style="list-style-type: none"> • Line Regular line key to open up a line and switch line. The Name and UserID can be left blank. • Share Line Share line for Shared Line Appearance feature. Select the Account registered as Shared line for the line key. The Name and UserID can be left blank. • Speed Dial Select the Account to dial from. And enter the Speed Dial number in UserID field to be dialed.

	<ul style="list-style-type: none"> • Speed Dial via active account Similar to Speed Dial but it will dial based on the current active account. For example, if the phone is offhook and account 2 is active, it will call the configured Speed Dial number using account 2. • Dial DTMF Enter a series of DTMF digits in the UserID field to be dialed during the call. "Enable MPK Sending DTMF" (under Advanced Setting) has to be set to "Yes" first. • VMsg Select Account and enter the Voice Mail access number in the UserID field. • Call Return The last answered calls can be dialed out by using Call Return. The Name and UserID field should be left blank. Also, this option is not binding to the account and the call will be returned based on the account with the last answered call. • Transfer Select Account, and enter the number in the UserID field to be transferred (blind transfer) during the call. • Call Park Select Account, and enter the call park extension in the UserID field to park/pick up the call. • Intercom Select Account, and enter the extension number in the UserID field to do the intercom. • LDAP Search This option is to narrow the LDAP search scope. Enter the LDAP search base in the Name field. It could be the same or different from the Base in LDAP configuration under Advanced Settings. The Base in LDAP configuration will be used if the Name field is left blank. Enter the LDAP Name/Number filter in the UserID field.
Time Zone	Configures the date/time used on the phone according to the specified time zone.
Self-Defined Time Zone	<p>This parameter allows the users to define their own time zone. The syntax is: std offset dst [offset], start [/time], end [/time] Default is set to: MTZ+6MDT+5,M4.1.0,M11.1.0</p> <p>MTZ+6MDT+5 This indicates a time zone with 6 hours offset with 1 hour ahead which is</p>

	<p>U.S central time. If it is positive (+) if the local time zone is west of the Prime Meridian (A.K.A: International or Greenwich Meridian) and negative (-) if it is east.</p> <p>M4.1.0,M11.1.0</p> <p>The 1st number indicates Month: 1,2,3..., 12 (for Jan, Feb, ..., Dec)</p> <p>The 2nd number indicates the nth iteration of the weekday: (1st Sunday, 3rd Tuesday...)</p> <p>The 3rd number indicates weekday: 0,1,2,...,6(for Sun, Mon, Tues, ... ,Sat)</p> <p>Therefore, this example is the DST which starts from the First Sunday of April to the 1st Sunday of November.</p>
Enable Weather Update	Configures to enable or disable weather update on the phone. The default setting is "Yes". If set to "No", the weather information screen will not show.
City Code	Configures weather city code for the phone to look up the weather information. The default setting is "Automatic" and the weather information will be obtained based on the IP location of the phone if available. Otherwise, specify the self-defined city code. For example, USCA0638 is the city code for Los Angeles, CA, United States.
Update Interval	Specifies the weather update interval (in minutes). The default value is 15 minutes.
Degree Unit	Specifies the degree unit for the weather information to display on the phone.
LCD Contrast	Configures the LCD contrast level (from 0 to 20). The default value is 10.
Date Display Format	<p>Configures the date display format on the LCD. The following formats are supported:</p> <ul style="list-style-type: none"> • yyyy-mm-dd: 2012-07-02 • mm-dd-yyyy: 07-02-2012 • dd-mm-yyyy: 02-07-2012
Time Display Format	Configures the time display in 12-hour or 24-hour format on the LCD. The default setting is in 12-hour format.
Disable in-call DTMF Display	When it's set to "Yes", the DTMF digits entered during the call will not display. The default setting is "No".
Always Ring Speaker	Configures to enable or disable the speaker to ring when headset is used on "Toggle Headset/Speaker" mode. If set to "Yes", when the phone is in Headset "Toggle Headset/Speaker" mode, both headset and speaker will ring on incoming call. The default setting is "No".
Headset Key Mode	When headset is connected to the phone, users could use the

	<p>HEADSET button in "Default Mode" or "Toggle Headset/Speaker".</p> <ul style="list-style-type: none"> • Default Mode: <ul style="list-style-type: none"> ➤ When the phone is in idle, press HEADSET button to off hook the phone and making calls by using headset. Headset icon will display on the left side of the screen in dialing/talking status. ➤ When there is an incoming call, press HEADSET button to pick up the call using headset. ➤ When there is an active call using headset, press HEADSET button to hang up the call. ➤ When Speaker/Handset is being used in dialing/talking status, press HEADSET button to switch to headset. Press it again to hang up the call. Or press speaker/Handset to switch back to the previous mode. • Toggle Headst/Speaker: <ul style="list-style-type: none"> ➤ When the phone is in idle, press HEADSET button to switch to Headset mode. The headset icon will display on the left side of the screen. In this mode, if pressing Speaker button or Line key to off hook the phone, headset will be used. ➤ When there is an active call, press HEADSET button to toggle between Headset and Speaker.
Write Timeout	Defines the interval (in seconds) to save the call history to phone's flash. The default value is 300 seconds.
Max Unsaved Log	Defines the number of unsaved logs before written to phone's flash. The default value is 200 entries.
Headset TX gain	Configures the transmission gain of the headset. The default value is 0dB.
Headset RX gain	Configures the receiving gain of the headset. The default value is 0dB.
Handset TX gain	Configures the transmission gain of the handset. The default value is 0 dB.

SETTINGS/ADVANCED SETTINGS PAGE

Admin Password	Allows users to change the admin password. The password field is purposely hidden after clicking the Update button for security purpose. This field is case sensitive with a maximum length of 30 characters.
Confirm Password	Confirms the admin password field to be the same as above.

Layer 3 QoS	Defines the Layer 3 QoS parameter. This value is used for IP Precedence, Diff-Serv or MPLS. The default value is 12.
Layer 2 QoS 802.1Q/VLAN Tag	Assigns the VLAN Tag of the Layer 2 QoS packets. The default value is 0.
Layer 2 QoS 802.1p Priority Value	Assigns the priority value of the Layer2 QoS packets. The default value is 0.
Local RTP Port	This parameter defines the local RTP port used to listen and transmit. It is the base RTP port for channel 0. When configured, channel 0 will use this port _value for RTP; channel 1 will use port_value+2 for RTP. Local RTP port ranges from 1024 to 65400 and must be even. The default value is 5004.
Use Random Port	When set to "Yes", this parameter will force random generation of both the local SIP and RTP ports. This is usually necessary when multiple phones are behind the same full cone NAT. The default setting is "Yes" (This parameter must be set to "No" for Direct IP Calling to work).
Keep-alive Interval	Specifies how often the phone sends a blank UDP packet to the SIP server in order to keep the "ping hole" on the NAT router to open. The default setting is 20 seconds.
Use NAT IP	The NAT IP address used in SIP/SDP messages. This field is blank at the default settings. It should ONLY be used if it's required by your ITSP.
STUN Server	The IP address or Domain name of the STUN server. STUN resolution results are displayed in the STATUS page of the Web GUI. Only non-symmetric NAT routers work with STUN.
Firmware Upgrade and Provisioning	Specifies how firmware upgrading and provisioning request to be sent: Always Check for New Firmware, Check New Firmware only when FW pre/suffix changes, Always Skip the Firmware Check.
XML Config File Password	The password for encrypting the XML configuration file using OpenSSL. This is required for the phone to decrypt the encrypted XML configuration file.
HTTP/HTTPS User Name	The user name for the HTTP/HTTPS server.
HTTP/HTTPS Password	The password for the HTTP/HTTPS server.
Upgrade Via	Allows users to choose the firmware upgrade method: TFTP, HTTP or HTTPS.
Firmware Server Path	Defines the server path for the firmware server. It could be different from the configuration server for provisioning.
Config Server Path	Defines the server path for provisioning. It could be different from the firmware server for upgrading.

Firmware File Prefix	Enables your ITSP to lock firmware updates. If configured, only the firmware with the matching encrypted prefix will be downloaded and flashed into the phone.
Firmware File Postfix	Enables your ITSP to lock firmware updates. If configured, only the firmware with the matching encrypted postfix will be downloaded and flashed into the phone.
Config File Prefix	Enables your ITSP to lock configuration updates. If configured, only the configuration file with the matching encrypted prefix will be downloaded and flashed into the phone.
Config File Postfix	Enables your ITSP to lock configuration updates. If configured, only the configuration file with the matching encrypted postfix will be downloaded and flashed into the phone.
Allow DHCP Option 43 and Option 66 Override Server	If DHCP option 66 is enabled on the LAN side, the TFTP server can be redirected. The default setting is "Yes".
Automatic Upgrade	Enables automatic upgrade and provisioning. The default setting is "No".
Authenticate Conf File	Authenticates configuration file before acceptance. The default setting is "No".
Enable TR-069	Enables TR-069. The default setting is "No".
ACS URL	URL for TR-069 Auto Configuration Servers (ACS).
TR-069 Username	ACS username for TR-069.
TR-069 Password	ACS password for TR-069.
Periodic Inform Enable	Enables periodic inform. If set to "Yes", device will send inform packets to the ACS. The default setting is "No".
Periodic Inform Interval	Sets up the periodic inform interval to send the inform packets to the ACS.
Connection Request Username	The user name for the ACS to connect to the phone.
Connection Request Password	The password for the ACS to connect to the phone.
Connection Request Port	The port for the ACS to connect to the phone.
CPE SSL Certificate	The Cert File for the phone to connect to the ACS via SSL.
CPE SSL Private Key	The Cert Key for the phone to connect to the ACS via SSL.
Phonebook XML Download	Configures to enable phonebook XML download. Users could select HTTP/HTTPS/TFTP to download the phonebook file. The default setting is "No".
Phonebook XML Server Path	Configures the server path to download the phonebook XML. This field could be IP address or URL, with up to 256 characters.

Phonebook Download Interval	Configures the phonebook download interval (in minutes). If it's set to 0, the automatic download will be disabled. The default value is 0. The valid range is 5 to 720 minutes.
Remove Manually-edited Entries on Download	If set to "Yes", when XML phonebook is downloaded, the entries added manually will be automatically removed. The default setting is "Yes".
LDAP Directory: Server Address	Configures the IP address or DNS name of the LDAP server.
LDAP Directory: Port	Configures the LDAP server port.
LDAP Directory: Base	Configures the LDAP search base. This is the location in the directory where the search is requested to begin. Example: dc=grandstream, dc=com ou=Boston, dc=grandstream, dc=com
LDAP Directory: User Name	Configures the bind "Username" for querying LDAP servers. Some LDAP servers allow anonymous binds in which case the setting can be left blank.
LDAP Directory: Password	Configures the bind "Password" for querying LDAP servers. The field can be left blank if the LDAP server allows anonymous binds.
LDAP Number Filter	Configures the filter used for number lookups. Examples: (!(telephoneNumber=%)(Mobile=%)) returns all records which has the "telephoneNumber" or "Mobile" field starting with the entered prefix; (&(telephoneNumber=%) (cn=*)) returns all the records with the "telephoneNumber" field starting with the entered prefix and "cn" field set.
LDAP Name Filter	Configures the filter used for name lookups. Examples: (!(cn=%)(sn=%)) returns all records which has the "cn" or "sn" field starting with the entered prefix; (!(sn=%)) returns all the records which do not have the "sn" field starting with the entered prefix; (&(cn=%) (telephoneNumber=*)) returns all the records with the "cn" field starting with the entered prefix and "telephoneNumber" field set.
LDAP Version	Selects the protocol version for the phone to send the bind requests. The default setting is "Version 3".

LDAP Name Attributes	Specify the "name" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiple space separated name attributes. Example: gn cn sn description
LDAP Number Attributes	Specifies the "number" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiple space separated number attributes. Example: telephoneNumber telephoneNumber Mobile
LDAP Display Name	Configures the entry information to be shown on phone's LCD. Up to 3 fields can be displayed. Example: %cn %sn %telephoneNumber
Max. Hits	Specifies the maximum number of results to be returned by the LDAP server. If set to 0, server will return all search results. The default setting is 50.
Search Timeout	Specifies the interval (in seconds) for the server to process the request and client waits for server to return. The default setting is 30 seconds.
Sort Results	Specifies whether the searching result is sorted or not. The default setting is "No".
LDAP Lookup	Configures to enable LDAP number searching when dialing and receiving calls.
Lookup Display Name	Configures the display name when LDAP looks up the name for incoming call or outgoing call. This field must be a subset of the LDAP Name Attributes. Example: gn cn sn description
Idle Screen XML Download	Configures to enable idle screen XML download. Users could select HTTP/HTTPS/TFTP to download the XML idle screen file. The default setting is "No".
Download Screen XML At Bootup	If set to "Yes", the idle screen XML file will be downloaded when the phone boots up. The default setting is "No".
User Custom Filename	Specifies the custom file for the idle screen XML file to be downloaded.

Idle Screen XML Server Path	Configures the server path to download the idle screen XML file. This field could be IP address or URL, with up to 256 characters.
Offhook Auto Dial	Configures a User ID/extension to dial automatically when the phone is off hook. The phone will use the first account to dial out. The default setting is "No".
Auto Recover From Abnormal	Configures whether auto recover or not when the phone is running abnormal. The default setting is "Yes".
Syslog Server	The URL or IP address of the syslog server for the phone to send syslog to.
Syslog Level	<p>Selects the level of logging for syslog. The default setting is None. There are 4 levels: DEBUG, INFO, WARNING AND ERROR.</p> <p>Syslog messages are sent based on the following events:</p> <ul style="list-style-type: none"> • product model/version on boot up (INFO level); • NAT related info (INFO level); • sent or received SIP message (DEBUG level); • SIP message summary (INFO level); • inbound and outbound calls (INFO level); • registration status change (INFO level); • negotiated codec (INFO level); • ethernet link up (INFO level); • SLIC chip exception (WARNING and ERROR levels); • memory exception (ERROR level).
Send SIP Log	Configures whether the SIP log will be included in the syslog messages or not. The default setting is "No".
NTP Server	Defines the URL or IP address of the NTP server. The phone may obtain the date and time from the server.
Allow DHCP Option 42 Override NTP Server	Defines whether DHCP Option 42 should override NTP server or not. When enabled, DHCP Option 42 will override the NTP server if it's set up on the LAN. The default setting is "Yes".
Public Mode	<p>Configures to turn on/off public mode for hot desking feature on the phone. If set to "Yes", users would need fill in the SIP Server address for account 1 as well. Then reboot the phone. When the phone boots up, users will need enter SIP User ID and Password on the LCD to login and use the phone.</p> <p>Note:</p> <p>When the phone is in public mode login screen, press HOLD button will have the IP address of the phone displayed.</p>

SSL Certificate	SSL Certificate used for SIP Transport in TLS/TCP.
SSL Private Key	SSL Private key used for SIP Transport in TLS/TCP.
SSL Private Key Password	SSL Private key password used for SIP Transport in TLS/TCP.
System Ring Tone	Configures system ring tone. The default value is North American standard. Users could adjust system ring tone frequencies and cadences based on local telecom standard.
Call Progresses Tones: Dial Tone Message Waiting Ring Back Tone Call-Waiting Tone Busy Tone Reorder Tone	<p>Configures ring or tone frequencies based on parameters from local telecom. The default value is North American standard. Frequencies should be configured with known values to avoid uncomfortable high pitch sounds.</p> <p>Syntax: f1=val,f2=val[,c=on1/off1[-on2/off2[-on3/off3]]]; (Frequencies are in Hz and cadence on and off are in 10ms)</p> <p>ON is the period of ringing ("On time" in 'ms') while OFF is the period of silence. In order to set a continuous ring, OFF should be zero. Otherwise it will ring ON ms and a pause of OFF ms and then repeat the pattern. Up to three cadences are supported.</p>
Intercom User ID	Configures the intercom extension number for account 1 to dial out. This User ID is mapped to the INTERCOM button on the phone.
Disable Call-Waiting	Disables the call waiting feature. The default setting is "No".
Disable Call-Waiting Tone	Disables the call waiting tone when call waiting is on. The default setting is "No".
Disable Direct IP Calls	Disables Direct IP Call. The default setting is "No".
Use Quick IP-Call mode	When set to "Yes", users can dial an IP address under the same LAN/VPN segment by entering the last octet in the IP address. To dial quick IP call, off hook the phone and dial #XXX (X is 0-9 and XXX <=255), phone will make direct IP call to aaa.bbb.ccc.XXX where aaa.bbb.ccc comes from the local IP address REGARDLESS of subnet mask. #XX or #X are also valid so leading 0 is not required (but OK). No SIP server is required to make quick IP call. The default setting is "No".
Disable Conference	Disables the Conference function. The default setting is "No".
Enable MPK sending DTMF	Enables Multi Purpose Key to send DTMF during the call. The default setting is "No".
Disable DND Button	If set to "Yes", the DND button will not set the phone to DND. The default setting is "No".
Disable Transfer	Disables the Transfer function. The default setting is "No".
Auto-Attended Transfer	If set to "Yes", the phone will use attended transfer by default. The

	default setting is "No".
In-call dial number on pressing transfer key	Configures the number for the phone to dial as DTMF during the call using TRAN button.
Configuration via Keypad Menu	<p>Configures the access control for the users to configure from keypad Menu. There are three different options:</p> <ul style="list-style-type: none"> • Unrestricted. All the options can be accessed in keypad Menu. • Basic settings only. The CONFIG option will not display for users to access in keypad Menu. • Constraint Mode. CONFIG, FACTORY FUNCTIONS and NETWORK options will not display for users to access in keypad menu.
Enable STAR key Keypad locking	<p>If set to "Yes", the keypad can be locked by pressing and holding the STAR * key for about 4 seconds. A lock icon will show indicating the keypad is locked. The default setting is "Yes".</p> <p>Note: When the keypad is locked, users would need press and hold the STAR * key for about 4 seconds again and then enter the password to unlock it.</p>
Password to lock/unlock	Configures the password to lock/unlock the keypad. The password field allows number with up to 32 characters.
Offhook timeout	If configured, when the phone is on hook, it will go off hook after the timeout (in seconds). The default value is 30 seconds.
China Telecom Mode	Enables/Disables China Telecom Mode to use China Telecom special features on the phone.
Do Not Escape # as %23 in SIP URI	Specifies whether to replace # by %23 or not for some special situations. The default setting is "No".
Disable Telnet	Disables Telnet access. The default setting is "No".
Display Language	Selects display language on the phone.
Download Device Configuration	Click to download the device configuration file in .txt format.

NAT SETTINGS

If the devices are kept within a private network behind a firewall, we recommend using STUN Server. The following settings are useful in the STUN Server scenario:

- **STUN Server** (under Advanced Settings page)
Enter a STUN Server IP (or FQDN) that you may have, or look up a free public STUN Server on the internet and enter it on this field. If using Public IP, keep this field blank.
- **Use Random Ports** (under Advanced Settings page)
This setting depends on your network settings. When set to "Yes", it will force random generation of both the local SIP and RTP ports. This is usually necessary when multiple GXPs are behind the same NAT. If using a Public IP address, set this parameter to "No".
- **NAT Traversal** (under Account Setting page)
Default setting is "No". Enable the device to use NAT traversal when it is behind firewall on a private network. Select Keep-Alive, Auto, STUN (with STUN server path configured too) or other option according to the network setting.


PUBLIC MODE

The GXP1400/GXP1405 supports hot desking using public mode. Under public mode, users could login the phone with the SIP account User ID and password. Please follow the steps below to configure the phone for public mode:

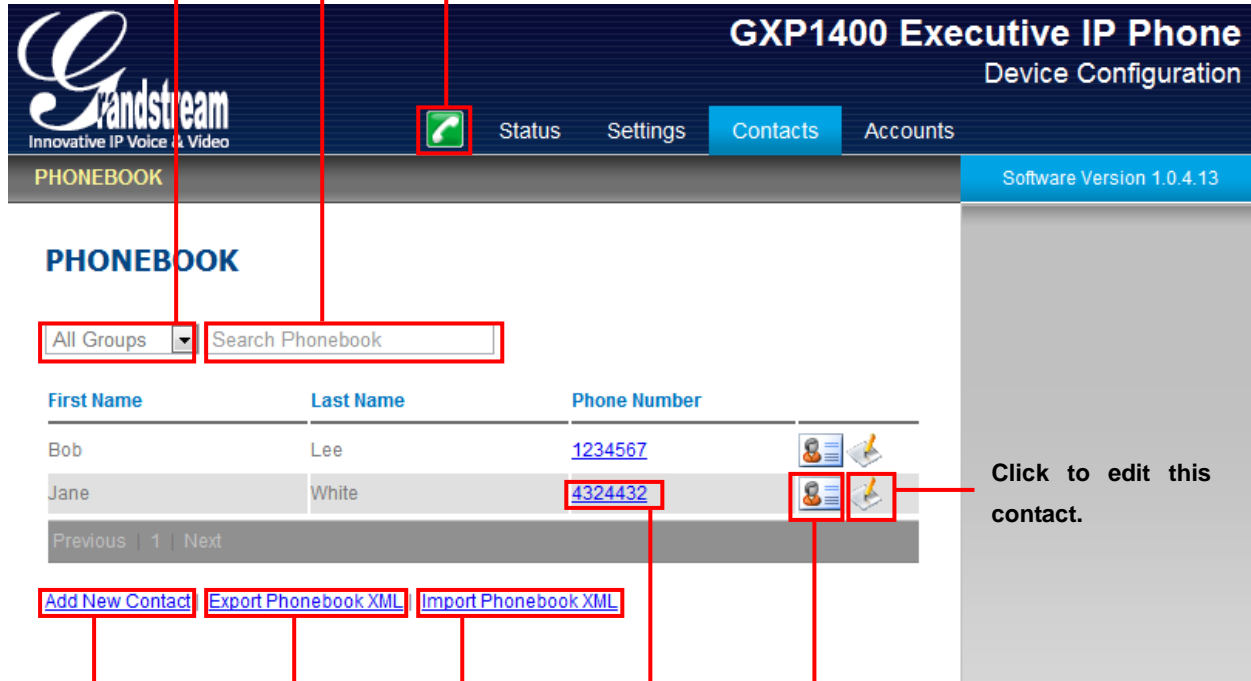
- Under Web GUI->**Account 1** setting page, fill up the SIP server address for account 1. Click "Update" on the bottom of the page;
- Under Web GUI->Advanced setting page, set Public Mode option to "Yes". Click "Update" and reboot the phone;
- When phone boots up, SIP User ID and Password to register to the configured SIP server in account 1 will be required. Enter the correct account information to log in to the phone. When entering the account information, press softkey "123"/"abc" to toggle input method;
- In login page, pressing HOLD button on the phone will show phone's IP address;
- After using the phone, go to LCD MENU->LogOut to log off the public mode.

EDITING CONTACTS AND CLICK-TO-DIAL

From GXP1400/GXP1405 Web GUI, users could view contacts, edit contacts, or dial out with Click-to-Dial

feature  on the top of the Web GUI. In the following figure, the Contact page shows all the added contacts (manually or downloaded via XML phonebook). Here users could add new contact, export phonebook XML, import phonebook XML, search contact, filter contacts by group, edit selected contact, or dial the contact/number.

Click to select group in the dropdown menu. Click to search in phonebook. Click to input number and dial from available lines.



PHONEBOOK

All Groups Search Phonebook

First Name	Last Name	Phone Number
Bob	Lee	1234567
Jane	White	4324432


Previous | 1 | Next

[Add New Contact](#) [Export Phonebook XML](#) [Import Phonebook XML](#)

Click to add new contacts. Click to export phonebook in XML format. Click to import phonebook XML file. Click to call this contact from the phone. Click to download the contact information in .vcf format

Click to edit this contact.

Figure 3: GXP1400/GXP1405 Web GUI - Contacts

When clicking on the  icon on the top menu of the Web GUI, a new dialing window will show for you to enter the number. Once Dial is clicked, the phone will go off hook and dial out the number from selected account.

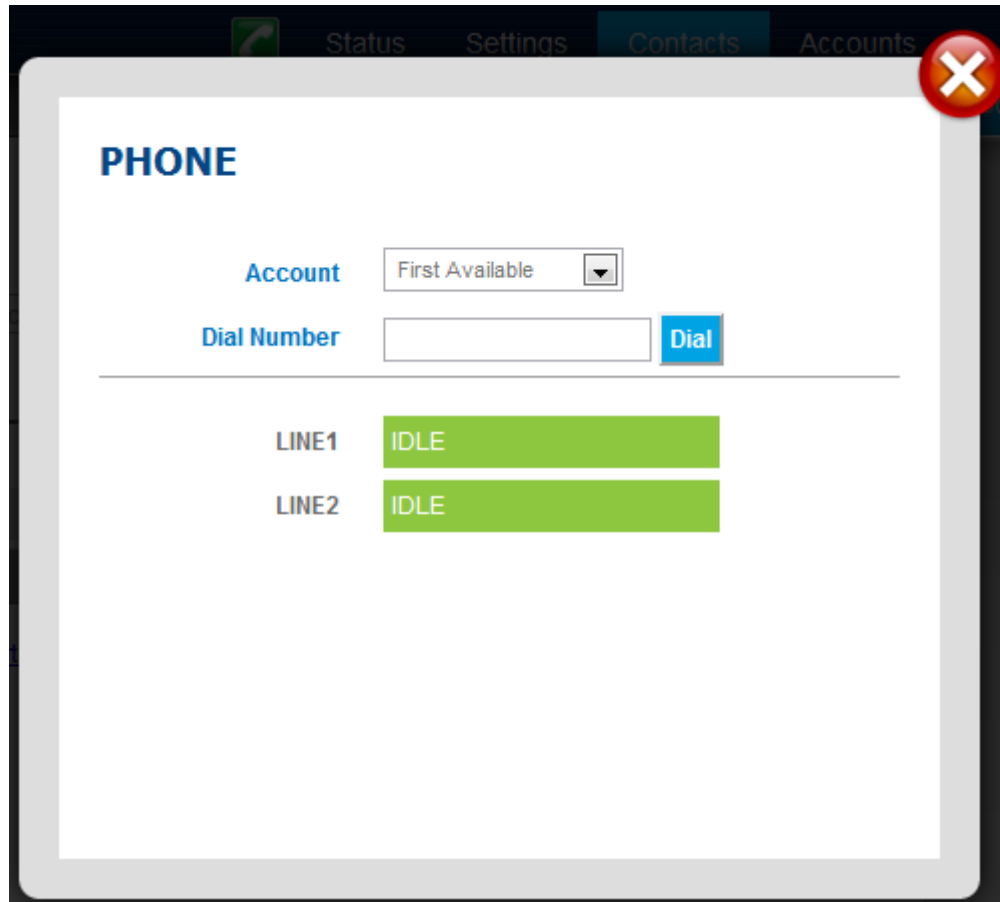


Figure 4: GXP1400/GXP1405 Click-to-Dial

Additionally, users could directly send the command for the phone to dial out by specifying the following URL in PC's web browser, or in the field as required in other call modules.

http://ip_address/cgi-bin/api-make_call?phonenumber=1234&account=0&password=admin

In the above link, replace the **fields** with

- **ip_address:**
Phone's IP Address.
- **phonenumber=1234:**
The number for the phone to dial out
- **account=0:**
The account index for the phone to make call. The index is 0 for account 1, 1 for account 2, 2 for account 3, and etc.
- **password=admin:**
The admin login password of phone's Web GUI.

SAVING THE CONFIGURATION CHANGES

After users makes changes to the configuration, press the **Update** button on the bottom of the Web GUI page. We recommend rebooting or powering cycle the IP phone after saving changes.

REBOOTING FROM REMOTE LOCATIONS

Press the **Reboot** button on the bottom of the web GUI page to reboot the phone remotely. The web browser will then display a reboot page with message "The device is rebooting now...". Wait for about 1 minute to log in again.

UPGRADING AND PROVISIONING

The GXP1400/GXP1405 can be upgraded via TFTP/HTTP/HTTPS by configuring the URL/IP Address for the TFTP/HTTP/HTTPS server and selecting a download method. Configure a valid URL for TFTP or HTTP; the server name can be FQDN or IP address.

Examples of valid URLs:

firmware.grandstream.com

fw.ipvideotalk.com/gs

There are two ways to setup a software upgrade server: The IVR Menu or the Web Configuration Interface.

UPGRADE VIA KEYPAD MENU

Follow the steps below to configure the upgrade server path via phone's keypad menu:

- Press MENU button and navigate using Up/Down arrow to select **Config**;
- In the Config options, select **Upgrade**;
- Enter the firmware server path and select upgrade method. The server path could be in IP address format or FQDN format;
- Press the "OK" softkey. A reboot message window will be prompt.
- Reboot the phone to have the change take effect.

When upgrading starts, the screen will show upgrading progress. When done you will see the phone restarts again. Please do not interrupt or power cycle the phone when the upgrading process is on.

UPGRADE VIA WEB GUI

Open a web browser on PC and enter the IP address of the phone. Then, login with the administrator username and password. Go to Settings->Advanced Settings page, enter the IP address or the FQDN for the upgrade server in "Firmware Server Path" field and choose to upgrade via TFTP or HTTP/HTTPS. Update the change by clicking the "Update" button. Then "Reboot" or power cycle the phone to update the new firmware.

When upgrading starts, the screen will show upgrading progress. When done you will see the phone restarts again. Please do not interrupt or power cycle the phone when the upgrading process is on.

Firmware upgrades take around 60 seconds in a controlled LAN or 5-10 minutes over the Internet. We recommend completing firmware upgrades in a controlled LAN environment whenever possible.

NO LOCAL TFTP/HTTP SERVERS

For users that would like to use remote upgrading without a local TFTP/HTTP server, Grandstream offers a NAT-friendly HTTP server. This enables users to download the latest software upgrades for their phone via this server. Please refer to the webpage:

<http://www.grandstream.com/support/firmware>.

Alternatively, users can download a free TFTP or HTTP server and conduct a local firmware upgrade. A free windows version TFTP server is available for download from :

<http://support.solarwinds.net/updates/New-customerFree.cfm>

<http://tftpd32.jounin.net/>.

Instructions for local firmware upgrade via TFTP:

1. Unzip the firmware files and put all of them in the root directory of the TFTP server;
2. Connect the PC running the TFTP server and the phone to the same LAN segment;
3. Launch the TFTP server and go to the File menu->Configure->Security to change the TFTP server's default setting from "Receive Only" to "Transmit Only" for the firmware upgrade;
4. Start the TFTP server and configure the TFTP server in the phone's web configuration interface;
5. Configure the Firmware Server Path to the IP address of the PC;
6. Update the changes and reboot the phone.

End users can also choose to download a free HTTP server from <http://httpd.apache.org/> or use Microsoft IIS web server.

Note:

When the phone boots up, it will send a TFTP or HTTP request to download the configuration file "cfgxxxxxxxxxxxx" where "xxxxxxxxxxxx" is the MAC address of the phone. If it is a normal TFTP or HTTP upgrade, the following messages "TFTP Error from [IP ADDRESS] requesting cfg000b82023dd4 : File does not exist. Configuration File Download" can be ignored in the TFTP/HTTP server log.

CONFIGURATION FILE DOWNLOAD

Grandstream SIP Devices can be configured via the Web Interface as well as via a Configuration File (binary or XML) through TFTP or HTTP/HTTPS. The "Config Server Path" is the TFTP or HTTP/HTTPS

server path for the configuration file. It needs to be set to a valid URL, either in FQDN or IP address format. The "Config Server Path" can be the same or different from the "Firmware Server Path".

A configuration parameter is associated with each particular field in the web configuration page. A parameter consists of a Capital letter P and 2 to 3 (Could be extended to 4 in the future) digit numeric numbers. i.e., P2 is associated with the "Admin Password" in the Web GUI->Settings->Advanced Settings. For a detailed parameter list, please refer to the corresponding firmware release configuration template.

When a Grandstream Devices boots up or reboots, it will issue a request for a configuration XML file named "cfgxxxxxxxxxxx.xml" followed by a file named "cfgxxxxxxxxxxx", where "xxxxxxxxxxx" is the MAC address of the device, i.e., "cfg000b820102ab". The configuration file name should be in lower case letters.

For more details on XML provisioning, please refer to:

http://www.grandstream.com/general/gs_provisioning_guide_public.pdf

RESTORE FACTORY DEFAULT SETTINGS

Warning:

Restoring the Factory Default Settings will delete all configuration information on the phone. Please backup or print all the settings before you restore to the factory default settings. Grandstream is not responsible for restoring lost parameters and cannot connect your device to your VoIP service provider.

Please follow the instructions below to reset the phone:

- Press MENU button to bring up the keypad configuration menu;
- Select "Config" and enter;
- Select "Factory Reset";
- A warning window will pop out to make sure a reset is requested and confirmed;
- Press the "OK" softkey to confirm and the phone will reboot. To cancel the Reset, press Cancel softkey instead.

EXPERIENCING THE GXP1400/GXP1405

Please visit our website: <http://www.grandstream.com> to receive the most up- to-date updates on firmware releases, additional features, FAQs, documentation and news on new products.

We encourage you to browse our [product related documentation](#), [FAQs](#) and [User and Developer Forum](#) for answers to your general questions. If you have purchased our products through a Grandstream Certified Partner or Reseller, please contact them directly for immediate support.

Our technical support staff is trained and ready to answer all of your questions. Contact a technical support member or [submit a trouble ticket online](#) to receive in-depth support.

Thank you again for purchasing Grandstream IP phone, it will be sure to bring convenience and color to both your business and personal life.