

# Grandstream Networks, Inc.

GAC2500

Audio Conference Phone for Android<sup>™</sup>

**User Guide** 







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## **DOCUMENT PURPOSE**

This document describes how to configure the GAC2500 via phone's LCD menu and web UI menu to fully manipulate phone's features.

To learn the advanced functions of GAC2500, please visit <u>http://www.grandstream.com/support</u> to download the latest "GAC2500 Administration Guide".

This guide covers following topics:

- Product Overview
- Getting Started
- Getting to know GAC2500
- Assistive Touch
- Connecting the GAC2500
- Making Phone Calls
- Applications
- GAC2500 Web UI Features
- Factory Reset
- Experiencing GAC2500





## **CHANGE LOG**

This section documents significant changes from previous versions of GAC2500 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 1.0.3.20

- Optimize Bluetooth performance
- Added support for TLSv1.1 and TLSv1.2.
- Added option to block image gallery options via GUI Config Tool 3.9.0. [block image gallery options]

## Firmware Version 1.0.3.17

- Updated feature code to access factory diagnosis app. The feature code is "\*\*\*3424\*" [feature code "\*\*\*3424\*" ]
- Updated some Chinese translation in LCD menu.

## Firmware Version 1.0.3.13

• Updated displaying caller information based on "Referred-By" header in incoming call page on LCD. [Incoming Transferred call notification]

## Firmware Version 1.0.3.11

- Deleted "Lock" in Add conference.
- Added volume control bar in conference on web UI.
- Made members label visible when adding new members in Schedule.
- Added total number of calls in Call History in web UI.
- Added a prompt to recover intercepted calls from blacklist.
- Hid "Associated account" in Schedule if there is no active account.
- Added support to change background color when clicking a file in File Manager List view.
- Updated prompt of exporting record file on LCD.
- Updated prompt of video call request on LCD.

## Firmware Version 1.0.3.5

- Prompt tips when GAC2500 is connected to wrong GVC USB port. [USB Slave Mode]
- Improved audio process performance.
- Supports using dial pad to dial out call in Skype for business app. [Account]
- When removing app from GUI Config tool, the GAC2500 will delete it including background service rather than hiding the app in background only.
- Added call detail in calling interface. When in a call, simply choose "More" and "Call Details". [Call Details]
- DUT in a conference with an outgoing call will add all incoming call to conference. [Answering an Incoming Call in Conference]
- Changed LDAP search timeout unit to second. [Search timeout (s)]





- Changed internal storage icon. [File Manager]
- Modify phone type and Email type to English only while importing/exporting Contacts xml file on Universal Phone Editor.
- Added more operation on LCD for GVC320x when GAC2500 is connected to GVC320x via USB. [USB Slave Mode]
- Added count of calls for call history on LCD. [Call Count Call History]
- Improved DUT's behavior when using option "Use # as Dial Key" to dial out. [Direct Dialing]
- Added support for Google Calendar conference schedule features. [Schedule Conference via Google Calendar]
- Shortened reminding tone for incoming intercom call. [Paging/Intercom]
- Added support for Bluetooth A2DP sink role, which means GAC2500 can connect to GVC320x and mobile devices via Bluetooth to play music files.
- Packed new CFG file for new hardware production.
- Added some missing tooltips.
- Improved the web UI design on IE browser.
- Added voice mode setting, users can set 6 different voice modes. [Sound]
- Trimmed the multicast name displaying on web talking interface.
- Allowed DUT to display a widget shape even there is no account registered.

### Firmware Version 1.0.1.45

• Added support for new hardware version

## Firmware Version 1.0.1.44

• No major changes

### Firmware Version 1.0.1.40

- Improved the sound quality.
- The 3.5mm interface is mainly used for placing a cellphone in a conference. So, the volume range differs from cellphones. Please adjust the volume on the cellphone if it is too high.

#### Firmware Version 1.0.1.34

- The dial pad has a MPK access key, and MPK app has different layout. [Shortcut]
- MPK app is renamed to Hotkeys.
- Updated call feature of Contact on dial pad.
- Updated LCD layout (Only reset to enable new layout. Move some apps to Tool Folder).
- Enabled password for schedule conference.
- Added ability to start a contact and put it on top of contact.
- Added direct IP call on dial pad without changing call mode. [Direct IP Call]
- Added ability to create a hotkey for a contact or a group.
- Updated tool tips display on web UI.
- Updated RJ48 cascade mode. LCD supports complete synchronization.
- When screen lock is enabled, unlock is required for MPK, transfer, add to Conf in a call.





- Added a PNP icon on status bar when enabled.
- Updated videos in Tips app.

## **Firmware Version 1.0.1.26**

- Added setting LCD home screen.
- Added hold/UnHold for individual conference participant.
- Added FTP server. [FTP Server]
- Added GAC2500 quick guide.

## Firmware Version 1.0.1.18

- Increased call history to 2000 entries. [Contacts Storage Status]
- Updated 3.5mm AUX line sequence interface.
- Updated the screenshots.
- Added cycle conference. [Add Scheduled Conference]
- Updated the chapter of third party application.

## Firmware Version 1.0.1.16

• This is the initial version.





## WELCOME

Thank you for purchasing Grandstream GAC2500 Audio Conference Phone for Android<sup>™</sup>. This User Guide describes the basic concept and tasks necessary to use and configure your GAC2500. This document covers the topics of conference environment setups, start conference and the relevant operations like conference reservation. To learn the advanced features and configurations, please visit <u>http://www.grandstream.com</u> to download the latest "GAC2500 Administration Guide".

GAC2500 is a next generation enterprise-grade 6-line Android IP conference phone with a 4.3" capacitive touch screen that that runs the Android Operating System and therefore offers full access to the hundreds of thousands of Android apps in the Google Play Store, including business productivity apps such as Skype<sup>TM</sup>, Skype for Business<sup>TM</sup>, and Google Hangouts<sup>TM</sup>. The phone features Gigabit ports, 7-way conference, 3x microphones, 1 Micro USB port, integrated WiFi and Bluetooth for network flexibility. The GAC2500 delivers superior HD audio quality, rich and leading-edge telephony features, automated provisioning for easy deployment, advanced security protection for privacy, and broad interoperability with most  $3^{rd}$  party SIP devices and leading SIP/NGN/IMS platforms. GAC2500 is a perfect choice for enterprise users looking for a high performance, feature rich conference phone with superb audio quality at competitive price.





## **PRODUCT OVERVIEW**

## **Feature Highlights**

The following tables contain the major features of the GAC2500:

#### Table 1: GAC2500 Features in a Glance

	<ul> <li>Runs Android<sup>™</sup> 4.4 and offers full access to all Android<sup>™</sup> conference apps in the Google Play Store (e.g., Skype<sup>™</sup>, Skype for Business<sup>™</sup>, Google Hangouts<sup>™</sup>, etc.)</li> </ul>
	• World-class high fidelity sound quality with audio bandwidth of up to 18Khz
	• 4.3" capacitive touch screen LCD with support for flexible layout/content customization
	• 3x microphones (12 ft. pickup range), 1x speaker (15 ft. coverage range)
GAC2500	• Auto-sensing Gigabit Ethernet port, Wi-Fi, PoE+, Bluetooth, Micro- USB with 3.5mm audio interface
	Supports standalone IP mode or USB slave mode
	• Supports daisy chain (up to 2 units via RJ48 CAT5) mode in large conference room for better audio quality
	NAT-T enables the phone being the Plug and Play device
	• Automated provisioning using TR-069 or AES encrypted XML configuration file, TLS/SRTP/HTTPS for advanced security and privacy protection

## **GAC2500 Technical Specifications**

The following table resumes all the technical specifications including the protocols / standards supported, voice codecs, telephony features, languages and upgrade/provisioning settings for the GAC2500.

#### Table 2: GAC2500 Technical Specifications

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLSv1.1, TLSv1.2, SRTP, IPv6, OpenVPN (pending)
Voice Codec	Support for G.711 $\mu$ /a, G.722, G.726, iLBC, Opus, G.722.1 and G.722.1c (pending), in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO), G.729A/B, VAD, CNG, AEC, PLC, AJB, AGC
Platform Bridging	Bridge SIP calls with any Android <sup>™</sup> VoIP apps such as Skype <sup>™</sup> , Skype for Business (Lync), Google Hangouts <sup>™</sup> and more





Telephony Features	Hold, transfer, forward (unconditional/no-answer/busy/conditional), call park/pickup, 7-way audio conference, auto answer, downloadable XML phone book (up to 2000 entries), LDAP, call waiting, call history (up to 2000 entries), flexible dial plan, personalized music ringtones, server redundancy & fail-over
Sample Applications	Skype <sup>™</sup> , Google Hangouts <sup>™</sup> , Skype for Business (Lync), Web browser, Facebook <sup>™</sup> , Twitter <sup>™</sup> , YouTube, Google calendar, mobile phone data import/export via Bluetooth, etc. API/SDK available for advanced custom application development
Application Deployment	Allows Android 4.4 compliant applications to be deployed in the device with provisioning control
QoS	Layer 2 QoS (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, TLSv1.1, TLSv1.2, 128/256-bit SRTP/TLS, HTTPS, 802.1x media access control
Multi-Language	English, German, Italian, French, Spanish, Portuguese, Russian, Turkish, Polish, Chinese, Korean, Japanese, and more
Upgrade/ Provisioning	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file
Network Interface	1x auto-sensing Gigabit Ethernet port, integrated 2.4GHZ auto-band Wi-Fi (802.11a/b/g/n) and 4.0 Bluetooth.
HD Audio	3x microphones (12 ft. pickup range), 1x speaker (220-18,000 Hz, 15 ft. coverage range up to 86dB)
Auxiliary Ports	3.5mm audio interface, Micro-USB interface, RJ48 interface, reset pin
Graphic Display	4.3" (800*480) capacitive touch screen LCD
Power & Green Energy Efficiency	Universal power adapter included: Input: 100-240VAC 50-60Hz; Output: 12VDC, 2A (24W)
Temperature and Humidity	Operating: 32 - 104oF / 0 - 40oC Storage: 14 - 140oF / -10 - 60oC Humidity: 10% to 90% Non-condensing
Compliance	FCC: Part 15 (CFR 47) Class B; UL 60950 (power adapter) CE : EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, EN62479, RoHS RCM : AS/ACIF S004 ; AS/NZS CISPR22/24 ; AS/NZS 60950 ; AS/NZS 4268





## **GETTING STARTED**

This chapter provides basic installation instructions including the list of the packaging contents and also information for obtaining the best performance with the GAC2500.

## **Equipment Packaging**



Figure 1: GAC2500 Package Content

Note: Check the package before installation. If you find anything missing, contact your system administrator.





## **Product Appearance**



Figure 2: GAC2500 Host Interface

#### Table 4: GAC2500 Interfaces Explanations

Name	Explanation					
RJ48 Interface	Daisy chain (up to 2 units via RJ48 CAT5) mode in large conference room for better audio quality.					
RJ45 Network Interface	Connect to LAN port.					
12V DC Power Supply Interface	Connect to Power Adaptor.					
Micro USB Interface	USB OTG devices can be connected to GAC2500 via the USB cable. For example, connect a USB flash drive to read data, or PC USB Interface or GVC32XX SPKR Interface can be connected to the GAC2500 USB Interface via USB cable for audio pickup and play					
3.5mm Audio Interface	Connect to 3.5mm devices like mobile phone or PC for mobile audio pickup and play					
Reset Pin	<ul> <li>When the GAC2500 is powered up, use a small pin to press the button one time to reboot.</li> <li>When powering up GAC2500, long press the button for 4 to 9 seconds to detect whether firmware file exists in USB OTG device to update system.</li> <li>When powering up GAC2500, long press the button for more than 10 seconds to quick restore factory settings.</li> </ul>					





## **Powering the GAC2500**

The GAC2500 can be powered either using POE or PSU, please refer to the following picture to have more visibility how to connect your audio conferencing system.



## **Connection Configuration**

GAC2500 provides the following connection configurations:



Figure 4: Connecting the GAC2500





#### **IP Mode**

The GAC2500 is used as an independent phone in IP mode. Please follow the steps below to connect.

- 1. Connect the LAN port of the device to the external network port (the port in the office or at home) via Ethernet cable;
- 2. Plug in the power adapter into the power supply interface then power up the GAC2500.

**Note**: It is recommended to use IP mode in room 3.6m\* 7.2m or smaller.

#### **USB Slave Mode**

GAC2500 can be used as auxiliary device for GVC3200 or PC for audio acquisition and play. The conference feature will be disabled in USB slave mode. Follow the steps below to connect route.

- 1. Connect one end of the USB cable to the Micro USB port of the device and the other end to the USB port of GVC3200/PC;
- 2. Plug in the power adapter into the power supply interface then power up the GAC2500.

The GAC2500 screen is as shown below in USB slave mode.



Figure 5: GAC2500 Slave Mode Screen

#### Call

Tape on the Call icon to see the GVC3200 call screen, users can make Audio/Video calls, share contents, Hold/UnHold, Record, Enable/Disable DND, and add more users to the conference.

#### - Contacts

Tape on contact and a list of the GVC3200 will show up, users can search, make calls and sync with GVC3200 contacts if a new entry is added from the GVC3200.

#### Schedule

Tape on Schedule to view all the scheduled meeting from GVC3200.

#### - PTZ

Tape on PTZ to access the GVC3200 PTZ settings, users could control PTZ movement in camera mode, set presets, zoom In/Out and adjust the focus.





If the GAC2500 is not connected to the SPKR USB interface it will prompt the following message in order to switch the port on the GVC3200.



Figure 6: Connected to Wrong USB Port

**Note**: If GAC2500 is connecting to PC via Micro-USB but there is no audio output from GAC2500, it is because the PC uses default audio output in most cases. Please configure GAC2500 as default audio output.

## **Cascade Mode**

Connect two GAC2500 (s) via RJ48 CAT5 for larger space. Please follow the steps below to connect.

- 1. Connect the LAN port of the device to the external network port (the port in the office or at home) via Ethernet cable;
- 2. Connect the RJ48 ports of two devices with RJ48 CAT5;
- 3. Plug in two power adapters into the power supply interfaces then power up two devices;
- 4. The screen is as shown below. Tap on "Yes" on the first device and set it to be the master while the other the slave.



Figure 7: GAC2500 Cascade Mode Screen





# ▲ Note:

- It is recommended to use cascade mode in room 7.2m\*12.2m or smaller.
- Please keep a distance of 5m between two devices.
- Please make sure the master device is connected to the network or it may not work properly.
- The slave device will synchronize with the master device and their dial screens will be shown synchronously.

#### **Mobile Phone Mode**

GAC2500 could be connected to mobile phone for expanded use. Please follow the steps to connect.

- 1. Connect the LAN port of the device to the external network port (the port in the office or at home) via Ethernet cable;
- 2. Plug in the power adapter into the power supply interface then power up the GAC2500;
- 3. Connect one end of the via 3.5mm audio aux cable to 3.5mm headset interface on the mobile phone first, then connect the other end to 3.5mm audio interface on GAC2500, once connected, it will access 3.5mm AUX call screen;

**Note**: If the audio quality is not good, it may be the line sequence issue, you can hold the screen at the top of the status bar, drag and drop down to open the status bar, tap on line sequence notifications and select the line sequence the same as the one of 3.5mm headset interface on the mobile phone.

4. When the mobile phone is answering an incoming call or dialing out, GAC2500 will collect and play the sound.



Figure 8: GAC2500 Select Line Sequence Screen





# ▲ Note:

- The GAC2500 package contains no 3.5mm audio aux cable, you can buy one at electronic gadgets store.
- The line sequence of GAC2500 must be the same as the one of your mobile phone, or the microphone may work improperly.
- It is recommended to connect mobile phone first, then GAC2500.
- You cannot dial or call a number via GAC2500 keypad directly.
- Once mobile phone mode is enabled, the 3.5mm audio aux line is regarded as one call line.
- Once a conference is established, the 3.5mm audio aux line is regarded as one party of the conference.
- Please do not unplug the 3.5mm audio aux cable or it may cause call exception.
- The audio quality may vary according to different types of 3.5mm audio aux cable and mobile phones.
- Once the 3.5mm male to male cable is inserted, some types of mobile phones may be detected by GAC2500 only after the call is established.





## **GETTING TO KNOW GAC2500**

## Desktop

When the GAC2500 is on idle screen, hold the screen at the bottom of the screen, drag upward to bring up 5 soft keys; hold the screen at the top of the status bar, drag and drop down to open the status bar,



Figure 9: GAC2500 Multi-screens

• **Home Screen**. GAC2500 Home screen is a dial screen by default. You can dial up or start a conference on this screen. To change the home screen, please long press the blank area and select "Edit desktop".

Press the <sup>1</sup> button in the preview desktop to set it as home screen.

- Widget. GAC2500 supports tools and Apps like Weather Forecast, Clock, MPK, and etc.
- **Status Bar**. The GAC2500 status bar is located on the top of the screen to indicate the current status of the device. Please refer to chapter **Status Icons** for more details.
- **Soft Keys**. 5 softkeys Including Volume+, Volume-, Back, Home, and Process Manager. Drag and slide upward at the bottom of the screen o bring out soft keys, the keys will be hidden automatically if no operation timeout.

## **Status Icons**

Touch the status bar of GAC2500 and slowly drag it down to display the full status list. Users could view status icons that indicate the current status of the device. The following table lists the main status icons used on GAC2500.

lcon	Descriptions	lcon	Descriptions	lcon	Descriptions
$\odot$	Ethernet is connected	$\odot$	Trying to connect to Ethernet	्रं	Ethernet is disconnected
<b>\$</b> *	Missed call	5	One line is in active	9	Unread voicemail
৫	Calls from blacklist	4	Call forward is set up	٩	Auto answer is set up

#### Table 5: GAC2500 Status Icons Descriptions





•	DND mode is enabled	(?	Wi-Fi is connected		Wi-Fi is enabled but not connected
*	Bluetooth is connected	\$‡	Sending files via Bluetooth	Ū	Bluetooth has been plugged in
<u>"</u> ם"	Using Bluetooth headset for calls	٩×	Volume is turned to silent	Ż	Mute is enabled.
Ŧ	Downloading	₅	Download failed	Â	Updating Application
U	3.5mm headset is inserted	Į j≊	Switch 3.5mm headset line sequence	€	Powering the device with PoE
<b>-</b> -	PPPoE is connected	<b>X</b>	PPPoE connection failed	20	Missed conference
▲	Warnings	ø	New message	R	Full messages storage
VPN	VPN is connected		VPN connection failed	G	More notifications
	The USB mouse is connected	▦	The USB keyboard is connected	VLAN	VPN is connected
<b>L</b> 🤊	RJ48 CAT5 is connected	<b>•_</b> •	Set GAC2500 as master device	<mark>ر ب</mark>	Set GAC2500 as slave device
ල	Hotspot is enabled	Ü	USB device is inserted	B	Full USB device storage

## Using the Onscreen Keyboard

## Keyboard

The default keyboard on the GAC2500 is English keyboard. The GAC2500 English keyboard supports multiple languages input methods. Users could tap on to switch among different languages configured under LCD Menu Settings  $\rightarrow$  Language & Keyboard  $\rightarrow$  Keyboard & Input methods. See figure below.

qv	<b>v</b> <sup>2</sup> €	3	<b>r</b> 4	t <sup>5</sup> y	y <sup>6</sup>	u 7	i <sup>®</sup> (	<b>p</b>
а	S	d	f	g	h	j	k	
企	z	x	с	v	b	n	m	×
?123	۰			English (US	)			Next

Figure 10: GAC2500 Soft Keyboard - English Input Method

Tap on to switch Caps Lock.





QV		3 <b>F</b>	<b>R</b> <sup>4</sup> 7	Γ 5	۴ <sup>6</sup> ا	J		<b>) P</b>
Α	S	D	F	G	Н	J	К	L
	Z	X	С	V	В	N	М	×
?123	, _			English (US)	)			Next

Figure 11: GAC2500 English Keyboard - Uppercase

#### **Numbers and Symbols**

To input numbers and symbols, tap on the default keyboard to switch to numbers/symbols. Tap on

for more numbers/symbols.

## **Using the LED Indicator**

The GAC2500 LED indicator is located on the top part of the device. It can be used to notify the users with current status of the device. The priority of the indicator from high to low is shown below.

Color	LED Indicator Status	Descriptions
-	Fast Flashing	Incoming call (including calls when conferencing and when phone is busy).
	Solid	Calling, Talking, Conferencing, Screensaver status.
	Slow Flashing	Call on hold.
	Slow Flashing	Unhandled events. Including missed call (s), new voicemail (s), new SIP message (s).
	Solid	High memory usage, full message box, full contacts storage, network disconnection.
	Rapid Flashing	Upgrading.
None	OFF	Normal.

#### Table 6: GAC2500 LED Indicator Descriptions

**Note:** The colors and statuses of LED indicators are by default. You can go to Web page $\rightarrow$ Maintenance $\rightarrow$ Device Manager to custom indicators.





## **ASSISTIVE TOUCH**

## **Use the Touchscreen**

To fully manipulate the GAC2500 capacitive touch screen, use your fingers to operate the following on the GAC2500 icons, buttons, menu items, onscreen keyboard and etc.



Figure 12: GAC2500 Finger Gestures on the Touch Screen

#### • Тар

Slightly touch the screen with fingertip to initiate menu, options or applications. For example, to select items on the screen (e.g., setting options, apps and etc.); to press onscreen buttons (e.g., "End" or "Options" soft key during the call); to type letters and symbols using the onscreen keyboard.

### Long Press

Touch the screen with fingertip and press for about 2 seconds without lifting your finger from the screen till an action occurs. For example, long press on a picture to bring up selection option.

#### • Flick and Slide

Touch the screen with fingertip and slide over the screen. For example, user could slide up to scroll up the page, slide down to open dropdown menu, slide left or slide right to delete an item from the list. If your finger stays on the screen for too long, the item may be selected and sliding won't occur.

#### • Press and Drag

Touch and press the item, then move it by dragging it up, down, left or right, without lifting your finger from the screen.

#### • Zoom in/Zoom Out

Place two fingers on the screen, then pinch them together (zoom out) or spread them apart (zoom in).

#### • Double Tap

Quickly touch the screen twice with fingertip to switch between default display and zoomed-in display. This is usually used when viewing photos or web pages.





## **Shortcut Keys**

GAC2500 supports shortcuts for some special operation like Screenshots, Factory Reset, Upgrade and Security.

- Screenshot. Long press the Process Manager icon on GAC2500 screen, the screenshot file will be saved automatically in the screenshot folder under SD card. Go to File Manager→Storage→Pictures→Screenshots to view files.
- **Factory Reset**. When powering up GAC2500, long press the reset button on the back of the device for more than 10 seconds to restore to factory settings.
- **Upgrade**. When powering up GAC2500, long press the button for 4 to 9 seconds to update system.

## **Managing Status Bar**

The GAC2500 status bar is located on the top of the screen. Touch the bar and slowly drag it down to display the full status list. Once the status bar is opened, users could view Notifications.

The Notifications in the Status Bar is as shown in figure below.



Figure 13: GAC2500 Status Bar - Notifications

Click on button in the upper right corner to clear all notification messages.

- Slide a notification message to left or right to delete it.
- Click a notification message to view the details.
- Tap on the corresponding icon on the top of the screen to quick turn on/off the applications.
- Long press the corresponding icon on the top of the screen to quick access the applications.
- Drag the seek bar behind the icon <sup>1</sup> to adjust LCD brightness.

### **Desktop Menu**

When the GAC2500 is on idle screen, long press the blank area, then you can tap on "Edit desktop" or "Set wallpaper". See figure below.







Figure 14: GAC2500 Idle Screen Menu

- Edit Wallpaper: Edit the idle screen wallpaper.
- Edit Desktop: Add, delete, edit desktop or add widgets on the desktop.

### **Edit Wallpaper**

You can set wallpapers, live wallpapers or choose photo from gallery. See figure below.



Figure 15: GAC2500 Choose Wallpaper

- 1. Long press the blank area on home screen then tap on "Set Wallpaper";
- 2. Slide wallpapers to left or right to view a list of sample wallpapers embedded in the GAC2500, tap on wallpaper to preview, tap on "Set Wallpaper" to confirm the selection. You can also select photo from gallery or file manager, or set live wallpapers.

**Note**: The user has the ability to block image gallery options using GUI Customization Tool 3.9.0. The GUI Customization Tool can be found under the link: <u>http://www.grandstream.com/support/tools</u>.





### **Edit Desktop**

The desktop screen is as shown below.



Figure 16 GAC2500 Edit Desktop

• Add Desktop: Press finger slightly in free space of the screen and fast slide to the last screen and click

e on the middle screen to add a new desktop. Users could add up to 15 desktops.

- Delete Desktop: Click 🖄 on the upper right corner of the blank desktop to delete it. The desktop with widgets and shortcuts on it is undeletable.
- Tap on the original icon of a preview desktop to set it as home screen.

### Adding an Item to Desktop

Users could add commonly used items (Weather Forecast, RSS News, etc.) to the desktop. Follow the steps below:

- 1. When the GAC2500 is running on idle screen, long press the blank area, then tap on "Edit Desktop";
- 2. Slide left or right to view a list of options;
- 3. Press and drag the shortcut or widget you would like to add and drag it to the desktop you want to put on.



- Please ensure that there is enough space on the desktop when adding widget.
- Users may need to select the specific items before adding them to the desktop. i.e., browser, bookmark, star-labeled contact, photos, etc.





#### **Managing Desktop Apps and Items**

All the GAC2500 apps/items can be accessed /removed. Take Weather Forecast as an example in the following chapter.

#### - Opening an app

Tap on Weather Forecast icon to access screen as shown on the following figure. Users could edit Weather Forecast after accessing it.



Figure 17: GAC2500 Weather Forecast Screen

#### - Moving an app

Touch and hold the Weather Forecast icon, when the icon begins to float, drag it to any desktop with free space.



Figure 18: GAC2500 Move Weather Forecast to Desktop





#### - Removing an App

Touch and hold the Weather Forecast icon until the Recycle Bin icon displayed on the top as shown in figure 18, drag the widget to the Recycle Bin, when the item gets close to the Recycle Bin, it will turn red. Now release your finger to delete.



Figure 19: GAC2500 Remove Weather Forecast from Desktop

**Note:** The system applications cannot be deleted.

## **Managing Applications**

Tap on the Process Manager icon on screen to view the running applications on the GAC2500 as shown below.



Figure 20: GAC2500 Managing Applications

Slide up/down to view the applications, tap on one and slide left/right to turn it off, or tap on it to access the

corresponding interface. Tap on 🖤 to turn off all running applications.







Figure 21: GAC2500 Home Screen

- Mode. Set the call mode.
- Account. Display all registered accounts. Tap to select account.
- **Input box**. Tap on digits below to input phone number, or tap on the input box to bring out the soft keyboard. You will see all the matching numbers on the left when you are inputting digits, tap on the number to add it to input box directly, you can add up to 6 numbers.
- **Dial-up**. Tap to dial out.
- **Conference**. Display the conference line. Tap to access conference interface.
- Contacts. Tap to access Contacts interface to add more contacts to the input box.
- Hotkeys. This is a quick access to MPK app.

You can slide left or right to the Conference app on other desktops, or dial out multiple numbers to start a conference on home screen.




# **CONNECTING TO NETWORK AND DEVICES**

The GAC2500 supports a variety of network connections (Ethernet, Wi-Fi) and device connections, you can configure on GAC2500 or log in the GAC2500 web UI to configure. For more information about using web UI, please refer to the GAC2500 Administration Guide in <u>www.grandstream.com</u>.

# Network

Network connection has a variety of ways, one is wired connection via the cables, and the other way is to connect via Wi-Fi.

# Ethernet

If the user would like to use Ethernet connection for network access, please connect the Ethernet cable to the LAN port of the GAC2500. Ethernet connection is turned on as DHCP by default.

To configure Ethernet settings on GAC2500:

- 1. Plug the Ethernet cable into the LAN port on the back of the GAC2500.
- 2. Go to LCD menu $\rightarrow$  Settings $\rightarrow$  Advanced settings  $\rightarrow$  Wireless & network  $\rightarrow$  Ethernet  $\rightarrow$  IPv4 Settings.
- 3. Tap on "Address Type" to select DHCP, Static IP or PPPoE as the address type.
  - For DHCP, save the setting and the GAC2500 should be able to get IP address from the DHCP server in the network.
  - For static IP, enter IP Address, Subnet Mask, Default Gateway, DNS Server and Alternative DNS server for the GAC2500 to correctly connect to the network.
  - For PPPoE, enter PPPoE account ID and password so the GAC2500 can get IP address from the PPPoE server.

## WI-FI

## Turning Wi-Fi On or Off

Wi-Fi is supported and built-in on the GAC2500. On the LCD display, go to Settings $\rightarrow$ Advanced settings $\rightarrow$ Wireless & network  $\rightarrow$  Wi-Fi to turn on and configure Wi-Fi.





Wi-Fi	🔒 ቹ 🕫 🖘 04:59
GS_24 Obtaining IP address	((f <sup>a</sup>
dlink_DWR-113 Secured with WEP	((1)
Tenda_165878 Secured with WPA	((î°
HP-Print-a0-LaserJet 200 color	((•
SPBMaroc Secured with WPA2 (WPS available)	(îçâ
GS_WiFi Secured with WPA/WPA2	(;;*

#### Figure 22: GAC2500 Add Wi-Fi Screen

## Search and Add Wi-Fi

Once Wi-Fi is turned on, GAC2500 will automatically start the scanning within the range. A list of Wi-Fi networks will be displayed as scanning result. Tap on the SSID and enter the correct password information to connect to the selected Wi-Fi network.

Follow the steps below for static IP usage in Wi-Fi environment:

- 1. Tap on one Wi-Fi network in the scanned Wi-Fi list to bring up the dialog that shows signal strength, security, password and option "Show advanced options".
- 2. Select "Show advanced options". The dialog will show additional option "IP settings".
- 3. In "IP settings", select Static IP, enter IP Address, Subnet Mask, and Default Gateway for the GAC2500 to correctly connect to the network.

# Bluetooth

Users could use the Bluetooth to send or receive files to cellphone, or use Bluetooth speaker and etc.

## **Turning Bluetooth On or Off**

There are two ways to enable Bluetooth:

- On the LCD display device, go to Settings→Network→Bluetooth.
- Click Bluetooth in the drop-down status bar.

# Pairing GAC2500 with a Bluetooth Device

Before connecting GAC2500 with other Bluetooth device, users must pair them first. They will stay paired afterwards unless they are manually unpaired. To pair Bluetooth device:

- 1. On the LCD display device, go to Settings  $\rightarrow$  Bluetooth. Switch the "Bluetooth" option.
- 2. Select "Bluetooth settings", drag up from LCD bottom and press button on the remote control and select "Search for devices".





- 3. The GAC2500 scans and displays the IDs of all available Bluetooth devices in range. Once the Bluetooth device shows up in the result, tap on it to start pairing.
- 4. Confirm the passkey in the prompted message (if any). Or if passcode is required, please refer to the device's documentation or other procedures to obtain the passcode.

#### **Connecting to a Bluetooth Device**

After successfully paired, the device will be connected to the GAC2500 immediately. Users will see this

device listed under "Paired Devices". Tap on rext to the connected device. Users will see options "Rename", "Unpair" and etc.

Blueto	oth	≱ ⊖ 10:06
¢	GAC2500_7E7CE8 Only visible to paired devices	
Q	Disable Headset Mode	
Paired	devices	
¢	GAC2500_81A32C	- <u>-</u>  - - <u>-</u>  -

Figure 23: GAC2500 Bluetooth - Paired Device

If the connection is lost between the Bluetooth device and GAC2500, go to LCD menu  $\rightarrow$  Settings  $\rightarrow$ Bluetooth  $\rightarrow$  Bluetooth setting and click on the device name under "Paired devices" again to reconnect. When enabled headset mode, the connected Bluetooth device could use GAC2500 as a headset audio device. You can see the Bluetooth device is displayed as an account on the left home screen. You can make dial-ups with this account directly, or as a party to join conference.



Figure 24: GAC2500 Bluetooth - Headset Mode







- When enabled Bluetooth headset mode, a pop-up dialog will prompt to remind users whether import contact or call history from Bluetooth device (your phone), if agree, when you input digits in input box, the device will automatically start contact/call history matching.
- When enabled Bluetooth headset mode, when your Bluetooth device has an incoming call, GAC2500 also rings and displays call screen at the same time. You can either answer the call with your Bluetooth device or GAC2500.
- When enabled Bluetooth headset mode, you can switch audio channels freely on your Bluetooth device.
- please note when enabled Bluetooth headset mode, making calls with Bluetooth account is actually with your device and it may generate flow/communication fees, GAC2500 only serves as a Bluetooth headset to transmit and control audio.

## **Sending Files via Bluetooth**

Users could transfer files, share contacts information from other Bluetooth portable devices to GAC2500 after pairing and connection. A prompt for file transferring will be displayed on GAC2500 LCD display device when the GAC2500 receives the file transferring request. Accept the request to receive file and the file will be stored under SD Card/Bluetooth directory.

## **VPN Settings**

Users can add VPN using different protocols. Follow the steps below to set up VPN.

- 1. On the LCD display device, go to Settings  $\rightarrow$  Advanced settings  $\rightarrow$  Wireless & network  $\rightarrow$  VPN.
- 2. Tap on "Add VPN file" to access configuration page as shown below;

VPN			<u></u> 12:09
Add VPN pro		PN profile	
	Name		
	Туре		
	PPTP		
	Server address		
	Cancel	Save	

Figure 25: GAC2500 Add VPN Files Screen

- 3. Fill in parameters and save, go back to VPN page, you will find the new VPN file you just added;
- 4. Tap on the VPN file to open the validation page, fill in correct username and password to connect to VPN.





If the GAC2500 is connected to VPN successfully, icon will be shown in the top status bar; if the

connection is failed, a prompt box will pop up to remind users whether to connect again. If icon displays in the top status bar, please check whether your VPN configuration is correct.

Parameters	Descriptions
Layer 2 QoS 802.1q/VLAN Tag	Assigns the VLAN Tag of the Layer 2 QoS packets for LAN port. Default value is 0. <b>Note:</b> Please do not change the setting before understanding the VLAN's settings or consulting the network administrator. Otherwise, the device might not be able to get the correct IP address.
Layer 2 QoS 802.1p Priority	Assigns the priority value of the Layer 2 QoS packets. Default value is 0.

#### Table 7: GAC2500 VLAN Configuration Parameters

# **LLDP Settings**

Access GAC2500 home screen, go to **Settings** $\rightarrow$ **Advanced settings** $\rightarrow$ **Wireless & network** $\rightarrow$ **Additional network settings** to configure LLDP settings on the GAC2500.

Parameters	Descriptions
LLDP	Enable or disable LLDP. The default setting is disabled.
Layer 3 QoS for SIP	This field defines the layer 3 QoS parameter for SIP packets. It is the value used for IP Precedence, Diff-Serv or MPLS. The Default value is 48.
Layer 3 QoS for Audio	This field defines the layer 3 QoS parameter for audio packets. It is the value used for IP Precedence, Diff-Serv or MPLS. The Default value is 48.
LLDP TX Interval(s)	Configures the interval the phone sends LLDP-MED packet, the default setting is 30s.

#### Table 8: GAC2500 LLDP Configuration Parameters

## 802.1x Mode

Access GAC2500 home screen, go to **Settings**  $\rightarrow$  **Advanced settings**  $\rightarrow$  Wireless & network  $\rightarrow$  Additional network settings  $\rightarrow$  802.1X Mode. By default, 802.1X is disabled. Select 802.1X mode to "EAP-MD5", "EAP-TLS5" or "EAP-PEAP" to turn on 802.1X. Once 802.1X mode is enabled, the user will be required to enter the identity and Password to be authenticated in the network.

#### Table 9: GAC2500 802.1X Mode Parameters

Parameters	Descriptions
802.1x Mode	Allows the user to enable/disable 802.1X and configure 802.1X mode. The default
	setting is disabled.





Identity	Enter the Identity information for the 802.1X mode.
MD5 Password	Enter the MD5 Password for the 802.1X mode.
CA Certificate	Upload the CA certificate for the 802.1X mode.
Client Certificate	Upload the CA certificate for the 802.1X mode.
Private Key	Upload the private key for the 802.1X mode.





# **MAKING PHONE CALLS**

# Account

GAC2500 supports up to 6 independent SIP account and 1 BlueJeans<sup>™</sup> account. Users need to register their own accounts to the SIP server to make calls via the accounts.

The following figure shows the account is successfully registered (account icon is highlighted in green).

192.168.5.153 💼 💭 🖓 💭 11:09				
Mode Call 🔻			$\langle \times$	₹.,
2000 2000	1	<b>2</b> ABC	3 DEF	<b>999</b>
Bluetooth acc	<b>4</b> <sub>GHI</sub>	5 JKL	6 MNO	Conf <sup>0</sup> Line
Skype for Busi	7	8	9	
MPK Hotkeys	PQRS	τūν	WXYZ	Ł
	*	<b>0</b> +	# SEND	Contacts

Figure 26: GAC2500 Registered Account Status

The GAC2500 supports also using dial pad to dial out call in Skype for business app.

# Making a Call

# **Direct Dialing**

GAC2500 home screen is the dial screen or you can tap on 🤽 on desktop to access dial screen.

- 1. Enter the dial screen, select account and call mode;
- 2. Enter the necessary digits on the keypad;
- 3. Tap on **t** to dial out.

# Motes:

- 1. GAC2500 allows users to configure the "#" key as the "Send" key. If users need to cancel this setting, please log in the built-in Web page to set the parameter "use # as the dial key" to "No".
- Enter digits in the dial-up box. If the digits or the letters for the digit matches contacts and call history, a dropdown list of numbers will be displayed. For example, entering 5 (JKL), 6 (MNO), 4 (GHI) and 6 (MNO) will display 5646 or john if contact "john" exists. Users can then select it to dial out.
- 3. Users do not need to change call mode to "IP call" to make a IP call. Dial the full IP such as 192\*168\*124\*123#5062 would make the call. But quick IP call still needs "IP call" selected.





- 4. If input area has a number, the GAC2500 will check the account call settings to see if "Use # as Dial Key" is enabled or not.
- 5. If input area has no number, DUT will use '#' as redial directly.

## **Redial**

Redial is to dial the last dialed-out number. It is only available when the call log exists.

- 1. Enter the dial screen;
- 2. Press the button **Solution** or tap on "#" to dial the last dialed-out number automatically.

Note: You can redial the last dialed-out number, but unable to dial the conference.

# **Dialing a Number via Contact**

Follow the steps below to dial from dial pad Contacts.



- 1. Click on the Contacts <sup>Contacts</sup> on the down right of dial pad.
- 2. Input the number.
- 3. Tap on the dial key 🕓 to dial out.

Or, check the for more than one contact, then tap on on the up right to start a conference.

Follow the steps below to dial a number via Contacts app.

- 1. On the LCD display device, access Contacts by tapping on the icon <sup>L1</sup> on LCD.
- 2. Navigate and select in the Contacts entries using the remote control navigation keys.
- 3. Tap on the dial key 🕓 to dial out.

## **Dialing a Number via Call History**

1. On the LCD display device, access Applications on home screen and access call history by selecting

icon 🕓

- 2. The LCD will display all call history types. Navigate in the call history list by selecting the call history category. Select the call history entry you would like to dial out.
- 3. Press 🕓 to dial out.
- Or, check the is for more than one contact, then tap on is on the up right to start a conference.

Follow the steps below to dial a number via Contacts app.





- 1. On the LCD display device, access Contacts by tapping on the icon **L** on LCD.
- 2. Navigate and select in the Contacts entries using the remote control navigation keys.
- 3. Tap on the dial key 🕓 to dial out.

# **Direct IP Call**

Direct IP Call allows GAC2500 and another VoIP device to talk to each other in an ad-hoc fashion without a SIP proxy. VoIP calls can be made between these two if:

- Both GAC2500 and VoIP phone have public IP addresses Or
- Both GAC2500 and VoIP phone are on the same LAN / VPN using private or public IP addresses Or
- NAT is disabled in network or GAC2500 NAT is disabled for the account.

Both devices 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:

- 1. Access the dial screen on GAC2500;
- 2. Set the mode to "IP Call";
- 3. Input the target IP address. For example, if the target IP address is 192.168.124.123 and the port is 5062, input the following:

192\*168\*124\*123#5062

The \* key represents the dot (.) and the # key represents the colon (:).

4. Press **t** to dial out.

# ▲ Note:

- In dial pad, default call mode also supports IP call by dialing IP address. GAC2500 would analyze the input and make IP calls.
- Default call mode does not support quick IP call. If you want to make quick IP call, please change the call mode to "IP call".

# **Paging/Intercom**

Before placing paging/intercom, please make sure the callee has paging/intercom enabled so it can automatically answer the paging/intercom call. To make paging/intercom call:

- 1. Access the dial screen on GAC2500;
- 2. Set the mode to "Paging";
- 3. Enter the number to dial;
- 4. Press **S** to dial out.





# **Answering a Call**

 Phone
 Image: Image:

When the device is in idle and there is an incoming call, the device will show the call screen as below.

Figure 27: GAC2500 Single Incoming Call Screen

Select "Answer" to answer the call, or reject the call by pressing the "Reject" soft key.

When there is an incoming call during an active call, users will hear a call waiting tone with the LCD displaying the caller name and ID for the incoming call.



Figure 28: GAC2500 New Incoming Call Screen

Users could select "Answer" to answer with audio only, or eject the call by pressing the "Reject" soft key.

# **Reject Call via SMS**

Users could reject incoming calls via messages. Please access Notices application 🔟 on desktop and

tap on Settings on the upper right corner, and enable "Enable Quick Reply". You can also tap on elevent to custom your reply.





Notices settings	00:28
General settings	
Allow reminder Enable reminder	
Quick reply	
Enable quick reply Quick reply will be sent when the call is rejected	
I am busy now. I will call you later.	A810
	Add new 🕒

#### Figure 29: Reject Call via SMS

Once enabled "Enable quick reply", when there is an incoming call, you can tap on "SMS reply" to access quick reply list, select the reply to send the reject call.

**Note:** Notices reject function works when the callee sends the SIP message to the caller to reject call, please confirm your service provider supports this service.

# **Call Management**

During an active call, you can make other operations like hold/hold, mute/unmute, call recording, add a new call, start conference, or end the call.



#### Figure 30: GAC2500 Single Calling Screen

- Call Lines: Display the current line status: active, hold, incoming, outgoing.
- Add to Conf: Tap to add all active lines to conference members.
- Mute/Unmute: Tap to mute/unmute the call.
- Hold/UnHold: Tap to hold/hold the call.





- Start/Stop recording: Tap to start/stop recording.
- **Volume:** Tap to bring up the volume bar to adjust the volume.
- **More**: Bring up more options including like MPK, Transfer, etc.
- **DTMP Keypad:** Tap to bring up the DTMF keypad.
- End: End the current line.

#### **Call Hold and Call Resume**

- Call Hold

During the active call, press HOLD U button to put the current call on hold. Users could then make or answer a new call. It shows as follows:

Phone 🥲 🖬 🗐 🕸 🗘 11:54						
2001						
		Local holdi	ng (2000)			
		00:0	0:59			
				dd to conf		
		(20				
		(20	001)			
Mute	Unhold	Start	Volume	More	End	
white	onnoid		volume	wore	Ena	

Figure 31: GAC2500 Call On Hold Screen

#### - Resume to Call

If the active call is on hold, users could press the "UnHold" button to resume call or tap on the "End" button to hang up the call.

## **Call Record**

Users could save the call conversations to the GAC2500 by recording during an active call. You can listen to the recordings from Recorder, please refer to the chapter Recorder for details.

- 1. During an active call, tap on the "Start Recording" soft key in the bottom to start recording as shown in the figure below:
- 2. Tap on the Stop Recoding soft key to stop recording.





Phone				😌 🖬 🖬 ቹ	\$ 🗘 12:02
		5	2001		
		00:0	. (2000) <sup>08:42</sup> 201) 722	dd to conf	• 00:00:08
Mute	Hold	Stop recording	Volume	More	End

Figure 32: GAC2500 Mew - Start Recording

## **Call Details**

Users could view the call details of the GAC2500 during an active call by following steps below:

1. During an active call, tap on the "More" soft key in the bottom to show more options as shown in the figure below:



Figure 33: More softkey

2. Tap on the "Call Details" soft key to show the call details.





Phone	🔩 🖃 ए 🖇 🗘 12:22					
Call Details: 2001						
	Send	In call	Receive . (2000)	2		
Audio	Packet loss rate : 0.0%       00:28:53       Packet loss rate : 0.0%         Bit rate : 62Kbps       Bit rate : 62Kbps       Bit rate : 62Kbps         Codec : G722       Codec : G722       Add to conf					
<b>(2001)</b> G.722						
Mute	Hold	Start recording	Volume	More	End	

Figure 34: Call Details

## Mute

During the active call, you can tap on the "Mute" button to mute the call, you will not be heard by others. The screen is as shown below.



Figure 35: GAC2500 Mute Call Screen

# **Call Transfer**

is a telecommunications mechanism that enables a user to relocate an existing telephone call to another phone or attendant console, call transfer including blind transfer and attended transfer according to different situations, for example, if user A wants to transfer the call with user B to user C, blind transfer or attended transfer is optional.





## **Blind Transfer**

- 1. User A and user B are in an active call.
- 2. User A tap on Transfer button to bring up the transfer screen;
- 3. Set the transfer mode to Blind. The default mode is Blind;
- 4. Enter the digits and press the SEND to transfer the call with user B to User C. When user C's phone rings, the phone interface of user A is shown in figure 32. If user C answers the call, user A will automatically go back to the idle screen, which indicates the successful transfer;
- 5. User C's phone will ring, the phone with CID function will display user B's number on screen as the caller.



Figure 36: GAC2500 Transfer - Blind Transfer

# ▲ Note:

- If inputted the wrong digits, press the button 🖄 to delete the digit one by one, or long press the button to empty all digits.
- Users could drag up the bottom of LCD and tap on Back icon to go back to the active call interface if wants to cancel transfer.
- The result of step 4 and 5 may differ because of SIP servers. The result described below is based on Grandstream SIP server.

# **Attended Transfer**

There are two ways of attended transfer: Call Forward and Call Transfer.

## - CALL TRANSFER

- 1. User A and user B are in an active call;
- User A presses the button put on hold;

to add a new line with user C. The call with user B will be automatically

G



- 3. User C answers the phone to set up the line with user A; User A taps on More button in the menu then choose Transfer to bring up the transfer screen. The line with user B will be displayed on screen;
- 4. User A sets the transfer mode to Attended then choose to display user B's number, the call will be transferred to user C. User B and user C could talk directly via the phone.

Phone	6		ૡ	0 10:12
Attended 🖌			$\langle \times$	٩.
31629 31629-31627	1	2 ABC	<b>3</b> DEF	122
	<b>4</b> <sub>GHI</sub>	5 JKL	6 MNO	
	7 PQRS	<b>8</b> TUV	9 WXYZ	1
	*	0	# send	Contacts

Figure 37: GAC2500 Transfer - Attended Transfer

#### - Note:

When receiving Incoming call which has been transferred to the GAC, the device will indicate that by displaying the message "Transferred from" as shown on bellow screen.



Figure 38: Incoming Transferred call notification

# - CALL FORWARD

- 1. User A and user B are in an active call. User A tap on More button in the menu to choose Transfer to bring up the transfer screen;
- 2. Select the Transfer mode. As shown in figure 34;





Attended	-			$\langle \times$	٩.
		1	2 ABC	3 DEF	121
		<b>4</b> GHI	5 JKL	6 MNO	
		7 PQRS	<b>8</b> TUV	9 WXYZ	1
		*	0	# SEND	Contacts

Figure 39: GAC2500 Call Forward - Select Forward Mode

- 3. Input digits and then press the Send soft key;
- 4. Users will hear the ring back tone and see the prompt as shown below. Hang up the phone to transfer the call to the third party C automatically; press the "Cancel" button will cancel the transfer;

Phone				و	0 10:13
Attended	4			×	<b>S</b>
		Pron	npt		
	Cancel transferring, or end the call to access attended transfer before answer?				Conf 0 Line
	Ca	ncel	End		1
		*	0 +	# SEND	Contacts

Figure 40: GAC2500 Call Forward - Transferring

5. User A could press the "Transfer" button to forward the call to user C. Click on "Split" button to establish line with the third patty, while user B will be put on hold.

Phone						5	0 10:13
Attended	4				$\langle \times$	]	٩.
		Prom	pt				
	Split the cal transfer?	ll, or end the c	all to ac	cess a	ttended		Conf 0 Line
	Split	En	d	Tr	ansfer		1
		*	( +	)	# SEND		Contacts

Figure 41: GAC2500 Call Forward - Split





# DND (Do Not Disturb)

When DND is on, the incoming calls to the GAC2500 will be blocked without ringing. Users could see the

blocked calls in call history. Once enabled, the DND icon OND will be displayed in the status bar on

the top of the screen.

- 1. Hold the screen at the top of the status bar, drag and drop down to open the status bar.
- 2. Touch the DND icon to turn it on/off.

# ▲ Note:

- When DND is on, the active call will not be affected, all the calls after to the registered accounts will be blocked.
- When DND is on, the incoming calls to the GAC2500 will be saved in the call history.

# **Missed Call**

When there is a missed call, the LCD will show missed call screen instead of regular idle screen. Users can tap on the one of missed call entry to access the missed call log. To close the missed call screen

and return to the idle screen, tap on 🕙 on the upper right.

## **Call Forward**

Call forward (Unconditional/No-answer/Busy/Time-based) can be set up on device or from web GUI. Log in GAC2500 web GUI and go to Settings page → Account → Call Settings. For details, please refer to "GAC2500 Administration Guide".

#### Set On LCD

Go to **Settings**→**Personalized account** to select the account and access configuration page and Tap on Call Forwarding Type to access and specify the forward type.

Call forwarding	VLAM 🗇 15:04
Call forwarding	
Call forwarding mode	Unconditional
All to	Not configured

#### Figure 42: GAC2500 Call Forward Type Setting Screen

• **Unconditional**: Forward all calls to particular number





- Time based: Forward calls based on the time range.
- **Busy**: Forward calls when an active call exists.
- **No-answer**: Forward calls when phone is not answered.

#### Set from Web GUI

Log in the Web GUI and go to **Account**->**Call Settings** to find Call Forward option as shown below and specifies the call forward mode in the drop-down list.

Call forwarding	
Call forwarding mode	Unconditional 🔻
All to	

Figure 43: GAC2500 Call Forward Mode On Web GUI

## 7-way Conference

The GAC2500 supports up to 7-way conference. The GAC2500 can be the host to initiate a conference or join other conferences as a party.

## **Initiating Conference**

The conference can be initiated from dial screen, or start conference from schedule. The following steps introduces two ways to start conference from dial screen, please refer to chapter **Schedule Conference** for more details about initiating conference from schedule.

- Enter multiple numbers in the text box or select parties from the list below.
- 1. Access dial screen when the phone is on idle;
- 2. Set call mode and select account;
- 3. Enter digits in the textbox;
- 4. Tap on the matching phone number on the left to add it to the textbox, you can add multiple numbers.
- 5. Repeat the steps 3-4 to add more numbers;
- 6. Tap on **S** to dial out.
- 1. Access dial screen when the phone is on idle;
- 2. Tap on Conf button A or the icon 🔯 on desktop to access conference page as shown below;





Conferenc	е				<b>○</b> 14:49
	4		ost	+	
	+			+	
		$\left( + \right)$	$\left  + \right $	_	
More					End

Figure 44: GAC2500 Conference Screen

3. Tap on + to start adding parties to conference;

Phone	6			0 10:47
Mode Call			$\langle \times$	٩.
<b>4502978636</b> 4502978636	1	2 ABC	3 DEF	122
MPK Hotkeys	<b>4</b> GHI	<b>5</b> JKL	6 MNO	Conf 0 Line
	7 PORS	<b>8</b> TUV	9 WXYZ	1
	*	<b>0</b> +	# send	Contacts

Figure 45: GAC2500 Add Party To Conference

- 4. Enter digits and then tap on to dial out;
- 5. Repeat the steps 3-4 to add more parties.

# A Note:

- You can add multiple members to conference at one time.
- You cannot stay in one single active line once joined conference.

# **Answering an Incoming Call in Conference**

You can specify how your GAC2500 handles incoming calls. Depending on your configuration, your GAC2500 automatically answers a call or prompts you to answer a call manually. Log in GAC2500 web GUI and go to Account→Call Settings and set "Auto-answer" option to "Yes", or go to Settings→Personalized Account→Account and set "Auto-answer" to "Yes" on GAC2500. Once enabled,

All incoming calls will be automatically answered, you can see the icon 🗳 displayed on the status bar.





 Conference
 Image: Conference

 00:00:27
 Image: Conference

 Host
 Image: Conference

 Host
 Image: Conference

 Image: Conference
 Image: Conference

 Outcome
 Image: Conference

 Image: Conference
 Image: Conference

 Image: Conference
 Image: Conference

 Image: Conference
 Image: Conference

During a conference call, when an incoming call is received, the following prompt will be displayed:

Figure 46: Conference Incoming Call

If the call is answered, it will be added automatically to the conference.



Figure 47: Call Added to Conference

## **Conference Management**

The following figure shows a 3-way conference established.



Figure 48: GAC2500 3-Way Conference





Tap on participant icon to bring up more operations.



Mute. Once enabled, the icon next to the conference member will turn to 🥨 , and the Mute icon

becomes 🥝. The selected member will not be heard by other parties. You can tap on 🔮 to unmute the member.

Block. Once enabled, the icon next to the conference member will turn to

becomes 
. The selected member will not hear other members. You can tap on 
to unblock the member.



Details. Tap to view conference details, including whether to use SRTP or codec.

**Delete**. Tap to delete conference members.

More. Bring up more options including Open DTMF, Mute All, Block All, etc.



#### Figure 49: GAC2500 Conference-More

- **MPK**. Tap to access MPK interface.
- Mute All. Tap to mute/unmute all parties except the host.
- Block All. Tap to block/unblock all parties except the host.
- Start Recording. Tap to start/stop recording. The recording file will be saved automatically.
- Keypad. Tap to pen DTMF keyboard.

Hold. Hold/UnHold conference.





Lock. Lock/Unlock conference.

End. End conference and go back to home screen.

## **Invite Members to Conference**

Users could use one of the following ways to add members.

- Access the dial screen by clicking on the ADD icon to conference screen. Then enter the number to dial out. Once the member answers the call, it will be connected into the conference automatically.
- Tap on **•** to access the dial screen, then enter the number to dial out. Once the member answers the call, it will be connected into the conference automatically.
- The member calls the conference number. If the host answers the call, the member will join conference automatically.

## **Removing Member from Conference**

To remove a member from the conference, tap on the member icon and click 🥙 to delete it.

## **Third Party Applications**

The GAC2500 runs the Android Operating System and therefore offers full access to the hundreds of thousands of Android apps in the Google Play Store, including Skype for Business <sup>™</sup>, Google Hangouts <sup>™</sup> etc. For example, to use third party app Skype for Business <sup>™</sup> during the conference:

- 1. Establish a conference call on the GAC2500;
- 2. On conference screen, click on + ;
- 3. Input numbers or contacts of Skype for Business<sup>™</sup> and dial out;
- 4. The new call will be added to conference.

# ▲ Note:

- You should install the third party app and sign in first.
- You should go to Web GUI -> Advanced -> Call Features and set Display Soft Keyboard as Yes.
- Some third party apps may not support the GAC2500's dial pad, you have to go to the application's GUI to dial out.
- If you dial SIP numbers and third party apps' numbers at the same time, the SIP numbers will be dialed out first and go to the conference room, you need return to the dial pad, and then the third party apps' numbers will be dialed out automatically.
- In order to fully use of Skype for Business™ (Lync), you should download it from the GS Market. Other versions may not compatible.





## **End Conference**

To end the conference, tap on END button to disconnect. If the GAC2500 is the conference host, ending the conference will disconnect all the members from the conference. If the conference member hangs up the call, it will be disconnected from the conference but other parties in the conference will stay in the conference.

## **Schedule Conference**

Schedule feature allows the user to set a specific time to hold a conference in advance, with conference reminder and members.

Tap on is shown below, including upcoming conferences and conferences that has been held:

Schedule		🗘 05:46
< Upcoming	History	
market meeting	Conference	ce not started
3162, 3655, 3965		
2015/12/23 05:44 - 06:14		Start

Figure 50: GAC2500 Schedule Screen

## **View Conference Details**

Users could view scheduled conference details after the current time. Select one conference and tap to

view conference details. Press  $\leq$  on the upper left corner or  $\stackrel{\frown}{\rightarrow}$  to exit.

Schedule		m 🖬 👘 🗘 09:08
C Document	ation DPT	S 💉 🗇
Members of conference	1401	1401
	1402	1402
	2500	2500
Conference time		2016/04/21 09:33 (GMT-4:00)Eastern Time
Duration		30 Min

Figure 51: GAC2500 Conference Details Screen





## **Add Scheduled Conference**

Follow the steps below to add a scheduled conference:

- 1. Tap on 👜 on desktop to access Schedule screen.
- 2. Tap on in the upper right corner to access "Add Conference" screen as below.



#### Figure 52: GAC2500 Add Conference Screen

- 3. Fill in conference name, members, start time, conference duration, etc.;
- 4. Tap on  $\checkmark$  to save the scheduled conference and go back to schedule screen.

#### Table 10: GAC2500 Add Conference Parameters

Parameters	Descriptions
Conference name	Set the conference name to identify this conference.
Members of conference	Click on button 📾 to access the Add Member screen. You can add one member or a group of members. Tap on 🇹 on the upper right corner to save and go back to Add Conference screen. Up to 6 members can be added. Note: You can only add up to 6 members.
Cycle conference	Set conference cycle.
Conference date	Configure the date when the conference starts. It should not be earlier than the current date.
Time zone	Configure conference time zone.
Start Time	Configure the time when the conference starts. It should not be earlier than the current time.
Duration (Min)	Configure conference duration.
Reminder time	Configure whether to remind users in advance. A prompt dialog box will pop up on the GAC2500 screen before the conference starts.
Auto conference	Configure whether to initiate conference when the conference time comes. If disabled, a prompt dialog box will pop up on the GAC2500 screen 10 minutes before the conference starts to reminder users whether to start conference.





Auto-answer for conference member	Configure whether to answer the call from the conference member automatically. If the call is not from the conference member, it will not be answered automatically.
Lock	Users could lock/unlock the scheduled conference. Once locked, the other incoming calls will not be able to join conference. The conference screen will display the lock icon when the scheduled conference started, you can also disable this function, please refer to chapter <b>Conference Management</b> for more details.
Auto record	Configure whether to record automatically once the conference started. If enabled, it will record when the conference starts (with active line).
Block when enter	Configure whether to block conference members when they enter conference. If enabled, conference members who auto answered will not hear others unless unblocked by the host.

# Schedule Conference via Google Calendar

Access Schedule screen, then tape on 8, the following page is shown:

Schedule	<b>∜</b> © ີ 06:00
< Account Settings	+
Google account	
Sync interval	Never
"description" content can fill the particip	account>" data format, wherein the number
For example: 1000 <test@gmail.com> &lt;</test@gmail.com>	Account 1>; 1001 <account 2=""></account>
Figure 53: Add (	Google Schedule



- 2. Add an existing or create a new email, and follow instruction.
- 3. Once done the following screen will be shown:





 $\bigcirc$ 

Schedule	🛋 📼 🔒 💨 🛠 🗘 06:21
Account Settings	+
zack.michael.gs@gmail.com	$\otimes$
Sync interval	Never
"description" content can fill the particip	account>" data format, wherein the number tional items, a plurality of members

Figure 54: Select Google Account

4. Click on account Settings, then go to the google account and create a new event Then enter conference members in "Description" option. The members should be in the format: Number<Email><Account> "Number" filed is required while the other two fields are optional.

For example: 1000<test@gs.com><1000>;0655443322<gsconf@gs.com>;0655443311

5. After creating the conference go back to the schedule screen and tap on

Schedule			© 🗘	05:27
Upcoming	History	Ċ	8	÷
GAC		Conferenc	e not si	arted
1000, 1001				
2016/11/30 05:30	0 - 06:30		Sta	art

Figure 55: Google Calendar Conference

# **Edit Scheduled Conference**

Follow the steps below to edit scheduled conference:

- Access conference schedule screen and select the conference entry you would like to edit. 1.
- Tap on *l* on the upper right corner to access edit screen. 2.
- Tap on  $\checkmark$  on the upper right corner to save changes and go back to schedule screen. 3.





## **Reschedule Conference**

If you want to reschedule the conference that has been held, please refer to steps in chapter *Edit Scheduled Conference* to edit conference again and save.

- 1. Go to Schedule app  $\rightarrow$  History section.
- 2. Slide left to go to conference history.
- 3. Tap on the reschedule icon it to configure it.
- 4. Tap on confirm icon 🔼

## **Delete Scheduled Conference**

Follow the steps below to delete the existing scheduled conference:

- 1. Access Schedule screen;
- 2. Long press the conferences entry to access the edit screen as shown below:

Schedule	🎟 🗔 🖻 ቹ 🗘 09:22
1 Selected	Ū
Documentation DPT	
1401, 1402, 2500	
2016/04/21 09:33 - 10:03	
Projects implementation	
1580, 4002	
2016/04/22 09:50 - 10:20	

Figure 56: GAC2500 Delete Scheduled Conference Screen

3. Check the conference (s) you want to delete and tap on in the upper right corner to delete.

## **Delete History Conference**

You can see all scheduled conferences which has passed the scheduled time in "History" option, you can edit/delete/reschedule the conference here.

There are 2 ways to delete history conference.

- Delete single conference entry.
- 1. Access schedule screen and select the conference entry you would like to delete;





2. Slide left on screen as shown below and tap on  $\widehat{}$ 

Sche	dule			FTP	∄ ‡⊙ ⊖	09:28
<	Upcoming	History				iii.
)9:27			🕒 30 Min	હ	÷	Ō

to delete conference.

Figure 57: GAC2500 Delete History Conference Screen

- Batch delete conference entries.
- 1. Access Schedule screen;
- 2. Long press the conferences entry to access the edit screen as shown below:
- 3. Check the conferences you want to delete and tap on in the upper right corner to batch delete conferences.

**Note:** If you edit a history conference, it will become a new scheduled conference after save.

Schedule	🖬 🎫 🗗 🕫 🗘 09:29
1 Selected	Ū
Projects implementation	
Start time 2016/04/22 09:28	
Documentation DPT	
Start time 2016/04/21 09:27	

Figure 58: GAC2500 Batch Delete History Conference Screen





# Voicemail

When there is a new voicemail, voice mail icon 😐 will show up as a notification in the status bar. Users

could go to LCD **Settings**  $\rightarrow$  **Advanced settings**  $\rightarrow$  **Account**, or login the web UI  $\rightarrow$  **Settings**  $\rightarrow$  **Account**  $\rightarrow$  **General Settings**  $\rightarrow$  **Voice Mail** UserID to configure the access number for the voicemail.

Follow the steps below to access voicemail:

Access the dial screen and input voicemail access number;

Tap on **S** on the dial screen to dial into the voicemail box;

Follow the Interactive Voice Response (IVR) for the message retrieval process.

Users could also tap on P to access the voicemail box. The number of new voicemail messages will be shown on the voice mail app icon as well. See figure below.

Voice mail	💷 🖬 🛱 ቹ 🎲 06:23
2000(0)	
None	

Figure 59: GAC2500 Voice Mail Application





# **APPLICATIONS**

GAC2500 provides built-in applications such as like Contacts, Call History, File Manager, Browser and etc. Users could also download the apps from GS market to install on the GAC2500.

# **Contacts**

GAC2500 Contacts app helps users to easily store and manage phone number and contact information. Users can add contacts on the GAC2500 or import contacts from external devices as well as download from a server. On the GAC2500 home screen, you can see local Contacts and LDAP Contacts.

Contacts	<b>(</b> ) 10:17
Contacts	Q
Local Contacts	
LDAP Contacts	

Figure 60: GAC2500 Contacts Screen

## **Local Contacts**

The Local Contacts screen shows as follows:

Conta	cts			0 10:18
<	Contacts	Groups	Blacklist	<b>⊥</b> , Q ≡
А				18 contacts
1	Apple	31621		<b>O</b>
В				G
£	Betty	31622		<b>O</b>
1	Billy	31623		C. C. R.
E				T
1	Emily	31624		C ž

Figure 61: GAC2500 Local Contacts Screen

• **Back.** Back to the previous page.





- **Contacts**. Display all contacts.
- Groups. View groups. Select one group to view group details.
- Blacklist. Display blacklist.
- Call. Tap 💟 on the contact you would like to call.
- Add Contact. Tap to access New Contact screen. Fill in contact information and save.
- Search Contact. Tap to access Search Contact screen.
- More. Tap on 📃 to export/import/download Contacts, view storage status or sort Contacts.
- Contact Details. Select one contact to view contact details.

#### Add Contact

#### Add Single Contact

Follow the steps below to add one single contact.

1. On the Contacts screen, tap on the button <sup>1</sup> to access New Contact screen;

New contact		v	- 15:56
:	X Cance	еl 🗸 ОК	
Phone-only, un	synced cont	tact	
F	irst nam	Last name	
Mobile	4	Use active account  Phone	
Home	4	Email	
Home	4	Address	
Home	4	Address	

Figure 62: GAC2500 Add New Contact Screen

- 2. Enter contact information. Choose the account on the left of the "Phone" field to dial out this number;
- 3. Click "OK" to save the contact information.

#### • Batch Import Contacts

Import function allows users to batch import contacts. The phonebook with compatible format needs to be saved to the storage devices like SD card/USB flash drive and plugged into the GAC2500.

- 1. On the Contacts screen, tap on the MENU key 📃 on Contacts screen and select "Import" to access Import Contacts screen;
- 2. Configure parameters and select the path to save the imported file;
- 3. Click "OK" to save the contact information.





Import contacts	🚥 🗘 15:58	
× Cancel	✓ ок	
Clear old history	$\otimes$	
Clear old history mode	Clear all	
Replace duplicate entries	$\otimes$	
Replace duplicate entries mode	Replace by name	
File encoding	UTF-8	

#### Figure 63: GAC2500 Import Contacts Parameters Screen

#### Table 11: GAC2500 Import Contacts Parameters

Parameters	Descriptions
Clear old history	If enabled, the previous contact records will be deleted when a new phonebook file is loaded into the phone. If disabled, both the old contacts and new contacts will be kept in the GAC2500.
Clear old history Mode	Configures whether clear all contacts or reserve local contacts when clear old list. The default setting is "Clear All".
Replace duplicate Entries	If enabled, when the phonebook file is imported to the phone, the duplicated entries will be removed. If disabled, both the old contacts and new contacts will be kept in the GAC2500.
Replace duplicate Entries Mode	You can replace duplicate entries by name or number.
File encoding	Select the encoding format for XML contact file.
File type	Select the file format for phonebook file import. The device supports xml, csv and VCard format.
Select file	Select file from storage device plugged into the GAC2500.

#### **Download Contacts**

GAC2500 supports downloading phonebook from the file server to batch add contacts. The default file name the GAC2500 looks for is "phonebook.xml". The phonebook XML file should be placed under the file server directory for the GAC2500 to retrieve. The GAC2500 supports VCard/xml/csv file format.

- 1. On the Contacts screen, tap on the MENU key and select "Download" to bring up the Download Contacts screen;
- 2. Configure parameters and select the path to save the file;
- 3. Tap on the "OK" key to save the contact information.





Download contacts	VIAN 💭 16:05
X Cancel 🗸 Save	🛨 Download now
Clear old history	$\bigotimes$
Clear old history mode	Clear all
Replace duplicate entries	
Replace duplicate entries mode	Replace by name
Download mode	HTTP 🖌

#### Figure 64: GAC2500 Contacts Screen

#### Table 12: GAC2500 Download Contacts Parameters

Parameters	Descriptions
Clear old history	If enabled, the previous contact records will be deleted when a new phonebook file is loaded into the phone. If disabled, both the old contacts and new contacts will be kept in the GAC2500.
Clear old history mode	Configures whether clear all contacts or reserve local contacts when clear old list. The default setting is to "Clear All".
Replace duplicate entries	If enabled, when the phonebook file is downloaded to the GAC2500, the duplicated entries will be removed. If disabled, both the old contacts and new contacts will be kept in the GAC2500.
Replace duplicate entries mode	You can replace duplicate entries by name or number.
Download mode	Select the phonebook download mode from TFTP, HTTP or HTTPS.
File encoding	Select the encoding format for the XML contact file.
Time intervals	Configure the time interval to download XML contact file.
Download server	Fill in the server URL or IP address to download the XML contact file to the device.
Username	The username that may be used for download server login
Password	The password that may be used for download server login

#### **Search Contacts**

GAC2500 supports Search function, users could tap on  $\[ \] \]$  icon on the Contacts page and input the keyword to search in the pop-up dialog. GAC2500 will automatically display contacts items related to the search info. Fuzzy search and precise search are both supportive.





## Manage Contacts

#### Delete Contact

- 1. Long press the contact you would like to delete to access edit screen;
- 2. Check the contact, or click the button on the upper left corner of the toolbar for quick operation. "Select All" indicates check all select entries while "Cancel All" indicates uncheck all selected entries;
- 3. The digit on the upper right corner indicates how many contacts you have selected, tap on to delete contacts you selected.

#### • Star Contacts

In GAC2500, users can add at most 18 star contacts.

1. Locate a contact from the list, tap on the contact, shown as below.

Contact det	ails		C 12:05
< 👤	dd aa		💉 🗵 들
Mobile	5110018	1122	

Figure 65: GAC2500 Contact Edit Page

2. Choose a number to star, and tap the icon 😒 on the right. Then the number will be displayed on the top of contacts list.

## Create Contact Short Cut

GAC2500 supports creating a shortcut of a contact to desktop, or to speed dial hotkey.

1. In Contacts app, find the contact to create shortcut, tap on the contact to edit the detail.

2. Tap on the send icon and choose shortcut mode in the prompt.

**Note:** When a contact has multiple numbers, choosing "Send to Speed Dial" would create multiple hotkeys in the app.

#### • Export Contacts

The GAC2500 supports exporting phonebook as VCard/xml/csv files and save the files to other external storage devices.





1. Press the MENU key 📃 on Contacts screen to bring up the Export contacts screen.

Export contacts	vlah 😳 16:17
× Cancel	✓ 0К
File encoding	UTF-8
File type	xml 🔺
Choose directory	Not selected

#### Figure 66: GAC2500 Export Contacts Screen

- 2. Configure parameters as shown in table below and select the directory to save the exported file.
- 3. Tap on the "OK" key to export the file.

#### Table 13: GAC2500 Export Contacts Parameters

Parameters	Descriptions
File encoding	Select the encoding format for XML contact file.
File type	Select the file format for phonebook file export. The device supports xml, csv ,vcard.
Choose directory	Select directory to save file.

## Send Contacts

- 1. Long press the contact you would send to enable edit screen;
- 2. Check the contact you want to send;
- 3. Choose the way to send contact. If Bluetooth Device Chooser has been enabled, users could send the contact to the paired user via the Bluetooth.

#### • Contacts Storage Status

Tap on 📃 the Contacts page to view the contacts storage. You can store up to 2000 entries.






Figure 67: GAC2500 Contacts Storage Status Screen

#### Add Google Account

Account allows users to add vast number of 3rd party Android applications (including Google, Lync, Skype, company, Email, and etc.). Users can also sync GAC2500 via Google Play account, corporate account or Email.

Tap "Add Account" button to add new account according to the installation wizard.

The following steps demonstrate how to add a Google account.

Google Account Add a Google Account	Q 17:19	Type Email and Password Sign in	○ 17:19
Do you want to add an existing		Email	
account or create a new one?		Password	
	Existing		
	New	•	

Figure 68: GAC2500 Add Google Account - Wizard 1 &2

## Groups

Users could divide contacts into different groups with specific names. Tap on one group entry to view group details.





Group	0			0 10:21
<	Contacts	Groups	Blacklist	<b>!</b>
Black	dist (0)			
	r <b>tment (3)</b> e、Betty、Billy			9
Development (5) Emily、George、Gina、Janny、Jimmy		у	۲	
<b>UI (2)</b> Sam,	Taylor			9

#### Figure 69: GAC2500 Groups Screen

#### • Add New Group

There are 2 ways to add group members.

- Add the contact to the group when editing or adding a new contact.
- Select the contact you would to add to this group on Groups page when adding or editing a new group.

Follow the steps below to create a new group:

1. Tap on 4 the Groups page as shown below;



#### Figure 70: GAC2500 Add Group Screen

**Note:** The priority of ringtones from high to low is "Custom", "Group", "Account" and "Default". If one group has set the custom ring for its contacts, the phone will ring the custom ringtone other than other group ringtones.





- Call Groups
- 1. Tap on

on Some the upper right corner on Groups screen to access screen as shown below:

Contac	ts		🗩 🗘 17:24
	× Cancel		📞 Call
You can	add up to 6 members.		
1	Emily	31624	
1	George	31625	
1	Gina	31626	
1	Janny	31627	
	Jimmy	31628	

#### Figure 71: GAC2500 Dial Group Members Screen

- 2. Check group member (s) you want to call;
- 3. Tap on the CALL button to dial out.

#### • Delete Group

Follow the steps below to delete groups.

1. Long press the group entry you want to delete; the screen is shown below:

Group	15:29
< 1 Selected	Û
Blacklist (0)	
market department (5) Apple、Betty、Emily、George、Gina	

#### Figure 72: GAC2500 Edit Group Screen

- 2. Check to select the group (s) you would like to delete;
- 3. Tap on the upper right corner to delete.





#### • Create Group Short Cut

GAC2500 supports creating a shortcut of a group to LCD desktop, or to Group Call in hotkeys app.

1. In Groups tab under Contact app, tap on one group item to enter edit detail.

2. Tap on the send icon *icon* to prompt modes to select.

3. Check the mode to send and tap "OK".

**Note:** When choosing "Send to the Group Call (hotkeys)" but the group has more than 6 contacts, please choose at most 6 numbers.

## **Blacklist**

Blacklist helps users to block calls from blacklist at the same time does not affect normally answering other incoming calls.

Blackl	ist				•	17:23
<	Contacts	Groups	Blacklist	+	٩	٥
10000	0	10000				
20000	0	20000				

Figure 73: GAC2500 Blacklist Screen

Display blocks history.

Tap to add number to blacklist. There are 3 ways to add number: Manually add, add from contacts,

Add from call history. Select one way and tap on "OK" to add the corresponding number to blacklist. Long press one blacklist log to enter the editing mode to edit or delete the selected contact (s). Users could edit the blacklist entry when only one is selected.

Blacklist Settings.





Blackl	ist				$\odot$	16:43
<	Contacts	Groups	Blacklist	+	٩	Ø
		Add to	o blacklist			
	E	nter phone number				
	N	ote (optional)				
		Cancel	ок			



Settings		: 16:47
Block mode		
Block mode		
Block options	Block blacklist only	
Block notification		
Time settings	Block 24 ho	urs 🔺
Start time	00:	00

#### Figure 75: GAC2500 Blacklist Settings Screen

#### Table 14: GAC2500 Blacklist Settings Parameters

Parameters	Descriptions
DND mode	Turn on/off DND mode. Once it's turned on, the phone would reject all incoming calls.
Block mode	Turn on/off Block Mode. Once it's turned on, the incoming calls from the numbers in the blacklist will be rejected.
Block options	Set the types of incoming calls. This option is valid once the Block Mode is turned on.
Block notification	Set up whether to notify user after blocked calls. Once it's turned on, the block icon will be displayed in the status bar after the device blocked calls. Users could go to the notification bar to view details.
Time settings	Set up the block schedule.





# LDAP

LDAP contacts			$\odot$	16:51
<		Q,	<b>1</b> +	٥
No contacts!				

GAC2500 supports LDAP. Tap on LDAP Contacts to access the main interface as shown below:

Figure 76: GAC2500 LDAP Book Screen

Tap on 2 the upper right corner or login the Web page to configure it. (Maintenance  $\rightarrow$ LDAP Book).

LDAP
LDAP 🖌
Default

#### Figure 77: GAC2500 LDAP Settings

#### Table 15: GAC2500 LDAP Book Parameters

Parameters	Descriptions
Connection mode	Selects which protocol will be used for LDAP searching, LDAP or LDAPS.
Default dial account	Specifies default account when making outgoing from LDAP contacts.
Server address	Configures the URI of the LDAP (Lightweight Directory Access Protocol) server.
Port	Configures the LDAP server port. The default LDAP port number is 389.
Base DN	Determines 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
User name (binding DN)	Configures the bind "Username" for querying LDAP servers. Some LDAP servers allow anonymous binds in which case the setting can be left blank.
Password	Specifies the bind "Password" for querying LDAP servers. The field can be left blank if the LDAP server allows anonymous binds.
LDAP name attributes	Configures 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	Configures 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 mail attributes	Determines the "mail" attributes of each record which are returned in the LDAP search result. Example: mail
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 number filter	Defines 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 mail filter	Determines the filter used for mail lookups. Example: (mail=%) (!(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 displaying name attributes	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 (s)	Configures the interval (in seconds) for the server to process the request and client waits for server to return. The default setting is 30 seconds.
LDAP lookup when dialing	Sets the phone system to do the LDAP number searching when making outgoing calls. The default setting is "No".
Search LDAP for incoming call	Sets the phone system to do LDAP number searching for incoming calls. The default setting is "No".

Once configured, you can tap on Search button <a>
 </a>
 to input digits or name to search LDAP contact as shown below.

LDAP of	contacts		🖻 ቹ 🕸 🎲 07:28
<	Q 1		8 Q 🕹
L	1000	1000	<b>3</b>
1	1001	1001	<b>2 (</b>
1	1002	1002	<b>2</b>
1	1003	1003	<b>2</b>

Figure 78: GAC2500 Web GUI Maintenance - LDAP Book



프

Add the LDAP contact to local Contacts.

Follow the steps below to batch add LDAP contacts:

- 1. Search LDAP contacts;
- 2. Tap on to access add contact screen as shown below:





Add to Local			<b>○</b> 14:54
<			
12033011	12033011	I	
12033330	1 12033330	)1	
			-
Select All	Deselect All	Invert All	Add(0)
	Descrettivit		

Figure 79: GAC2500 Add LDAP Contact to Local

3. Check contacts entries to add contacts to local.

# **Call History**

Call History provides users access to phone's recent call records. The user can view all records, or select different categories for incoming calls, outgoing calls, missed call and conference.

To access Call History, go to Home screen  $\rightarrow$  Applications  $\rightarrow$ 

Blocked				0 10:24
<	All	Missed	Blocked	亩 🔶
Betty 31622		Account 1(31627)	Blocked: 1	10:23

Figure 80: GAC2500 Call History Screen

Click on a record in the call history and press Sto dial out this number directly. Tap one history entry to view call details for this number.





All				0 10:24
<	All	Missed	Blocked	Û
121	market meeting			10:16 🕓
1	Betty 🔇 31622			10:13 🕓
1	Sam 🔇 31629			10:08 🕓
1	* <b>5</b> 🏹 *5			09:12 🕓
1	<b>35622</b>			09:14 11/25

Figure 81: GAC2500 Call History Details

Note: Call history displays all Blue Jeans<sup>™</sup> conference call history as well. Tap on So to dial out directly and there is no need to input the password again. However, if the conference doesn't exist or the password has been changed, the re-dial will fail.

# **Call Count Call History**

Users can view number of calls made or received from one extension by following these steps:

1. Access Call History

All				🎟 ⊾ 🕫 🗘 06:56
<	All	Missed	Blocked	Ū
				20 call record(s)
Ł	<b>1004 (11)</b>			06:52
1	<b>10004</b>			06:08
<b>, 1</b>	1001,1002,Mha	mmed		06:06
121	1002,1001,1004	1		05:46

#### Figure 82: Call History Count

2. Select one call history entry to access details of the call.





Detail	S	⊾ 🎟 🕫 🗘 06:57
<	1004 1004 Account 1(1000)	<b>S</b>
2	00:00	06:52
ષ્ટ	00:00	06:52
ও	00:00	06:52
હ	00:01	06:51
હ	00:00	06:51

Figure 83: Call History Count Details

# Add Contact from Call History

- 1. Access Call History screen;
- 2. Select one call history entry to access details screen;
- 3. Tap 📃 on the upper right corner and select "View contact" to access "Add a contact" screen;

Call F	listory		$\odot$	10:24
<	35622 35622 Account 1(31627)	٩.	۹	Ξ
ও	00:00			19:14 1/25
હ	00:00			19:14 1/25
ए	00:00			9:51 1/24

#### Figure 84: GAC2500 Add Contact Screen

- 4. Tap on "Create new contact" to add new contact information.
- 5. Confirm to add contacts.

#### **Delete Call History**

- 1. Long press the call history entry you want to delete to access editing mode;
- 2. Check the entry and tap on make the entry and tap on tap on the entry and tap on ta





## Schedule Conference via Call History

1. Select one call history entry you would like to add to scheduled conference;

Call History		🗘 17:26
<b>Conference 1</b> Time 17:25~ 17:25	the second se	۵ 🏷
Gina 🔮 31626	Account 1(31627)	17:25
<b>Sam ₹</b> 31629	Account 1(31627)	17:25
George 😵 31625	Account 1(31627)	17:25

Figure 85: GAC2500 Conference Call History Screen

- 2. Tap 💼 on the upper right corner to access schedule screen;
- 3. Fill in information and tap on  $\checkmark$  to save.

Note: If the conference members are more than 6 people, you will enter the members select screen to check members first.

# **Intercepted History**

When the incoming call is from contact in blacklist, the GAC2500 will reject it automatically. The screen is as shown below.



#### Figure 86: GAC2500 Intercepted History Screen

Empty intercepted history.

Restore to be the contact.





# Hotkeys (MPK)

User could login the Web page and go to Advanced→MPK LCD Settings or go to LCD menu→Hotkeys to configure it.

1. Open Hotkeys app from LCD menu, tap on <sup>2</sup> the upper right corner to access Number List page.



2. Users could also tap on (L) to add number directly from Contacts. See figure below.

			◯ 11:21
Cancel		✓ ок	
Speed Dial	4		
Number	Name	Account	
		4502978	0
			+
		Speed Dial	Speed Dial Number Name Account

Figure 87: GAC2500 Add MPK Number

Choose nu	mber			10:26
	X Cance	el 🔤	✓ OK(2)	
А				#
App	ble	Home:31621		
В				
<b>B</b> et	ty	Home:31622		
Billy	y	Home:31623		R T
E				w
Em	ily	Home:31624		ż

Figure 88: GAC2500 Add Number from Contacts

3. The MPK screen is shown in figure 76 after adding numbers.





otkeys		O 11:34
< Comparison of the second sec		1. S
Group Call: GAC-Test1 UCM1,UCM2,UCM3	Speed Dial: speed dial 8631	Busy Lamp Field (BLF): blf 8637
Call Park: call prk 100		

Figure 89: GAC2500 MPK Number Screen

## **Event list**

The Event List URI in MPK list, it requires server support. Users should firstly configure an Event List URI including expanded list on the server (e.g.: <u>BLF1006@myserver.com</u>) and fill in URI without a domain name (e.g.: BLF1006).

- 1. Open MPK, tap on <sup>1</sup> on the upper right corner and select Event list as key mode.
- 2. Fill in information and save.

Edit URI				🗩 🗘 17:29
	× Cancel		✓ ок	
Account	31627			
EventList				
		Extensions (ma s to list if unche		
				Add 🕀
	Phone 1	Name	number	

Figure 90: GAC2500 MPK URI Screen

#### **MPK List**

Open Hotkeys(MPK), select 2 on the up-right corner to enter MPK list, shown as below.





umb	er list		O 11:4
<			
0)	GAC-Test1		
	UCM1,UCM2,UC	Group Call	
	speed dial		
<u> </u>	8631	Speed Dial	
	blf		
25	8637	Busy Lamp Field (BLF)	
	call prk		
	100	Call Park	

Figure 91: GAC2500 MPK List

Users can edit, order or delete the hotkeys in the list.

Edit: Click on an item to enter the edit page.

**Order**: Hold the 🗐 on the right and move the item to reorder.

Delete: Hold the item to enter selection page, then check one or more items to delete

#### **MPK Settings**

Tap on the upper right corner on MPK screen to access Settings screen as shown below:

Additional settings	🗘 17:48
Display format	Name 🖌
Display size	Large icons
Show DisplayName from Server	$\bigotimes$
BLF call-pickup prefix	

#### Figure 92: GAC2500 MPK Settings Screen

#### Table 16: GAC2500 MOK Settings Parameters

Parameters	Descriptions
Display format	Configures the display format for the MPK. The default setting is "Name".
Display size	Configures the display size for the MPK. The default setting is "large icons".





Show Display	If selected, the display name on the server will replace the name users configured.
Name from server	The default is "No".
BLF call-pickup	If configured, the phone will add the prefix each time using MPK button to answer the
prefix	call. The default setting of each account is "**".

# **Notices**

Users could receive SIP messages and set up reject calls in Notices function. The Notices page is as shown below:



Figure 93: GAC2500 Notices Screen

# **View Notices**

The Notices page displays notices list, the notices are classified by contacts name or phone number and sorted by the time when you received notices. Tap on one notice entry to view details.



Figure 94: GAC2500 View Notices





#### **Delete Notices**

- 1. Long press one notice entry to access edit screen;
- 2. Check the notice (s) you want to delete and tap on would be to delete.

## **Notices Settings**

If enable "Allow Reminder", a warning will be sounded and you'll see notification on the status bar when receiving a notice; If enable "Quick Reply", a quick reply will be sent when the incoming call is rejected.

1. Tap on the upper right corner on Notices page to access Settings screen;

Notices settings	17:58
General settings	
Allow reminder Enable reminder	
Quick reply	
Enable quick reply Quick reply will be sent when the call is rejected	
I am busy now. I will call you later.	1. A. B.
	Add new 🕒

Figure 95: GAC2500 Notices Settings Screen

- 2. Enable quick reply and add reply content;
- 3. When there is an incoming call, the screen is as shown below:



Figure 96: GAC2500 Incoming Call Screen

- 4. Tap on "SMS Reply";
- 5. Select one reply to send, the call will be rejected and the caller will receive the message.





## **File Manager**

File Manager allows users to delete, move, copy, paste, send, rename files (including files on storage device such as USB flash drive), and query file properties on the GAC2500.



Figure 97: File Manager

# **Copy File**

To copy the file from the GAC2500 to USB storage device:

- 1. Insert USB/SD storage device into USB port on the GAC2500. It will take a few seconds for the GAC2500 to prepare the connection;
- 2. The USB storage icon will show on the status bar;
- 3. Go to Home screen, find the application File Manager;
- 4. Open the target folder;
- 5. Long press the file to select;
- 6. Tap on E the upper right corner to copy file and press f to go back to the upper level directory;
- 7. Select target storage device and go to the directory where the file will be pasted to paste the file.

#### **Send File**

The first 5 steps are the same as the ones in Copy File.

- 1. Tap on I the upper right corner select "Send" option;
- 2. Select target location and confirm to send file.

**Note:** If the user needs to send the file via Bluetooth, enable and connect Bluetooth device first. Otherwise, the interface will be redirected to the corresponding setting page to configure.





### **Delete File**

The first 5 steps are the same as the ones in Copy File.

- 1. Tap on the upper right corner, a dialog will pop up for users to confirm whether to delete the file or not.
- 2. Press the "OK" key to delete the file successfully.

#### **Rename File**

- 1. Go to Home screen, find the application File Manager.
- 2. Open the target folder and long press the file.
- 3. Press MENU key **I** on the upper right corner and select "Rename".
- 4. Input the new file name in the pop-up dialog and press the "OK" key to save, tap on "Cancel" or press



## Recorder

Users could record conference, institution and personal notes via GAC2500 Recorder conveniently. There is no time limit to recording time and the larger the available storage capacity is, the longer the recording time is. Users could also find the recording file from a call in the recorder and listen to it.

Long press the recording files to access editing interface, tap on the MENU key it to make other operations to recording files like export, rename, and lock/unlock.



#### Figure 98: GAC2500 Recorder Main Screen

**Note:** If the USB storage is where recordings are written, the recording capacity depends on the USB storage space.





### **Normal Recorder**

- 1. Tap on 📟 the upper right corner to access recording interface, Tap on 💽 to start recording;
- 2. Click "Save" to save the record file, click "Cancel" will bring out the dialog for users to confirm whether to save the file or not and to stop recording;



Figure 99: GAC2500 Normal Record - Recording

3. Go back to the Recorder page, select one recording file and click on the right of the progress bar to play the file.

#### **Call Recorder**

In the process of an active call, the recording file will be saved on the phone. Users can only listen to it via Recorder.

Recorde	er		<b>‰</b> € 14:30
<	Call	Normal	@ Q =
31626		Duration 06:4	14 11:54
31626		Duration 02:4	10:22
31629		Duration 00:0	03 10/17 16:55

Figure 100 GAC2500 Call Recordings





## **Recorder Settings**

Tap on the upper right corner on Recorder screen to sort the recording files, or access the recording setting screen as shown below:

Recorder	O 19:11
<	
Security	
Enable password	$\otimes$
Change password	
Recorder settings	
Not enough space for recording	Replace old recording 🖌
Set maximum record space (MB)	300 MB

Figure 101: GAC2500 Recorder Settings Screen

- Enable password. Enable and set password. Once set the password, input the password to access Recorder.
- Change password. To change password, please enable "Enable Password" option first.
- Set store location. When a USB disk is detected, you can set the recorder stored in the USB disk.
- Not enough space for recording. Set "Replace Old Recording" or "Stop and Save" when there is no enough space for recording.
- Set maximum record space (MB). Set the maximum recording space on the device, you cannot view recording files via File Manager.
- Set export location. It can be an SD card or external export device.

#### Sound

User could set silent mode, increase GAC volume, Select Ring Tones and notification tones as well as selecting different voice mode from LCD under "Settings > Sound".

#### Diagnosis

Users could make operation like LCD Diagnosis, Keypad Diagnosis, and LED Diagnosis on GAC2500 by entering the feature code "\*\*\*3424\*" in the dial screen's keypad.

#### Browser

Users could browse webpage, view news and watch video via the built-in GAC2500 Browser. Press on



in the main menu to open Browser.

• Slide up and down with slide gesture to scroll the screen.





- Zoom in/out the page via zoom gesture.
- Press the menu button <sup>a</sup> on the upper right corner to open the menu bar for more operations.

# **GS Market**

GAC2500 provides direct access to apps via built-in GS market app. Users could download the apps from the market and install to the GAC2500.

### **Search Apps**

In the GAC2500 Home screen, click on Applications  $\rightarrow$  GS Market  $\square$ . The users could view the apps by category, or input key words and click on  $\square$  to search.

## **Download and Install Apps**

- Users could see if the app has been installed or downloaded by pressing the blue shortcut key.
- Press MENU key 📃 to view the downloaded apps and installed apps.
- Tap on 🖄 to cancel download in process.
- Tap on 🕑 to try again if the download failed.
- The installing process will be automatically started after downloading the app.
- Go to Installed screen to view the installed apps, or tap on  $(\overline{1})$  to uninstall the downloaded apps.

# **Update Apps**

The GAC2500 will automatically detect if there is new version available for the installed apps to upgrade when the network connection is normal. User can view the relevant information and update apps on the Installed screen.

#### **FTP Server**

The GAC2500 supports file transferring via FTP Server app.

- Go to LCD menu and tap on
- Tap on Start FTP server to start the server.
- Go to PC browser and type in the address on LCD to manage the files from PC.







Figure 102: GAC2500 FTP Server Connection

You can change the settings of FTP server before file transfer. Tap on the on up right to open FTP server settings. From here, user can set username and password to login, port number and directory to access.

FTP Server	<b>‡</b> 20:00
Settings	
Enable username and password	
Username and password	
Port number	2121
Select directory	Internal storage 🔒

Figure 103: GAC2500 FTP Server Settings

# **User Helper**

For the first time, it powers up or after factory reset, GAC will open User helper and tips. Users can follow the guide to use GAC2500.







Figure 104: GAC2500 Quick User Guide

# **Downloads**

Downloads is for viewing and managing the files downloaded from internet. Click on the icon Downloads.



Docum	ents			<b>⊥</b> ⊖ 00:51
< 🕑	Downloa	nds		- F 1
L	<b>12851347</b> 00:51	79158_htwfaip.pc 830KB	lf images.kw.com	
		Figure 10	05: Downloads	

- Click on icon **E** to sort the files by name, date modified, or size.
- Click on icon
   to configure the view of files.





# **GAC2500 WEB UI FEATURES**

# Accessing GAC2500 Web GUI

The IP address of the GAC2500 displays on LCD display screen.

To access the GAC2500 Web GUI:

- 1. Connect the computer to the same network as GAC2500.
- 2. Open a Web browser on your computer, enter the phone's IP address in the address bar of the browser; for example: http://192.168.124.111;
- 3. Enter the administrator's login and password to access the Web Configuration Menu. The default username and password are: admin, admin; you can set language to English or Chinese in the drop-down menu of language;



Figure 106: GAC2500 Web GUI - Login

4. Click "Login" to access the configurations in web UI.

# **Saving Changes**

When changing any settings on the web UI, always submit them by pressing the SAVE button **Save** on the bottom of the page, and then clicking the Apply button on the top of the page to apply the configuration

changes. For those options with <sup>(IIII)</sup> next to it in the Web page, users must reboot the GAC2500 for the changes to take effect.

# Definitions

This section describes the 6 options in the GAC2500 Web GUI. Please view Advanced, Maintenance and Status specifications in Administration Guide.

- **Call**: Users could start conference and control conference from Web GUI.
- Contacts: Contacts, Schedule, Call History.
- Account: Configure account info.
- Advanced: General Settings, Call Features, Tone Generator, MPK General Settings, MPK LCD Settings.





- **Maintenance:** Network Settings, Time & Language, Security Settings, Upgrade, Troubleshooting, Device Manager.
- Status: Account Status, Network Status, System Info.

You can log in as an administrator or a normal user. The following table shows the web pages accessible by normal user and administrator.

User Type	Username	Default Password	Accessible Web Pages
Normal User	user	123	<ul> <li>Call</li> <li>Contacts</li> <li>Account: Call Settings</li> <li>Advanced: MPK General Settings, MPK LCD Settings</li> <li>Maintenance: Network Settings, Time &amp; Language, Security Settings, Device Manager</li> <li>Status: Account Status, Network Status, System Info</li> </ul>
Administrator	admin	admin	All pages

#### Table 17: GAC2500 Users Access Permissions

#### **Toolbar**

The web UI tool bar is on the upper right corner of the web UI page.





- **DND**: Turn on/off DND mode. Once enabled, the DND text will turn into red and all incoming calls will be rejected.
- English: Select the display language for the web UI.
- **Reboot:** Reboot the device.
- **Expert:** Click to switch to expert mode and click again to cancel. Once enabled, the administrator can view all settings items.
- Logout: Log out from the web UI.





# **Call Page**

GAC2500 Web UI call page is shown below. Users could make calls and initiate conference from Web UI.

Call Contacts	Account Advanced settings Maintenance Status	
Account info 2000 2000	Multiple numbers can be seperated with a comma ".". Input numbers, you can add up to 2 members.	
Display info of all accounts	Select call mode	6:05
	Click to dial out 16	6:05
	Sam 2001 16	6:02
Reservation status	Gina 11	1:13
Project Implement 2017-03-08 21:44 Start Display two latest scheduled conference info		0:57 •
	2003,2002,Sam 09	9:57 9:05
	Put cursor on one entry, click "+" to add this contacts to input bar 4880 4880 2017/02/07 16	9:01 6:49
	<b>C</b> 0 0 2017/02/07 14	4:23
	Jack, Gina         2017/02/07 11	1:03

#### Figure 108: GAC2500 Web UI – Call

## **Making a Call**

- 1. Select account in Account Info box;
- 2. Select call mode, then input phone number (s) in input box, use "," to separate different numbers or tap on other place on screen to confirm your input;
- 3. Tap on **to dial out**.

You can also tap on behind one call history entry to add the contact to input box.





# **Single Incoming Call**

One	-way conve	ersation				—
ও	2001					
						(I)) —O———
			In talking	(2000)		
			2		Add to conf	
			Sa	m		
			200	)1		
			PCN	10		
	Mute	Hold	Start recording	Transfer	Keypad	End

When the GAC is in idle, the dial screen will pop up when dialing out as shown below:

Figure 109: GAC2500 Web UI - Single Incoming Call

If the callee answers the call, you will see dial screen which is the same as the one on GAC2500 LCD.

Tap on \_\_\_\_\_ on the upper right corner to minimize dial screen to the lower right corner as shown below:



Figure 110: GAC2500 Web UI - Minimize Call Screen

When the line is in mute/hold/recording status, the corresponding icons will be highlighted.





# **Conference Control**

In	2001 talking	Host	+	<b>■</b> )) <b>—</b> O
+				+
	$\left[+\right]$		+	
Keypad	Mute all	Block all	Start recording	End conf

When the GAC2500 is on conference, the conference screen is as shown below.

Figure 111: GAC2500 Web UI - Conference Control

The conference screen on Web is the same as the one on GAC2500 LCD.

Tap on \_\_\_\_\_ the upper right corner to minimize conference screen to the lower right corner as shown below:



Figure 112: GAC2500 Web UI - Minimize Conference Screen

When the line is in lock/mute all/block all/hold/recording status, the corresponding icons will be highlighted.





# **Contacts Page**

This page lists Contacts, Schedule, Call History and LADP.

#### **Contacts**

The operations will be synchronized and can be viewed from LCD as well. Users could search/add/delete/edit contact on web page. The web UI contacts page is as shown below.

Call Contacts	Account	Advanced settings	Maintenance Status	
Contacts	Del	ete Import	Export Download	Sort New contact
Groups	Q Search 4	contacts		
Blacklist	Gina	2004	My Contacts	
Schedule		3001	My Contacts	💊 🛈 💉 🟛
Call History	Sam Sam	2001 I 2004	My Contacts My Contacts	

#### Figure 113: GAC2500 Web UI - Contacts

- Tap on "Import" option to access Import screen. Refer to chapter **BATCH IMPORT CONTACTS** to fill in info and import the contacts on PC to device.
- Tap on "Export" option to access Export screen. Refer to chapter **EXPORT CONTACTS** to fill in info and export the contacts on device to PC.
- Tap on "Download" option to access Download screen. Refer to chapter **DOWNLOAD CONTACTS** to fill in info and download the contacts on server to PC.
- Tap on "Sort" option to access Sort Phonebook screen. Sort the contacts by first name or last name.
- Tap on "New Contact" option to access Add Contact screen. Fill in contact information and save.

Put the cursor on contact to display more operation buttons.



Tap to dial this contact.



Tap to view the contact details.

- Tap to access Edit screen, you can edit contact and save the changes.
- Tap to delete this contact.





#### Groups

Call Contacts	Account Advanced	d settings Maintenance	Status	
Contacts	Delete			New group
Groups	My Contacts	4 Members		
Blacklist	Starred in Android	0 Member		
Schedule	📕 👥 Development	2 Members		💊 🖌 🟛
Call History	Interpretation of the second secon	ta4 Members		
LDAP	Sales	3 Members		



- Tap on "New Contact" option to access New Group screen. Input group name and check group member (s) then save.
- Click on the group name to view all members in this group.

Put the cursor on group to display more operation buttons.

Tap to call this group. Please note that GAC2500 supports up to 6 lines (7-way) conference. If there are more than 6 conference members, check 6 members you want to add to conference first.

Tap to access Edit screen, you can edit group and save the changes.

Tap to delete this group, the contacts in this group will not be deleted the same time.

#### **Blacklist**

Blacklist function on Web UI is the same as on local. Please refer to chapter **Blacklist** for more details.

Call	Contacts	Accoun	t Advance	d settings I	Maintenance	Status	
			elete	Manually add	Add from contacts	s Add from call history	Settings
Groups	-	10	000	10000			
Blacklist		12	000	12000			
🛗 Schedul	e	200	010	20010			
😋 Call Hist	ory	254	460	25460			1 🖉
LDAP	-	Gir	าล	2004			







## Schedule

You can refer to chapter Schedule for more details.

#### • Upcoming Conference

Conference can be scheduled, edited and deleted from web UI.

Call Contacts	Account Ac	dvanced settings	Maintenance	Status	
<ul><li>Contacts</li><li>Schedule</li></ul>	Delete				New conference
Upcoming	Q				
History	-		2017-03-08		
🔇 Call History	Project Implem	nentation			•
LDAP	Members: Gina	a,1475,Sam,Jack		C	) 🛈 🖍 🛅
	Conference tim	e: 2017-03-08 16:44-17:14	(GMT-5:00)Easte		

#### Figure 116: GAC2500 Web Page - Upcoming Conference

Tap on "New Conference" option to access New Conference screen. Input conference name and check conference member (s) then save.

Put the cursor on conference to display more operation buttons.



Tap to call this conference.



Tap to access Details screen. You can also edit and save conference on this screen.

P

Tap to access Edit Schedule screen, you can edit conference and save the changes.



Tap to delete this conference.

#### • History Conference

History conference screen is as shown below, you can dial/reschedule/delete history conference from web UI.





Call	Contacts	Account	Advanced settings	Maintenance	Status	
<ul> <li>Contact</li> <li>Schedu</li> </ul>		De	lete			New conference
Upcom	ing	Q				
History				2017-02-08		
😋 Call His	story	Marketing	1			
上 LDAP		Conference	e time: 2017-02-08 17:26-17:50	6 (GMT-5:00)Easte(	30 Min	

Figure 117: GAC2500 Web Page - History Conference

Put the cursor on conference to display more operation buttons.



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Tap to call this conference.

① Tap to access Details screen. You can also edit and save conference on this screen.

Tap to access Edit Schedule screen. You can reschedule the history conference on this screen.

Tap to delete this conference.

# **Call History**

From web UI, users could also access Call history, which is synchronized with the call history from LCD.

Call	Contacts	Accou	int Adva	nced settings	Maintenand	ce St	atus			
L Contact	lle	► <u>221</u>	Marketing				Total : 43		Cle	ar 17:00
Call His	story	2	Sam(5)		2001					16:26
All		2	8568		8568			٩.	(j)	Ŵ
Missed		2	1475		1475					16:05
	pt record	2	20048		20048					16:05
LDAP		► <u>5<u>8</u>1</u>	Sam							16:03
		► <u></u> ≺	Gina							11:15

Figure 118: GAC2500 Web UI - Call History

• Tap on "Clear" option to clear all call history.

Put the cursor on call history to display more operation buttons.







Tap to access Edit Schedule screen. You can reschedule the history conference on this screen.

Tap to delete this conference.

# LDAP

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From web UI, users can configure LDAP contacts. Please refer to chapter of LDAP under Application to fill

in info and import LDAP contacts.





# **FACTORY RESET**

Users could reset factory settings via the following ways: Reset via local GUI, via Web page, via the reset button on the back panel of GAC2500. Factory reset will delete configuration info and syslog info, the HDD data and videos will not be deleted.

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.

# **Restore to Factory Default via LCD Menu**

Access to the GAC2500 LCD **Settings** $\rightarrow$ **Advanced Settings** $\rightarrow$ **Factory Reset**, tap on Factory Reset, a confirmation message will be displayed. Tap on **OK** to confirm or return to avoid.

My location, screen lock, passwords & device administration	\$ 🗘 12:07
<b>Upgrade</b> Firmware upgrade, configuration file upgrade	
Syslog System log level and server address	
Factory reset System restores factory reset	
Clear master-slave remembered choice Click to clear master-slave remembered choice	
Disable web GUI Web GUI is enabled	$\otimes$
Developer mode	
Factory reset 📃 🖬 🖽	\$ 🗘 12:08
Factory reset will erase all your configurations	

Figure 119: Factory reset





# **Restore to Factory Default via the Web GUI**

- 1. Access to the GAC2500 Web GUI → Maintenance→Upgrade page.
- 2. At the bottom of the page, click on the **Reset** button for Factory reset. Select whether you would like to clear the SD card if there is SD card plugged in.



3. A dialog box will pop up to confirm factory reset;



Figure 121: Web UI - Factory Reset Confirmation

4. Click **OK** to restore the phone to factory settings.

# **Reset Via Button**

Use a small pin to press the button Reset button on the back panel of GAC2500 for more than 10 seconds to reboot and restore to factory reset.





# **EXPERIENCING THE GAC2500 APPLICATION PHONE**

Please visit our website: <u>http://www.grandstream.com</u> 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 <u>product related documentation</u>, <u>FAQs</u> and <u>User and Developer Forum</u> 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 <u>submit a trouble ticket online</u> to receive in-depth support.

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

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