

# GAC2500 Firmware Release Note

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## FIRMWARE VERSION 1.0.3.13

### PRODUCT NAME

GAC2500

### DATE

04/21/2017

### CHANGES SINCE FIRMWARE VERSION 1.0.3.11

#### ENHANCEMENT

- Updated more tool tips on web UI.
- Added new options in voice mode “Small room & Denoise” and “Small room & Enhance denoise” in web UI -> Advanced settings -> Call features -> Voice Mode.
- Updated default NTP server address to “pool.ntp.org”.
- Updated tool tip for web UI -> Maintenance -> Network settings -> Bypass Proxy For, Multiple IP addresses can be separated by “,”.
- Updated DUT displays caller information based on "Referred-By" header in incoming call page on LCD.
- DUT displays third party on LCD after DUT is transferred to third party.
- Updated that DUT does not support multicast paging using port 0.
- Abandoned the animation of "Click to return call" on status bar.

#### BUG FIX

- Fixed incoming number without “+country code” does not match the number with “+country code” in Contacts.
- Fixed DUT loses schedule records after upgrading from fw1.0.1.44.
- Fixed DUT still plays system ringtone when other ringtones are selected for account 2 - 6.
- Fixed a Bluetooth-shared account stops app from running after the conference members are deleted one by one on GVC.
- Fixed DUT plays music on the Kugou music app and “contact has stopped running” appears.
- Fixed DUT does not delete a circle conference in Google calendar after it is expired.
- Fixed DUT does not jump back to conference interface from speed dial MPK when there is a line call in the conference.
- Fixed DUT conference control apk crashes when USB connected to a GVC and GVC turns off then on the video in a call.
- Fixed DUT pops up “Account is not available” when using active account 2 - 6 to MPK dial DTMF.
- Fixed that the recording rename text label is not centered in the prompt.
- Fixed DUT cannot hold all in conference when there is outgoing call.

- Fixed DUT does not prompt "404" on web UI when adding an unregistered number into current conference.
- Fixed DUT Bluetooth has only one way audio with PC installed Windows 10.

## FIRMWARE VERSION 1.0.3.11

### PRODUCT NAME

GAC2500

### DATE

01/24/2017

### CHANGES SINCE FIRMWARE VERSION 1.0.3.5

#### ENHANCEMENT

- Made members label visible when adding new members in Schedule.
- Added a prompt to recover intercepted calls from blacklist.
- Hide “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.
- Added Nonce header in SIP REGISTER method.
- Added placeholder for VPN settings.
- Updated prompt of video call request on LCD.
- Added support for RED with FEC. This option is under GAC2500 web UI->Account x->Code Settings: “Enable Audio RED with FEC”.
- Added support for concurrent G.729 calls
- Updated default NTP server address
- Upgraded Google Service version to 10.0.84 (030-137749526) to fix crash issue

#### BUG FIX

- Fixed DUT can schedule multiple meeting start at the same time.
- Fixed some error in Schedule when using PPPoE.
- Fixed DUT crashes on switching PPPoE to DHCP and selecting “No selected” in Google account Schedule syncing.
- Fixed DUT has no tooltip under Account -> Call settings -> Call forwarding mode: Others.
- Fixed DUT does not display conference history after it is rescheduled.
- Fixed DUT does not save records sequence after sorting.
- Fixed DUT layout issue after canceling and enabling recurring conference.
- Fixed DUT has error in displaying associated account after switching the name.
- Fixed DUT has no prompt when fails to save Google conference information.
- Fixed DUT Schedule would stop if DUT removes a Google account from Settings -> Accounts.
- Fixed DUT does not sync update via Bluetooth when GVC32xx deletes a member.
- Fixed core dump file generation issue.

- Fixed web UI does not show Dial and Delete icon under Contact -> Call History item when the mouse hovers over the time.
- Fixed DUT stays on ending interface for more than 3s when ends the Bluetooth line.
- Fixed DUT shows abnormal strings when editing Owner info in Security settings on LCD.
- Fixed DUT dialplan issue.
- Fixed DUT download contact interface on LCD display issue on Time interval settings.
- Fixed DUT edit icon is off place when using OTC cable to connect to USB flash drive.
- Fixed CPE will report "9007 illegal value" error when ACS sends some configuration.
- Fixed DUT adjusting call volume also affect the ringtone volume.
- Fixed some settings cursor are not at the end in the label.
- Fixed the selected language on the GAC2500 should be displayed under the "Language" option in TTS
- Fixed WiFi should be disabled when WiFi is selected twice in the setup wizard
- Fixed The soft key will pop up after selecting ringtone for a contact without number during re-editing
- Fixed The buttons below the expression box in the onscreen keyboard has no logo
- Fixed When "Use # as Dial Key" is disabled, pressing # will not redial the last outgoing call
- Fixed Conference control has stopped running after Bluetooth connection with GVC320x
- Fixed Conference password is displayed as plain text in schedule
- Fixed web UI should prompt message when starting or stopping recording
- Fixed crash issue when dial plan pattern has more than 20 characters
- Fixed Bluetooth is not disabled in phone's calling state

## FIRMWARE VERSION 1.0.3.5

### PRODUCT NAME

GAC2500

### DATE

11/16/2016

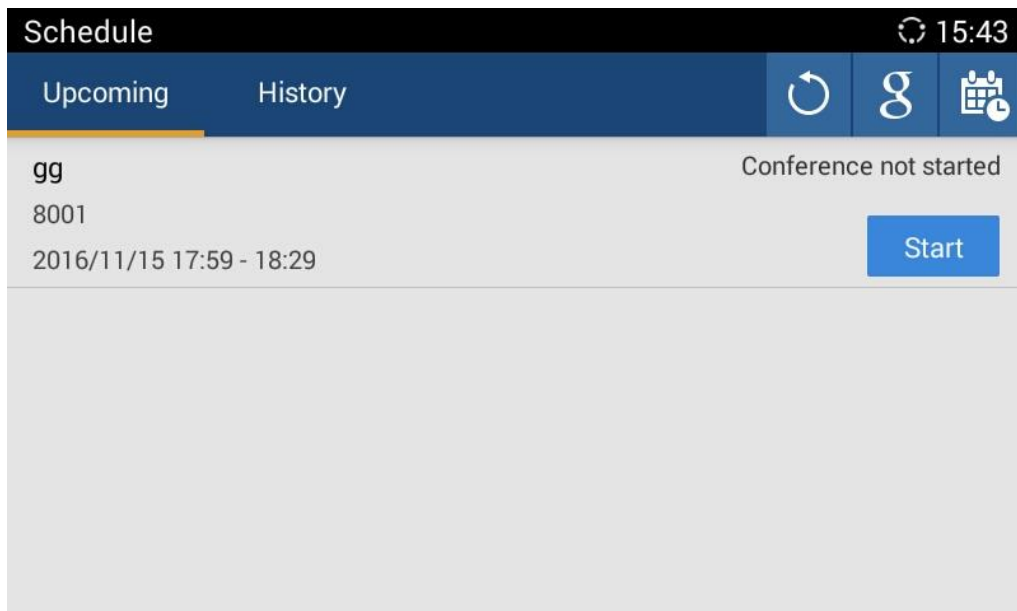
### CHANGES SINCE FIRMWARE VERSION 1.0.1.44

#### ENHANCEMENT

- Prompt tips when GAC2500 is connected to wrong GVC USB port.
- Supported IPv6.
- Supported setting Wi-Fi from web UI -> Maintenance.
- Added support for DHCP Option 132 & 133 tunneled through DHCP Option 43.
- Added voice mode setting in Settings -> Sound -> Call settings. Users can set 6 different voice mode.
- Added "Medium room & Rich voice" and "Medium Room & Clear Voice" option in web UI -> Advanced -> Call Features -> Voice Mode.
- Supports using dial pad to dial out call in Skype for business app.
- Improved audio process performance.
- 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".
- Added support to disable SSH without reboot.
- Added some missing tooltips.
- On web UI MPK settings, Multicast Paging does not need to set the account.
- Improved the web UI design on IE browser.
- Added input inspection of multicast paging on web UI.
- Removed "Hide Local Call History" under web UI -> Advanced -> General Settings.
- Added contact categories when creating a new conference in web UI -> Contacts -> Schedule -> Add member icon.
- Changed web UI -> Contacts -> LDAP -> Max Hits valid range to 0 - 4000.
- Changed LDAP search timeout unit to second.
- DUT in a conference with an outgoing call will add all incoming call to conference.
- Changed internal storage icon.
- Added Virtual Group feature.

In web UI, go to different Account -> Call Settings: set the account to the same group. The phone can answer any incoming calls to each account in groups. If user makes an outbound call, the phone system will use the lowest ID account by default.

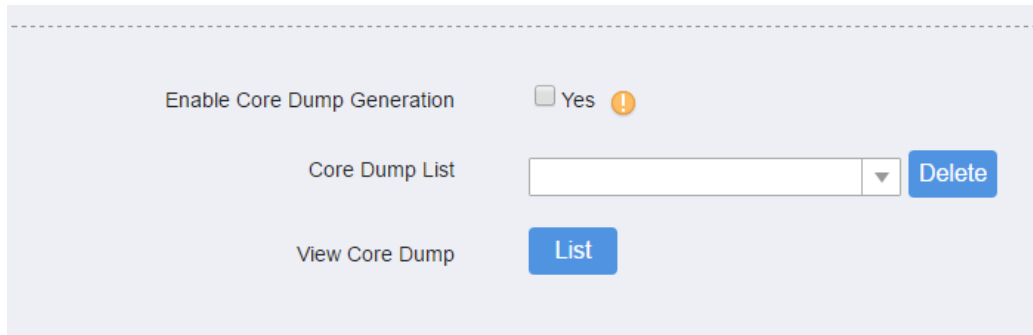
- Added more voice mode in web UI -> Advanced -> Call Features -> Voice Mode: “Medium room & Rich voice”, “Medium Room & Clear Voice”, “Small room & Denoise”, and “Small & Enhanced denoise”.
- Modify phone type and Email type to English only while importing/exporting Contacts xml file on Universal Phone Editor.
- Added “Hide Vocoder” in web UI -> Account -> Codec Settings. When set to “Yes”, the codec information in an active call will be hidden.
- Added more operation on LCD for GVC320x when GAC2500 is connected to GVC320x via USB.
- Added count of calls for call history on LCD.
- Improved DUT’s behavior when using option “Use # as Dial Key” to dial out:
  1. If input area has a number, DUT will check the account call settings to see if “Use # as Dial Key” is enabled or not;
  2. If input area has no number, DUT will use ‘#’ as redial directly.
- Changed the layout of creating new group on web UI -> Contacts page.
- Synchronized the mute icon of minimized call interface on web UI.
- Improved Broadcast contact search works like local contacts to auto display.
- Trimmed the multicast name displaying on web talking interface.
- Allowed DUT to display a widget shape even there is no account registered.
- Added support for Google Calendar conference schedule features.  
 Open “Schedule” app, the users will see the “refresh” icon which is used for synchronizing the Google calendar event. The “g” icon indicates Google account settings and instruction about Google Calendar settings to sync the info to GAC2500.



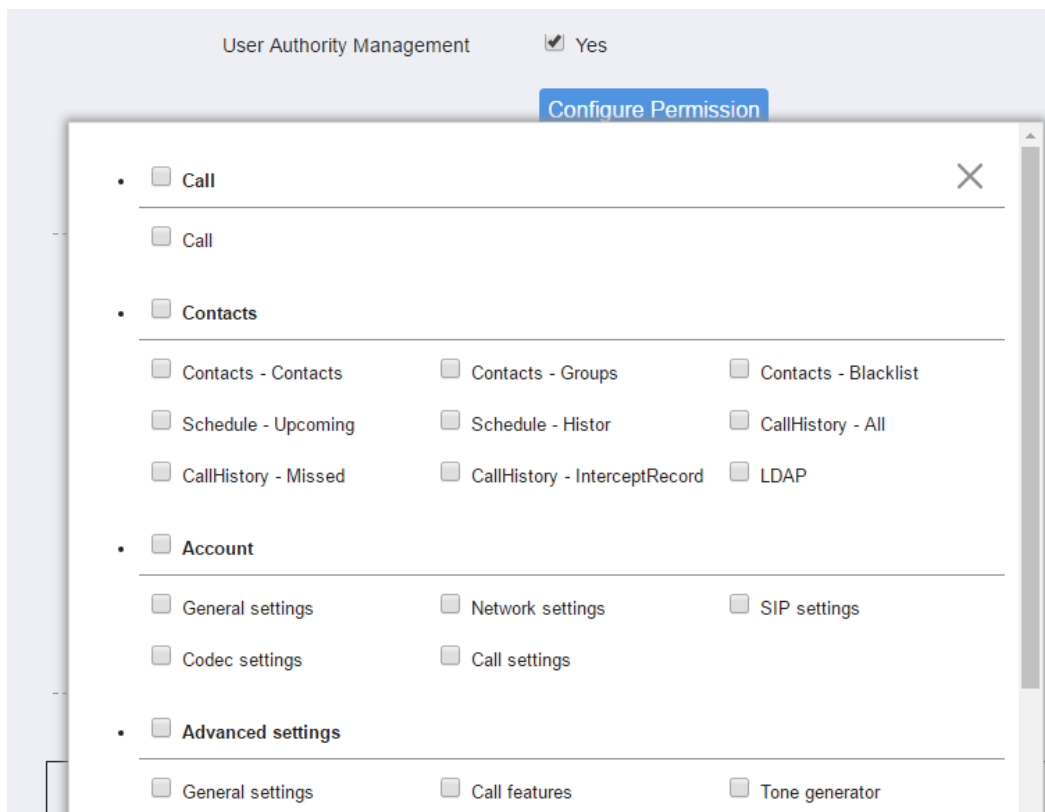
- Updated tooltip for “Complete upgrade” and “Unregister before new registration”.
- Shortened reminding tone for incoming intercom call.
- Updated description under Contacts -> LDAP page.



- Added Core dump feature under web UI -> Maintenance -> Troubleshooting -> Debug page.



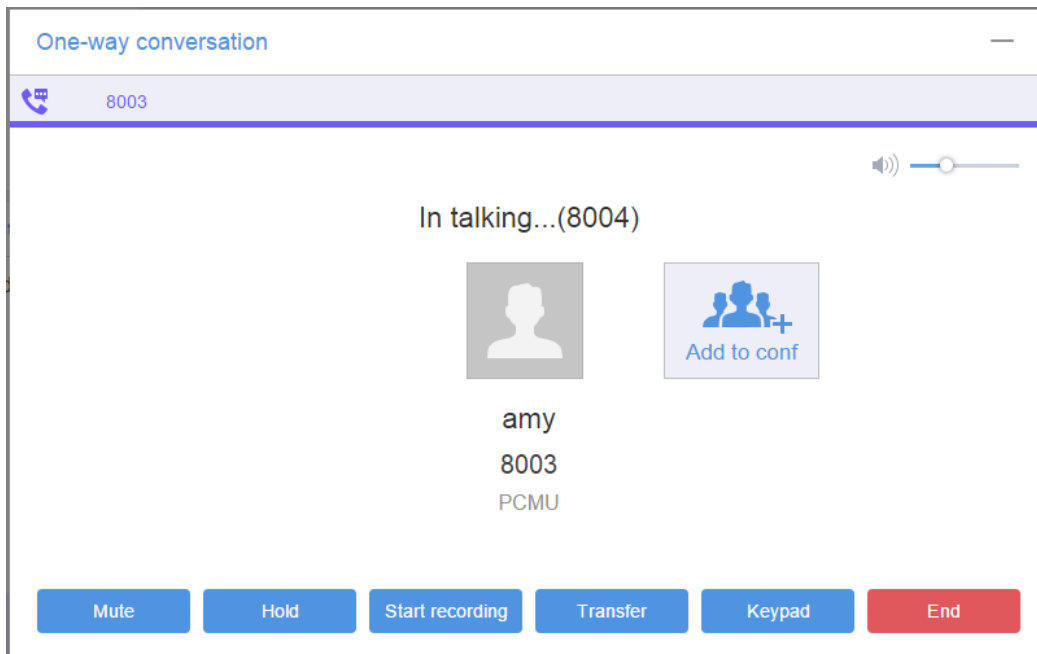
- Enable Core Dump Generation:  
Enable device to store core dump file when error occurs. Default is no. P-value is 29611.
- Core Dump List:  
Choose an existing core dump file to delete.
- View Core Dump:  
To view all the core dump files. User can download them for troubleshooting.
- Added “Disable web GUI” in web UI -> Maintenance -> Security settings. P-value is 29605. Default value is 0.
- Added P-value 29606 for fixed slave mode in web UI -> Advanced settings -> General settings -> Fixed Slave Mode. 0 - No, 1 - Yes.
- Added “User Authority Management” for admin under Web UI ->Maintenance->Security Settings. If checked, admin can choose accessible app via “Configure Permission”.



- Added support for Bluetooth A2DP sink role, which means GAC2500 can connect to GVC320x and mobile devices via Bluetooth to play music files.
- Added support for special control character 'T' in dialplan. "T" means dial delay. This is used with "No key entry timeout (s)".

For example, if the dialplan is set to {8001T}, when the user opens Phone app and dials 8001, the phone would not call out immediately, but will wait for the No key entry timeout to dial out.

- Added "Intercom barging" in Web UI -> Account -> Call settings.  
 When "Intercom Barging" is enabled, if the current active call is an intercom call, the incoming intercom call will be automatically rejected; if the current active call is not an intercom call, the current active call will be put on hold and the incoming intercom call will be automatically answered. When "Intercom Barging" is disabled, a prompt will show to indicate the incoming intercom call without interrupting the current active call. The default setting is disabled.
- Added support for dialing multiple members in conf room during a call on web UI.
  1. DUT is in a call. Go to web UI -> Call. Click "Add to conf" to start a conference, shown as below.



2. Click "+" to add members. For each member to add, input the number, and check the checkbox in the front of the number to add a member. In below example, the conference will add 8005 and 8002.

Add member

---

<input checked="" type="checkbox"/>	8005	8005
<input type="checkbox"/>	8003	8003
<input checked="" type="checkbox"/>	8002	8002

3. The “Add” button at bottom right is to call these members.

- Packed new CFG file for new hardware production.

#### BUG FIX

- Fixed weather app does not work issue.
- Fixed lock screen pattern error notice position on LCD.
- Fixed Contacts app sort result by first name and last name are inverted.
- Fixed DUT displays a number on CallHistory and web UI Call History after the number is added to Blacklist.
- Fixed DUT does not have voicemail ringtone when switch to an account with unread voicemail.
- Fixed the incoming call notice covers the attended transfer option popup.
- Fixed DUT does not show call detail when there are call failed or calling lines in conference.
- Fixed DUT gives wrong notice “transfer failed” when press Call Transfer MPK key in idle state.
- Fixed DUT cancels speed dial via active account and gives wrong notice “Account is not available” while there is active accounts.
- Fixed slave GAC does not quit cascade interface after unplugging the RJ48 cable when DUT connects GVC with USB cable.
- Fixed slave GAC remains USB connection interface after disconnects PC and master GAC.
- Fixed DUT Click2Dial does not work from web page on LCD.
- Fixed DUT LCD shows multiple incoming calls when connecting GVC that has an incoming call.
- Fixed DUT web UI can run JavaScript code.
- Fixed DUT Upload Device Configuration from web UI does not take effect on some account parameters.
- Fixed DUT LCD displays pattern screen lock after DUT upgrades via USB.

- Fixed DUT LCD may remain cascade interface after disconnected PC via USB cable.
- Fixed DUT does not display name and number of a contact on web UI when the contact calls anonymously.
- Fixed DUT does not lock call mode after entering the number.
- Fixed DUT displays a non-contact number twice in calling interface on web UI.
- Fixed DUT creates a new contact from Callhistory puts the number in name area by default.
- Fixed DUT automatically add the incoming call into conference and answers it when DUT is trying to call 2 numbers from web UI.
- Fixed DUT is having an SRTP call, but no lock icon is displayed on web.
- Fixed DUT search icon disappears after select all and unselect all in File Manager.
- Fixed DUT tooltip display issue of “Voice Frames Per TX” on web UI.
- Fixed DUT “RTCP Destination” allows address without port number.
- Fixed DUT speed dial via active account under MPK does not work.
- Fixed DUT does not show no schedule reminder after press “Screen off” from status bar
- Fixed DUT schedules a conference from web UI but it would not sync to LCD dialpad.
- Fixed DUT adding an MPK Multicast Paging to conference does not display “multicast” in member’s name.
- Fixed DUT uploading config file would not take effect on some of settings.
- Fixed DUT minimizes a conference on web UI would overlap the last record of call history.
- Fixed DUT cannot display existing line in web UI transfer interface.
- Fixed some LLDP issue.
- Fixed DUT web UI -> Account -> SIP Settings -> OPTIONS Keep Alive Interval (s) has no prompt when input number is invalid.
- Fixed when DUT adds a multicast paging to a conference, there is no “multicast” after the name on web UI display like that on LCD.
- Fixed DUT does not display conference history in auto match when dialing a number.
- Fixed DUT can input duplicate number on LCD and dial out.
- Fixed DUT incoming call tab on LCD is not in order.
- Fixed DUT can create more than one group calls with the same name. Different names are required.
- Fixed DUT asks for password after selecting an export directory for a recording in Recorder app.
- Fixed DUT prompts “Launcher3 has stopped” after delete the wallpaper which is being used.
- Fixed DUT Phone app cannot hold ‘0’ key to dial ‘+’.
- Fixed DUT creating a new contact from call history does not put the name in name field.
- Fixed DUT only intercepts the first number of a contact if the contact has more than one number.
- Fixed DUT editing a contact on LCD prompts “Custom label name” after the contact is created on web UI with only email.
- Fixed DUT does not turn off callforward in some situation.
- Fixed DUT does not display full call history for Bluetooth account on LCD.
- Fixed DUT would ring account 2 when it initiates an intercom call which includes itself.
- Fixed DUT can't establish any call after it sends SUBSCRIBE REGISTER without response.

- Fixed DUT enables Conference server and set Auto Mute on Entry to “Auto mute on incoming call” from web UI -> Advanced Settings -> Call features. DUT answers multiple incoming calls would auto hold one line and cannot unhold. P-value is 29602.
- Fixed DUT sends register to secondary outbound proxy without authentication.
- Fixed Option 66 does not take effect when download via http/https.
- Fixed DUT removes CA certificate but the related account status is not updated.
- Fixed \$ symbol is not accepted in the SIP User ID Parameter.
- Fixed dialplan takes effect on emergency call when DUT has screen lock.
- Fixed DUT message reply cannot use ‘\n’ on web UI.
- Fixed Missed call interface won't display name and display name of the searched form LDAP.
- Fixed some tooltips that do not match default settings.
- Fixed DUT gets silenced when connects and disconnects iPhone 6S.
- Fixed DUT shows its own DND icon after getting controlled by GVC.

## **FIRMWARE VERSION 1.0.1.44**

### **PRODUCT NAME**

GAC2500

### **DATE**

07/12/2016

### **CHANGES SINCE FIRMWARE VERSION 1.0.1.40**

#### **ENHANCEMENT**

- (None)

#### **BUG FIX**

- Fixed Weather app does not update issue.
- Fixed DUT still asks for username and password even the address does not need validation.
- Fixed DUT LCD displays pattern screen lock after DUT upgrades via USB.
- Fixed DUT LCD may remain cascade interface after disconnected PC via USB cable.
- Fixed some PMU issues.

## FIRMWARE VERSION 1.0.1.40

### PRODUCT NAME

GAC2500

### DATE

05/18/2016

### CHANGES SINCE FIRMWARE VERSION 1.0.1.34

#### ENHANCEMENT

- Update rescue, speed up upgrade speed.

#### BUG FIX

- Fixed DUT selects a custom ringtone which is stored in USB from LCD for a specific contact, does not change back to system ringtone when the USB is disconnected.
- Fixed DUT does not give prompt when dialing number does not match dial plan on web UI.
- Fixed DUT repeatedly plays notification tone after upgrading.
- Fixed DUT cannot end Skype call.
- Fixed DUT displays wrong information when using feature code \*17.
- Fixed DUT displays mute/block for multicast lines on web UI which is different from LCD.
- Fixed DUT download status disappears when sliding right twice when downloading apps in GS Markets.
- Added Guest Login option under Advanced Settings -> General Settings must reboot to take effect.
- Fixed DUT holds a participant in a conference, then mutes itself but does not change mute status.
- Fixed DUT enters MPK and then cannot return to talking interface after locking screen.
- Fixed DUT cannot update immediately after contact number is changed.
- Fixed DUT dialplan does not work on matching specific numbers.
- Hided 'Virtual Account Group' setting since not fulfill at current time.
- Removed IPv6 setting since not fulfill at this version.
- Fixed DUT does not send request to FW server after receiving server address carried in option 66.
- Fixed sometimes audio echo issue.

## FIRMWARE VERSION 1.0.1.34

### PRODUCT NAME

GAC2500

### DATE

03/28/2016

### CHANGES SINCE FIRMWARE VERSION 1.0.1.31

#### ENHANCEMENT

- Updated tool tips style in web UI
- Updated layout of MPK app and MPK widget on LCD
- Added a quick access softkey to MPK (Hotkeys) app below the SIP accounts in dial pad
- Moved some apps into Tool Folder directory by default
- Added Contacts access softkey in MPK app
- Added Icon on notification bar when PNP is enabled
- Added Option to add a contact to MPK speed dial in Contacts app. Here is the step to use it:
  1. Open Contacts app, select a contact.
  2. Select a number in the contact.
  3. On the upper right, press “Send” icon and check “Send to Speed Dial (Hotkey)”.
  4. In MPK app, there would be an icon created for the contact speed dial.
- Updated the videos in Tips app according to new firmware’s UI and features
- Added Group Call feature in MPK. Here is the step to use it:
  1. On LCD, open MPK app and enter the adding MPK page by tapping the icon on the upper right.
  2. Select “Group Call” in the key mode.
  3. Fill in the Group name, and check “Mute all” if you want to have participants muted when entering the conference call.
  4. In the account list below, users can add up to 6 accounts by filling the numbers, names and selecting a registered account;
  5. Users can also edit this MPK in web UI->Advanced->MPK LCD Settings->Key Mode: Group Call.

#### BUG FIX

- Fixed DUT does not override the ACS URL under TR-069 if there is one in DHCP Option 53
- Fixed DUT does not display transferee but transferer info after transferer performs attended transfer
- Fixed DUT set “Mute All” or “Block All” in a conference but does not take effect on newly added attendees
- Fixed DUT does not have prompt when attended transferring to a user while the user is calling DUT
- Fixed DUT can’t be provisioned successfully for the first time after factory reset



- Fixed DUT cannot search Wi-Fi when set to some country code
- Fixed DUT web UI will display single call interface first when calling multiple numbers
- Fixed LCD lock icon would disappear after resuming a SRTP call on hold
- Fixed USB cascade mode would make DUT display Chinese incorrectly
- Fixed DUT fails to transfer a number with filtered characters from web UI
- Fixed DUT password input from locked screen overlaps notification bar
- Fixed The renamed paired Bluetooth device on DUT had the name changed back automatically after DUT searches for devices again
- Fixed DUT "Show account name only" does not apply on some accounts settings
- Fixed Mute All/Block All buttons do not work when some member is on hold in a conference
- Fixed DUT does not send LLDP package after power cycle
- Fixed DUT converts a folder into a file before deleting it
- Fixed Lync talking via BT headset does not take effect

## FIRMWARE VERSION 1.0.1.31

### PRODUCT NAME

GAC2500

### DATE

03/04/2016

### CHANGES SINCE FIRMWARE VERSION 1.0.1.26

#### ENHANCEMENT

- Added option to hold individual participant in conference call
  1. During a conference call, tap the participant icon to display 5 softkeys.
  2. Select the middle softkey to hold the participant.
  3. Tap on the participant icon and then select the left softkey to resume.
- Added ability to download audio recording from web UI
  1. During a call, tap on “Start recording” to start recording the call, then tap on “Stop recording” to stop recording. Or create a recording via Recorder app on GAC2500.
  2. Go to GAC2500 web UI->Maintenance->Recording page to download the file.
- Improved provisioning when GAC2500 is provisioned with Broadsoft server

#### BUG FIX

- Fixed DUT should not be allowed to schedule a conference if no account is registered
- Fixed Firmware error message in notification bar is not fully displayed
- Fixed The number selected from call history cannot be added to blacklist
- Fixed Error pops up when quickly tapping on “Enable password” in Recorder app
- Fixed DUT fails in downloading recordings that was renamed from web UI
- Fixed Synchronization issues on slave DUT with master DUT
- Fixed Slave DUT can input feature code bypassing master DUT
- Fixed Slave DUT displays white screen in calling when master DUT is connected to GVC via Bluetooth
- Fixed DUT calling interface does not display name on status bar if the number is from LDAP
- Fixed DUT does not display conference interface in multicast paging when Conference server is enabled
- Fixed DUT goes to different page after ending an incoming call during a conference
- Fixed DUT account registered on UCM has a wrong option under More in calling page when answering an incoming call during a conference
- Disabled mute icon when the conference is hold
- Fixed DUT displays wrong member info in conference after failure to transfer it to others
- Fixed DUT does not display “unhold” after pressing “hold” in a conference with unknown number

- Fixed Some cascade mode asynchrony issues
- Fixed DUT backup restore process freezes on LCD during a call
- Fixed DUT does not disable “More” option in calling page when receiving remote ringtone
- Fixed DUT calls crashes when pressing home key in an attended transfer call

## FIRMWARE VERSION 1.0.1.26

### PRODUCT NAME

GAC2500

### DATE

01/15/2015

### CHANGES SINCE FIRMWARE VERSION 1.0.1.18

#### ENHANCEMENT

- Added option “Show account name only” in SIP account settings
- Added option “Tel URI” in SIP account settings
- Improved LCD display when the user name is too long
- Improved web UI display for certain icons and options
- Added feature to not allow new call when the phone is transferring a call
- Added option to enable navigation bar arrow under LCD menu->Settings ->Display
- Added option to select large room or small room under web UI->Advanced->Call features for the user to achieve better audio effect in different room sizes
- Added recording management page in web UI
- Added progress dialog display on LCD when switching to Bluetooth mode
- Added ability to add caller to conference when the phone is ringing
- Cleared missed call notification in idle screen after user enters the Call History
- Moved “Wireless & Network settings” under “Advanced settings” in LCD menu->Settings
- Moved Bluetooth settings from “Wireless & networks settings” to “Settings” in LCD menu->Settings

#### BUG FIX

- Fixed Music will be paused if connecting BT headset when playing music
- Fixed DUT should not allow deleting soft key when AUX3.5mm is used
- Fixed Registered account disappears on the widget after cancelling reboot on LCD
- Fixed Hands-free dialing delay for Bluetooth account
- Fixed Abnormal LCD display after ending the call
- Fixed DUT does not display contact name after call transfer is rejected
- Fixed Error is prompted in MPK call transfer process
- Fixed DUT display is incorrect after using MPK multicasting in a call and then ending it
- Fixed DUT can manually start the scheduled conference when there is already a conference in progress
- Fixed DUT cannot obtain customized file
- Fixed The conference reminder shows up after the conference begins

- Fixed Audio from DUT has delay after resuming the call on hold
- Fixed DUT needs re-enter the menu to see text to speech example change
- Fixed Web UI option “Replace by Name” doesn’t take effect when downloading contacts
- Fixed DUT will automatically change language after connecting to Wi-Fi by manually entering SSID and password
- Fixed DUT does not have ringback tone after transferring the call using attended transferred and the remote 3<sup>rd</sup> party is ringing
- Fixed some LDAP configuration issues
- Fixed some LCD display issues during conference
- Fixed LCD and web UI call status is not synchronized during operations such as adding contacts, recording, deleting participant during conference and etc
- Fixed DUT can add multicast listening without filling in IP address
- Fixed In web UI->Account->Call settings, Call Forward time interval format error prompt is not specific
- Fixed After DUT uses 3.5mm AUX to connect to a cellphone, the cellphone acts as a member in the conference but it can be deleted
- Fixed DUT connected with a Bluetooth headset has a delay when dialing number
- Fixed DUT will change hardware version when recovering a backup obtained from a different hardware version device