



Grandstream Networks, Inc.

GXV3240D IP Multimedia Phone for Android™

Administration Guide



GXV3240D Administration Guide

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DOCUMENT PURPOSE

This document describes how to configure the GXV3240D via phone's LCD menu and web UI menu to fully manipulate phone's features. The intended audiences of this document are phone administrators. To learn the basic functions of the GXV3240D, please visit <http://www.grandstream.com/support> to download the latest "GXV3240D User Guide".

GNU GPL INFORMATION

GXV3240D firmware contains third-party software licensed under the GNU General Public License (GPL). Grandstream uses software under the specific terms of the GPL. Please see the GNU General Public License (GPL) for the exact terms and conditions of the license.

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

CHANGE LOG

This section documents significant changes from previous versions of GXV3240D 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 1.0.1.54

- Add Hide LDAP Contacts
- Add Hide Local Call History
- Add BS Call Log Update Interval
- Add SRTP Encryption Bit
- Add BroadWorks Xsi features
- Add Enable Function for Incoming Call
- Update the descriptions for some options

FIRMWARE VERSION 1.0.1.39

- Add “Check SIP User ID for Incoming INVITE”
- Add “Only Accept SIP Requests from Known Servers”
- Add “Jitter Buffer Maximum (ms)”
- Add “Start Video Call Fullscreen”
- Add “Configuration via Keypad Menu”
- Delete “Configuration via LCD Menu”

FIRMWARE VERSION 1.0.1.36

- Update information for Compliance
- Update information for Handset TX/RX Gain

FIRMWARE VERSION 1.0.1.29

- This is the initial version.

WELCOME

Thank you for purchasing Grandstream GXV3240D Enterprise Multimedia Phone for Android™. The GXV3240D combines a 6-line IP video phone with the power of a multi-platform video conferencing solution and the convenience of an Android smartphone to offer an all-in-one voice, video, data, and mobility solution. The GXV3240D is a 6-line IP multimedia phone with a 4.3" capacitive touch screen 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™, Microsoft Lync™, Salesforce1™, and GoToMeeting™. The phone features Gigabit ports, HD audio and HD video, a built-in web browser, integrated Wi-Fi for network flexibility, PoE, and a tiltable CMOS camera. The GXV3240D is compatible with the GXP2200 Extension Module, allowing for quick and easy access to up to 160 contacts at the touch of a finger. The GXV3240D's integrated Bluetooth allows users to sync the calendar and contact books on their mobile phones with the GXV3240D, to use Bluetooth headsets, and to transfer calls to and from the phone to their mobile phones. By combining a state-of-the-art IP phone, an advanced video conferencing solution, and the Android operating system, businesses throughout the world can now use one IP Phone for all communication and productivity needs.

 **Caution:**

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

 **Warning:**

Please do not use a different power adaptor with the GXV3240D as it may cause damage to the products and void the manufacturer warranty.

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

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

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PRODUCT OVERVIEW

FEATURE HIGHLIGHTS

- 6 lines with up to 6 SIP accounts including FREE IPVideoTalk account with video mail, up to 6-way audio conference and 3-way video conference, phonebook with up to 1000 contacts, call history with up to 1000 records.
- Dual switched auto-sensing 10/100/1000Mbps network ports, Wi-Fi (802.11b/g/n), PoE+, Bluetooth, USB, SD, HDMI, EHS with Plantronics headsets support, support for up to 4 cascaded GXP2200EXT modules.
- 4.3" (480x272) capacitive (5 points) touch screen TFT LCD, mega pixel CMOS sensor camera with privacy shutter.
- HD wideband audio, full-duplex hands-free speakerphone with advanced acoustic echo cancellation.
- Runs the Android™ Operating System 4.2 and offers full access to the Google Play Store - which includes thousands of business productivity apps such as Skype, Microsoft Lync, Salesforce1, GoToMeeting.
- Integrate with Grandstream's GXV-series of IP video surveillance cameras to view live camera feeds and to receive alerts/alarms from IP cameras installed on the same network.
- Offers a multi-platform video conferencing solution (Grandstream's Free IPVideoTalk, Skype, Microsoft Lync, and more).
- Create customized Android applications for any business need to run on the GXV3240D using Google's API and Grandstream's SDK toolkit.

GXV3240D TECHNICAL SPECIFICATIONS

Table 1:GXV3240D 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-MED, LDAP, TR-069, 802.1x, TLS, SRTP
Network Interfaces	Dual switched 10/100/1000 Mbps ports with integrated PoE
Graphic Display	4.3"(480x272)capacitive(5points)touch screen TFT LCD
Bluetooth	Yes, integrated. Bluetooth 2.1 + EDR

Wi-Fi	Yes, integrated. 802.11a/b/g/n
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), USB, SD, Mini HDMI, extension module port
Feature Keys	11 function keys for PHONEBOOK, BACKSPACE, HEADSET, MUTE, HOLD, MESSAGE, TRANSFER, CONFERENCE, SPEAKERPHONE, SEND/REDIAL, VOLUME. 3 dedicated Android keys for HOME, MENU, and BACK
Voice Codec	Support for G.711 μ /a, G.722 (wide-band), G.726-32, iLBC, Opus (pending), in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO)
Video Codec and Capabilities	H.264 BP/MP/HP, video resolution up to 480p, frame rate up to 30 fps, bit rate up to 2Mbps, 3-way conference, anti-flickering, auto focus and auto exposure, PIP (Picture-in-Picture), on-screen-display, camera block, still picture capture/store, video recording, visual voice message indicator
Telephony Features	Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 6-way audio conference, shared-call-appearance (SCA) / bridged-line-appearance (BLA), virtual MPK, downloadable phone book (XML, LDAP), call waiting, call history, boss-secretary virtual button, flexible dial plan, hot desking, personalized music ringtones, server redundancy & fail-over
Sample Applications	Skype, Google Hangouts, Microsoft LYNC, Web browser, Adobe Flash, Facebook, Twitter, Youtube, news, weather, stock, Internet Radio, Pandora, Last.fm, Yahoo Flickr, Photobucket, alarm clock, Google Calendar, mobile phone data import/export via Bluetooth, etc. API/SDK available for advanced custom application development
Applications Deployment	Allow various Android operating system 4.2 compliant applications to be developed, downloaded and run in the embedded device with provisioning control
HD Audio	Yes, HD handset and speakerphone with support for wideband audio
Base Stand	Yes, integrated stand with 2 adjustable angles. Wall mountable
Extension Module	Yes, can power up to 4 GXP2200EXT modules which feature a 128x384 graphic LCD, 20 quick-dial/BLF keys with dual-color LED, 2 navigation keys, and less than 1.2W power consumption per unit
QoS	Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-session based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control
Multi-language	English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese and etc

Upgrade/Provisioning	Firmware upgrade via TFTP/HTTP/HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input: 100-240VAC 50-60Hz; Output: 12VDC, 1.5A (18W); Integrated PoE+ (Power-over-Ethernet) 802.3at, Class 4
Physical	Dimension: 196.5mm (W) x 206.2mm (L) x 85.2mm (H) Unit weight: 0.92kg Package weight: 1.45kg
Temperature and Humidity	Operating: 0°C to 40°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Package Content	GXV3240D phone, handset with cord, base stand, universal power supply, network cable, lens cleaning cloth, quick installation guide, brochure, GPL license
Compliance	FCC: Part 15(CFR47) Class B, Part 15C, MPE, UL 60950 (Power Adapter) CE: EN55022 Class B, EN55024 Class B, EN61000-3-2, EN61000-3-3, EN60950-1, EN300-328, EN301-489, EN62311, EN62479, RoHS RCM: AS/ACIF S004, AS/NZS CISPR22/24 Class B, AS/NZS 60950, AS/NZS 4268, AS/NZS 4771
USB Port	USB Port can connect with the mouse/keyboard or charging for USB devices. USB Port also can connect with USB Disk as the phone's storage. But end user can't read the USB Disk data through PC when PC connect with IP Multimedia Phone.

GXV3240D LCD SETTINGS

The GXV3240D LCD MENU provides easy access to the settings on the phone. Some of the settings from Web GUI could be configured via the LCD as well.

The following table shows the LCD setting menu options.


Table 2: GXV3240D LCD Settings

Personalized Account	<ul style="list-style-type: none"> • Ringtone • Auto-Answer • Shared Call Appearance (SCA) • Call Forwarding
Wireless & Network	<ul style="list-style-type: none"> • Ethernet Settings • Wi-Fi ON/OFF • Wi-Fi Settings • Bluetooth ON/OFF • Bluetooth Settings (available when Bluetooth is turned on) • VPN • OpenVPN • Proxy Settings • Additional Network Settings • Portable Hotspot
Sound	<ul style="list-style-type: none"> • General <ul style="list-style-type: none"> ➤ Silent Mode ➤ Volumes • Incoming Calls <ul style="list-style-type: none"> Ringtone • Notifications <ul style="list-style-type: none"> Notification Tone
Display	<ul style="list-style-type: none"> • Brightness • Screen Timeout • Screensaver Timeout • Daydream • Landscape Screen • HDMI • HDMI Display Settings
Storage	<p>Display storage status for internal storage, SD card and USB flash drive devices plugged into the phone.</p>

Applications	Manage applications installed on the phone.
Location Access	Configure to allow applications to access phone's location information.
Security Settings	<ul style="list-style-type: none"> • Screen Security <ul style="list-style-type: none"> ➤ Screen Lock ➤ Automatically Lock (if screen lock is set up) ➤ Owner Info • Passwords <ul style="list-style-type: none"> ➤ Make passwords visible • Device Administration <ul style="list-style-type: none"> ➤ Device Administrators ➤ Unknown Sources ➤ Verify Apps • Credential Storage <ul style="list-style-type: none"> ➤ Trusted Credentials ➤ Install from SD Card ➤ Clear Credentials
Language & Keyboard	<ul style="list-style-type: none"> • Language • Spell Checker • Personal Dictionary • Keyboard & Input Methods • Speech • Mouse/Trackpad
Accounts	Add account to the phone to sync up contacts and Google Calendar, sign in Google Play (if installed), sign in Email and etc.
Date & Time	<ul style="list-style-type: none"> • Enable and Use Specified NTP Server Address • Set Date • Set Time • Set Time Zone • Use 24-hour Format • Choose Date Format
About Phone	Display phone's status. No configuration is necessary here. <ul style="list-style-type: none"> • Account Status • Network Status • System Info
Advanced Settings	<ul style="list-style-type: none"> • Account. Configure SIP account registration information. • Upgrade • Syslog • Factory Reset

	<ul style="list-style-type: none"> • Developer Mode
Reboot	Reboot the phone.

OPEN LCD SETTINGS

- Go to LCD onscreen MENU and then tap on **Settings**;
Or
- On GXV3240D idle screen, press MENU button  and then tap on **System settings**.

PERSONALIZED ACCOUNT

In this menu, all the six SIP accounts will show up with registration status displayed. Tap to select the SIP account to configure ring tone, auto answer, shared call appearance and call forwarding settings.

- **Ringtone**

Select ring tone for the incoming call to this SIP account. If "Custom Ringtone" is selected, File Manager will be opened for users to choose their own music file to be configured as the incoming call ring tone. Users will see the music file name as the ring tone name in account ring tone settings in LCD as well as in web GUI.

- **Auto-Answer**

- If set to "Always", the phone will automatically turn on the speaker phone to answer all incoming calls.
- If set to "Enable Intercom/Paging", the phone will answer the call based on the SIP info header sent from the server/proxy.
- By default, it's turned off.

- **Shared Call Appearance (SCA)**

- **Shared Call Appearance (SCA)**: Enable or disable SCA on the account.
- **Enable Barge-in**: If set to "Yes", the user could barge into an active call on a shared line.
- **Auto Fill Call Park Code**: If set to "Yes", the configured "Call Park Service Code" will be automatically filled in on the phone's dial pad when picking up the parked call. This is used when "Special Mode" is set to "Broadsoft" (from web UI or provisioning) and "Enable SCA" is set to "Yes".

- **Call Park Service Code:** Configure the pickup feature code for call parking. If "Auto Fill Call Park Code" is set to "Yes", this call park service code will be automatically filled in on the phone's dial pad when picking up the parked call. This is used when "Special Mode" is set to "Broadsoft" (from web UI or provisioning) and "Enable SCA" is set to "Yes".
- **Seize Line Timeout (s):** Configure the timeout before the line can be seized (in seconds) when using shared line. The default setting is 15 seconds. For Shared Call Appearance, phone must send a SUBSCRIBE-request for the line-seize event package whenever a user attempts to take the shared line off hook. "Line Seize Timeout" is the line-seize event expiration timer.

- **Call Forwarding**

The incoming call to this SIP account can be forwarded to another number using different rules as configured here.

- **None:** Call forwarding feature is disabled. This is the default setting.
- **Unconditional:** Forward all calls to a particular number.
- **Time based:** Set the time range and number to be forwarded to. In this time range, calls are forwarded to the number specified in "**In Time Forward To**"; out of this time range, calls are forwarded to the number specified in "**Out Time Forward To**".
- **Others:** When the phone is busy, calls are forwarded to the number specified in "**Busy To**"; when incoming calls are not answered, the calls are forwarded to the number specified in "**No Answer To**"; the waiting time for answering calls is specified in "**No Answer Timeout (s)**".

WIRELESS & NETWORK







Users can configure Ethernet settings, Wi-Fi, Bluetooth, VPN, PPPoE and other advanced network settings here.

ETHERNET SETTINGS

Configure DHCP, Static IP or PPPoE to for the phone to access network via Ethernet settings.

- If **DHCP** is selected, the phone will get IP address automatically from the DHCP server in the network. This is the default mode.
- If **Static IP** is selected, enter the information for IP Address, Subnet Mask, Default Gateway, DNS Server and Alternative DNS server.
- If **PPPoE** is selected, enter PPPoE Account ID and PPPoE Password provided from the PPPoE server to get authenticated for network access.

WI-FI SETTINGS

- Tap on "**Wi-Fi**" to turn on/off Wi-Fi connection. By default it's turned off.
- Tap on "**Wi-Fi Settings**" to set up and manage wireless access points. This option is available only when Wi-Fi is turned on.
 - **View available Wi-Fi networks.** A list of available Wi-Fi network within the range will be displayed in "Wi-Fi Settings" menu.
 - **Scan.** Press MENU button  and select "Scan" to initiate scan for the Wi-Fi network within the range.
 - **Connect to available Wi-Fi network.** Tap on the SSID in the list and enter the password to quickly connect to it. The phone will get IP address via DHCP from the wireless router.
 - **Add Network.** If the Wi-Fi network SSID doesn't show up in the list, or users would like to set up advanced options for the Wi-Fi network, press MENU button  and select "Add Network". Then Enter SSID, Security type, password and set up address type (DHCP/Static IP/PPPoE) in the prompt dialog. The phone will reboot with Wi-Fi network connected.
 - **WPS Push Button.** Press MENU button  and select "WPS Push Button" for an easy and secure Wi-Fi network setup. Once selected, check your router and press the Wi-Fi Protected Setup (WPS) button on the router so that the Wi-Fi connection and security can be automatically set up between the phone and the router. The phone should get network connection shortly after successfully setup.
 - **WPS Pin Entry.** Press MENU button  and select "WPS Pin Entry" for an easy and secure Wi-Fi network setup. Once selected, a randomly generated PIN number will show on the phone for you to enter it on your Wi-Fi router. The setup can take up to 2 minutes to complete and the phone should get network connection once done.
 - **Wi-Fi Direct.** This is to set up peer-to-peer connection between two Wi-Fi Direct devices so that they can share data and sync files. Press MENU button  button and select "Search for devices". Then tap on the available peer device to initiate connection.
 - **Advanced Settings.** Press MENU button  and select "Advanced".
 - Network Notification:** If enabled, the phone will show notification on the top status bar indicating an open network is available. By default it's enabled.
 - Avoid Poor Connections:** If enabled, Wi-Fi network won't be used unless the connection is good. By default it's disabled.
 - MAC address:** This shows the MAC address of the phone.
 - IP address:** This shows the IP address of the phone from Wi-Fi network.

For more information about how to use Wi-Fi on the GXV3240D, please refer to the following link:
http://www.grandstream.com/products/gxv_series/GXV3240D/documents/GXV3240D_wifi_guide.pdf

BLUETOOTH SETTINGS

- Tap on "**Bluetooth**" to turn on/off Bluetooth connection. By default it's turned off.
- Tap on "**Bluetooth Settings**" to set up and manage Bluetooth connections. This option is available only when Bluetooth is turned on.

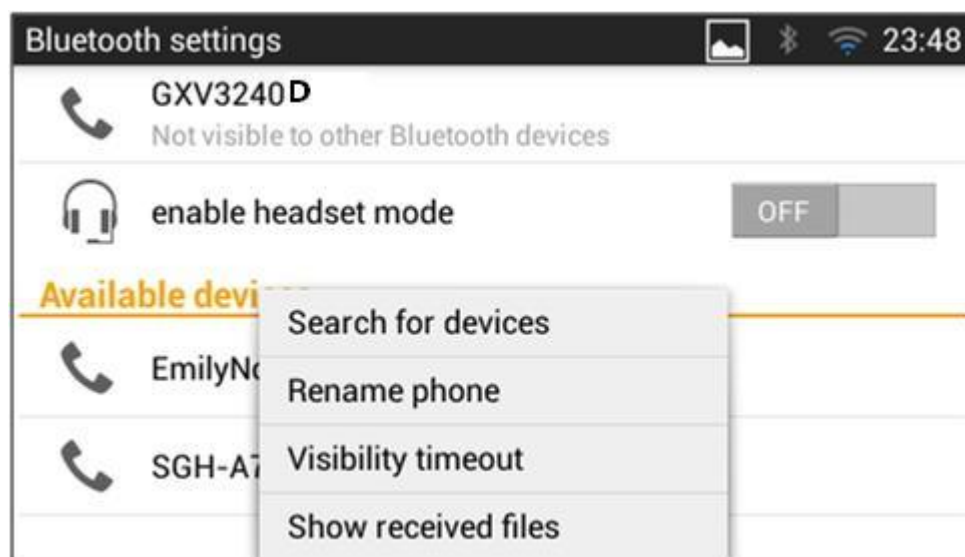







Figure 1: GXV3240D Bluetooth Settings

- **Visibility.** Tap on "**GXV3240D**" on the top of the above screen to switch visibility status of the phone via Bluetooth. Normally you would need turn it on during pairing process so that other Bluetooth devices can discover the GXV3240D.
- **Visibility timeout.** Press MENU button  and select "Visibility timeout". Tap to select the timeout interval among "2 minutes", "5 minutes", "1 hour" or "never". By default, the visibility timeout is 2 minutes.
- **Rename phone.** Press MENU button  and select "Rename phone" to change the name of the GXV3240D, which is displayed on other Bluetooth devices when discovered. By default, it's "**GXV3240D**" as shown on the top of the Bluetooth settings screen.

- **Search for devices.** Press MENU button  and select "Search for devices" to initiate scan process on the GXV3240D to discover the Bluetooth devices within the range.
- **Enable headset mode.** When it's turned on, the connected mobile devices via Bluetooth can switch phone call to the GXV3240D so that users can talk using the GXV3240D handset/speaker for phone calls on the mobile devices. The Bluetooth Handsfree profile for the mobile phone number will also show as one line in the dial screen for users to make call using the GXV3240D.
- **Pairing.** Tap on the Bluetooth device name in the scan result to pair and connect to the device.
- **Show received files.** Press MENU button  and select "Show received files" to check Bluetooth file transfer history and access received files.
- **Paired device settings.** If the device is paired, tap on icon  on the right side of the paired Bluetooth device name to access settings including "Rename", "Unpair" and "Headset audio". Please note "Headset audio" can be turned on only if "Enable headset mode" is set to Yes.

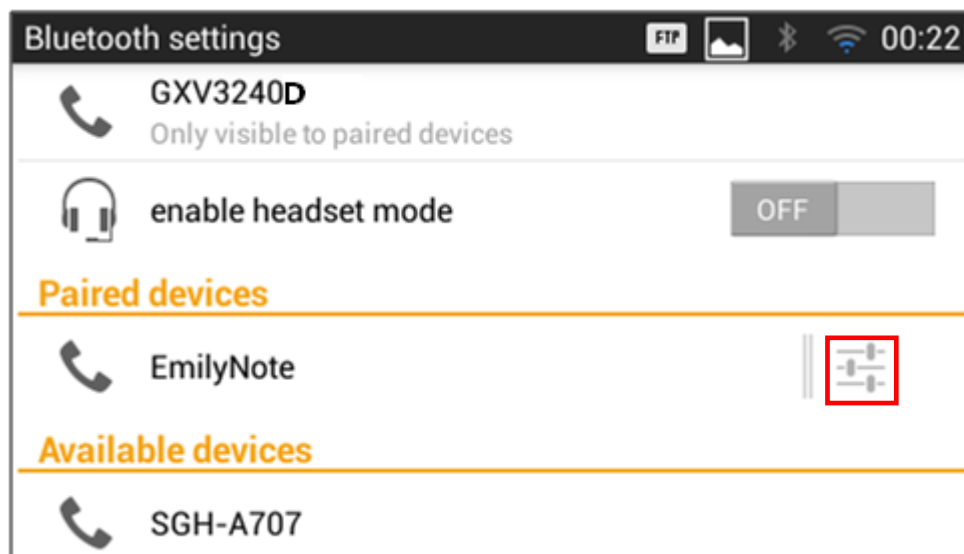


Figure 2: GXV3240D Bluetooth Paired Device Settings

For more information about Bluetooth feature on the GXV3240D, please refer to the following link:
http://www.grandstream.com/products/gxv_series/GXV3240D/documents/GXV3240D_bluetooth_guide.pdf

VPN

1. Tap on "Add VPN profile" to set up VPN connection. The supported VPN type are "PPTP", "L2TP/IPSec PSK", "L2TP/IPSec RSA", "IPSec Xauth PSK", "IPSec Xauth RSA" and "IPSec Hybrid RSA".
2. Once added, the profile will be displayed in the VPN list.
3. Touch and press it for about 2 seconds until a dialog box shows up. Users can select to edit this VPN profile or delete it.

PROXY SETTINGS

For some network setup, it is required to connect to the Internet via proxy server. Manually configure "Proxy hostname", "Proxy port" and "Bypass proxy for" in proxy settings for the phone to get Internet connection successfully.


ADDITIONAL NETWORK SETTINGS

- **LLDP**
Turn on/off LLDP on the GXV3240D. If turned on, the phone will be able to discover the LAN polices as set up in the switch side to obtain network settings such as VLAN tag, Layer 2 QoS 802.1p priority and Layer 3 QoS in a plug-and-play manner.
- **Layer 3 QoS for SIP**
This field defines the layer 3 QoS parameter for SIP packets. This 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. This is the value used for IP Precedence, Diff-Serv or MPLS. The Default value is 48.
- **Layer 3 QoS for Video**
This field defines the layer 3 QoS parameter for video packets. This is the value used for IP Precedence, Diff-Serv or MPLS. The Default value is 48.
- **Layer 2 QoS 802.1Q/VLAN Tag**
This field contains the value used for layer 2 VLAN tagging. The Default value is 0.
- **Layer 2 QoS 802.1p/Priority Value**
This assigns the priority value of the Layer2 QoS packets. The Default value is 0.
- **802.1x mode**
This option allows the user to enable/disable 802.1x mode on the phone. The default setting is disabled. To enable 802.1x mode, select the 802.1x mode, enter the Identity and MD5 Password to be

authenticated to the network.

TETHERING&PORTABLE HOTSPOT

The GXV3240D can be served as a Wi-Fi access point for other devices to connect to wireless network if hotspot is turned on.

1. Turn on hotspot by tapping on "Portable Wi-Fi hotspot". Icon  will show on the top status bar of the GXV3240D.
2. Tap on "Set up Wi-Fi hotspot" to configure network SSID, security type and password. Please make sure the password has at least 8 characters. Otherwise, users won't be able to save the setting.
3. On the other device that needs Wi-Fi access, turn on Wi-Fi, look for the SSID of the GXV3240D hotspot and enter authentication information to get connected.

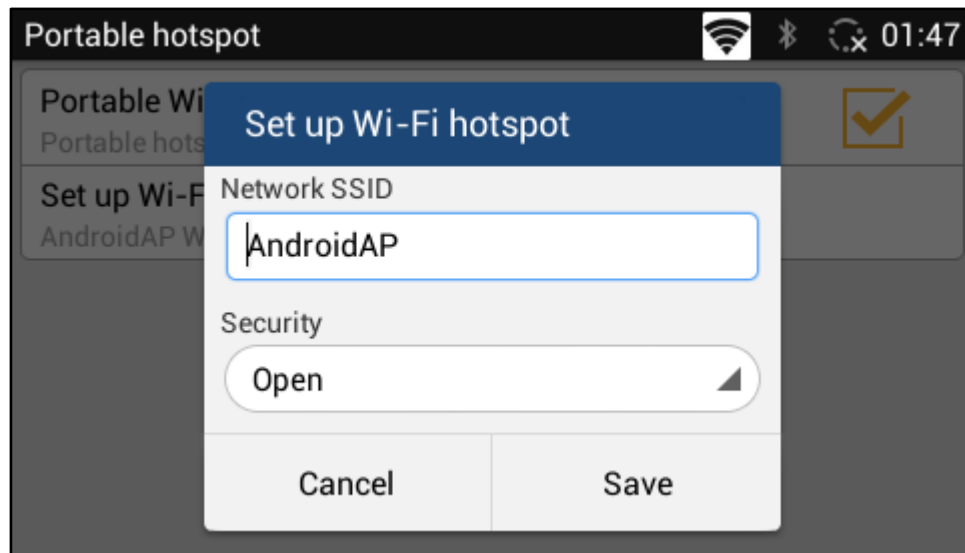


Figure 3: GXV3240D Wi-Fi Hotspot

SOUND




Use the Sound settings to configure phone's sound mode, volume, ring tone and notification tone.

- **Silent mode.** Tap on it to turn on/off the sound from speaker when there is incoming call.
- **HDMI.** Tap on it to switch the audio output between the HDMI and local channels when HDMI device connected. If it is on, the audio will be output via the remote HDMI device. Or it will output from local speaker, headset or other non-HDMI audio channels.
- **Line order.** Tap on it to select 3.5mm earphone line order "CTIA" or "OMTP". Audio loopback test for

the selected option is available if the 3.5mm earphone is plugged in.

- **Volume.** Tap on **Volume** and scroll left/right to adjust the volume for Ringtone, Media and Alarm. When adjusting the volume, the tone will be played reflecting the volume change.
- **Ringtone.** Select phone's ringtone for incoming call.
- **Notification tone.** Select notification ringtone.

DISPLAY

- **Brightness.** Tap on **Brightness** and scroll left/right to adjust the LCD brightness.
- **Screen timeout.** Tap to open the dialog to set the screen timeout interval.
- **Screensaver timeout.** Tap to open the dialog to set the screensaver timeout interval.
- **Daydream.** Tap to select the screensaver on the phone.
 - **ScreenSaver.** After selecting "ScreenSaver", tap on  to configure network image path, local image path and animation intervals for screen saver display.
 - **Clock.** Display analog clock as screen saver.
 - **Colors.** Display color as screen saver.
 - **Photo Frame.** After selecting "Photo Frame", tap on  to select local pictures to be displayed in photo frame as screen saver.
 - **Photo Table.** After selecting "Photo Table", tap on  to select local pictures to be displayed in photo table as screen saver.
- **Font size.** Tap on it to adjust the font size for LCD screen.
- **Landscape Screen.** Tap on the checkbox to enable/disable landscape display on all the screens. This option is usually used when the 3rd party application displays vertically when running on the GXV3275 screen. If it is enabled, it may cause some apps disabled.
- **HDMI.** Tap on it to turn on/off the HDMI video output when HDMI device connected.
- **HDMI display settings.** Tap on "HDMI display settings" to adjust display size on the HDMI device.

STORAGE

The storage status for phone's internal and external storage devices is sorted and displayed with different categories. Users can tap on the category to manage the corresponding data (see table below).

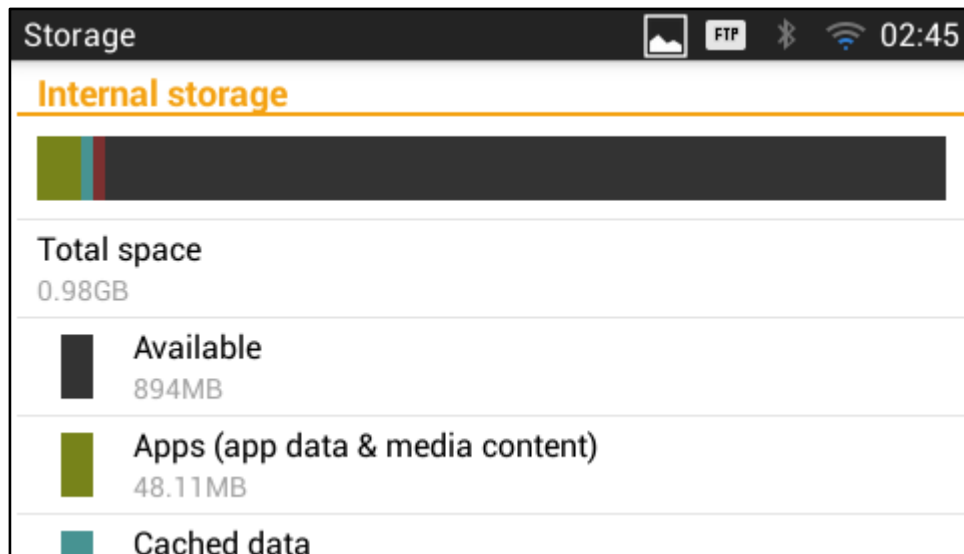


Figure 4: GXV3240D Storage

Table 3: GXV3240D Storage Category and Actions

Apps	Tap on it to access running apps, downloaded apps, all apps and etc. Users could tap on the app to stop the process.
Cached data	Tap on it to clear cached data for all apps.
Misc.	Tap on it to open the file system of the storage in FileManager . Users can then select the folders to be cleaned up.
Picture, videos	Tap on it to open albums in Gallery .
Audio	Tap on it to open the audio file using Music app or FileManager .
Downloads	Tap on it to open download history.

Users can tap on "Erase SD card" to remove all the pictures, video and files from the SD card in the phone's storage.

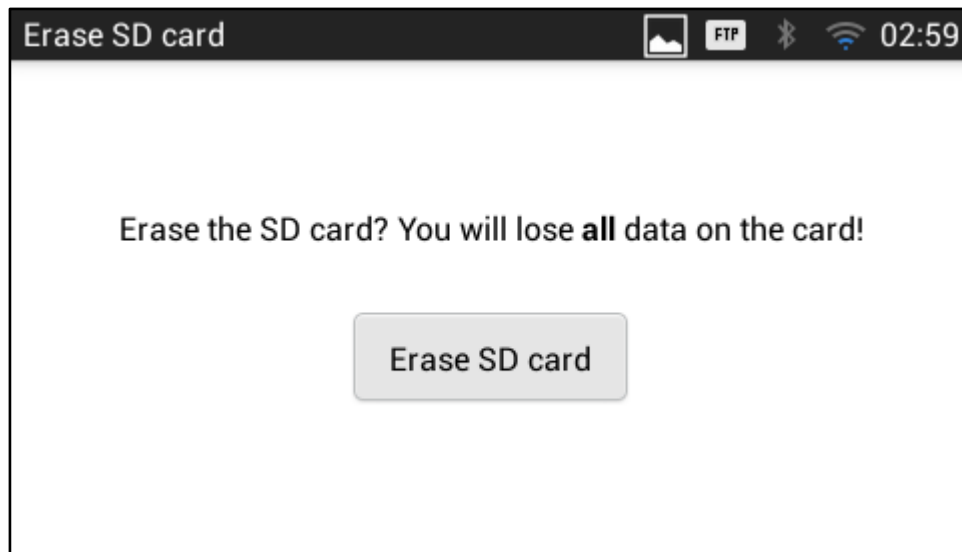


Figure 5: Erase SD Card

APPLICATIONS

VIEW APPLICATIONS

Users can view the details and manage the applications installed on the GXV3240D. There are four tabs, with lists of applications and their components in each tab. At the bottom of each tab is the memory usage information for the selected tab. The four tabs are:

- **Downloaded:** To view the applications you've downloaded from GS Market or other sources.
- **On SD Card:** To view the applications on the SD card of the phone's storage.
- **Running:** To view the running or cached applications.
- **All:** To view all the applications installed on the GXV3240D.

User can swipe left/right on the screen to switch among the tabs.

MANAGE APPLICATIONS

Tap on an application, process or service to open it. The Application Info screen for each application lists its name, version, size and etc. Depending on the app, it may also include options for managing the application's data, forcing the application to stop, and disabling the application. Usually the options are:

- Use the "Force stop" softkey to stop an application that is misbehaving.


- Use the "Disable" softkey to disable the application. Users could tap on "Enable" to turn it back on again. This usually applies to the built-in applications.
- Applications installed from GS Market or other 3rd party sources can be uninstalled by selecting "Downloaded" tab and tapping on "Uninstall" softkey.
- Storage provides storage information that an applications uses on the phone.
- Delete an application's settings and other data by touching "Clear data".
- If the application stores data in a temporary space of the phone's memory, "Cache" lists how much information is stored. Tap on "Clear cache" to clear the cache.
- "Launch by default". If the application is configured to launch certain file type by default, tap on "Clear defaults" could reset this.
- "Permissions" lists information of the data that the app has access to. For example, the application might access the location information, storage, phone calls and etc.
- If an application is misbehaving, users can tap on "Report" softkey (if available) to send the developer information for the application.

 **Note:**

Stopping abuilt-in application, operating system processes or services might disable one or more dependent functions on the phone. Users may need restart the phone to restore full functionality again.

SECURITY SETTINGS

SCREEN SECURITY

- **Screen lock.** Set up pattern or password for screen lock. Wizard will be provided to set up the pattern. The screen will be locked after booting up or the screen is off (i.e., screen saver screen activated, or manually slide down **Status Bar->System Settings->Screen Off**  to turn off LCD). Users will then be required to enter password or pattern to login. When the screen is locked, users can still be able to answer or reject incoming call.
- **Automatically lock.** Tap to select the interval before the screen is locked. This interval takes effect after the screen turns off.
- **Owner Info.** Display owner info on the lock screen. This can be useful if the device is lost.

PASSWORDS

- **Make passwords visible.** Check/uncheck to show/hide password as you type.

DEVICE ADMINISTRATION

- **Device administrators.** View or deactivate device administrators.
- **Unknown sources.** Check/uncheck to enable/disable permission to install applications that you obtain from web sites, email, or other sources than GS Market and Google Play;
- **Verify apps.** Disable or warn the users before installing the application.

CREDENTIAL STORAGE

- **Trusted credentials.** Display trusted CA certificates for system or user. Users can tap on the certificate to check the credential details or disable it.
- **Install from SD card.** Install encrypted certificates from SD card;
- **Clear credentials.** Clear credential storage of all contents and reset its password.

LANGUAGE & KEYBOARD

- **Language.** Tap to open the list of language options for the GXV3240D to display with.
- **Spell Checker.** Configure whether to check spellings and select the available spell-checker tool.
- **Personal Dictionary.** Add new words to user's dictionary so that they won't be displayed as error in the text.
- **Keyboard & Input Methods.** Set up default input method.
- **Android Keyboard.** Set up whether to use Android keyboard or not, and configure Android keyboard including sound, auto-correction, word suggestion and so on.

ACCOUNTS

The GXV3240D allows users to add Google account, Email account and other 3rd party applications account to the phone. Once the account is associated, the browser, calendar and contacts can be synced up with the signed-in account on the GXV3240D.

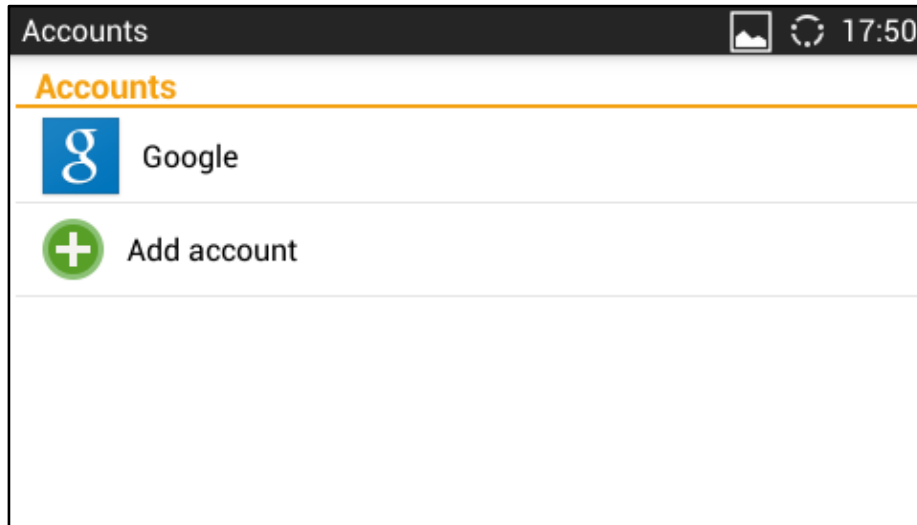


Figure 6: GXV3240D Accounts Sync Up Settings - Google Account Signed In

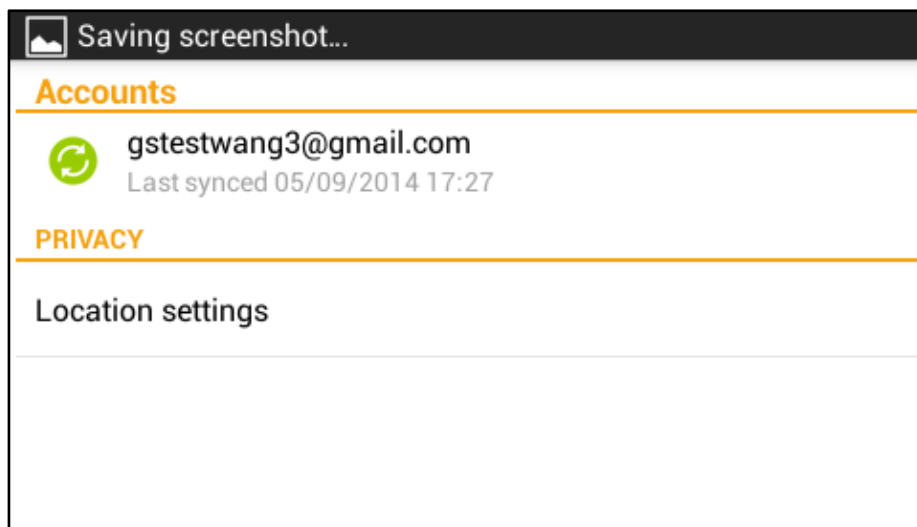


Figure 7: GXV3240D Accounts Sync Up Settings - Google Account Synced Up



Figure 8: GXV3240D Accounts Sync Up Settings - Select Browser, Calendar and Contacts

Additionally, if Google account is set up as the above figures show, users will be automatically signed in after downloading Google Play from GS Market.

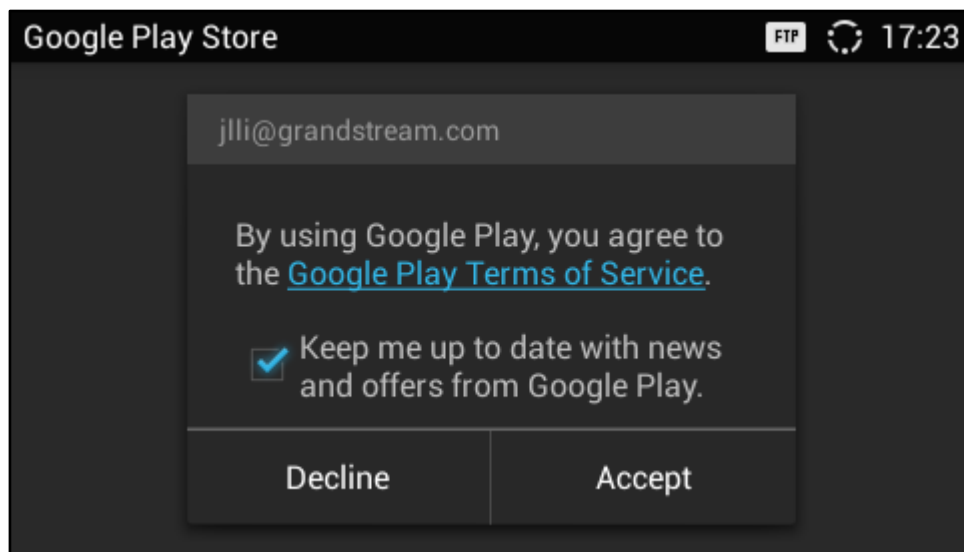


Figure 9: GXV3240D Google Play Account

DATE & TIME

- **Enable and Use Specified NTP Server Address.** Assign the URL or IP Address of NTP Server.

- **Set date.** Set the current date for the GXV3240D.
- **Set time.** Set the time on the GXV3240D manually.
- **Select time zone.** Select time zone for the GXV3240D.
- **Set time.** Set the current time for the GXV3240D.
- **Use 24-hour format.** Check/uncheck to display the time using 24-hour time format or not. For example, in 24-hour format, 13:00 will be displayed instead of 1:00 pm.
- **Choose date format.** Select the format of year, month and day for the date to be displayed.

ABOUT PHONE

About Phone lists the GXV3240D's SIP account information, network status and system information.

- **Account Status.** Displays the account name and registration status on the GXV3240D.
- **Network Status.** Displays MAC Address, Address Type, IP Address, Subnet Mask, Default Gateway, DNS Server, Alternative DNS server, NAT Type and VPN IP if any.
- **System Information.** Displays the Android version, system version, recovery version, u-boot version, kernel version, hardware version and CPE version of the GXV3240D. The system version is the firmware version for the GXV3240D.

ADVANCED SETTINGS

- **Account**

Configure SIP account's registration information. Tap on one account and fill in the necessary information to register the account, which includes Account Active, Account Name, SIP Server, SIP User ID, SIP Auth ID, SIP Auth Password, Voice Mail User ID and Display Name.

GXV3240D supports UCM Auto Config Number feature. This feature allows the Grandstream UCM, located in the same network, automatically to assign accounts and to register them to GXV3240D.

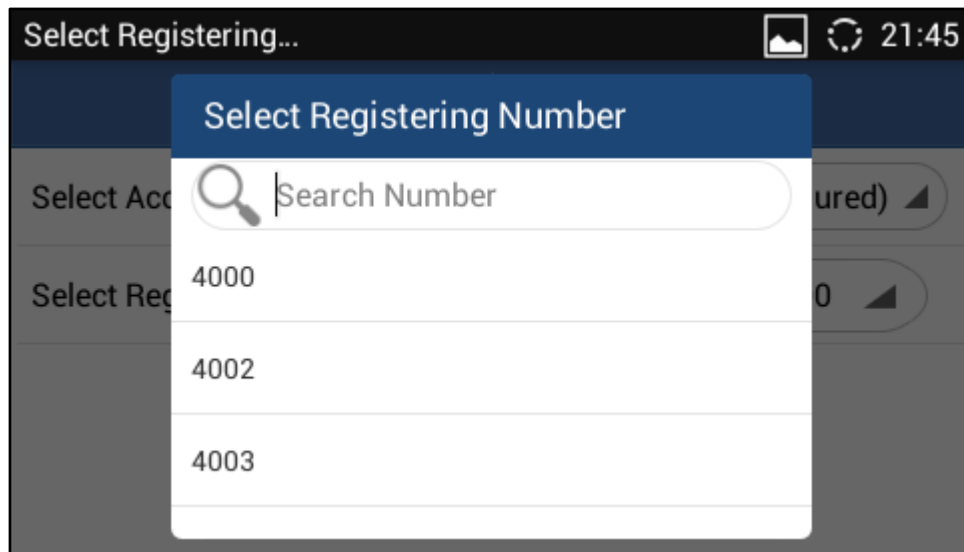


Figure 10: GXV3240D UCM Auto Config Number - Select Registering Numbers

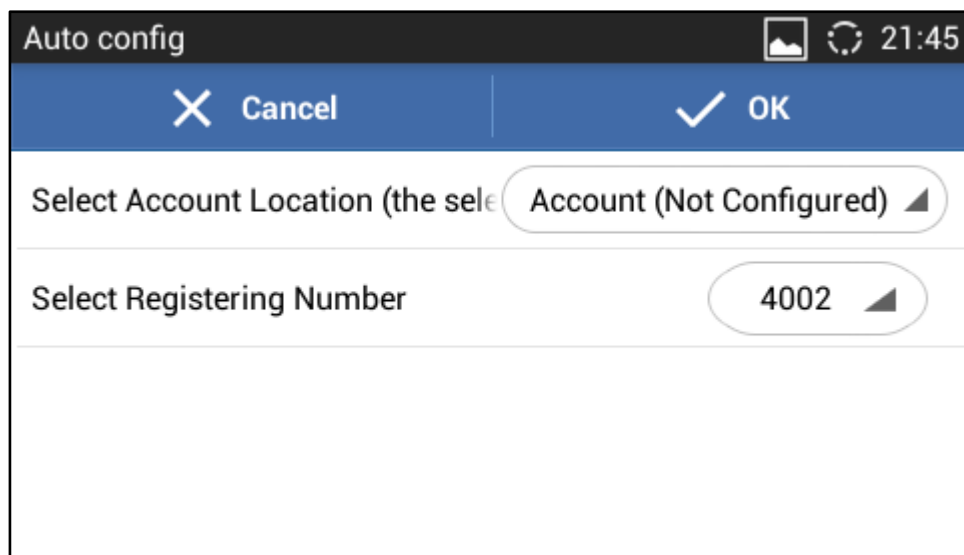


Figure 11: GXV3240D UCM Auto Config Number - Enabling Registering Number

- **Upgrade**

- Upgrade Mode: This field allows the user to choose the firmware upgrade method: TFTP, HTTP or HTTPS.
- Firmware Upgrade and Provisioning: Defines the rules for automatic upgrade: Always Check at bootup, when F/W pre/suffix changes, Skip the Firmware Check.
- HTTP/HTTPS User Name: The user name for the HTTP/HTTPS server if set up on the server side.
- HTTP/HTTPS Password: The password for the HTTP/HTTPS server if set up on the server side.
- Firmware Server Path: This defines the server path for the firmware server. It can be different from the configuration server for provisioning.

- **Config Server Path:** This defines the server path for provisioning. It can be different from the firmware server for upgrading.
- **Syslog**
 - **Syslog Level**
Select the level of logging for syslog. The default setting is "None". There are 4 levels: DEBUG, INFO, WARNING and ERROR.
 - **Syslog Server Address.** The URL/IP address for the syslog server. If the GXV3240D has network connection, the phone will send the syslog output to this server address.
- **Factory Reset.** Open and tap on **Factory Reset** to restore the GXV3240D to factory default settings.
- **Developer mode.** This mode can be used via ADB tool for advanced debugging purpose.

REBOOT

Tap on "Reboot" to reboot the device.

GXV3240D WEB GUI SETTINGS

The GXV3240D Embedded Web server responds to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow users to configure the application phone through a Web browser such as Microsoft's IE, Mozilla Firefox, Google Chrome and etc.

ACCESS GXV3240D WEB GUI

The GXV3240D Web GUI URL is ***http://Phone-IP-Address***, where the ***Phone-IP-Address*** is the IP address displayed on the GXV3240D desktop account widget.



Figure 12: GXV3240D Main Screen - IP Address

To access the GXV3240D Web GUI:

1. Connect the computer to the same network as the phone.
2. Make sure the phone is turned on and shows its IP address on the account widget of the desktop.
3. Open a Web browser on your computer.
4. Enter the phone's IP address in the address bar of the browser.
5. Enter the administrator's login and password to access the Web Configuration Menu. The default login name and password for the administrator is "admin" and "admin". The default login name and password for the end-user is "user" and "123".


 **Note:**

- The computer has to be connected to the same sub-network as the phone. This can be easily done by connecting the computer to the same hub or switch as the phone connected to. In absence of a hub/switch (or free ports on the hub/switch), please connect the computer directly to the PC port on the

back of the phone.

- If the phone is properly connected to a working Internet connection, the phone will display its IP address. This address has the format: xxx.xxx.xxx.xxx, where xxx stands for a number from 0-255. Users will need this number to access the Web GUI. For example, if the phone shows 192.168.40.154, please enter "http://192.168.40.154" in the address bar of the browser.

SAVING CHANGES

When changing any settings on the web UI, always SUBMIT them by pressing the **Save** button 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  next to it in the Web page, users must reboot the phone for the changes to take effect.

DEFINITIONS

This section describes the options in the GXV3240D Web GUI. As mentioned, you can log in as an administrator or an end user.

- **Status:** Displays the Account Status, Network Status, and System Info of the phone.
- **Account(1-6):** To configure each of the SIP accounts.
- **Advanced Settings:** To configure General Settings, Call Features, Video Settings, Tone Generator and MPK Settings for MPK App as well as GXV3240D extension board.
- **Maintenance:** To configure Network Settings, Wi-Fi Settings, Time Settings, Web/SSH Access, Upgrade, Syslog, Logcat, Debug, Language, TR-069, Contacts, LDAP Book and Device Manager.

The following table shows the web pages accessible by end user and administrator respectively.

Table 4: GXV3240D Web Access

User Type	Username	Default Password	Accessible Web Pages
Administrator	admin	admin	All pages

End User	user	123	<ul style="list-style-type: none"> • Status: Account Status, Network Status, System Info. • Advanced Settings: Tone Generator, MPK General Settings, MPK LCD Settings, MPK EXT Settings. • Maintenance: Network Settings, Wi-Fi Settings, Time Settings, Web/SSH Access, Logcat, Debug, Language, Contacts, LDAP Book, Broadsoft, Device Manager.
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TOOLBAR

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

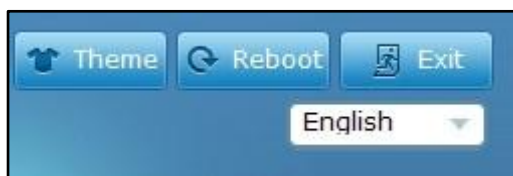


Figure 13: GXV3240D Web UI Tool Bar

- **Theme:** Select the web UI style to display the web page.
- **Reboot:** Reboot the phone.
- **Exit:** Log out from the web UI.
- **English:** Select the display language for the web UI. Currently English and Chinese are available.

STATUS PAGE DEFINITIONS

STATUS/ACCOUNT STATUS

Account	6 SIP accounts on the phone. By default the 6th SIP account is the IPVideoTalk account built-in with the phone.
Number	SIP User ID for the account.
SIP Server	URL or IP address, and port of the SIP server.
Status	Registration status for the SIP account.

STATUS/NETWORK STATUS

MAC Address	Global unique ID of device, in HEX format. The MAC address will be used for provisioning and can be found on the label coming with original box and on the label located on the back of the device.
Address Type	The configured address type: DHCP, Static IP or PPPoE.
IP Address	IP address of the phone.
Subnet Mask	Subnet mask of the phone.
Default Gateway	Default gateway of the phone.
DNS Server 1	DNS Server 1 of the phone.
DNS Server 2	DNS Server 2 of the phone.
NAT Type	The type of NAT connection used by the phone.

STATUS/SYSTEM INFO

Product Model	Product model of the phone.
Hardware Revision	Hardware version number.
Part Number	Product part number.
System Version	Firmware version. This is the main software release version.
Recovery Version	Recovery image version.
Boot Version	Boot code version.
Kernel Version	Kernel version.
Android™ Version	Android™ OS version: 4.2.2.
System Up Time	System up time since the last reboot.

ACCOUNT PAGE DEFINITIONS

The GXV3240D has six lines that can be configured to accommodate 6 independent SIP accounts. Each SIP account has an individual configuration page.

ACCOUNT/GENERAL SETTINGS

Account Active	This field indicates whether the account is active. The default value for the IPVideoTalk account (Account 6) is "Yes" and the default value for the first five accounts is "No".
Account Name	The name associated with each account to be displayed on the LCD.
SIP Server	The URL or IP address, and port of the SIP server. This is provided by

	your VoIP service provider (ITSP).
SIP User ID	User account information, provided by your VoIP service provider (ITSP). It's usually in the form of digits similar to phone number or actually a phone number.
SIP Authentication ID	SIP service subscriber's Authenticate ID used for authentication. It can be identical to or different from the SIP User ID.
SIP Authentication Password	The account password required for the phone to authenticate with the ITSP (SIP) server before the account can be registered. After it is saved, this will appear as hidden for security purpose.
Voice Mail UserID	This parameter allows you to access voice messages by pressing the MESSAGE button on the phone. This ID is usually the VM portal access number. For example, in UCM6100 IPPBX, *97 could be used.
Name	The SIP server subscriber's name (optional) that will be used for Caller ID display.
Tel URI	If the phone has an assigned PSTN telephone number, this field should be set to "User=Phone". Then a "User=Phone" parameter will be attached to the Request-Line and "TO" header in the SIP request to indicate the E.164 number. If set to "Enable", "Tel:" will be used instead of "SIP:" in the SIP request. The default setting is "Disable".

ACCOUNT/NETWORK SETTINGS

Outbound Proxy	IP address or Domain name of the Primary Outbound Proxy, Media Gateway, or Session Border Controller. It's used by the phone for Firewall or NAT penetration in different network environments. If a symmetric NAT is detected, STUN will not work and ONLY an Outbound Proxy can provide a solution.
Secondary Outbound Proxy	IP address or Domain name of the Secondary Outbound Proxy, Media Gateway, or Session Border Controller. Secondary outbound proxy will be used when the primary outbound proxy fails.
DNS Mode	This parameter controls how the Search Appliance looks up IP addresses for hostnames. There are three modes: A Record, SRV, NATPTR/SRV. The default setting is "A Record". If the user wishes to locate the server by DNS SRV, the user may select "SRV" or "NATPTR/SRV".
NAT Traversal	This parameter configures whether the NAT traversal mechanism is activated. Users could select the mechanism from NAT NO, STUN, Keep-alive, UPnP, Auto or VPN. The default setting is "Keep-alive".

	<p>If set to "STUN" and STUN server is configured, the phone will route according to the STUN server. If NAT type is Full Cone, Restricted Cone or Port-Restricted Cone, the phone will try to use public IP addresses and port number in all the SIP&SDP messages. The phone will send empty SDP packet to the SIP server periodically to keep the NAT port open if it is configured to be "Keep-alive". Configure this to be "NAT NO" if an outbound proxy is used. "STUN" cannot be used if the detected NAT is symmetric NAT. Set this to "VPN" if OpenVPN is used.</p>
Proxy-Require	<p>A SIP Extension to notify the SIP server that the phone is behind a NAT/Firewall. Do not configure this parameter unless this feature is supported on the SIP server.</p>

ACCOUNT/SIP SETTINGS

SIP Registration	Selects whether or not the phone will send SIP Register messages to the proxy/server. The default setting is "Yes".
Unregister Before New Registration	If set to "All", the SIP user's registration information will be cleared when the phone would start pre-registration. The SIP Contact header will contain "*" to notify the server to unbind the connection. The default setting is "No".
Register Expiration(m)	Specifies the frequency (in minutes) in which the phone refreshes its registration with the specified registrar. The default setting is 60. The maximum value is 64800 minutes (about 45 days).
Wait Time Retry Registration(s)	The amount of time (in seconds) in which the phone will retry the registration process in the event that is failed. The default settings is 20. The maximum value is 3600 seconds.
Local SIP Port	Defines the local SIP port used to listen and transmit. The default setting is 5060 for Account 1, 5062 for Account 2, 5064 for Account 3, 5066 for Account 4, 5068 for Account 5, and 5070 for Account 6. The valid range is from 5 to 65535.
SUBSCRIBE for MWI	When set to "Yes", a SUBSCRIBE for Message Waiting Indication will be sent periodically. The phone supports synchronized and non-synchronized MWI. The default setting is "No".
Session Expiration(s)	The SIP Session Timer extension (in seconds) that enables SIP sessions to be periodically "refreshed" via a SIP request (UPDATE, or re-INVITE). If there is no refresh via an UPDATE or re-INVITE message, the session will be terminated once the session interval expires. Session Expiration is the time (in seconds) where the session is considered timed out, provided no successful session refresh transaction occurs beforehand. The default setting is 180. The valid range is from 90 to 64800.
Min-SE(s)	The minimum session expiration (in seconds). The default setting is 90. The valid range is from 90 to 64800.
UAC Specify Refresher	As a Caller, select UAC to use the phone as the refresher; or select UAS to use the Callee or proxy server as the refresher. The default setting is "Omit".
UAS Specify Refresher	As a Callee, select UAC to use caller or proxy server as the refresher; or select UAS to use the phone as the refresher. The default setting is "UAC".

Force INVITE	The Session Timer can be refreshed using the INVITE method or the UPDATE method. Select "Yes" to use the INVITE method to refresh the session timer. The default setting is "No".
Caller Request Timer	If set to "Yes" and the remote party supports session timers, the phone will use a session timer when it makes outbound calls. The default setting is "No".
Callee Request Timer	If set to "Yes" and the remote party supports session timers, the phone will use a session timer when it receives inbound calls. The default setting is "No".
Force Timer	If Force Timer is set to "Yes", the phone will use the session timer even if the remote party does not support this feature. If Force Timer is set to "No", the phone will enable the session timer only when the remote party supports this feature. To turn off the session timer, select "No". The default setting is "No".
Enable 100rel	The use of the PRACK (Provisional Acknowledgment) method enables reliability to SIP provisional responses (1xx series). This is very important in order to support PSTN internetworking. To invoke a reliable provisional response, the 100rel tag is appended to the value of the required header of the initial signaling messages. The default setting is "No".
Use Privacy Header	Controls whether the Privacy header will present in the SIP INVITE message or not, whether the header contains the caller info. When set to "Default", the Privacy Header will show in INVITE only when "Huawei IMS" special feature is on. If set to "Yes", the Privacy Header will always show in INVITE. If set to "No", the Privacy Header will not show in INVITE. The default setting is "Default".
Use P-Preferred-Identity Header	Controls whether the P-Preferred-Identity Header will present in the SIP INVITE message. The default setting is "default": the P-Preferred-Identity Header will show in INVITE unless "Huawei IMS" special feature is on. If set to "Yes", the P-Preferred-Identity Header will always show in INVITE. If set to "No", the P-Preferred-Identity Header will not show in INVITE.
SIP Transport	Determines the network protocol used for the SIP transport. Users can choose from TCP/UDP/TLS. The default setting is "UDP".
SIP URI Scheme When Using TLS	Specifies if "sip" or "sips" will be used when TLS/TCP is selected for SIP Transport. The default setting is "sip".
Use Actual Ephemeral Port in Contact with TCP/TLS	This option is used to control the port information in the Via header and Contact header. If set to No, these port numbers will use the

	permanent listening port on the phone. Otherwise, they will use the ephemeral port for the particular connection. The default setting is "No".
Symmetric RTP	Defines whether symmetric RTP is supported or not. The default setting is "No".
Support SIP Instance ID	Defines whether SIP Instance ID is supported or not. The default setting is "Yes".
Validate Incoming SIP Messages	Choose whether the incoming messages will be validated or not. The default setting is "No".
Check SIP User ID for Incoming INVITE	If set to "Yes", SIP User ID will be checked in the Request URI of the incoming INVITE. If it doesn't match the phone's SIP User ID, the call will be rejected. The default setting is "No".
Authenticate Incoming INVITE	If set to "Yes", the phone will challenge the incoming INVITE for authentication with SIP 401 Unauthorized response. The default setting is "No".
Only Accept SIP Requests from Known Servers	If set to "Yes", only the SIP requests from known servers will be accepted, the SIP requests from the servers which phone was never used will be rejected. The default setting is "No".
SIP T1 Timeout	SIP T1 Timeout (in seconds). The default setting is 0.5 sec.
SIP T2 interval	SIP T2 Interval (in seconds). The default setting is 4 sec.
Remove OBP from route	Configures to remove outbound proxy from route. This is used for the SIP Extension to notify the SIP server that the device is behind a NAT/Firewall. The default setting is "No".
Check Domain Certificate	Choose whether the domain certificates will be checked or not when TLS/TCP is used for SIP Transport. The default setting is "No".
Enable SCA (Shared Call Appearance)	If set to "Yes", the Shared Call Appearance (Broadsoft Standard) will be used for the registered account. The default setting is "No".
Enable Bargeln	If set to "Yes", the user could barge into an active call on a shared line. The default setting is "No".
Auto-filling Pickup Feature Code	If set to "Yes", the "Pickup Feature Code" configured in web UI will be automatically filled in on the phone's dial pad when picking up the parked call. The default setting is "Yes". This option is used when "Special Mode" is set to "Broadsoft" and "Enable SCA" is set to "Yes".
Pickup Feature Code	Configure the pickup feature code for call park. If "Auto-filling Pickup Feature Code" is set to "Yes", this pickup feature code will be automatically filled in on the phone's dial pad when picking up the parked call. This option is used when "Special Mode" is set to

	"Broadsoft" and "Enable SCA" is set to "Yes".
Line-seize Timeout	For Shared Call Appearance, phone must send a SUBSCRIBE request for the line-seize event package whenever a user attempts to take the shared line off hook. "Line Seize Timeout" is the line-seize event expiration timer. The default value is 15 seconds. The valid range is from 15 to 60.

ACCOUNT/CODEC SETTINGS

DTMF	<p>This parameter specifies the mechanism to transmit DTMF digits. There are 3 supported modes: in audio which means DTMF is combined in the audio signal (not very reliable with low-bit-rate codecs), via RTP (RFC2833), or via SIP INFO.</p> <ul style="list-style-type: none"> • In audio, which means DTMF is combined in the audio signal (not very reliable with low-bit-rate codecs); • RFC2833, which means to specify DTMF with RTP packet. Users could know the packet is DTMF in the RTP header as well as the type of DTMF; • SIP INFO, which use SIP info to carry DTMF. The defect of this mode is that it's easily to cause desynchronized of DTMF and media packet for the reason the SIP and RTP are transmitted respectively. The default setting is "RFC2833".
DTMF Payload Type	This parameter sets the payload type for DTMF using RFC2833. Default is 101. The valid range is from 96 to 127.
Preferred Vocoder	Multiple vocoder types are supported on the phone, the vocoders in the list is a higher preference. Users can configure vocoders in a preference list that is included with the same preference order in SDP message.
iLBC Frame Size	Select the iLBC frame size when iLBC is selected. Users can select 20ms or 30ms. The default setting is 30ms.
Enable RFC5168 Support	If set to "Yes", RFC5168 support will be enabled for video call. The default setting is "No".
H.264 Image Size	<p>Select the H.264 image size from "720P" "4CIF" "VGA" "CIF" "QVGA" and "QCIF". The default setting is 720P.</p> <p>Note: For some network environment, the default setting "720P"</p>

	might be too high that causes no video or video quality issue during video call. In this case, please change "H.264 Image Size" to "VGA" or "CIF" and change "Video Bit Rate" to "384kbps" or lower.
H.264 Profile Type	Select the H.264 profile type from "Baseline Profile" "Main Profile" "High Profile" or "BP/MP/HP". The default setting is "Baseline Profile". Lower levels are easier to decode, but higher levels offer better compression. Usually, for the best compression quality, choose "High Profile"; for playback on low-CPU machines or mobile devices, choose "Baseline Profile". If "BP/MP/HP" is selected, all three profiles "Baseline Profile" "Main Profile" and "High Profile" will be used for negotiation during video decoding to achieve the best result. This is usually used in video conference when there is higher requirement on the video.
Video Bit Rate	Configures bit rate for video call. The default setting is 2048 kbps. The valid range is from 32 - 2048 kbps. The video bit rate can be adjusted based on the network environment. Increasing the video bit rate may improve video quality if the bandwidth is permitted. If the bandwidth is not permitted, the video quality will decrease due to packet loss. Note: For some network environment, the default setting "720P" might be too high that causes no video or video quality issue during video call. In this case, please change "H.264 Image Size" to "VGA" or "CIF" and change "Video Bit Rate" to "384kbps" or lower.
SDP Bandwidth Attribute	Select the SDP bandwidth attribute from "Standard" "Media Level" "Session Level" and "No" to modify the session format. The default setting is "Media Level". <ul style="list-style-type: none">• Standard: use AS format in session level; use TIAS format in media level• Media Level: use AS format in media level• Session Level: use AS format in session level• No: no modifications in the session format Note: Please do not modify this setting without knowing the session format supported by the server. Otherwise, it might cause video decoding failure.
H.264 Payload Type	Configures H.264 codec payload type. The default setting is 99. The valid range is from 96 to 127.
SRTP Mode	Enable SRTP mode based on your selection from the drop-down

	menu. The default setting is "Disabled".
SRTP Encryption Bit	Configures the AES Encryption Bit for SRTP. The default setting "AES 128&256 bit" means provides AES 128 and 256 encryption method for SRTP. If set to "AES 128 bit", provides 128 bit encryption method while "AES 256 bit" provides 256 bit encryption method.
Silence Suppression	Controls the silence suppression/VAD feature. If set to "Yes", when silence is detected, a small quantity of VAD packets (instead of audio packets) will be sent during the period of no talking. If set to "No", this feature is disabled. The default setting is "No".
Voice Frames Per TX	Configures the number of voice frames transmitted per packet. When configuring this, it should be noted that the "ptime" value for the SDP will change with different configurations here. This value is related to the codec used and the actual frames transmitted during the in payload call. For end users, it is recommended to use the default setting, as incorrect settings may influence the audio quality. The default setting is 2.

ACCOUNT/CALL SETTINGS

Start Video Automatically	<p>Defines whether to enable video automatically when there is an incoming call or a call from the contacts as well as via Click2Dial. If set to "Yes", the video will be started automatically when answering SIP video call in the above three cases. If set to "No", answer or dial the call via SIP audio. The default setting is "Yes".</p>
Start Video Call Fullscreen	<p>Defines whether to enter fullscreen when start video call. The default setting is "No".</p>
Remote Video Request	<p>Configures the preference to handle video request from the other party during an audio call. Users could select "prompt", "accept" or "deny". The default setting is "prompt".</p> <ul style="list-style-type: none"> • "prompt": A message will be prompted if a video request is received. Users can select "Yes" to establish video or "No" to reject the request. • "accept": Video request will be accepted automatically and video will be established. • "deny": Video request will be rejected automatically.
Dial Plan Prefix	<p>Configures the prefix to be added to each dialed number.</p>
Dial Plan	<p>A dial plan establishes the expected number and pattern of digits for a telephone number. This parameter configures the allowed dial-plan for the phone.</p> <p>Dial Plan Rules:</p> <ol style="list-style-type: none"> 1. Accepted Digits: 1,2,3,4,5,6,7,8,9,0 , *, #, A,a,B,b,C,c,D,d,+ 2. Grammar: x - any digit from 0-9; <ol style="list-style-type: none"> a) xx+ or xx. - at least 2 digit numbers b) xx - only 2 digit numbers c) ^ - exclude d) [3-5] - any digit of 3, 4, or 5 e) [147] - any digit of 1, 4, or 7 f) <2=011> - replace digit 2 with 011 when dialing g) - the OR operand h) \+ - add + to the dialing number <ul style="list-style-type: none"> • Example 1: {[369]11 1617xxxxxx} <p>Allow 311, 611, and 911 or any 10 digit numbers with leading digits 1617</p> <ul style="list-style-type: none"> • Example 2: {^1900x+ <=1617>xxxxxx} <p>Block any number of leading digits 1900 or add prefix 1617 for</p>

	<p>anydialed 7 digitnumbers</p> <ul style="list-style-type: none"> • Example 3: {1xxx[2-9]xxxxxx <2=011>x+} <p>Allow any number with leading digit 1 followed by a 3 digit number, followed by any number between 2 and 9, followed by any 7 digit number OR allow any length of numbers with leading digit 2, replacing the 2 with 011 when dialed.</p> <p>3. Default: Outgoing - { x+ \+x+ *x+ *xx*x+ }</p> <p>Allow any number of digits, OR any number with a leading +, OR any number with a leading *, OR any number with a leading * followed by a 2 digits number and a *. To dial + from keypad, press on 0 until + appears on LCD.</p> <p>Example of a simple dial plan used in a Home/Office in the US: { ^1900x. <=1617>[2-9]xxxxxx 1[2-9]xx[2-9]xxxxxx 011[2-9]x. [3469]11 }</p> <p>Explanation of example rule (reading from left to right):</p> <ul style="list-style-type: none"> • ^1900x. - prevents dialing any number started with 1900 • <=1617>[2-9]xxxxxx - allow dialing to local area code (617) numbers by dialing 7 numbers and 1617 area code will be added automatically • 1[2-9]xx[2-9]xxxxxx - allow dialing to any US/Canada Number with 11 digitslength • 011[2-9]x. - allow international calls starting with 011 • [3469]11 - allow dialing special and emergency numbers 311, 411, 611 and 911 <p>NOTE: In some cases where the user wishes to dial strings such as *123 to activate voice mail or other applications provided by their service provider, the * should be predefined inside the dial plan feature. An example dial plan will be: { *x+ } which allows the user to dial * followed by any length of numbers.</p>
Refer-To Use Target Contact	<p>If set to "Yes", the "Refer-To" header uses the transferred target's Contact header information for attended transfer. The default setting is "No".</p>
Auto Answer	<p>If set to "Yes", the phone will automatically turn on the speaker phone to answer incoming calls after a short reminding beep. If set to "Enable Intercom/Paging", it will answer the call based on the SIP info header sent from the server/proxy. The default setting is "No".</p>

Send Anonymous	If set to "Yes", the "From" header in outgoing INVITE messages will be set to anonymous, essentially blocking the Caller ID to be displayed. The default setting is "No".
Anonymous Call Rejection	If set to "Yes", anonymous calls will be rejected. The default setting is "No".
Call Log	Configures Call Log setting on the phone. You can log all calls, log incoming/outgoing calls (missed calls will not be logged), or disable call log. The default setting is "Log All".
Special Feature	Different soft switch vendors have special requirements. Therefore users may need select special features to meet these requirements. Users can choose from Standard, Broadsoft, CBCOM, RNK, China Mobile, ZTE IMS, Mobotix, ZTE NGN, or Huawei IMS depending on the server type. The default setting is "Standard".
Feature Key Synchronization	This feature is used for Broadsoft call feature synchronization. When it's enabled, DND, Call Forward features and Call Center Agent status can be synchronized between Broadsoft server and phone. The default setting is "Disabled".
Enable Call Features	If set to "Yes", the call features using star codes on the phone will be supported locally. Otherwise, the feature code will need to be provided from the server side. The default setting is "No".
No Key Entry Timeout(s)	Defines the timeout (in seconds) for no key entry. If no key is pressed after the timeout, the digits will be sent out. The default value is 4 seconds. The valid range is from 1 to 15.
Ring Timeout(s)	Defines the timeout (in seconds) for the rings on no answer. The default setting is 60. The valid range is from 10 to 300.
Transfer on 3-way Conference Hang up	If set to "Yes", when the phone hangs up as the conference initiator, the conference call will be transferred to the other parties so that other parties will remain in the conference call.
Use # as Dial Key	Allows users to configure the "#" key as the "Send" key. If set to "Yes", the "#" key will immediately dial out the input digits. In this case, this key is essentially equivalent to the "Send" key. If set to "No", the "#" key is included as part of the dialing string and please make sure the dial plan is properly configured to allow dialing # out.
Conference URI	Configures Conference URI for N-way conference (Broadsoft Standard).
Broadsoft Call Center	The default setting is "No". When set to "Yes", a soft key "CallCenter" is displayed on LCD dial screen for the Broadsoft account. User can access different Broadsoft Call Center agent features via this softkey.

	Please note that "Feature Key Synchronization" will be enabled regardless of this setting.
Hoteling Event	Broadsoft Hoteling event feature. Users can configure this setting if "Broadsoft Call Center" is enabled. The default setting is "No". With "Hoteling Event" enabled, user can access the Hoteling feature option by pressing the "CallCenter" softkey.
Call Center Status	When set to "Yes", the phone will send SUBSCRIBE to the server to obtain call center status. Users can configure this setting if "Broadsoft Call Center" is enabled. The default setting is "No".
Account Ring Tone	Allows users to configure the ringtone for the account. Users can choose from different ringtones from the dropdown menu. If there is custom ring tone imported from GXV3240D LCD menu, the ring tone file name will be displayed in this dropdown menu as well for users to select.
Call Forward Type	Specifies the Call Forward Type: <ol style="list-style-type: none"> 1. None: Disable Call Forward 2. Unconditional: Forward all calls to a particular number 3. Time based: Set a time period. In this Time Period, calls are forwarded to the number specified in In Time Forward To; out of this Time Period, calls are forwarded to the number specified in Out Time Forward To. 4. Others: when phone is busy, calls are forwarded to the number specified in Busy To; when incoming calls are not answered, those calls are forwarded to the number specified in No Answer To; the waiting time for answering calls is specified in No Answer Timeout (s). The valid range for No Answer Timeout (s) is from 1 to 120.
All To	Specifies the number to be forwarded to when "Unconditional" Call Forward Type is used.
Time Period	Configures the period of time to forward the call when "Time based" Call Forward Type is used.
In Time Forward To	When "Time based" Call Forward Type is used, specifies the number to be forwarded to within the configured Time Period above.
Out Time Forward To	When "Time based" Call Forward Type is used, specifies the number to be forwarded to when it's not within the configured Time Period.
Busy To	Specifies the number to be forwarded to for Call Forward On Busy.
No Answer To	Specifies the number to be forwarded to for Call Forward On No Answer.

No Answer Timeout (s)	Defines the timeout (in seconds) before the call is forwarded on no answer. The default value is 20 seconds. The valid range is from 1 to 120.
Matching Incoming Caller ID	<p>Specifies matching rules with number, pattern or Alert Info text. When the incoming caller ID or Alert Info matches the rule, the phone will ring with selected distinctive ringtone. Matching rules:</p> <ul style="list-style-type: none"> • Specific caller ID number. For example, 8321123; • A defined pattern with certain length using x and + to specify, where x could be any digit from 0 to 9. Samples: xx+: at least 2-digit number; xx: only 2-digit number; [345]xx: 3-digit number with the leading digit of 3, 4 or 5; [6-9]xx: 3-digit number with the leading digit from 6 to 9. • Alert Info text Users could configure the matching rule as certain text (e.g., priority) and select the custom ring tone mapped to it. The custom ring tone will be used if the phone receives SIP INVITE with Alert-Info header in the following format: Alert-Info: <http://127.0.0.1>; info=priority
Distinctive Ring Tone	Selects the distinctive ring tone for the matching rule. When the incoming caller ID or Alert Info matches the rule, the phone will ring with the selected ring.
Upload Local MOH Audio File	<p>Click on "Browse" button to upload the music file from local PC. The MOH audio file has to be in .wav or .mp3 format.</p> <p>Note: Please be patient while the audio file is being uploaded. It could take more than 3 minutes to finish the uploading especially the file size is large. The button will show as "Processing" during the uploading. Once done, it will show as "Browse" again. Click on "Save" on the bottom of the web page and "Apply" on the top of the web page to save the change.</p>
Enable Local MOH	If set to "Yes", local MOH will be turned on. Users will need upload a local MOH audio file so it can be played on the other party when the user puts the other party on hold. The default setting is "No".

ADVANCED SETTINGS PAGE DEFINATIONS

ADVANCED SETTINGS/GENERAL SETTINGS

Local RTP Port	Defines the local RTP-RTCP port pair used to listen and transmit. It is the base RTP port for channel 0. When configured, for audio, channel 0 will use this port_value for RTP and the port_value+1 for its RTCP; channel 1 will use port_value+4 for RTP and port_value+5 for its RTCP. For video, channel 0 will use port_value+2 for RTP and port_value+3 for its RTCP; channel 1 will use port_value+6 for RTP and port_value+7 for RTCP. The default value is 5004. The valid range is from 1024 to 65400.
Use Random Port	When set to "Yes", this parameter will force random generation of both the local SIP and RTP ports. This is usually necessary when multiple phones are behind the same full cone NAT. The default setting is "Yes". Note: This parameter must be set to "No" for Direct IP Calling to work.
Disable in-call DTMF display	When it is set to "Yes", the DTMF digits entered during the call will be hidden on the LCD screen. The default setting is "No".
Hide LDAP Contacts	When it is set to "Yes", the LDAP contacts will be hide from LCD screen. Then end users can't access it
Hide Call History	When it is set to "Yes", the Local Call History will be hide from LCD screen. Then end users can't access it. If end users tap the Call History app, it will enter the BraodWorks Xsi Call History.
BS Call Log Update Interval (s)	Specifies how often the phone sends HTTP/HTTPS query to the BroadWorks Xsp server to update the BroadWorks Call History. The default setting is 1800 seconds.
Keep-alive Interval (s)	Specifies how often the phone sends a blank UDP packet to the SIP server in order to keep the "ping hole" on the NAT router to open. The default setting is 20 seconds. The valid range is from 10 to 160.
STUN Server	The IP address or Domain name of the STUN server. STUN resolution results are displayed in the STATUS page of the Web GUI. Only non-symmetric NAT routers work with STUN. The default setting is "stun.ipvideotalk.com".
Use NAT IP	Specify the NAT IP address used in SIP/SDP messages. This field is blank at the default settings. It should ONLY be used if it's required by your ITSP.
SIP TLS Certificate	SSL certificate used for SIP TLS Transport.

SIP TLS Private Key	SSL Private key used for SIP TLS Transport.
SIP TLS Private Key Password	SSL Private key password used for SIP TLS Transport.

ADVANCED SETTINGS/CALL FEATURES

Always Ring Speaker	This setting is used when the headset is connected. If set to "Yes", the phone will always ring speaker when headset is used at the same time. The default setting is "No".
Auto Conference	If set to "Yes", users could press CONFERENCE button to establish conference call when there are 2 or more calls on the phone, instead of adding each party one by one. The default setting is "No".
Disable Call-Waiting	Disables the call waiting feature. The default setting is "No".
Disable DialPlan	Disables dial plan check on the GXV3240D when dialing out. This can be used when dialing out phone number which contains alphabet characters from imported contacts. The default setting is "No".
Disable Call-Waiting Tone	Disables the call waiting tone when call waiting is on. The default setting is "No".
Disable DND Reminder Ring	Disables the DND reminder ring. If set to "Yes", the ring splash that indicates an incoming call when DND is enabled will not be played. The default setting is "No".
Disable Direct IP Call	Disables Direct IP Call. The default setting is "No".
Use Quick IP-Call mode	When set to "Yes", users can dial an IP address under the same LAN/VPN segment by entering the last octet in the IP address. To dial quick IP call, offhook the phone and dial #XXX (X is 0-9 and XXX <=255), phone will make direct IP call to aaa.bbb.ccc.XXX where aaa.bbb.ccc comes from the local IP address REGARDLESS of subnet mask. #XX or #X are also valid so leading 0 is not required (but OK). No SIP server is required to make quick IP call. The default setting is "No".
Disable Conference	Disables the Conference function. The default setting is "No".
Disable Transfer	Disables the Transfer function. The default setting is "No".
Default Transfer Mode	Selects default transfer mode as "Blind Transfer" or "Attended Transfer". The default setting is "Blind Transfer".
Escape # as %23 in SIP URI	Replaces "#" by "%23" for some special situations. The default setting is "Yes".

Offhook Auto Dial	Configures a User ID/extension to dial automatically when the phone is offhook. The phone will use the first account to dial out. The default setting is "No".
Offhook Timeout (s)	If configured, when the phone is on hook, it will go off hook after the timeout (in seconds). The default setting is 30. The valid range is from 10 to 60.
Enable Function for Incoming Call	Defines the function for the incoming video call. The default setting "No" means disable the function. If set to "Preview", users could tap on the PREVIEW button in the call interface to check video caller without answering the incoming video call.

ADVANCED SETTINGS/VIDEO SETTINGS

Video Frame Rate	Configures video frame rate for SIP video call from "5 frames/second", "15 frames/second", "25 frames/second", "30 frames/second" and "Variable frames rate". The default setting is 15 frames/second. The video frame rate is adjustable based on network conditions. Increasing the frame rate will significantly increase the amount of data transmitted, therefore consuming more bandwidth. The video quality will be affected due to packet loss if extra bandwidth is not allocated.
Display Video Information	Configure whether to display video stream sending and receiving information during video call. The default setting is "No".
Enable Frame Skipping in Video Decoder	Configure to enable frame skipping in video decoder. If enabled, the video decoder will skip the P frame and start decoding from the next I frame. Enabling this option will help reduce flickering in the video when the bandwidth is limited in the network environment. The default setting is "Yes".

ADVANCED SETTINGS/TONE GENERATOR

<p>Call Progress Tones: Dial Tone Ring Back Tone Busy Tone Reorder Tone Confirmation Tone Call-Waiting Tone PSTN Disconnect Tone</p>	<p>Using these settings, users can configure ring or tone frequencies based on parameters from the localtelecomprovider. By default, they are set to the North American standard.</p> <p>Frequencies should be configured with known values to avoid uncomfortable high pitch sounds.</p> <p>Syntax: f1=val,f2=val[,c=on1/off1[-on2/off2[-on3/off3]]]; (Frequencies are in Hz and cadence on and off are in 10ms) ON is the period of ringing ("On time" in 'ms') while OFF is the period of silence. In order to set acontinuous ring, OFF should be zero. Otherwise it will ring ON ms and a pause of OFF ms andthen repeat the pattern. Up to three cadences are supported.</p>
<p>Call-Waiting Tone Gain</p>	<p>This adjusts the call waiting tone volume. Users can select "Low", "Medium" or "High". The default setting is "Low".</p>
<p>Default Ring Cadence</p>	<p>This defines the ring cadence for the phone. The default setting is: c=2000/4000.</p>

ADVANCED SETTING/MPK GENERAL SETTINGS (FOR MPK APP)

<p>BLF Call-pick Prefix</p>	<p>Configures the prefix prepended to the BLF extension when the phone picks up a call with BLF key. The default setting is ** for each account.</p>
<p>Event List URI</p>	<p>Configures the eventlist BLF URI on the phone to monitor the extensions in the list with multi-purpose keys. The server side has to support this feature. Users need configure an eventlist BLF URI on the service side first (i.e., BLF1006@myserver.com) with a list of extension included. On the phone, in this "eventlist BLF URI" field, fill in the URI without the domain (i.e., BLF1006).</p>

ADVANCED SETTING/MPK LCD SETTINGS (FOR MPK APP)

<p>Key Mode</p>	<p>Assigns a function to the Multi-Purpose Key from the MPK App installed on the GXV3240D. The MPK App can be downloaded from GS Market.</p> <p>The key mode options are:</p> <ul style="list-style-type: none"> • Speed Dial Press to dial the extension configured in UserID field.
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	<ul style="list-style-type: none"> • Busy Lamp Field (BLF) Monitor the extension status as configured in UserID field. • Call Transfer Transfer the current active call to the extension configured in UserID field. • Call Intercom Intercom/paging to the extension configured in UserID field. • Speed Dial via Active Account Similar to Speed Dial but it will dial based on the current active account. For example, if the phone is offhook and account 2 is active, it will call the configured extension using account 2. • Dial DTMF Dial the DTMF digits filled in UserID field during the call. • Call Park Configure the call park feature code to park or pick up the call.
MPK List	The configured MPK will show in the MPK List. Users could select "Up" "Down" and "More" to select, edit and delete the MPK.
Account	Selects the SIP Account used for the multi-purpose keys.
Name	Configures the display name for the multi-purpose key.
UserID	Configures the UserID for the corresponding multi-purpose key mode.
Display Format	Configures the display format for the multi-purpose keys. Users could select display "Name", "UserID", or "Name (UserID)". "Name" is the one saved in GXV3240D Contacts. The default setting is "Name".
Show DisplayName from Server	Configure whether the display name from server side will be shown or not. The default setting is "No".

ADVANCED SETTING/MPK EXTSETTINGS (FOR GXV3240DEXT BOARD 1/2/3/4)

Key Mode	<p>Assigns a function to the Multi-Purpose Key on the GXV3240DEXT. The key mode options are:</p> <ul style="list-style-type: none"> • Speed Dial Press to dial the extension configured in UserID field. • Busy Lamp Field (BLF) Monitor the extension status as configured in UserID field. • Call Transfer Transfer the current active call to the extension configured in UserID field.
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	<ul style="list-style-type: none"> • Call Intercom Intercom/paging to the extension configured in UserID field. • Speed Dial via Active Account Similar to Speed Dial but it will dial based on the current active account. For example, if the phone is offhook and account 2 is active, it will call the configured extension using account 2. • Dial DTMF Dial the DTMF digits filled in UserID field during the call. • Eventlist BLF Similar to the BLF option but in this mode the PBX collects the information from the phones and sends it out in one single SIP NOTIFY message. The PBX server has to support this feature. When selected, eventlist URI needs to be filled out under web GUI->Advanced Settings->MPK General Settings. • Call Park Enter the UserID as the call park/pickup extension provided from the PBX server to park or pick up the call. The PBX server has to support this feature.
Account	Selects the SIP Account used for the multi-purpose keys.
Name	Configures the display name for the multi-purpose key.
UserID	Configures the UserID for the corresponding multi-purpose key mode.
MPK ID	<p>This identifies the "MPK ID x" for "MPK x". The default number is from 1-160 for 160 MPKs in 4 GXV3240DEXT boards.</p> <p>For example, if MPK 1's MPK ID is changed from 1 to 5, users will see the configuration saved on MPK 5.</p>
Display Format	Configures the display format for the multi-purpose keys. Users could select display "Name", "UserID", or "Name (UserID)". "Name" here refers to the name saved in GXV3240D Contacts. The default setting is "Name".

 **Note:**

For more details on GXV3240D extension board (GXP2200EXT) and Multi-Purpose Key configurations, please refer to the GXP2200EXT user manual in the website:

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

MAINTENANCE PAGE DEFINATION

MAINTENANCE/NETWORK SETTINGS

Address Type	Allows users to configure the appropriate network settings on the phone. Users could select "DHCP", "Static IP" or "PPPoE". By default, it is set to "DHCP".
DHCP Host name (Option 12)	Specifies the name of the client. This field is optional but may be required by some Internet Service Providers.
DHCP Vendor Class ID (Option 60)	Used by clients and servers to exchange vendor class ID. The default setting is GXV.
IP Address	Enter the IP address when static IP is used.
Subnet Mask	Enter the Subnet Mask when static IP is used.
Default Gateway	Enter the Default Gateway when static IP is used.
DNS Server 1	Enter the DNS Server 1 address when static IP is used.
DNS Server 2	Enter the DNS Server 2 address when static IP is used.
PPPoE Account ID	Enter the PPPoE account ID.
PPPoE Password	Enter the PPPoE Password.
Alternate DNS Server	Enter the alternate DNS server address.
Second Alternate DNS Server	Enter the second alternate DNS server address.
Enable LLDP	Enable/Disable LLDP on the phone. The default setting is "Yes".
Layer 3 QoS for SIP	Defines the Layer 3 QoS parameter for SIP packets. This value is used for IP Precedence, Diff-Serv or MPLS. The default setting is 48.
Layer 3 QoS for Audio	Defines the Layer 3 QoS parameter for audio packets. This value is used for IP Precedence, Diff-Serv or MPLS. The default setting is 48.
Layer 3 QoS for Video	Defines the Layer 3 QoS parameter for video packets. This value is used for IP Precedence, Diff-Serv or MPLS. The default setting is 48.
Layer 2 QoS 802.1Q/VLAN Tag	Assigns the VLAN Tag of the Layer 2 QoS packets for LAN port. The default value is 0.
Layer 2 QoS 802.1p Priority Value	Assigns the priority value of the Layer2 QoS packets for LAN port. The Default value is 0.
PC Port VLAN Tag	Assigns the VLAN Tag of the Layer 2 QoS packets for PC port. This tags the VLAN tag value on the target address received from the LAN port of the phone then sends the value to the device connected to the PC port. Note: VLAN tag value on the device connected to the PC port should be the

	same as the VLAN tag value assigned to the PC port here.
PC Port Priority Value	Assigns the priority value of the Layer 2 QoS packets for PC port.
PC Port Mode	Configures the PC port mode. When set to "Mirrored", the traffic in the LAN port will go through PC port as well and packets can be captured by connecting a PC to the PC port. The default setting is "Enabled".
User-Agent	This is a configurable User Agent string used in phonebook and screensaver downloading.
802.1x mode	Allows the user to select 802.1x mode on the phone. The default setting is "Disable".
Identity	Enter the Identity information for the 802.1x mode.
MD5 Password	Enter the MD5 Password for the 802.1x mode.
CA Certificate	Enter the CA Certificate for the 802.1x mode.
Client Certificate	Enter the Client Certificate for the 802.1x mode.
HTTP/HTTPS Proxy Hostname	Specifies the HTTP/HTTPS proxy URL for the phone to send packets to. The proxy server will act as an intermediary to route the packets to the destination.
HTTP/HTTPS Proxy Port	Specifies the HTTP/HTTPS proxy URL for the phone to send packets to. The proxy server will act as an intermediary to route the packets to the destination.
Bypass Proxy For	Defines the destination IP address where no proxy server is needed. The phone will not use a proxy server when sending packets to the specified destination IP address.

MAINTENANCE/WI-FI SETTINGS

Wi-Fi Basics	
Wi-Fi Function	Enable/Disable Wi-Fi. The default setting is "Enable".
ESSID	Click on "Scan" to detect the available Wi-Fi network within the area. The ESSID(s) will show in the box. Click on "Select" to select the Wi-Fi network to connect to.
Wi-Fi Basics	
ESSID	Fill in the ESSID you would like to save the Wi-Fi password.
Password	Enter the password for the ESSID.

MAINTENANCE/TIME SETTINGS

Assign NTP Server Address	Defines the URL or IP address of the NTP server. The phone may obtain the date and time from the server. The default setting is us.pool.ntp.org.
DHCP Option 42 override NTP server	Defines whether DHCP Option 42 should override NTP server or not. When enabled, DHCP Option 42 will override the NTP server if it's set up on the LAN. The default setting is "Yes".
DHCP Option 2 to override Time Zone setting	Allows device to get provisioned for Time Zone from DHCP Option 2 in the local server automatically. The default setting is "No".
Time Zone	Controls the date/time display according to the specified time zone.
Time Display Format	12-hour or 24-hour time display format
Date Display Format	Configures the date display format on the LCD. The following formats are supported: <ul style="list-style-type: none"> • Normal (M/DD/YYYY): 1/31/2012 • YYYY/MM/DD: 2012/01/31 • MM/DD/YYYY: 01/31/2012 • DD/MM/YYYY: 31/01/2012 The default setting is DD/MM/YYYY.

MAINTENANCE/WEB/SSH ACCESS

Disable SSH	If set to "Yes", the phone will not allow any SSH access to the phone.
-------------	--

	The default setting is "No".
Access Method	Allows users to select HTTP or HTTPS for Web Access. The default setting is HTTP.
Port	By default, HTTP uses port 80 and HTTPS uses port 443. This field is for customizing the web port.
Admin Password	Allows users to change the admin password. The password field is purposely hidden after clicking "Save" button for security purpose. This field is case sensitive with a maximum length of 32 characters. The default admin password is "admin".
Confirm Admin Password	Type the new Admin Password again to confirm.
User Password	Allows the administrator to set the password for user-level web GUI access. This field is case sensitive with a maximum length of 32 characters. The default user password is "123".
Confirm User Password	Type the new User Password again to confirm.

MAINTENANCE/UPGRADE

Download Device Configuration	Click on "Download" to download the phone's config file in .txt format. The config file in .txt format has the P value parameters for phone's current settings except password for security purpose. Users can use the Grandstream configuration file generator to generate binary config file using this txt file.
Configuration via Keypad Menu	Configure the access control for the users to configure from keypad men. There are two different options: Unrestricted and Basic settings only . If the phone enables the Basic settings only , the Advanced settings options in Settings will be hidden.
XML Config File Password	The password for encrypting the XML configuration file using OpenSSL. This is required for the phone to decrypt the encrypted XML configuration file.
HTTP/HTTPS User Name	The user name for the HTTP/HTTPS server.
HTTP/HTTPS Password	The password for the HTTP/HTTPS server.
Upgrade Via	Allows users to choose the firmware upgrade method: TFTP, HTTP or HTTPS.
Firmware Server Path	Defines the server path for the firmware server. It could be different from the configuration server for provisioning.
Config Server Path	Defines the server path for provisioning. It could be different from the firmware server for upgrading.

Firmware File Prefix	Enables your ITSP to lock firmware updates. If configured, only the firmware with the matching encrypted prefix will be downloaded and flashed into the phone.
Firmware File Postfix	Enables your ITSP to lock firmware updates. If configured, only the firmware with the matching encrypted postfix will be downloaded and flashed into the phone.
Config File Prefix	Enables your ITSP to lock configuration updates. If configured, only the configuration file with the matching encrypted prefix will be downloaded and flashed into the phone.
Config File Postfix	Enables your ITSP to lock configuration updates. If configured, only the configuration file with the matching encrypted postfix will be downloaded and flashed into the phone.
Always Send HTTP Basic Authentication Information	Configures whether to send basic HTTP authentication information to the server when using wget to download "cfg.xml" file. If set to "Yes", HTTP/HTTPS username and password will be sent to the server no matter the server requires authentication or not. If set to "No", HTTP/HTTPS username and password will be sent to the server only if the server requires authentication. The default setting is "No".
mDNS Override Server	Allows mDNS override config/firmware server setting on the phone if present. Users can select to use Type A or Type SRV. The default setting is "Use Type A".
DHCP Option 66 Override Server	DHCP option 66 originally was only designed for TFTP server. Later on it was extended to support an HTTP URL. The GXV3240D supports both TFTP and HTTP server via option 66. The default setting is "Yes".
DHCP Option 120 Override SIP Server	Enables DHCP Option 120 from local server to override the SIP Server on the phone. The default setting is "Yes".
3CX Auto Provision	Enables automatic provision feature on the phone when 3CX is used as the SIP server. The default setting is "Yes".
Automatic Upgrade	Enables automatic upgrade and provisioning. The default setting is "No".
Automatic Upgrade Check Interval (m)	Specifies the time period to check for firmware upgrade (in minutes). The default setting is 10080 minutes (7 days).
Hour of the Day (0-23)	Defines the hour of the day to check the HTTP/TFTP server for firmware upgrades or configuration files changes.
Day of the Week(0-6)	Defines the day of the week to check the HTTP/TFTP server for firmware upgrades or configuration files changes.
Firmware Upgrade and Provisioning	Defines the rules for automatic upgrade: Always Check at bootup, when F/W pre/suffix changes, Skip the Firmware Check.

Auto Reboot to Upgrade Without Prompt	If set to "Yes", the phone will automatically start upgrading after downloading the firmware files. Otherwise, users would need confirm in the prompted message in LCD to start upgrading process. The default value is "Yes".
Authenticate Conf File	Authenticates configuration file before acceptance. The default setting is "No".
Factory Reset	Click "Reset" to restore to factory default settings. Users can select to clear the SD card in phone' storage for factory reset.

MAINTENANCE/SYSLOG

Syslog Server	The URL/IP address for the syslog server. The default setting is "log.ipvideotalk.com".
Syslog Level	<p>Selects the level of logging for syslog. The default setting is "None". There are 4 levels: DEBUG, INFO, WARNING AND ERROR. Syslog messages are sent based on the following events:</p> <ul style="list-style-type: none"> • Product model/version on boot up (INFO level); • NAT related info (INFO level); • Sent or received SIP message (DEBUG level); • SIP message summary (INFO level); • Inbound and outbound calls (INFO level); • Registration status change (INFO level); • Negotiated codec (INFO level); • Ethernet link up (INFO level); • SLIC chip exception (WARNING and ERROR levels); • Memory exception (ERROR level).

MAINTENANCE/LOGCAT

Clear Log	Press the clear log button to clear log.
Log Tag	Specifies the log tag to filter the log.
Log Priority	Selects the log priority. The log priority options are: Verbose, Debug,

Info, Warn, Error, Fatal, Silent(suppress all output).

MAINTENANCE/DEBUG

Capture Trace	Press START to start capturing a trace, and press STOP to stop the capture process.
Trace List	The captured trace can be listed here in the drop down box. Users can also click on "Delete" button to delete the selected trace.
View Trace	<p>Press LIST to view the list of captured traces in web browser. It will show the time when the trace was captured. Click on the name of the file to download and view the trace.</p> <p>Note:The trace files are saved in phone's internal storage. Users can access or delete the trace files from LCD->FileManager->Internal Storage->ppp directory.</p>

MAINTENANCE/LANGUAGE

Language	Select the language displayed on the phone's LCD.
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MAINTENANCE/TR-069

Enable TR-069	Enables TR-069. The default setting is "No".
ACS URL	URL for TR-069 Auto Configuration Servers (ACS).
ACS Username	ACS username for TR-069.
ACS Password	ACS password for TR-069.
Periodic Inform Enable	Enables periodic inform. If set to "Yes", device will send inform packets to the ACS. The default setting is "No".
Periodic Inform Interval(s)	Sets up the periodic inform interval to send the inform packets to the ACS.
Connection Request Username	The user name for the ACS to connect to the phone.
Connection Request Password	The password for the ACS to connect to the phone.
Connection Request Port	The port for the ACS to connect to the phone.
CPE Cert File	The Cert File for the phone to connect to the ACS via SSL.
CPE Cert Key	The Cert Key for the phone to connect to the ACS via SSL.

MAINTENANCE/CONTACTS

Import/Export	
File Encoding	Selects the file encoding format for phonebook file import/export. The default setting is UTF-8.
File Type	Selects the file format for phonebook file import/export. The default setting is "XML".
Save Phonebook to PC	Press "Save" to open the XML file and save it to PC.
Clear The Old List	If set to "Yes", when the phonebook file is imported to the phone, the old phonebook entries will be removed. The default setting is "No".
Replace Duplicate Items	If set to "Yes", when the phonebook file is imported to the phone, the duplicate entries will be removed. The default setting is "No".
LocalFile	Press "Browse" to select phonebook file from local PC and upload to the phone.
Download (XML Phonebook)	
Clear The Old List	If set to "Yes", when the phonebook XML file is downloaded to the phone, the old phonebook entries will be removed. The default setting is "No".
Replace Duplicate Items	If set to "Yes", when the XML phonebook file is downloaded to the phone, the duplicate entries will be removed. The default setting is "No".
Download Mode	Selects the file download mode for the download server. Users can choose from TFTP/HTTP/OFF.
File Encoding	Selects the file encoding format for XML phonebook download. The default setting is UTF-8.
Download Server	Specifies server address to download the XML phonebook file. The default XML phonebook file name the phone sends request for is <i>phonebook.xml</i> .
Download Now	Click "Download" button to start downloading the XML phonebook to the phone immediately.
Download Interval	Select download interval from "2 hours", "4 hours", "6 hours", "8 hours" and "12 hours".The phone will automatically send download request to the download server based on the download interval.

Note:


For more information on XML Based Downloadable Phonebook on GXV3240D, please refer to the GXV3240D XML Phonebook Guide in the following link:

http://www.grandstream.com/products/gxv_series/GXV3240D/documents/GXV3240D_xml_phonebook_guide.pdf

MAINTENANCE/LDAP BOOK

Server Address	Configures the IP address or domain name of the LDAP server.
Port	Configures the LDAP server port. The default port number is 389.
Base DN	Configures the LDAP search base. This is the location in the directory where the search is requested to begin. Example: dc=grandstream, dc=com ou=Boston, dc=grandstream, dc=com
User Name	Configures the bind "Username" for querying LDAP servers. Some LDAP servers allow anonymous binds in which case the setting can be left blank.
Password	Configures the bind "Password" for querying LDAP servers. The field can be left blank if the LDAP server allows anonymous binds.
LDAP Name Attributes	Specifies the "name" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiplespace separated name attributes. Example: gn cn sn description
LDAP Number Attributes	Specifies the "number" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiple space separated number attributes. Example: telephoneNumber telephoneNumber Mobile
LDAP Mail Attributes	Specifies the "mail" attributes of the each record which are returned inthe LDAP search result. Example: mail
LDAP Name Filter	Configures the filter used for name lookups. Examples:

	<p>((cn=%)(sn=%)) returns all records which has the "cn" or "sn" field starting with the entered prefix;</p> <p>(!(sn=%)) returns all the records which do not have the "sn" field starting with the entered prefix;</p> <p>(&(cn=%) (telephoneNumber=*)) returns all the records with the "cn" field starting with the entered prefix and "telephoneNumber" field set.</p>
LDAP Number Filter	<p>Configures the filter used for number lookups.</p> <p>Examples:</p> <p>((telephoneNumber=%)(Mobile=%) returns all records which has the "telephoneNumber" or "Mobile" field starting with the entered prefix;</p> <p>(&(telephoneNumber=%) (cn=*)) returns all the records with the "telephoneNumber" field starting with the entered prefix and "cn" field set.</p>
LDAP Mail Filter	<p>Configures the filter used for mail lookups.</p> <p>Example:</p> <p>(mail=%)</p>
LDAP Displaying Name Attributes	<p>Configures the entry information to be shown on phone's LCD. Up to 3fields can be displayed.</p> <p>Example:</p> <p>%cn %sn %telephoneNumber</p>
Max Hits	<p>Specifies the maximum number of results to be returned by the LDAPserver. If set to 0, server will return all search results. The default setting is 50.</p>
Search Timeout (ms)	<p>Specifies the interval (in seconds) for the server to process the requestand client waits for server to return. The default setting is 4000 seconds.</p>
LDAP Lookup For Dial	<p>Configures to enable LDAP number searching when making outgoingcalls. The default setting is "No".</p>
LDAP Lookup For Incoming Call	<p>Configures to enable LDAP number searching when receiving incoming calls. The default setting is "No".</p>

 **Note:**

For more information on how to configure LDAP on GXV3240D, please refer to the GXV3240D LDAP Configuration Guide in the following link:

http://www.grandstream.com/products/gxv_series/GXV3240D/documents/GXV3240D_ldap_book_guide.pdf

MAINTENANCE/BROADSOFT

Server	Configure the BroadWorks Xsi server URI. If the server uses HTTPS, please add the header “Error! Hyperlink reference not valid.” Ahead of the Server URI. For instance, “https://SERVER_URI”.
Port	Configure the BroadWorks Xsi server port. The default port is 80. If the server uses HTTPS, please configure 443.
Username	Configure the Username for the BroadWorks Xsi feature.
Password	Configure the password for the BroadWorks Xsi feature.
Group Directory	Enable/Disable and rename the BroadWorks Xsi Group Directory features on the phone. If keep the Name box blank, the phone will use the default name “Group” for it.
Enterprise Directory	Enable/Disable and rename the BroadWorks Xsi Enterprise Directory features on the phone. If keep the Name box blank, the phone will use the default name “Enterprise” for it.
Group Common	Enable/Disable and rename the BroadWorks Xsi Group Common Directory features on the phone. If keep the Name box blank, the phone will use the default name “Group Common” for it.
Enterprise Common	Enable/Disable and rename the BroadWorks Xsi Enterprise Common Directory features on the phone. If keep the Name box blank, the phone will use the default name “Enterprise Common” for it.
Personal Directory	Enable/Disable and rename the BroadWorks Xsi Personal Directory features on the phone. If keep the Name box blank, the phone will use the default name “Personal” for it.
Missed Call Log	Enable/Disable and rename the BroadWorks Xsi Missed Call Log features on the phone. If keep the Name box blank, the phone will use the default name “Missed” for it.
Placed Call Log	Enable/Disable and rename the BroadWorks Xsi Placed Call Log features on the phone. If keep the Name box blank, the phone will use the default name “Outgoing” for it.
Received Call Log	Enable/Disable and rename the BroadWorks Xsi Placed Call Log features on the phone. If keep the Name box blank, the phone will use the default name “Incoming” for it.

MAINTENANCE/DEVICE MANAGER

AE Mode	AE mode (Automatic Exposure) has two options "Dark Environment" and "Bright Environment". Users could select the mode according to the actual environment (dark or bright) where the camera is being used. The phone's camera settings including exposure, brightness, contrast and Gamma value will be automatically adjusted to achieve better visual effect under the selected environment. The default setting is "Bright Environment".
Disable Missed Call Backlight	If set to "Yes", the screen will turn off the LCD backlight when there is a missed call on the phone. The default setting is "No".
Disable Missed Call Indicator	If set to "Yes", the LED indicator on the upper right corner of the GXV3240D will not light up when there is missed call on the phone. The default setting is "No".
Disable MWI Indicator	If set to "Yes", the LED indicator on the upper right corner of the GXV3240D will not light up when there is new voicemail on the phone. The default setting is "No".
Disable New Message Indicator	If set to "Yes", the LED indicator on the upper right corner of the GXV3240D will not light up when there is new message on the phone. The default setting is "No".
Disable Contact or Message Full Indicator	If set to "Yes", the LED indicator on the upper right corner of the GXV3240D will not light up when the contact storage or message storage is full. The default setting is "No".
Disable Indicator When LCD is Off	If set to "Yes", the LED indicator on the upper right corner of the GXV3240D will not light up when the LCD screen is off. The default setting is "No".
RJ9 Headset TX Gain (dB)	Select the transmission gain of the headset. The default setting is +6dB.
RJ9 Headset RX Gain (dB)	Select the receiving gain of the headset. The default setting is +6dB.
Headset Type	Selects whether the connected headset is normal RJ11 headset, Plantronics EHS headset or Jabra EHS headset.
Headset Key Mode	When headset is connected to the phone, users could use the HEADSET button in two different modes: <ol style="list-style-type: none"> Default Mode <ul style="list-style-type: none"> When the phone is in idle, press HEADSET button to offhook the phone and make calls by using headset. Headset icon will display on the top of the callscreen in dialing/talking status; When there is an incoming call, press HEADSET button to pick the call by using headset;

	<ul style="list-style-type: none"> • When there is an active call using headset, press HEADSET button to hang up the call; • When Speaker/Handset is used in dialing/talking status, press HEADSET button to switch to headset. Press it again to hang up the call, or press Speaker/Handset to switch back to previous mode. <p>2. Toggle Headset/Speaker</p> <ul style="list-style-type: none"> • When the phone is in idle, press HEADSET button to switch to Headset mode. The idle screen will display a Headset icon. In this mode, if pressing Speaker button or entering digits, headset will be used by default; • When there is an incoming call, press Answer icon on the screen or Speaker button, headset will be used; • When there is an active call, press HEADSET button to toggle between Headset and Speaker.
Handset TX Gain (dB)	Select the transmission gain of the handset. This is used to handle the volume setting of handset, it controls the output audio signal. The default setting is +6dB.
Handset RX Gain (dB)	Select the receiving gain of the handset. This is used to handle the volume setting of handset, it controls the input audio signal. The default setting is +6dB.

UPGRADING AND PROVISIONING

The GXV3240D can be upgraded via TFTP/HTTP/HTTPS by configuring the URL/IP Address for the TFTP/HTTP/HTTPS server and selecting a download method. Configure a valid URL for TFTP, HTTP or HTTPS; the server name can be FQDN or IP address.

Examples of valid URLs:

firmware.grandstream.com

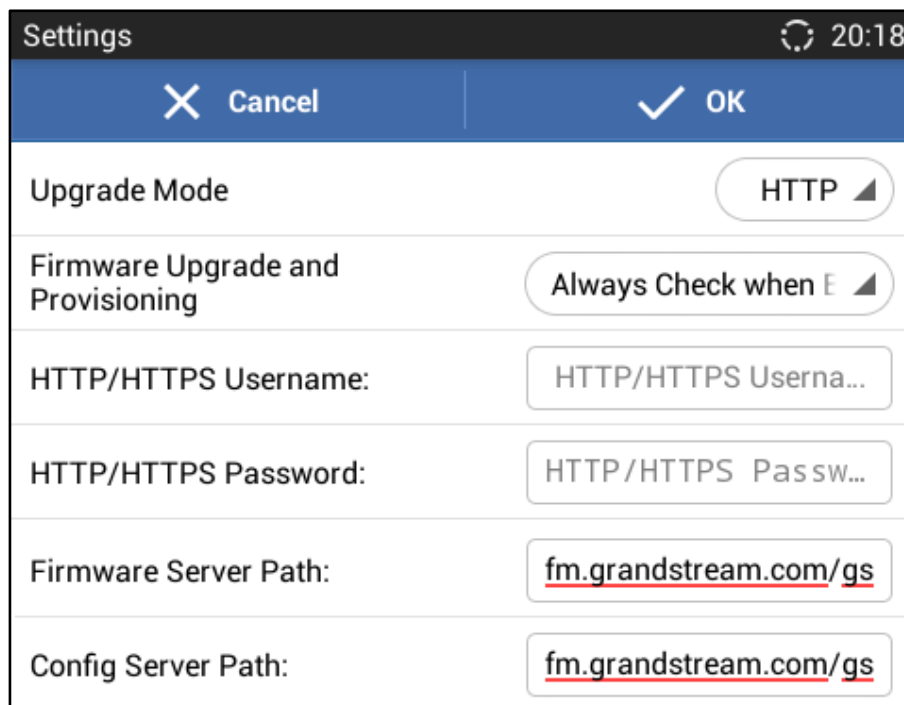
fw.ipvideotalk.com/gs

UPGRADE AND PROVISIONING CONFIGURATION

There are two ways to setup upgrade and provisioning on GXV3240D. They are Keypad Menu and Web GUI.

- **Configure via keypad Menu**

In GXV3240D Settings, select **Advanced Settings->Upgrade**. Users may then select the upgrade mode and enter the IP address or FQDN for the Firmware server and the Config server. After making the changes, tap **Save** button to save the change. Then reboot the phone.



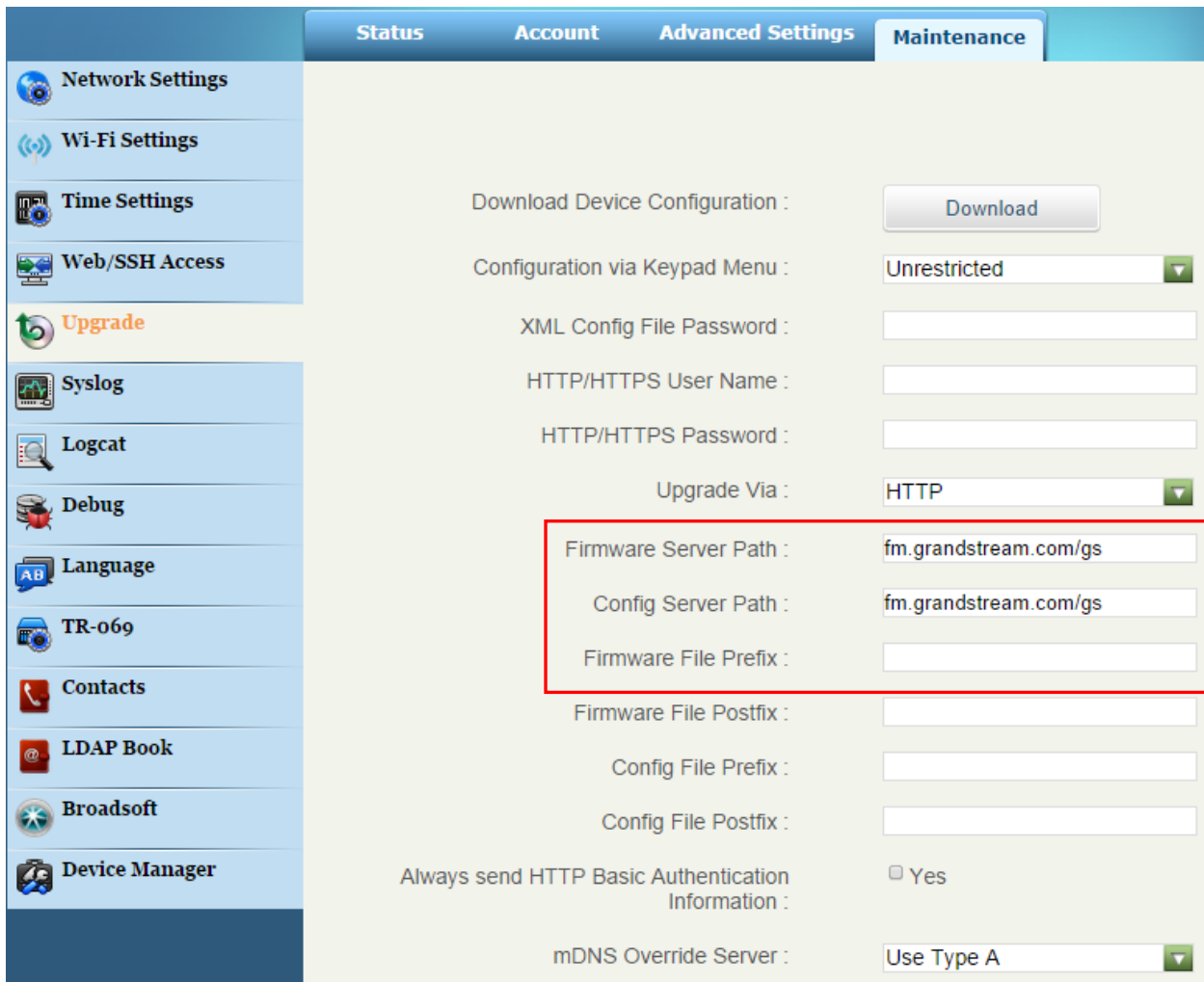
The screenshot shows the 'Settings' application on a mobile device. At the top, there is a 'Settings' title bar with a refresh icon and the time '20:18'. Below the title bar is a blue navigation bar with 'Cancel' (marked with an 'X') and 'OK' (marked with a checkmark). The main content area is a list of settings:

- Upgrade Mode:** Set to 'HTTP' with a dropdown arrow.
- Firmware Upgrade and Provisioning:** Set to 'Always Check when E' with a dropdown arrow.
- HTTP/HTTPS Username:** Text input field containing 'HTTP/HTTPS Userna...'.
- HTTP/HTTPS Password:** Text input field containing 'HTTP/HTTPS Passw...'.
- Firmware Server Path:** Text input field containing 'fm.grandstream.com/gs'.
- Config Server Path:** Text input field containing 'fm.grandstream.com/gs'.

Figure 14: GXV3240D Upgrade Configuration via LCD

- **Configure via Web GUI**

Open a web browser on PC and enter the IP address for the GXV3240D. Then login with the administrator username and password. Go to **Maintenance** section, select **Upgrade** tab. In the Upgrade web page, enter the IP address or the FQDN for the upgrade server and choose to upgrade via TFTP, HTTP or HTTPS. Save and apply the changes, then reboot the phone.



Status	Account	Advanced Settings	Maintenance
Network Settings			
Wi-Fi Settings			
Time Settings			
Web/SSH Access			
Upgrade			
Syslog			
Logcat			
Debug			
Language			
TR-069			
Contacts			
LDAP Book			
Broadsoft			
Device Manager			
	Download Device Configuration :		<input type="button" value="Download"/>
	Configuration via Keypad Menu :		Unrestricted <input type="button" value="v"/>
	XML Config File Password :		<input type="text"/>
	HTTP/HTTPS User Name :		<input type="text"/>
	HTTP/HTTPS Password :		<input type="text"/>
	Upgrade Via :		HTTP <input type="button" value="v"/>
	Firmware Server Path :		fm.grandstream.com/gs
	Config Server Path :		fm.grandstream.com/gs
	Firmware File Prefix :		<input type="text"/>
	Firmware File Postfix :		<input type="text"/>
	Config File Prefix :		<input type="text"/>
	Config File Postfix :		<input type="text"/>
	Always send HTTP Basic Authentication Information :		<input type="checkbox"/> Yes
	mDNS Override Server :		Use Type A <input type="button" value="v"/>

Figure 15: GXV3240D Upgrade Configuration via Web GUI

 **Note:**

Please do not interrupt or power cycle the GXV3240D when the upgrading process is on.

UPLOAD FIRMWARE LOCALLY

If there is no HTTP/TFTP server, users could also upload the firmware to the GXV3240D directly via Web GUI. Please follow the steps below to upload firmware to GXV3240D locally.

1. Download the latest GXV3240D firmware file from the following link and save it in your PC.
<http://www.grandstream.com/support/firmware>
2. Log in the Web GUI as administrator in the PC.
3. Go to Web GUI->**Maintenance**->**Upgrade**, configure **Upgrade Via** as "Manually Upload".
4. Press the "Upload" button, a window will be prompted to select firmware file to upload.
5. Select the firmware file from your PC. Then uploading progress will show at the button where it was "Upload" in the above step.
6. When uploading is done, users can see the upgrading process starts on the GXV3240D LCD.
7. The phone will reboot again with the new firmware version upgraded.

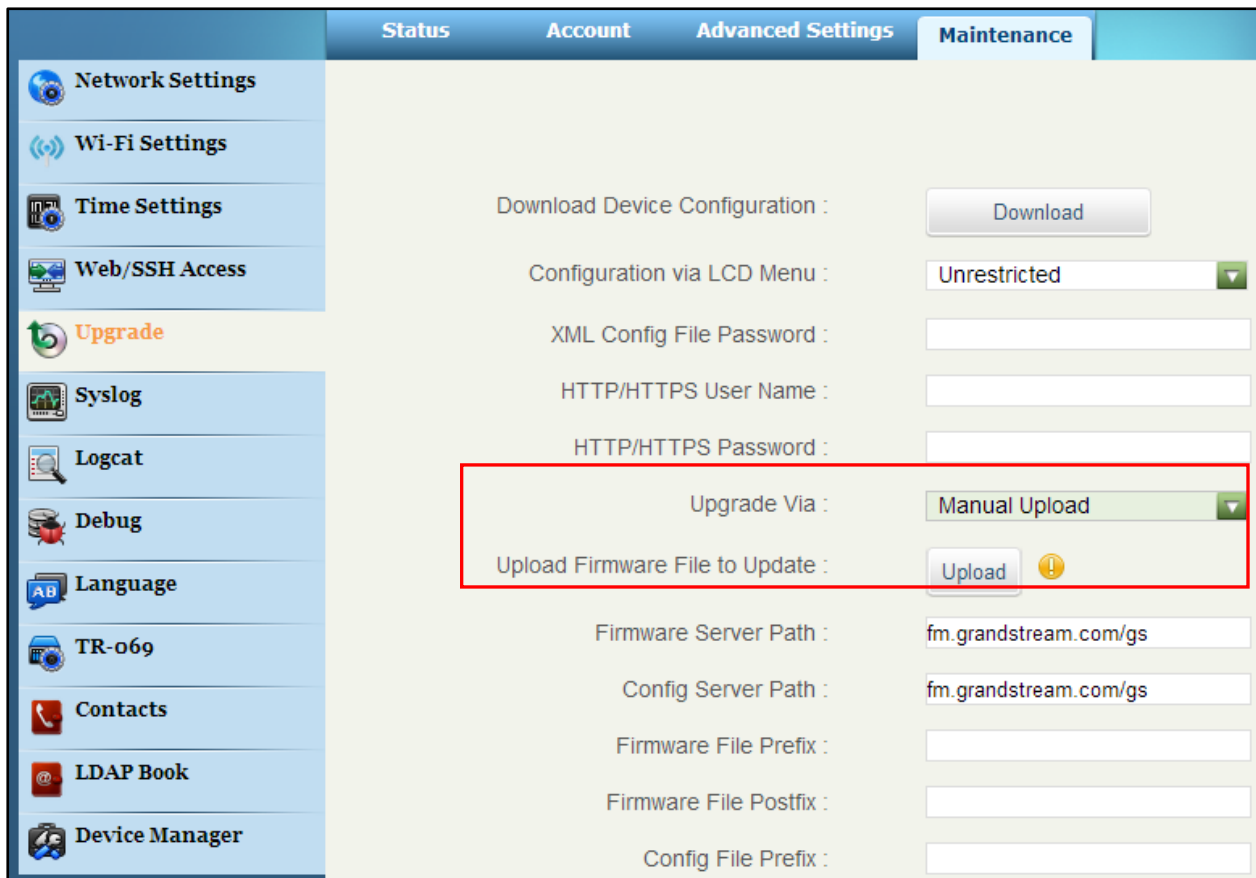


Figure 16: Upload GXV3240D Firmware via Web GUI



Figure 17: GXV3240D Firmware Uploading

UPGRADE VIA SD CARD

For users that could not use remote upgrade or could not access the phone's Web GUI to upload firmware, upgrading via external SD card is an alternative. Follow the steps below to upgrade GXV3240D via SD card.

1. Download the firmware file to PC and save it in SD card.
2. Insert the SD card to GXV3240D.
3. Power cycle the GXV3240D.
4. When the phone starts booting up, press and hold both * and # keys at the same time for about 5 seconds.
5. The GXV3240D will display the upgrading process in the screen.
6. Wait until the upgrading is done.
7. The GXV3240D will reboot itself.
8. Check the firmware status and remove the SD card.

Note:

Upgrading via USB storage device is not supported on the GXV3240D.

NO LOCAL FIRMWARE SERVERS

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

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

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

http://www.solarwinds.com/products/freetools/free_tftp_server.aspx

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

Instructions for local firmware upgrade via TFTP:

1. Unzip the firmware files and put all of them in the root directory of the TFTP server;
2. Connect the PC running the TFTP server and the GXV3240D device to the same LAN segment;
3. Launch the TFTP server and go to the File menu->Configure->Security to change the TFTP server's default setting from "Receive Only" to "Transmit Only" for the firmware upgrade;
4. Start the TFTP server and configure the TFTP server in the phone's web configuration interface;
5. Configure the Firmware Server Path to the IP address of the PC;
6. Update the changes and reboot the GXV3240D.

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

PROVISIONING AND CONFIGURATION FILE DOWNLOAD

Grandstream SIP Devices can be configured via the Web Interface as well as via a Configuration File (binary or XML) through TFTP or HTTP/HTTPS. The "Config Server Path" is the TFTP, HTTP or HTTPS server path for the configuration file. It needs to be set to a valid URL, either in FQDN or IP address format. The "Config Server Path" can be the same or different from the "Firmware Server Path".

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

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

When the GXV3240D boots up, it will issue TFTP or HTTP request to download a configuration XML file named "cfgxxxxxxxxxxx" followed by "cfgxxxxxxxxxxx.xml", where "xxxxxxxxxxx" is the MAC address of the phone, i.e., "cfg000b820102ab" and "cfg000b820102ab.xml". If downloading "cfgxxxxxxxxxxx.xml" file is not successful, the provision program will download a generic cfg.xml file. The configuration file name should be in lower case letters.

For more details on provisioning, please refer to the following document:

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


BACKUP

The following data on the GXV3240D can be backed up and restored to the phone again using the built-in

Backup application .

- **System applications:** Blacklist, Contacts, Call history, Config, SMS, Calendar and desktop settings.
- **Third party applications.**

GENERATE BACKUP FILE

1. Open Backup application by tapping on icon  from phone's menu or desktop.
2. A list the previous backup files will be displayed (if any).

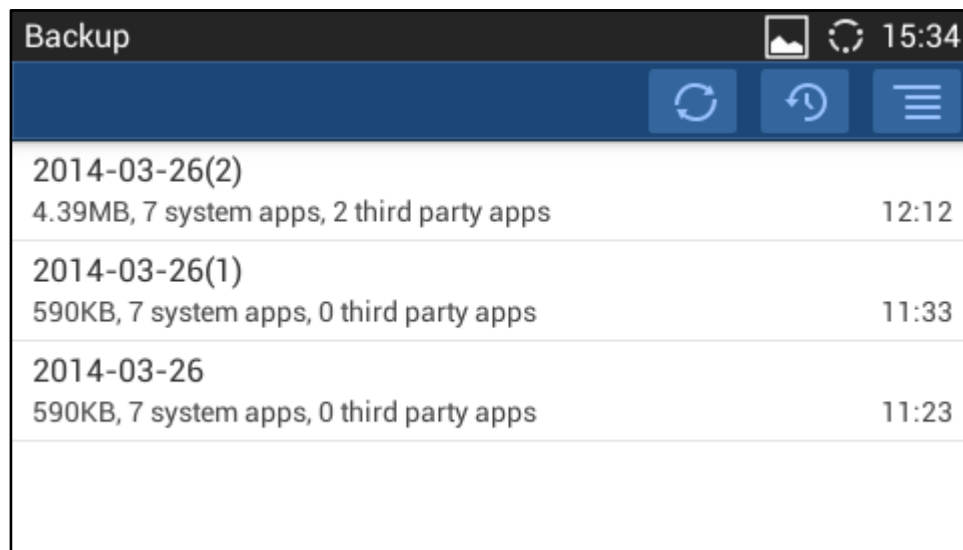



Figure 18: GXV3240D Backup

3. Tap on icon  to select the applications to be backed up.

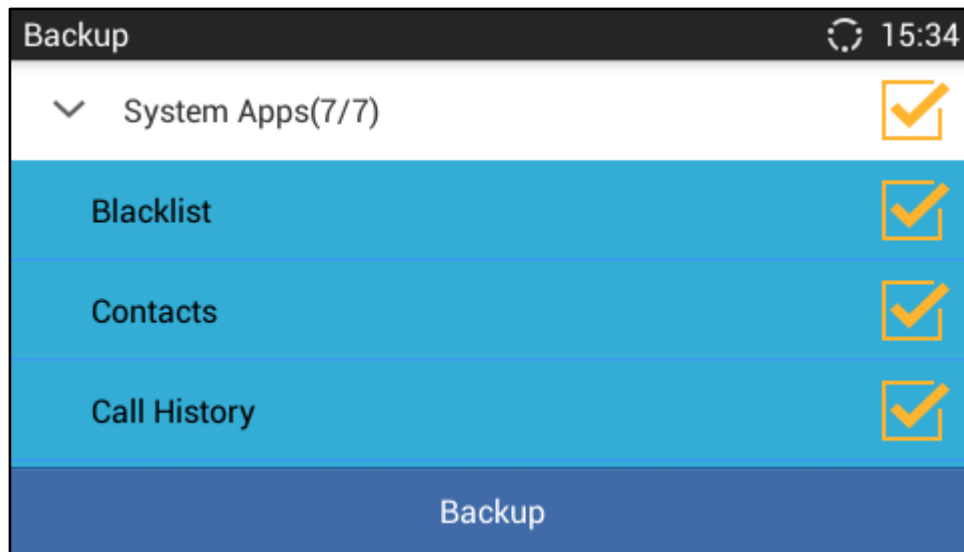






Figure 19: Select Backup Applications

4. Tap on "Backup" to start generating the backup file.
5. The backup file can be accessed from Backup application. If users touch and press on the backup file for about 2 seconds until the checkbox displays, users can then share the backup file by tapping on  or delete the file by tapping on .
6. Or users can go to FileManager->Internal Storage->Backup to retrieve the backup files.

RESTORE FROM BACKUP FILE

1. Open Backup application by tapping on icon  from phone's menu or desktop.
2. A list the previous backup files will be displayed with backup date and time. If the backup file you would like use is not displayed in the list, tap on  to scan backup files from phone's storage.
3. Tap on one of the backup file to select the applications to be restored from this backup.

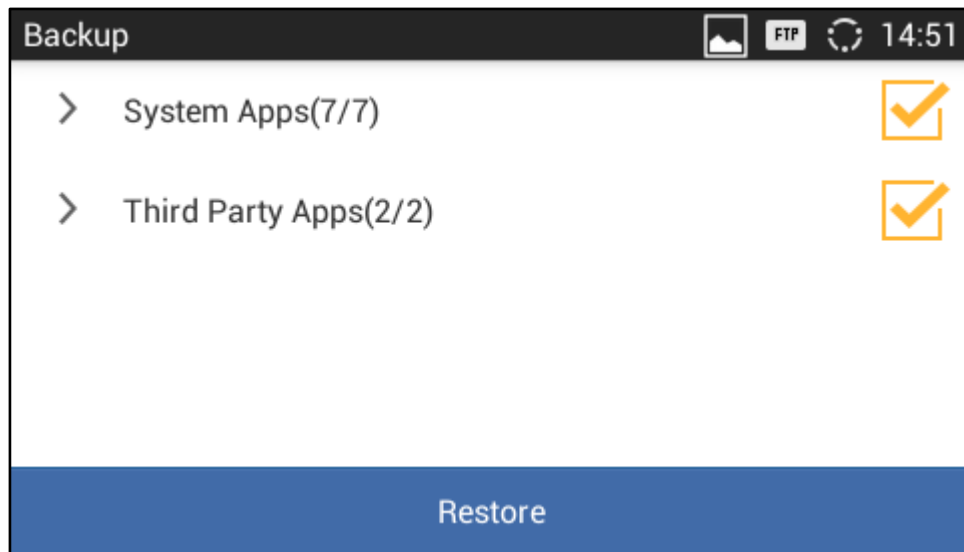


Figure 20: Select Backup Applications To Be Restored

4. Tap on "Restore" to start. The LCD will show restore status. Please wait until all the applications are completed or tap on "Cancel" to abort the restore process.

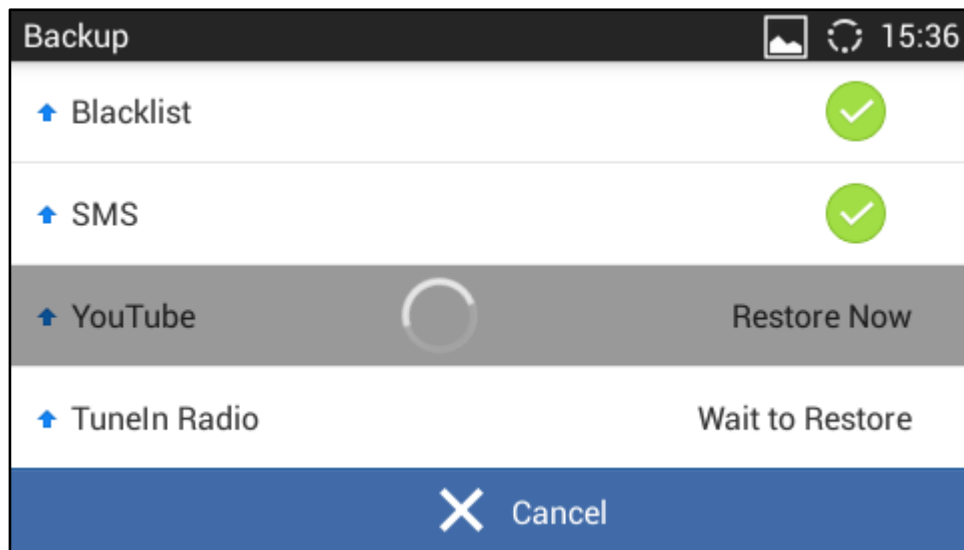




Figure 21: Restore Process

AUTOMATIC BACKUP

1. Open Backup application by tapping on icon  from phone's menu or desktop.
2. Tap on  and select "Auto Backup".

3. Configure the automatic backup settings.

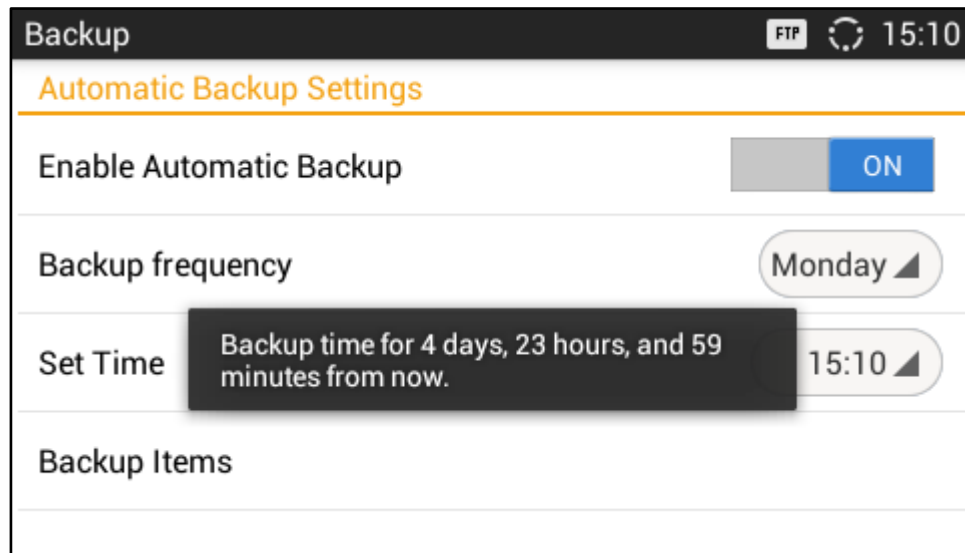


Figure 22: Automatic Backup Settings

- **Enable Automatic Backup.** Turn on the enable automatic backup on the phone.
- **Backup Frequency.** Select the day of the week for the phone to automatically start backup.
- **Set Time.** Select the hour and minute of the day for the phone to automatically start backup.
- **Backup Item.** Tap to select the applications you would like to backup automatically.


FACTORYRESET

RESTORE TO FACTORY DEFAULT VIA LCD MENU

 **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.

There are two methods to restore the GXV3240D to the factory default settings.

1. On GXV3240D idle screen, press MENU button  and tap on **System settings**. Or go to onscreen MENU->**Settings**.
2. Tap on **Advanced Settings->Factory Reset**, the following figure will show.

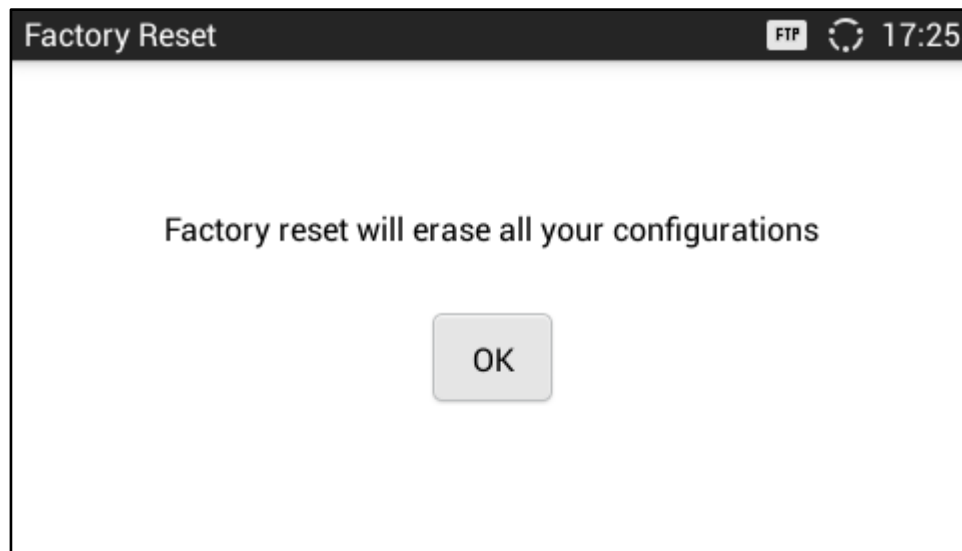


Figure 23: GXV3240D LCD - Factory Reset

3. Tap on **Factory Reset**, a confirmation message will show. Select "Clear the SD Card" if you would like to delete all the picture, videos and other files from the SD card storage on the GXV3240D.

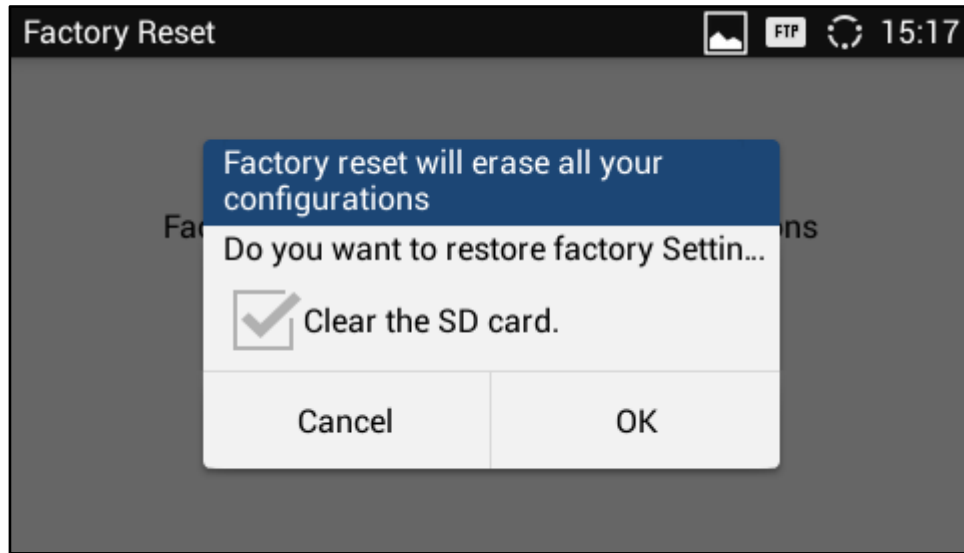


Figure 24: GXV3240D LCD - Confirm Factory Reset

4. Tap on **OK** to confirm.

RESTORE TO FACTORY DEFAULT VIA THE WEB GUI

1. Login GXV3240D Web GUI and go to **Maintenance->Upgrade page**;
2. At the bottom of the page, click on the **Reset** button for Factory reset. Select "Clear the SD Card" if you would like to delete all the picture, videos and other files from the SD card storage on the GXV3240D.



Figure 25: GXV3240D Web GUI - Factory Reset

3. A dialog box will pop up to confirm factory reset;
4. Click OK to restore the phone to factory settings.

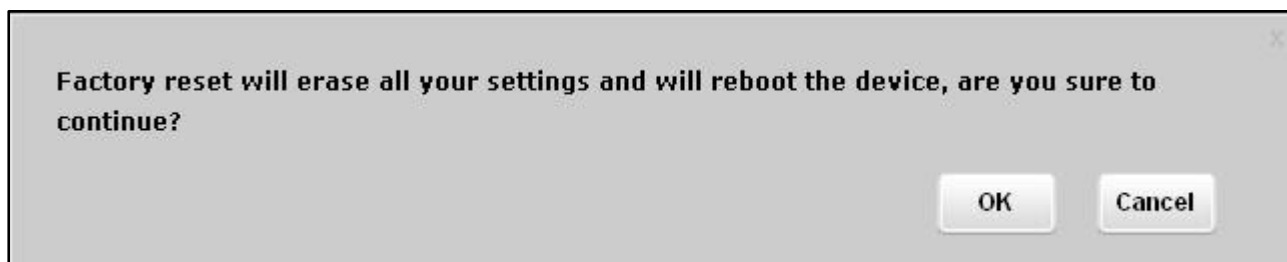




Figure 26: GXV3240D Web GUI - Confirm Factory Reset

RESTORE TO FACTORY DEFAULT VIA HARD KEYS

If users could not access web GUI for factory reset, or when the GXV3240D cannot bootup, pressing and holding 1 and 9 at the same time for about 5 seconds could reset the GXV3240D before it boots up. Follow the steps below to reset the GXV3240D via hard keys.

1. Power cycle the GXV3240D and the MWI LED will light up.
2. Wait until the MWI LED lights off and immediately pressing both 1 and 9 keys at the same time for about 8 seconds.
3. Release the keys once the MWI LED lights up again.
4. Wait for about 1 minute till the GXV3240D boots up again.
5. The GXV3240D will boot up with factory default settings.

SAFE MODE

The GXV3240D allows users to enter safe mode by pressing the Menu button  during bootup. To do this, power cycle the phone and immediately press the Menu button  until the phone completely boots up. Users will see the phone boot up in safe mode.

Under safe mode, only the system applications will be up and running. Normally safe mode is not needed unless the phone cannot function anymore caused by incompatible 3rd party applications. For example, if a 3rd party application is downloaded and installed on the phone that cause the phone keep crashing or freezing and users cannot operate on the phone's settings, users can enter safe mode to remove the 3rd party application and boot up in normal mode again.

EXPERIENCING THE GXV3240D APPLICATION PHONE

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

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

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

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

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Federal Communications Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must not be collocated or operating in conjunction with any other antenna or transmitter.