

Grandstream Networks, Inc.

GXV34x0

Administration Guide




GXV34x0 - Admin Guide

Thank you for purchasing Grandstream GXV34x0 IP Multimedia Phone for Android™. The GXV34x0 IP Video Phone for Android combines a 16-line IP video phone with a multi-platform video conferencing solution and the functionality of an Android tablet to offer an all-in-one communications solution. All the models come with HD resolution capacitive touch screen with different sizes, GXV3450 has 5" 1280×720 while GXV3470 and GXV3480 come 1280×800 and they support 7" and 8" respectively, tiltable camera with privacy shutter that supports 1080p 30fps HD video, dual Gigabit ports with PoE/PoE+, HD audio, integrated Wi-Fi (Dual band 802.11a/b/g/n/ac) for GXV3450 and Wi-Fi 6 (Dual band 802.11a/b/g/n/ac/ax) for GXV3470 and GXV3480 & Bluetooth 5, rich peripheral interfaces, and Android 11. By combining a state-of-the-art IP video phone, an advanced video conferencing solution, and the functionality of a tablet, businesses throughout the world can now use the GXV34x0 for all communication and productivity needs.

PRODUCT OVERVIEW

Feature Highlights

The following tables contain the major features of the GXV34x0:

 <p style="text-align: center;">GXV3480</p>	<ul style="list-style-type: none"> • 16 lines with up to 16 SIP accounts, up to 12-way audio conference and 3-way 1080p 30fps HD video conference, phonebook with up to 2000 contacts, call history with up to 2000 records. • Dual switched 10/100/1000Mbps network ports, Dual-band 2.4GHz & 5GHz Wi-Fi 6 (802.11a/b/g/n/ac/ax), PoE/PoE+, Bluetooth, USB 3.0 and type-C ports, HDMI In and Out, RJ9 headset jack. • 8" (1280x800) capacitive (10 points) touch screen IPS LCD, Tilttable camera with privacy shutter, 1080P@30fps. • HD wideband audio, full-duplex hands-free speakerphone with HD acoustic chamber, advanced acoustic echo cancellation and excellent double-talk performance • Runs on Android 11 operating system.
 <p style="text-align: center;">GXV3470</p>	<ul style="list-style-type: none"> • 16 lines with up to 16 SIP accounts, up to 10-way audio conference and 3-way 720p 30fps HD video conference, phonebook with up to 1000 contacts, call history with up to 1000 records. • Dual switched 10/100/1000Mbps network ports, Dual-band 2.4GHz & 5GHz Wi-Fi (802.11a/b/g/n/ac/ax), PoE/PoE+, Bluetooth, 2 USB ports, HDMI Out, RJ9 headset jack. • 7" (1280x800) capacitive (5 points) touch screen HD IPS LCD, Tilttable camera with privacy shutter, 1080P@30fps. • HD wideband audio, full-duplex hands-free speakerphone with HD acoustic chamber, advanced acoustic echo cancellation and excellent double-talk performance. • Runs on Android 11 operating system.
 <p style="text-align: center;">GXV3450</p>	<ul style="list-style-type: none"> • 16 lines with up to 16 SIP accounts, up to 10-way audio conference and 3-way 720p 30fps HD video conference, phonebook with up to 1000 contacts, call history with up to 1000 records. • Dual switched 10/100/1000Mbps network ports, Dual-band 2.4GHz & 5GHz Wi-Fi (802.11a/b/g/n/ac), PoE/PoE+, Bluetooth, USB3.0 and USB2.0 ports, RJ9 headset jack. • 5" (1280x720) capacitive (5 points) touch screen HD IPS LCD, Tilttable camera with privacy shutter, 1080P@30fps. • HD wideband audio, full-duplex hands-free speakerphone with HD acoustic chamber, advanced acoustic echo cancellation and excellent double-talk performance.

- Runs on Android 11 operating system.

GXV34x0 Features in a Glance

Technical Specifications

The following tables resume all the technical specifications including the protocols / standards supported, voice codecs, telephony features, languages and upgrade/provisioning settings for the GXV34x0 series.

o GXV3480 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, IPv6, OpenVPN®
Network Interfaces	Dual switched 10/100/1000 Mbps ports with integrated PoE/PoE+
Graphic Display	8" 1280×800 capacitive touch screen (10 points) IPS LCD
Camera	Tiltable 2 megapixel CMOS camera with privacy shutter, 1080p 30fps
Bluetooth	Yes, integrated Bluetooth
Wi-Fi	Yes, dual-band (2.4GHz & 5GHz) with 802.11 a/b/g/n/ac/ax, 2T2R, Wi-Fi Display & AirPlay
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), 3.5mm stereo headset with microphone, USB 3.0 port, Type-C, HDMI-out, HDMI-in
Feature Keys	2 function touch keys VOLUME +/-, 3 dedicated Android touch keys HOME, MENU, and BACK
Voice Codec	Wide-band Opus, wide-band G.722, G.711μ/a, G.729A/B, G.726-32, iLBC, in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC, ANS, Noise Shield 2.0
Video Codec and Capabilities	H.264 BP/MP/HP, video resolution up to 1080p, frame rate up to 30 fps, bit rate up to 4Mbps, 3-way video conference (1080p@30fps), BFCP, people video(up to 1080p@30fps) + content video(up to 1080p@15fps), anti-flickering and auto exposure
Telephony Features	Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 12-way audio conference(including the host), shared-call-appearance (SCA) / bridged-line-appearance (BLA), virtual MPK, downloadable contacts (XML, LDAP, up to 2000 items), call record(local and server), call log (up to 2000 records), call waiting, auto answer, XML customization of screen, flexible dial plan, personalized music ringtones and music on hold, server redundancy & fail-over
Sample Applications	<ul style="list-style-type: none"> ● Local apps: Contacts, Call History, File Manager, Programmable Key, Settings, Browser, Clock, Voicemail, Calculator, Recorder, GS Market, etc. ● Support third-party Android apps. ● API/SDK available for advanced custom application development
Android	Runs Android 11
Applications Deployment	Supports Android 11 compliant applications to be developed, downloaded and run on the device with provisioning control.

HD Audio	Yes, 2 omnidirectional microphones, HD handset and speakerphone with support for wideband audio
Base Stand	Integrated stand with multiple adjustable angles
QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, random default admin password, MD5 and MD5-session based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control, Kensington Security Slot (Kensington Lock) support, anti-hacking secure boot
Multi-language	English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese, and more
Upgrade/Provisioning	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file, GDMS. Note: Users can remotely access the GXV3480's web interface through the GDMS device options menu.
Power & Green Energy Efficiency	Universal power adapter included: Input: 100-240VAC 50-60Hz; Output 12VDC 1.5A (18W) Integrated PoE* 802.3af Class 3, PoE+ 802.3at, Class 4 <i>*Must use PSU or PoE+ to power up the phone when using USB devices</i>
Temperature and Humidity	Operation: 0°C to 40°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Package Content	GXV3480 phone, handset with cord, base stand, universal power supply, network cable, screen cleaning cloth, quick installation guide
Compliance	FCC: CFR 47 Part 15 Subpart B Class B; CFR 47 Part 15 Subpart C; CFR 47 Part 15 Subpart E; Part 68 (HAC) IC: RSS-247, RSS-GEN, RSS-102, ICES-003, CS-03. CE: EN 55032 Class B; EN 55035; EN IEC 61000-3-2; EN 61000-3-3; EN IEC 62368-1; ETSI EN 300328; ETSI EN 301893; ETSI EN 301489-1; ETSI EN 301489-17; EN IEC 62311 UKCA: BS EN 55032 Class B; BS EN 55035; BS EN IEC 61000-3-2; BS EN 61000-3-3; BS EN IEC 62368-1; ETSI EN 300328; ETSI EN 301893; ETSI EN 301489-1; ETSI EN 301489-17; BS EN IEC 62311 RCM: AS/ACIF S040 AS/CA S004; AS/NZS CISPR 32; AS/NZS 62368.1; AS/NZS 4268. HDMI RoHS 2.0

GXV3480 Technical Specifications

o GXV3470 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, IPv6, OpenVPN®
Network Interfaces	Dual switched 10/100/1000 Mbps ports with integrated PoE/PoE+
Graphic Display	7" 1280×800 capacitive touch screen (5 points) HD IPS LCD
Camera	Tiltable 2 megapixel CMOS camera with privacy shutter, 1080p 30fps

Bluetooth	Yes, integrated Bluetooth
Wi-Fi	Yes, dual-band (2.4GHz & 5GHz) with 802.11 a/b/g/n/ac/ax, 2T2R, Wi-Fi Display & AirPlay
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), 3.5mm headset port, USB 2.0 port, USB 3.0 port, HDMI-out
Feature Keys	2 function touch keys VOLUME +/-, 3 dedicated Android touch keys HOME, MENU, and BACK
Voice Codec	Wide-band Opus, wide-band G.722, G.711 μ /a, G.729A/B, G.726-32, iLBC, in-band and out-of-band DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC, ANS, Noise Shield 2.0
Video Codec and Capabilities	H.264 BP/MP/HP, video resolution up to 720p, frame rate up to 30 fps, bit rate up to 2Mbps, 3-way video conference (720p@30fps), anti-flickering and auto exposure
Telephony Features	Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 10-way audio conference(including the host), shared-call-appearance (SCA) / bridged-line-appearance (BLA), virtual Programmable Key, downloadable contacts (XML, LDAP, up to 1000 items), call record(local and server), call log (up to 1000 records), call waiting, auto answer, XML customization of screen, flexible dial plan, personalized music ringtones and music on hold, server redundancy & fail-over
Sample Applications	<ul style="list-style-type: none"> ● Local apps: Contacts, Call History, File Manager, Programmable Key, Settings, Browser, Clock, Voicemail, Calculator, Recorder, GS Market, etc. ● Support third-party Android apps. ● API/SDK available for advanced custom application development
Android	Runs Android 11
Applications Deployment	Supports Android 11 compliant applications to be developed, downloaded and run on the device with provisioning control.
HD Audio	Yes, 2 omnidirectional microphones, HD handset and speakerphone with support for wideband audio
Base Stand	Yes, built-in stand with multiple adjustable angles
QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, random default admin password, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control, Kensington Security Slot (Kensington Lock) support, anti-hacking secure boot
Multi-language	English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese, and more
Upgrade/Provisioning	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file, GDMS. Note: Users can remotely access the GXV3470's web interface through the GDMS device options menu.
Power & Green Energy Efficiency	Universal power adapter included: Input: 100-240VAC 50-60Hz; Output 12VDC 1.5A (18W)

	Integrated PoE* 802.3af Class 3, PoE+ 802.3at, Class 4 <i>*Must use PSU or PoE+ to power up the phone when using USB devices</i>
Temperature and Humidity	Operation: 0°C to 40°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Package Content	GXV3470 phone, handset with cord, base stand, universal power supply, network cable, screen cleaning cloth, quick installation guide
Compliance	FCC: CFR 47 Part 15 Subpart B Class B; CFR 47 Part 15 Subpart C; CFR 47 Part 15 Subpart E; Part 68 (HAC) IC: RSS-247, RSS-GEN, RSS-102, ICES-003, CS-03 CE: EN 55032 Class B; EN 55035; EN IEC 61000-3-2; EN 61000-3-3; EN IEC 62368-1; ETSI EN 300328; ETSI EN 301893; ETSI EN 301489-1; ETSI EN 301489-17; EN IEC 62311 UKCA: BS EN 55032 Class B; BS EN 55035; BS EN IEC 61000-3-2; BS EN 61000-3-3; BS EN IEC 62368-1; ETSI EN 300328; ETSI EN 301893; ETSI EN 301489-1; ETSI EN 301489-17; BS EN IEC 62311 RCM: AS/ACIF S040 AS/CA S004; AS/NZS CISPR 32; AS/NZS 62368.1; AS/NZS 4268 HDMI , RoHS 2.0

GXV3470 Technical Specifications

○ **GXV3450 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, LLDP-MED, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6, OpenVPN®
Network Interfaces	Dual switched 10/100/1000 Mbps ports with integrated PoE/PoE+
Graphic Display	5.0 inch 1280×720 capacitive touch screen (5 points) HD IPS LCD
Camera	Tiltable 2 megapixel CMOS camera with privacy shutter, 1080p 30fps
Bluetooth	Yes, integrated Bluetooth
Wi-Fi	Yes, dual-band dual-stream Wi-Fi 5(2.4GHz & 5GHz) with 802.11 a/b/g/n/ac
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), USB 2.0 port, USB 3.0 port
Feature Keys	11 functions keys for CONFERENCE, TRANSFER, SEND/REDIAL, MUTE, EARPHONE, SPEAKERPHONE, VOLUME +/- . 3 dedicated Android keys for HOME, RECENT, and BACK
Voice Codec	Wide-band Opus, wide-band G.722, G.711μ/a, G. 729A/B, G.726-32, iLBC, in-band and out-ofband DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC, ANS, Noise Shield 2.0
Video Codec and Capabilities	H.264 BP/MP/HP, video resolution up to 720p, frame rate up to 30 fps, bit rate up to 2Mbps, 3-way video conference (720p@30fps), anti-flickering and auto exposure
Telephony Features	Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 10-way audio conference(including the host), shared-call-appearance (SCA) / bridged-line-appearance (BLA), virtual Programmable Key, downloadable contacts (XML, LDAP, up to 1000 items), call record(local and server), call log (up to 1000 records), call waiting, auto answer, XML

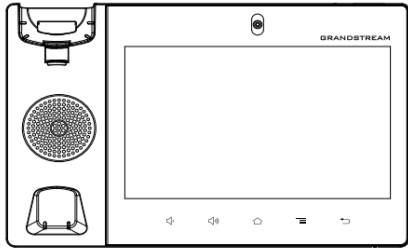
	customization of screen, flexible dial plan, personalized music ringtones and music on hold, server redundancy & failover
Extention Module	Yes, can power up to 4 GBX20 EXT modules which feature a 272x480 color LCD, 20 quick-dial/BLF keys with dual-color LED, 2 navigation keys, and less than 1.2W power consumption per unit.
Sample Applications	<ul style="list-style-type: none"> • Local apps: Contacts, Call History, File Manager, Programmable Key, Settings, Browser, Clock, Voicemail, Calculator, Recorder, GS Market, etc. • Support third-party Android apps. • API/SDK available for advanced custom application development
Android	Runs Android 11
Applications Deployment	Supports Android 11 compliant applications to be developed, downloaded and run on the device with provisioning control.
HD Audio	Yes, 2 omnidirectional microphones, HD handset and speakerphone with support for wideband audio
Base Stand	Yes, desktop stand with three adjustable levels
QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, random default admin password, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control, Kensington Security Slot (Kensington Lock) support, anti-hacking secure boot
Multi-language	English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese, and more
Upgrade/Provisioning	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload, mass provisioning using TR-069 or AES encrypted XML configuration file, GDMS Note: Users can remotely access the GXV3450's web interface through the GDMS device options menu.
Power & Green Energy Efficiency	Universal power adapter included: Input: 100-240VAC 50-60Hz; Output 12VDC 1.5A (18W) Integrated PoE* 802.3af Class 3, PoE+ 802.3at, Class 4 <i>*Must use PSU or PoE+ to power up the phone when using USB devices</i>
Temperature and Humidity	Operation: 0°C to 40°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Package Content	GXV3450 phone, handset with cord, base stand, universal power supply, network cable, screen cleaning cloth, quick installation guide
Compliance	FCC: CFR 47 Part 15 Subpart B Class B; CFR 47 Part 15 Subpart C; CFR 47 Part 15 Subpart E; Part 68 (HAC) IC: RSS-247, RSS-GEN, RSS-102, ICES-003, CS-03 CE: EN 55032 Class B; EN 55035; EN IEC 61000-3-2; EN 61000-3-3; EN IEC 62368-1; ETSI EN 300328; ETSI EN 301893; ETSI EN 301489-1; ETSI EN 301489-17; EN IEC 62311 UKCA: BS EN 55032 Class B; BS EN 55035; BS EN IEC 61000-3-2; BS EN 61000-3-3; BS EN IEC 62368-1; ETSI EN 300328; ETSI EN 301893; ETSI EN 301489-1; ETSI EN 301489-17; BS EN IEC 62311 RCM: AS/ACIF S040 AS/CA S004; AS/NZS CISPR 32; AS/NZS 62368.1; AS/NZS 4268

GETTING STARTED

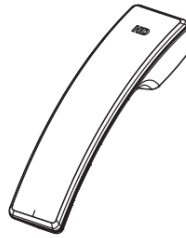
Equipment Packaging

This chapter provides basic installation instructions including the list of the packaging contents and also information for obtaining the best performance with the GXV34x0 series.

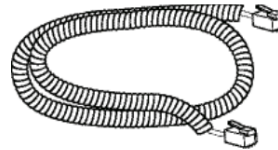
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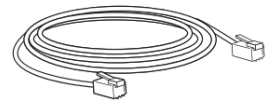
1x GXV3480 Main Case



1x Handset



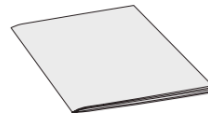
1x Phone Cord



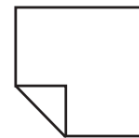
1x Ethernet Cable



1x 12V Power Adapter



1x Quick Installation Guide



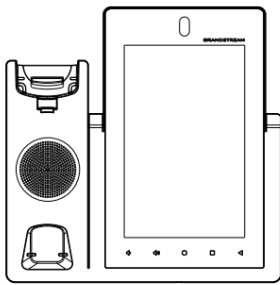
1x Screen Cleaning Cloth

GXV3480 Package Content

GXV3480
<ul style="list-style-type: none"> ● 1x GXV3480 Main Case. ● 1 x Handset. ● 1x Phone Cord. ● 1x Ethernet Cable. ● 1x 12V Power Adapter. ● 1x Screen Cleaning Cloth. ● 1x Quick Installation Guide.

GXV3480 Equipment Packaging

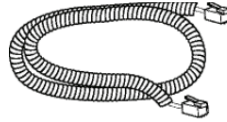
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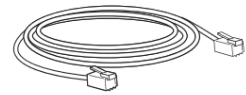
1x GXV3470 Main Case



1x Handset



1x Phone Cord



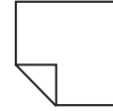
1x Ethernet Cable



1x 12V Power Adapter



1x Quick Installation Guide



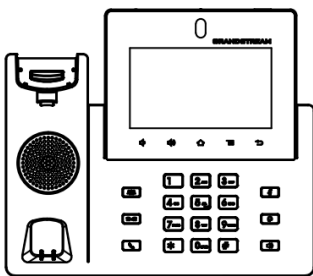
1x Screen Cleaning Cloth

Figure 2: GXV3470 Package Contents

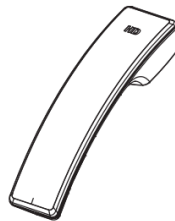
GXV3470
<ul style="list-style-type: none"> • 1x GXV3470 Main Case. • 1 x Handset. • 1x Phone Cord. • 1x Ethernet Cable. • 1x 12V Power Adapter. • 1x Wall Mount. • 1x Screen Cleaning Cloth. • 1x Quick Installation Guide.

GXV3470 Equipment Packaging

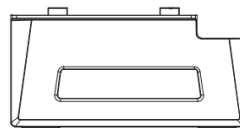
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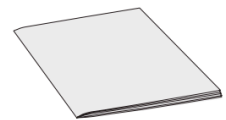
1x GXV3450 Main Case



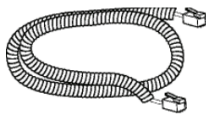
1x Handset



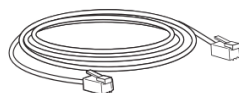
1x Phone stand



1x Quick Installation Guide



1x Phone Cord



1x Ethernet Cable



1x 12V Power Adapter

GXV3450

- 1x GXV3450 Main Case.
- 1 x Handset.
- 1x Phone Cord.
- 1x Phone Stand
- 1x Ethernet Cable.
- 1x 12V Power Adapter.
- 1x Quick Installation Guide.

GXV3450 Equipment Packaging

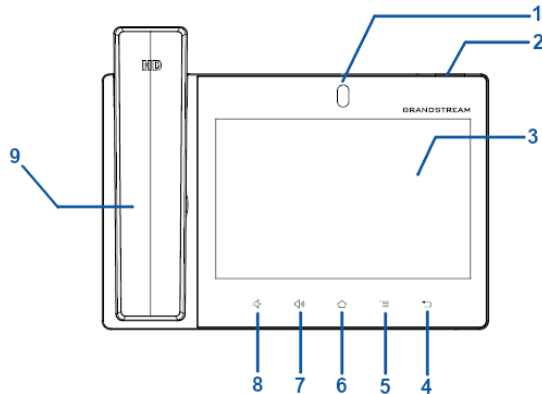
Important

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

Description of the GXV34x0

GXV3480

○ Front View



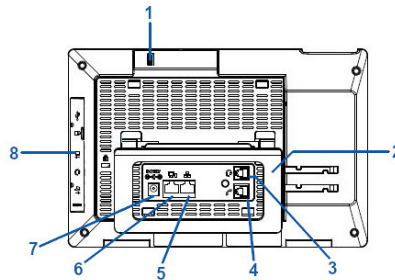
GXV3480 Front

Item	Name	Description
1	Front Camera	Mega pixel front camera. The angle can be adjusted, and the camera can be blocked by scrolling up/down the wheel on the back of the camera.
2	MWI LED Indicator	To indicate message status, call status and phone's system status using the LED indicator.
3	LCD	8" (1280×800) capacitive (10 points) IPS LCD touch screen.
4	Back	Tap to go back to the previous menu.
5	Menu	Press MENU key to access phone's display settings, edit widgets and thread manager. Or press and hold on the MENU key for 2 seconds to enter managing application interface directly.
6	Home	Tap to go back to Home screen; or touch and press for about 2 seconds to take a screenshot of phone's screen.
7	Volume Up	Tap to turn up the call volume and media volume.

8	Volume Down	Tap to turn down the call volume and media volume.
9	Handset	Off hook to use handset as the audio channel for calls and media.

Table 8: GXV3480 Front View

o **Back View**

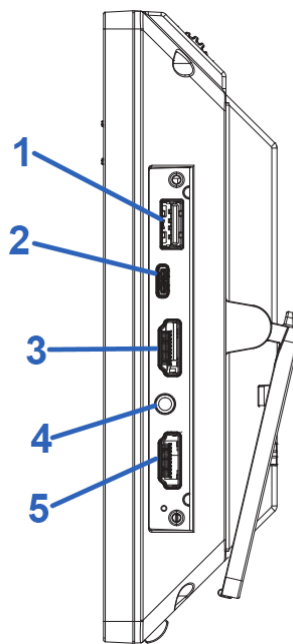


GXV3480 Back View

Item	Name	Description
1	Camera Adjusting Wheel	Scroll up/down to adjust the camera angle.
2	Phone Stand (built-in)	Adjust the phone stand angle to place the phone on the desk.
3	Headset Port	RJ9 headset connector port (supporting EHS with Plantronics headset).
4	Handset Port	RJ9 handset connector port.
5	LAN Port	10/100/1000Mbps RJ-45 port connecting to Ethernet. PoE/PoE+ is supported.
6	PC Port	10/100/1000Mbps RJ-45 port connecting to PC.
7	Power Jack	12V DC Power connector port.
8	Side Connectors Cover	USB 3.0 port, Type-C, HDMI-out, 3.5mm headset port, HDMI-in" Note: Type-C port only supports data transfer and charging , and not video output.

GXV3480 Back View

o **Side View**



GXV3480 Side View

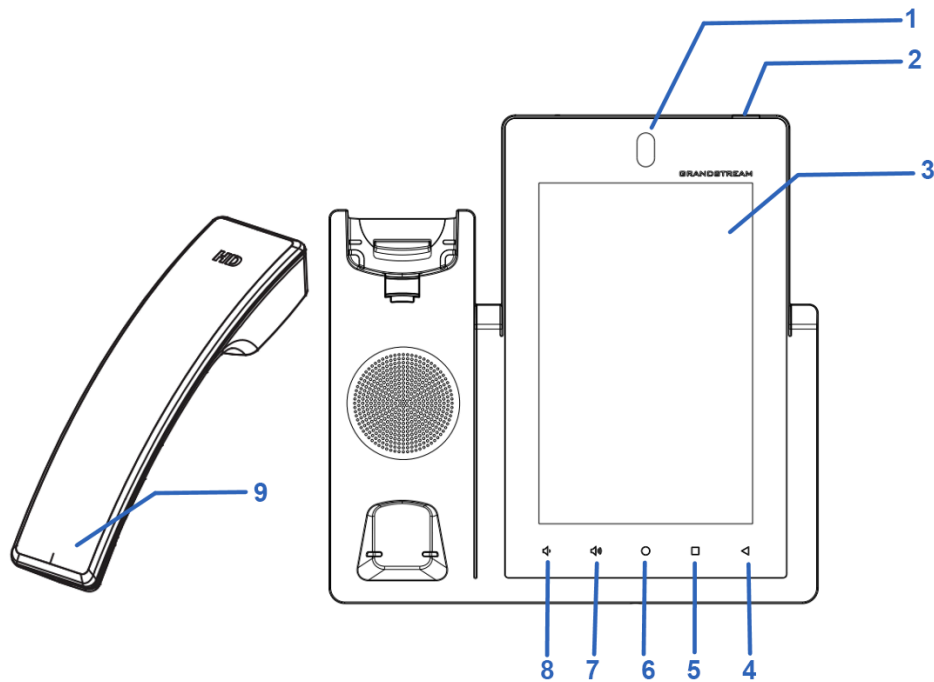
Item	Name	Description
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1	USB Port	USB devices can be connected via the USB port. For example, connect a USB flash drive to save captured pictures.
2	Type-C port	Used for USB Device mode. Connect the GXV3480 to a USB Host device, such as a PC, the GXV3480 will act as its USB external audio device.
3	HDMI Output Interface	Connect to HDMI input devices (e.g., TV)
4	3.5mm Headset Port	Connect 3.5mm headset.
5	HDMI Input Interface	Connect presentation device (e.g., a laptop).

GXV3480 Side View

GXV3470

○ Font View

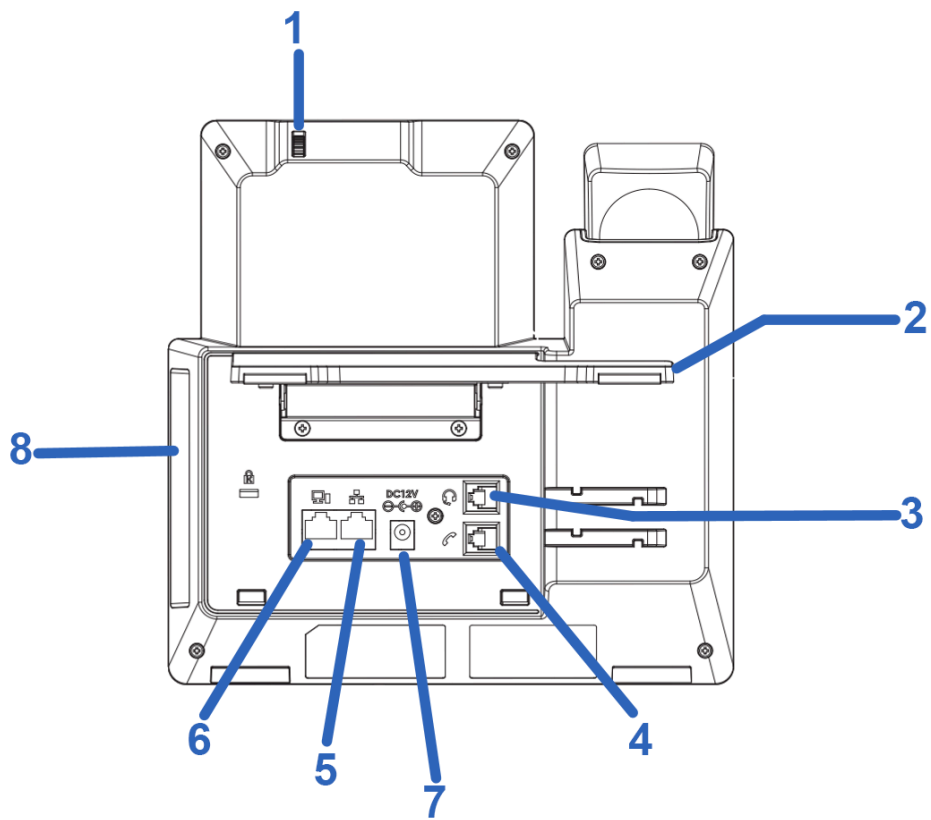


GXV3470 Front View

Item	Name	Description
1	Front Camera	Mega pixel front camera. The angle can be adjusted, and the camera can be blocked by scrolling up/down the wheel on the back of the camera.
2	MWI LED Indicator	To indicate message status, call status and phone's system status using the LED indicator.
3	LCD	7" (1280×800) capacitive (5 points) IPS LCD touch screen.
4	Back	Tap to go back to the previous menu.
5	Menu	Press MENU key to access phone's display settings, edit widgets and thread manager. Or press and hold on the MENU key for 2 seconds to enter managing application interface directly.
6	Home	Tap to go back to Home screen; or touch and press for about 2 seconds to take a screenshot of phone's screen.
7	Volume Up	Tap to turn up the call volume and media volume.
8	Volume Down	Tap to turn down the call volume and media volume.
9	Handset	Off hook to use handset as the audio channel for calls and media.

Table 11: GXV3470 Front View

○ Back View

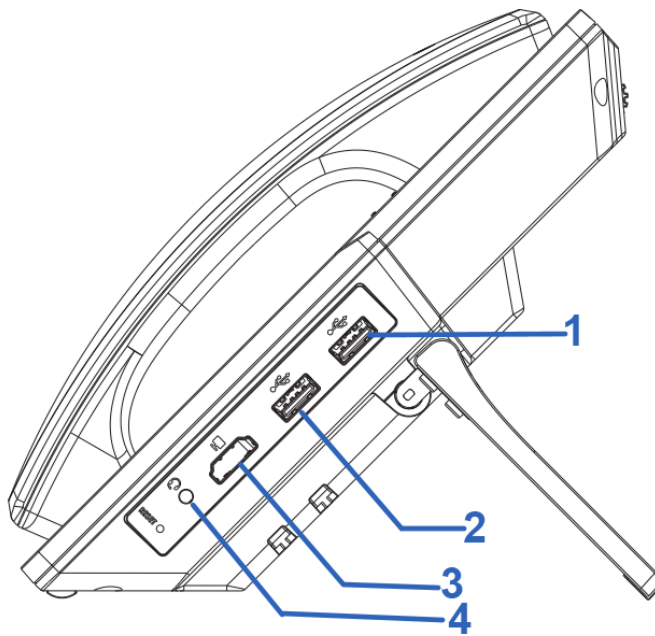


GXV3470

Item	Name	Description
1	Camera Adjusting Wheel	Scroll up/down to adjust the camera angle.
2	Phone Stand (built-in)	Adjust the phone stand angle to place the phone on the desk.
3	Headset Port	RJ9 headset connector port (supporting EHS with Plantronics headset).
4	Handset Port	RJ9 handset connector port.
5	LAN Port	10/100/1000Mbps RJ-45 port connecting to Ethernet. PoE/PoE+ is supported.
6	PC Port	10/100/1000Mbps RJ-45 port connecting to PC.
7	Power Jack	12V DC Power connector port.
8	Side Connectors Cover	USB 3.0 Port, USB 2.0 Port, HDMI Port, 3.5mm Headset Port.

GXV3470 Back View

o Side View



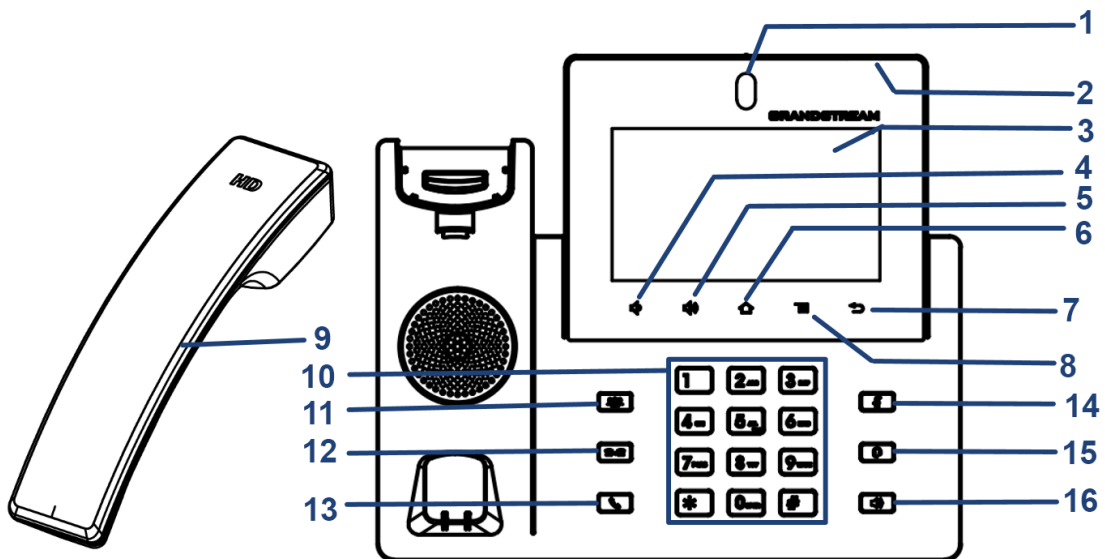
GXV3470 Side View

Item	Name	Description
1	USB 3.0 Port	Faster USB 3.0 port to storage as an example.
2	USB 2.0 Port	USB devices can be connected via the USB port. For example, connect a USB flash drive to save captured pictures.
3	HDMI Output Interface	Connect to HDMI input devices (e.g., TV).
4	3.5mm Headset Port	Connect 3.5mm headset.

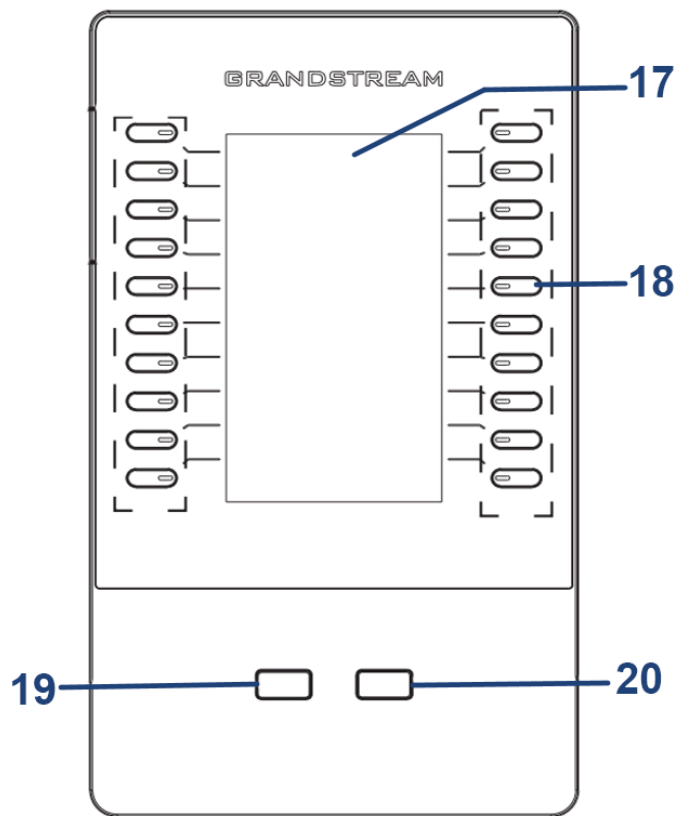
GXV3470 Side View

GXV3450

o **Front View**



GXV3450 Front View

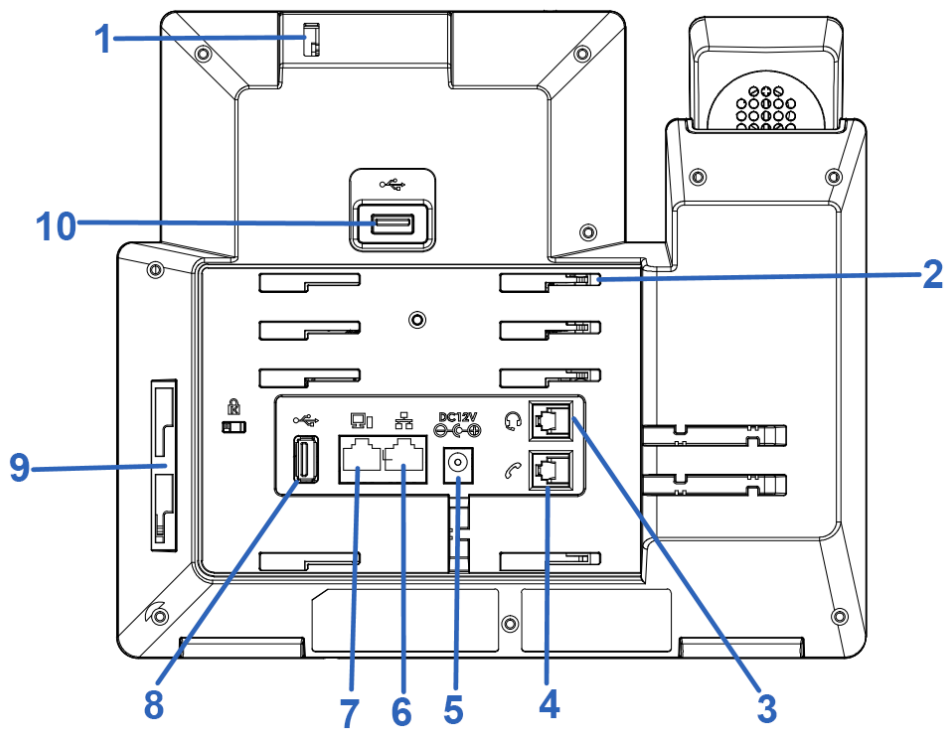


GXV3450 – GBX20 Extension Module Front

Item	Name	Description
1	Camera Adjusting Wheel	Scroll up/down to adjust the camera angle.
2	Phone Stand Slot	Put the phone stand from left to right into the slots.
3	Handset Port	RJ9 handset connector port.
4	Headset Port	RJ9 headset connector port (supporting EHS with Plantronics headset).
5	Power Jack	12V DC Power connector port.
6	LAN Port	10/100/1000Mbps RJ-45 port connecting to Ethernet. PoE/PoE+ is supported
7	PC Port	10/100/1000Mbps RJ-45 port connecting to PC.
8	USB Port 2.0	USB devices can be connected via the USB port. For example, connect a USB flash drive to save captured pictures.
9	Side GBX20 Connection Slot	The slots for connecting GXV3450 and GBX20.
10	USB 3.0	USB devices can be connected via the USB port. For example, connect a USB flash drive to save captured pictures.

GXV3450 Front View

o **Back View**



GXV3450 Back View

Item	Name	Description
1	Camera Adjusting Wheel	Scroll up/down to adjust the camera angle.
2	Phone Stand Slot	Put the phone stand from left to right into the slots.
3	Handset Port	RJ9 handset connector port.
4	Headset Port	RJ9 headset connector port (supporting EHS with Plantronics headset).
5	Power Jack	12V DC Power connector port.
6	LAN Port	10/100/1000Mbps RJ-45 port connecting to Ethernet. PoE/PoE+ is supported
7	PC Port	10/100/1000Mbps RJ-45 port connecting to PC.
8	USB Port 2.0	USB devices can be connected via the USB port. For example, connect a USB flash drive to save captured pictures.
9	Side GBX20 Connection Slot	The slots for connecting GXV3450 and GBX20.
10	USB 3.0	USB devices can be connected via the USB port. For example, connect a USB flash drive to save captured pictures.

GXV3450 Back View

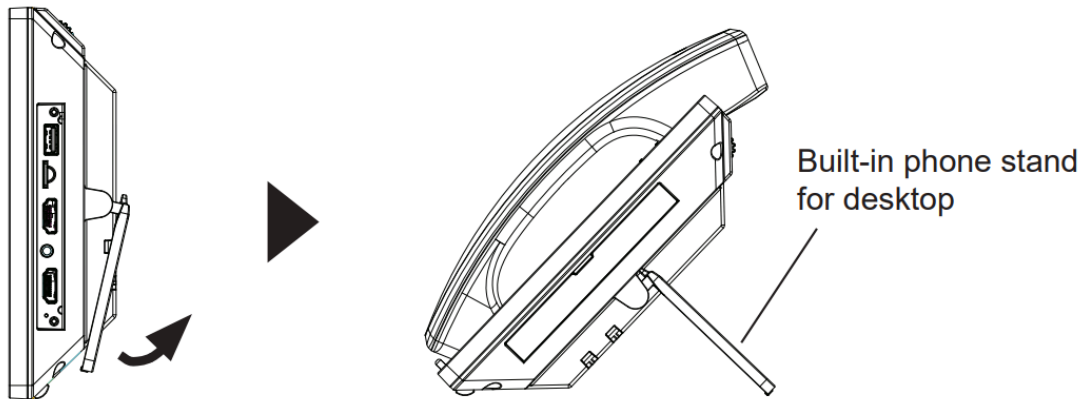
Connecting and Setting Up the GXV34x0

The GXV34x0 can be installed on the desktop using the built-in stand or attached on the wall using the slots for wall mounting.

Using the Phone Stand

- **GXV3480**

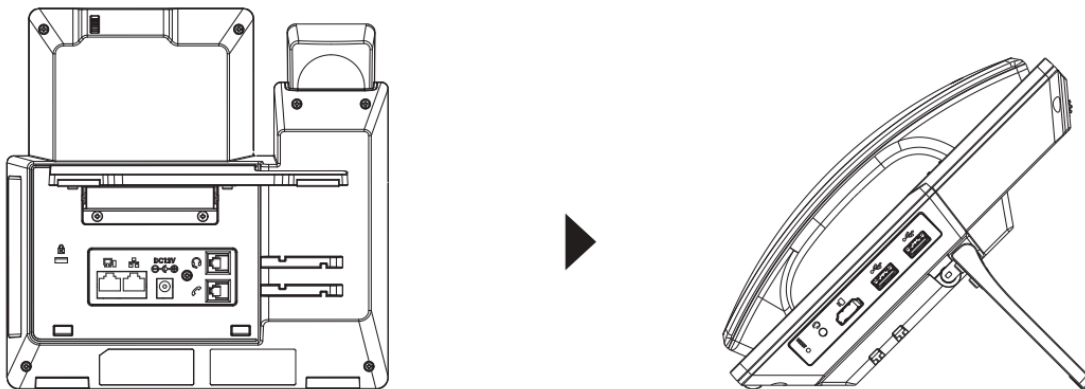
The GXV3380 has a built-in phone stand. To use it, pull out the phone stand handle on the back of the phone. Adjust the angle as preferred and make sure the phone stands still on the desktop. (see figure below).



GXV3480 Phone Stand

- **GXV3470**

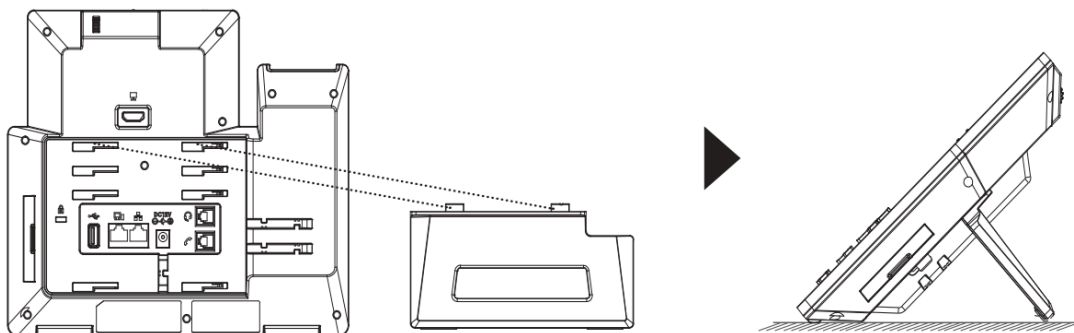
For installing the phone on the table with the phone stand, attach the phone stand by screwing the 4 screws on the upper half side using a Philips head screwdriver (see figure below).



GXV3470 Phone Stand

- **GXV3450**

For installing the phone on the table with the phone stand, attach the phone stand to the bottom of the phone where there is a slot for the phone stand, (upper half, bottom part).

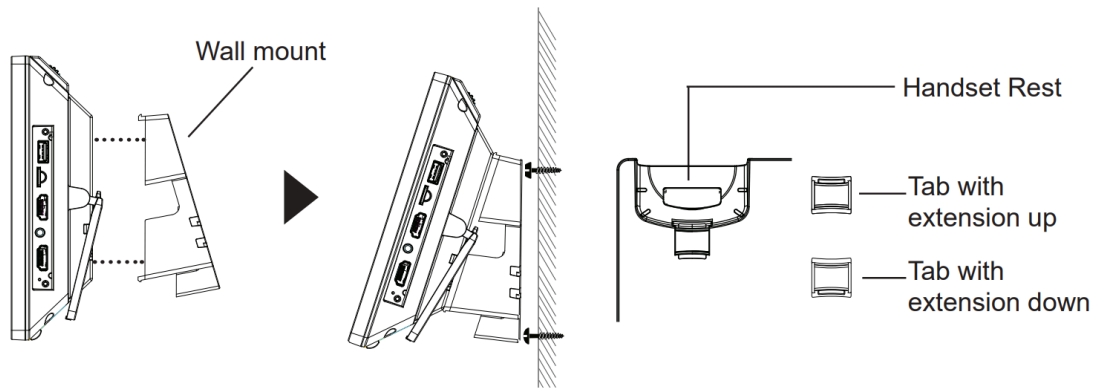


GXV3450 Phone Stand

Using the Slots for Wall Mounting

- **GXV3480**

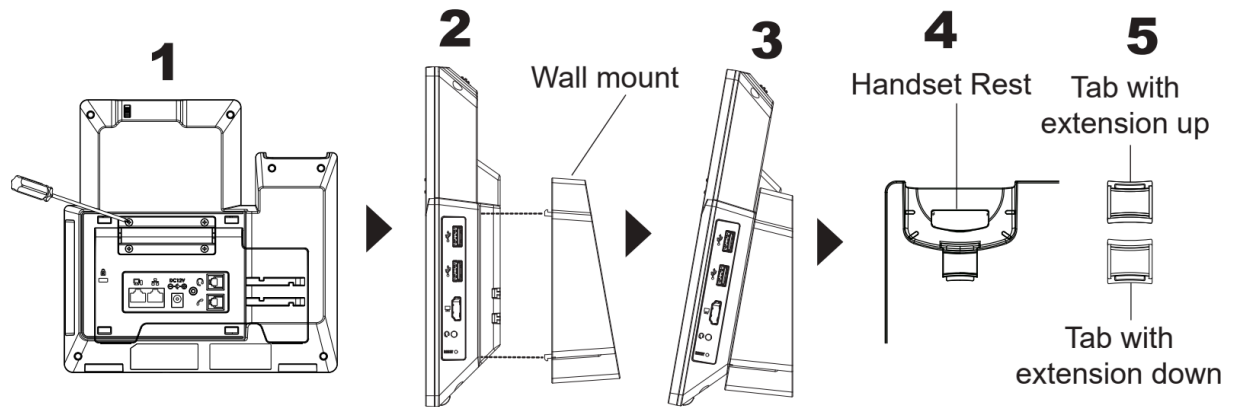
1. Attach the wall mount to the slots on the back of the phone;
2. Attach the phone to the wall via the wall mount hole;
3. Pull out the tab from the handset cradle (see figure below);
4. Rotate the tab and plug it back into the slot with the extension up to hold the handset while the phone is mounted on the wall.



GXV3480 Wall Mount

o **GXV3470**

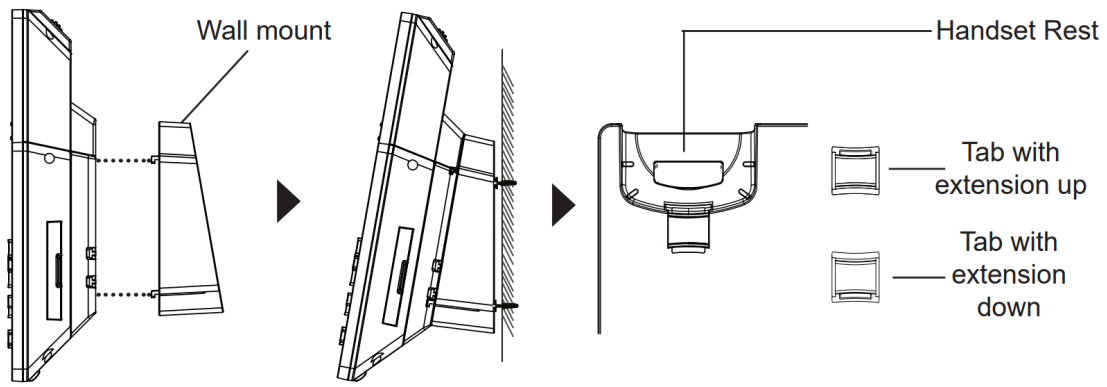
1. Remove the desktop bracket by unscrewing the 4 screws with a Philips head screwdriver.
2. Attach the wall mount to the slots on the back of the phone.
3. Attach the phone to the wall via the wall mount hole.
4. Pull out the tab from the handset cradle (see figure below).
5. Rotate the tab and plug it back into the slot with the extension up to hold the handset while the phone is mounted on the wall.



GXV3470 Wall Mount

o **GXV3450**

1. Attach the wall mount spacers to the slot for wall mount spacers on the back of the phone.
2. Attach the phone to the wall via the wall mount hole.
3. Pull out the tab from the handset cradle (see figure below).
4. Rotate the tab and plug it back into the slot with the extension up to hold the handset while the phone is mounted on the wall.

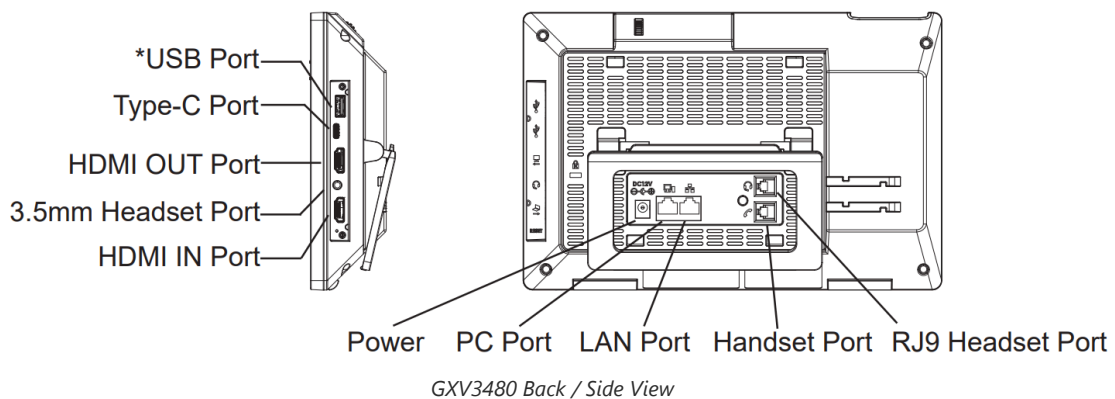


GXV3450 Wall Mount

Connecting the GXV34x0

To setup your GXV34x0, please follow the steps below:

1. Connect the handset and main phone case with the phone cord;
2. Connect the LAN port of the phone to the RJ-45 socket of a hub/switch or a router (LAN side of the router) using the Ethernet cable;
3. Connect the 12V DC output plug to the power jack on the phone; plug the power adapter into an electrical outlet. If PoE switch is used in step 2, this step could be skipped;
4. The LCD will display booting up or firmware upgrading information. Before continuing, please wait for the main screen display to show up;
5. Using the web configuration interface or from the menu of the touch screen, you can further configure network connection using static IP, DHCP etc.



GXV3480 Back / Side View

Note

USB, HDMI-in and HDMI-out will be disabled when using PoE, and enable if using power supply or PoE+

Cleaning the Phone

For daily dust removal and fingerprint removal, please use the screen cleaning cloth in the factory package to wipe the phone. For some special cases like medical environment, you can use medical alcohol or isopropanol. The steps are as followed:

1. Before cleaning the phone, stop using it and disconnect it from the power supply.
2. Spray a small amount of disinfectant on screen, camera, handle and other places that are easily touched by users.
3. Wipe the phone with screen cleaning cloth.
4. Power on until the disinfectant is completely volatilized.

Important

- Keep the power plug clean and dry, or may lead to electric shock or other perils.

- DO NOT use disinfectant too frequently.
- DO NOT use high degree or even pure disinfectant. It could damage the phone.



GXV34x0 LCD SETTINGS

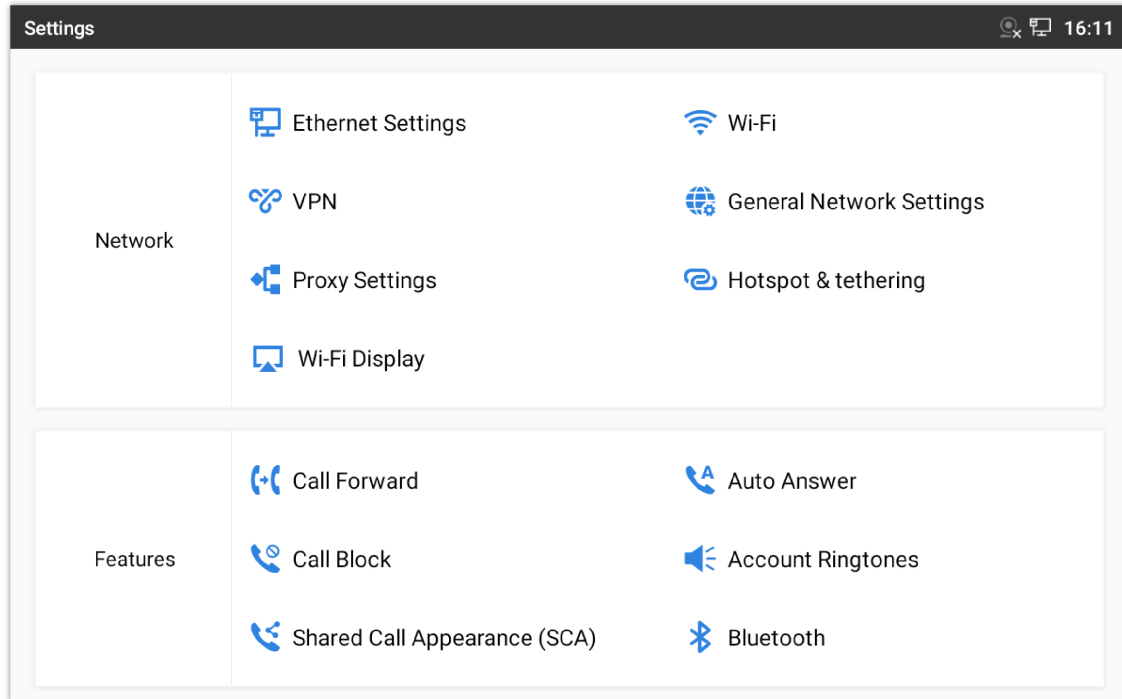
The GXV34x0 LCD MENU provides an easy access to the settings on the phone. Some of the settings from Web GUI could be configured via the LCD as well. The following table shows the LCD setting menu options.

Status	<ul style="list-style-type: none"> ● Account Status ● Network Status ● System Info ● Storage Status
Network	<ul style="list-style-type: none"> ● Ethernet Settings ● Wi-Fi ● VPN ● General Network Settings ● Proxy Settings ● Hotspot & tethering
Features	<ul style="list-style-type: none"> ● Call forward ● Auto Answer ● Call Block ● Account Ringtones ● Shared Call Appearance (SCA) ● Bluetooth ● Virtual Background ● Dynamic Lock
Basics	<ul style="list-style-type: none"> ● Sound ● Display ● Language & Keyboard ● Date & Time ● Security Settings ● Peripherals ● Accounts ● Power Information ● Accessibility ● Reboot the Phone
Apps	<ul style="list-style-type: none"> ● Application Management ● Default Application ● Notification Center
Advanced	<ul style="list-style-type: none"> ● Account Settings ● System Update ● Syslog ● System Security

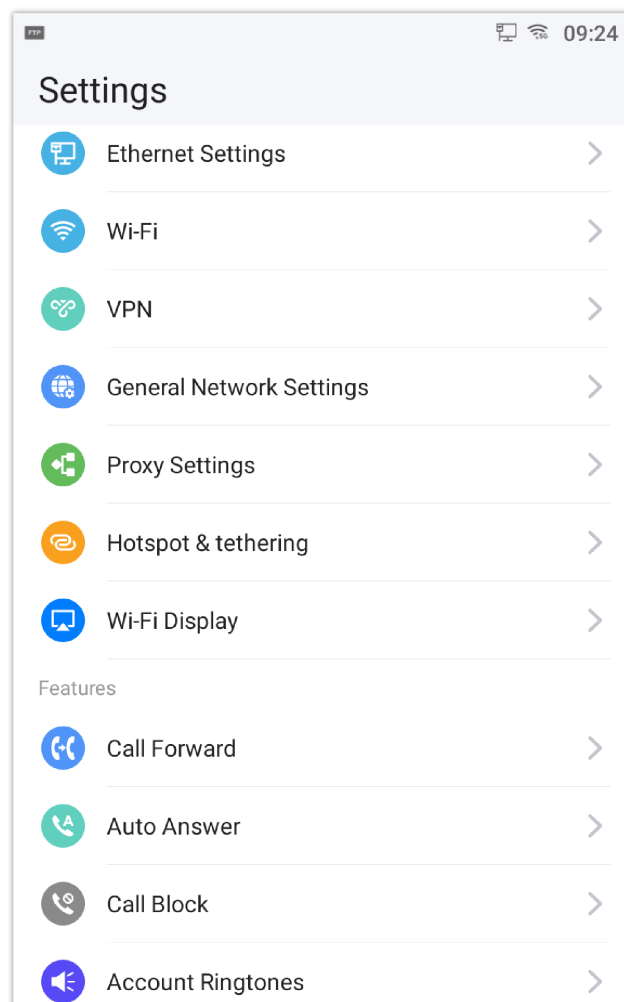
Access LCD Settings

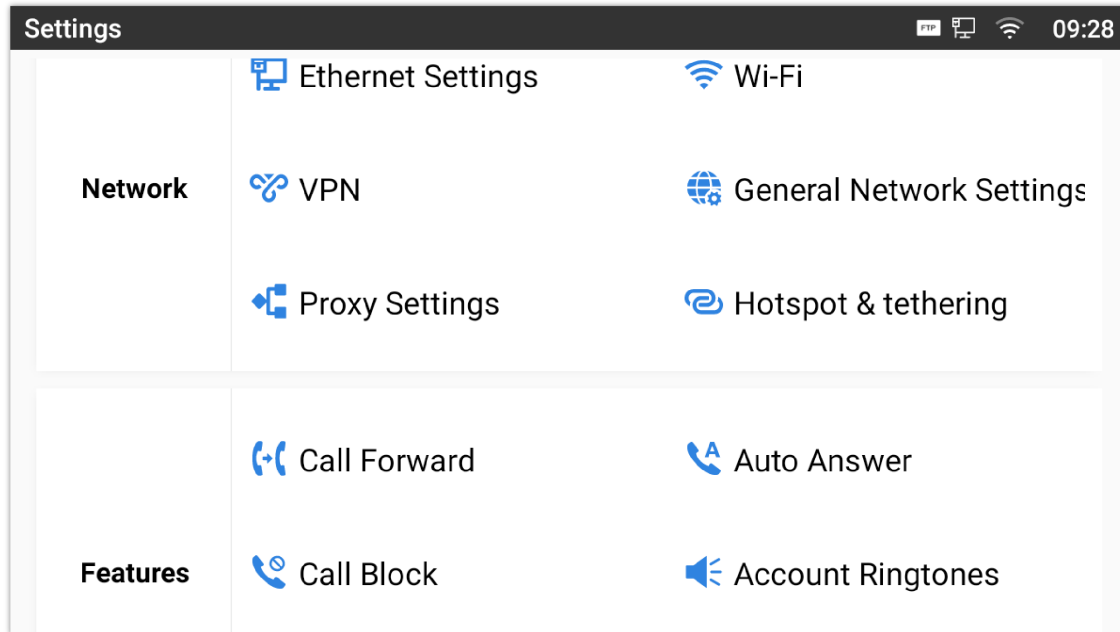
To open the settings menu, you should:

- Tap on  **Settings** app on the screen. Or;
- Swipe down from the top of the home screen to open the notifications panel and hit the  **Settings** icon in the top right corner.



GXV3480 System Settings





GXV3450 System Settings

Status

Account Status

This page displays all the available accounts on the phones with their respective status (Registered/Unregistered and Activated/Inactivated).

Network Status

This page displays Network status including IPv4/v6 address, subnet mask, gateway, DNS server...

System Info

This page shows system info including RAM Available Memory, Android Version, System Version, Hardware version ...

Storage Status

This page shows device storage status (Storage used and available Storage).

Network

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

Ethernet Settings

- **IP Mode:** Selects which Internet protocol to use. When both IPv4 and IPv6 are enabled, phone attempts to use preferred protocol first and switches to the other choice if it fails.
- **IPv4 Settings:** Here user can configure the IPv4 address Type. If **DHCP** is selected, the phone will get an IP address automatically from the DHCP server in the network. This is the default mode. If **Static IP** is selected, manually enter the information for IP Address, Subnet Mask, Default Gateway, DNS Server and Alternative DNS server. If **PPPoE** is selected, type PPPoE Account ID and PPPoE Password provided from the PPPoE server to get authenticated for network access.
- **IPv6 Settings:** Here user can configure the IPv6 address Type. If **Auto-configured** is selected, the phone will get an IP address automatically from the DHCP server in the network. This is the default mode. If **Static IP** is selected, manually enter the information for IP Address, Prefix Length, DNS Server and Alternative DNS server.

- **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 from the available modes: **EAP-MD5**, **EAP-TLS** and **EAP-PEAP**

Wi-Fi

- Tap on "**Wi-Fi**" to turn on/off Wi-Fi connection. By default, it's turned off.
- Tap on "**Wi-Fi Band**" to select the band, three options are available: **2.4G & 5G**, **2.4G** or **5G**
- Select the **Wi-Fi SSID** from the available list then enter the password to get connected, there are also options for a proxy or assigning a static IP.
- In case the **Wi-Fi SSID** is not showing up on the **Available WLAN List** or it's hidden, then scroll down to the bottom of the page and tap on **Add network**, then enter the name of the SSID and the password to connect.

VPN

Enable / Disable OpenVPN for Android.

Refer to the Network Settings/OpenVPN Settings section for advanced configuration on the web interface.

General Network Settings

◦ LLDP

Turn on/off LLDP on the GXV34x0. 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.

◦ LLDP TX Interval

Specifies the time interval, in seconds, between successive LLDP-MED transmission cycles

◦ Layer 3 SIP QoS

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 26.

◦ Layer 3 Audio QoS

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 46.

◦ Layer 3 Video QoS

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 34.

◦ Applied to the Second Layer of Data QoS 802.1Q/VLAN tag (Ethernet)

This field contains the value used for layer 2 VLAN tagging for the Ethernet network.

The Default value is 0.

◦ Applied to the Second Layer of Data QoS 802.1p Priority (Ethernet)

This assigns the priority value of the Layer 2 QoS packets on the Ethernet Network.

The Default value is 0.

Proxy Settings

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

Hotspot & tethering

The GXV34x0 phones can serve as a Wi-Fi access point for other devices to provide wireless access to the network if the Portable Wi-Fi hotspot is turned on.

1. Turn on hotspot by tapping on "Portable Wi-Fi hotspot". Icon  will show on the top status bar.
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 GXV34x0 hotspot and enter authentication information to get connected.

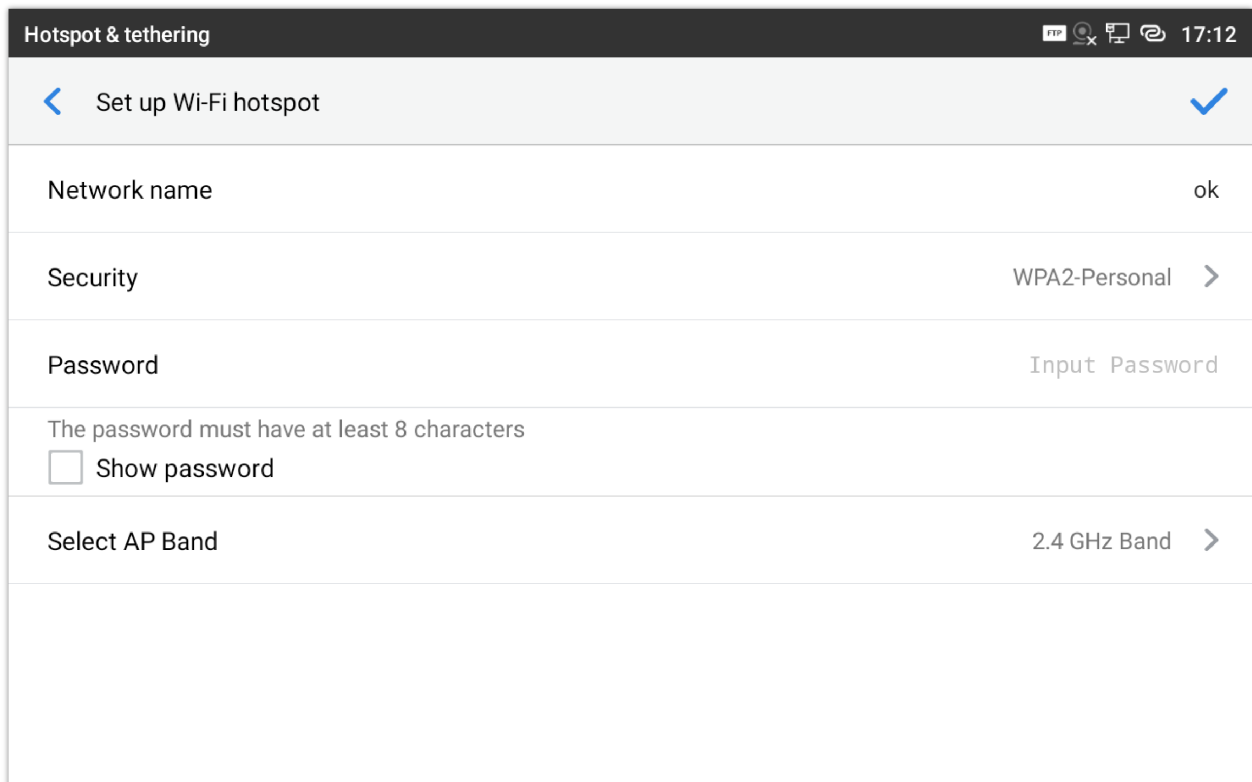


Figure 23: GXV34x0 Wi-Fi Hotspot

Wi-Fi Display

Wi-Fi Display allows mirroring the screen of GXV34x0 to any device that supports Wi-Fi display mirroring functionality for example like smart TVs...

Once enabled, it may affect the call quality under Wi-Fi network.

Wi-Fi Display is not supported on GXV3450.

Features

In this menu, users can configure different features related to each account of the active accounts:

Call Forward

The incoming call to a SIP account can be forwarded to another account using different rules.

Call Forward: Call forwarding feature is disabled. This is the default setting. Tap to activate.

Call Forward Type:

- **Unconditional:** Forward all calls to a number.
- **Time based:** Set the time range and number to be forwarded the calls 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:** Configure Call forward when the phone is Busy or on DND or based on No Answer Out.

Auto Answer

If Enabled and set to **"Always"**, the phone will automatically turn on the speaker phone to answer all incoming calls.

If enabled and 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.

Call Block

Blacklist: This menu allows configuring a black list of number that will be blocked from calling the phone, users can either enter the numbers to block manually, from contacts or from call history.

Block Anonymous Calls: when enabled the phone rejects all the anonymous calls, users can choose on which account this setting is to be applied

Account Ringtones

Select a ringtone for the incoming call to the SIP account chosen. The system ringtone is set by default.

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 retrieving 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".

Line-size Timeout (s): Configure the time for the line can be seized (in seconds) when using shared line. The default setting is 15 seconds. For Shared Call Appearance, phone will 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.

Bluetooth

Bluetooth: Tap on **"Bluetooth"** to turn on/off Bluetooth connection. By default, it's turned off.

Enable Handsfree Mode: Tap on **"Enable handsfree mode"** to activate it.


Show received files: Shows the Transfer history of Bluetooth files

Additional Settings: This menu is available only when the Bluetooth is enabled:

Device Name. Tap to change the name of the GXV34x0, which is displayed on other Bluetooth devices when discovered. By default, it's "GXV34x0_XXXXXX" where "XXXXXX" are the last 6 digits of the phone's MAC address plus 2, for e.g. If the phone's last 6 digits of MAC address is D33B4C, the Bluetooth's name would be GXV34x0_D33B4E.

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.

Visibility to nearby Bluetooth devices. Sets the visibility of the phone to other Bluetooth devices. Normally this option is enabled during pairing process so that other Bluetooth devices can discover the GXV34x0.

Available devices: This section will show the available devices for pairing. Tap on  to initiate scan process on the GXV34x0 to discover the Bluetooth devices within the range.

Virtual Background

This setting defines the virtual background that will be displayed by default when a video call is initiated.

Dynamic Lock

In this setting, the user enables a security feature called dynamic lock, this feature allows the GXV34xx phone to be automatically locked once the cellphone paired with the GXV34xx through bluetooth is out of range.



Basics

Sound

Use the Voice settings to configure the 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 an incoming call.
- **HDMI.** Only when plugging in HDMI cable. If enabled, the media channel will switch to HDMI.
- **Media Volume.** Adjust the sound volume for media audio
- **Alarm Volume.** Adjust the alarm ring volume
- **Ring Volume.** Adjust the phone ringing volume
- **Ringtone.** Select phone's ringtone for incoming call.
- **Default Notification Ringtone.** Select notification ringtone.
- **Default Alarm Ringtone.** Select the alarm ringtone
- **Other Sounds.** Enable/disable Dial pad tones, Screen Locking Sounds, Touch Sounds and Button Tones.

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 set the screensaver timeout interval.
- **Screensaver.**
 1. **Screensaver:** If screensaver is set, please tap on  to set use a network images or use local or images as screensaver and set the Animation Interval between the images.
 2. **Clock:** If the clock is set as screensaver, tap on  and set the clock style and the Night Mode
- **Font size.** Tap on it to adjust the font size for LCD screen.
- **Use Server Wallpaper:** Tap to activate Server Wallpaper.

- **Server Wallpaper Path:** set the wallpaper based on server.

Language & Keyboard

Language: Tap to open the list of chosen languages, Language Number 1 is the language used on the phone. Tap on Add a Language to add more languages to the list.

Keyboards: Set up default input method for on-screen and physical keyboard and the different parameters of the related to the Keyboard use. The default input method is Android Keyboard.

- **On-screen keyboard:**
 1. **Android keyboard (AOSP):** Set up the language used on Android keyboard and configure its different parameters including sound, auto-correction, word suggestion and so on.
 2. **Manage on-screen Keyboards.** Tap on the + sign to choose which keyboard to use on the phone.
- **Physical Keyboard:** When the physical keyboard is connected to the phone, users will have the possibility to choose a keyboard among the available ones on the virtual keyboard:
 1. **Use on-screen keyboard:** this option gives the possibility if keep showing the virtual keyboard even if the physical one is connected to the phone.
 2. **Keyboard shortcuts:** Display available shortcuts.


Tools:

- **Spell checker.** Configure whether to check spellings and select the language to check.
- **Autofill Service:** Select or Add a service for autofill (usernames, password...).
- **Personal dictionary.** Add new words to user's dictionary so that they won't be displayed as error in the text.
- **Pointer Speed:** Adjust the sensitivity of the mouse pointer.

Date & Time

- **Enable and use specified NTP server address.** Assign the URL or IP Address of NTP Server. The default NTP Server used is pool.ntp.org
- **Set date.** Set the current date.
- **Set time.** Set the time manually.
- **Select time zone.** Select the time zone.
- **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 p.m.
- **Select date format.** Select the format of year, month and day for the date to be displayed.

Security Settings

- **Device 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., screensaver screen activated, or manually slide down **Status Bar**→**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.
- **Privacy-Show passwords:** Check/uncheck to show/hide letters when user's type screen lock password instantly.
- **Device Admin-Device admin apps:** View or deactivate device administrators.
- **Credentials Storage**
 - **Trusted CA Credentials.** Display trusted CA certificates for system or user. Users can tap on the certificate to check the credential details or disable it.
 - **User Credentials.** View and modify stored credentials
- **Advanced**
 - **Trust Agents.** View or deactivate trust agent.

- **Apps with usage access.** Manage what apps have access to app-usage data on your device.

Peripherals

Plug in RJ9/EHS Headset. Switch the media channel to RJ9 headset after plugging in the corresponding port.

Accounts

Add a system account to synchronize contacts calendars and other information.

Power Information

PoE Power Supply notification. If enabled, the phone's system will display a notification of disabling USB, HDMI-in and HDMI-out when PoE is used. If disabled, the notification will not be shown.

PoE Power Supply Limitation. When enabled, the device would display a warning that it is powered by PoE, and using USB interface or Type-C interface will cause insufficient power supply and reboot.

Accessibility

Services: installed services will be listed here

System:

- **Magnification:** Android built in tool to magnify the screen with triple tap.
- **Autoclick (dwell timing):** works with a connected mouse. user can set the mouse cursor to click automatically when the cursor stops moving for a certain amount of time.
- **Speak passwords:** read out passwords using the in-built screen reader, Talkback. This makes is easier for users to fill in passwords.
- **Large mouse pointer:** makes the mouse pointer larger
- **Touch & hold delay:** select the touch and hold delay

Display:

- **Color inversion:** Tap to invert colors
- **Color correction:** allows to adjust how colors are displayed on the device

Reboot the Phone

Press to reboot the phone. A confirmation window will pop up to Cancel or go on with the reboot.

Apps

Application Management

Tap on an application, a process or a service to open it. The Application Info screen for each application lists its name, version, size, 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:

- Tap the **"Force stop"** softkey to stop an application forcefully. This setting might not be valid for some applications.
- Tap the **"Stop"** softkey to stop an application gracefully. This setting might not be valid for some applications.
- Tap 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.
- Tap the **"Uninstall"** softkey to uninstall the applications.

- **Storage** provides storage information that an application uses on the phone. Tap “Clear data” to delete an application setting and other data. This setting might valid for some applications. 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.
- “**Permissions**” lists information of the data that the app has access to. For example, the application might access the location information, storage, phone calls etc.
- “**Open by default**”. If the application is configured to launch certain file type by default, tap on “Clear defaults” to reset this.
- If an application is misbehaving, tap on “**Report**” softkey (if available) to send the developer information for the application.
- **Memory** will show the memories used on the phone by the applications
- **Modify System settings** gives the application the permission to modify the system settings
- **Store** provides Information about the Install source of the App

Note

Stopping a built-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.

Default Application

This page allows to set default applications to launch with certain actions. Default applications can be set for following actions:

- **Opening Links.** Select which application to use as default when clicking on a web link (browser); when opening a picture (gallery) or when opening a music file (music).
- **Assist & Voice Input.** Select a default application if previously installed.
- **Home app.** Select default launcher application if already installed.
- **Browser app.** Select default browser if more than one is installed.
- **Emergency app.** Select emergency default application if already installed.

Using GS Market, the user can install Google Play Store and access all the third party apps like Chrome, Firefox, Zoom etc ...

Notification Center

Tap on an application, process or service to open it. The notification Info screen for each application lists supported actions and allow user to activate/deactivate each notification. Following notifications can be configured (supported notifications depend on the applications):

- **Block all.**
- **Show silently.**

Advanced


Account Settings

Account Settings page allows to configure SIP settings for each account. Tap on Account# to access the settings, when configured press ✓ sign (on the top right corner) to confirm the changes, or press back button to cancel them. Users can press Empty configuration on the bottom of the page to clear all the settings. Following settings can be configured for each account. Refer to [Account/SIP/General Settings] for description of each option.

- **Account Activation.**
- **Account Name.**

- **SIP Server.**
- **SIP User ID.**
- **SIP Authentication ID.**
- **SIP Authentication Password.**
- **Outgoing Proxy Server.**
- **Voicemail access number.**
- **Outgoing call display name.**

System Update

This page allows to initiate upgrade process by checking if a new firmware is available in the configured firmware server path, and then upgrading if available. Users can press  **Settings** to configure Firmware/Provisioning settings directly from the phone's LCD. Following settings can be configured from this screen:

- **Firmware upgrade and configuration file detection.** This will send a request to firmware and provisioning server to upgrade/provision the phone if the files are available on the servers.
- **Firmware:**
 - **Upgrade Mode:** This field allows the user to choose the firmware upgrade method: TFTP, HTTP or HTTPS.
 - **HTTP/HTTPS username:** The user name for the HTTP/HTTPS server if set up on the server.
 - **HTTP/HTTPS password:** The password for the HTTP/HTTPS server if set up on the server.
 - **Firmware Server Path:** This defines the server path for the firmware server. It can be different from the configuration server for provisioning.
- **Config:**
 - **Upgrade mode:** This field allows the user to choose the provisioning method: TFTP, HTTP or HTTPS.
 - **HTTP/HTTPS username:** The user name for the HTTP/HTTPS server if set up on the server.
 - **HTTP/HTTPS password:** The password for the HTTP/HTTPS server if set up on the server.
 - **Config Server Path:** This defines the server path for the provisioning server. It can be different from the firmware server.

Syslog

- **Syslog level:** Select the level of logging for syslog. The default setting is "None". There are 4 levels: DEBUG, INFO, WARNING and ERROR.
- **System log protocol:** Select the protocol of syslog (UDP or SSL/TLS).
- **Syslog server address:** The URL/IP address for the syslog server. If the GXV34x0 has network connection, the phone will send the syslog packets to this server address.
- **System log keyword filter:** Only send the syslog with keyword, multiple keywords are separated by comma. Example: set the filter keyword to "SIP" to filter SIP log.

System Security

- **Disable Web Login:** This disables web GUI access.
- **Developer Mode.** To enable/disable developer mode.
- **Revoke debugging authorizations.** To Revoke access to debugging from all computers previously authorized.
- **Factory Reset.** Restore default settings.

Note

Developer Mode needs admin password to be enabled.

GXV34x0 WEB GUI SETTINGS

The GXV34x0 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.

Status Page Definitions

Status/Account Status

Account	16 SIP accounts on the phone.
SIP User ID	SIP User ID for the account.
SIP Server	URL or IP address, and port of the SIP server. Note: this parameter also supports domain string such as "grandstream".
Status	Registration status for the SIP account.
GS Wave	Users can click "Enter" button to open GS Wave web page.

Status/Account Status

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.
NAT Type	Type of NAT connection used by the phone.
IPv4	
IPv4 Address Type	Configured address type: DHCP, Static IP or PPPoE.
IPv4 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.
IPv6	
IPv6 Address Type	Configured address type: DHCP, Static IP or PPPoE.
IPv6 Address	IPv6 address of the phone.
IPv6 Gateway	IPv6 gateway of the device.
IPv6 DNS Server 1	IPv6 DNS Server 1 of the phone.
IPv6 DNS Server 2	IPv6 DNS Server 2 of the phone.

Status/Network Status

Status/System Info

Product Model	Product model of the phone
Hardware Version	Hardware version number.
Part Number	Product part number.

Serial Number	Serial Number of the phone.
System Version	Firmware version ID. This is the main software release version, which is used to identify the software system of the phone.
Boot Version	Booting code version
Kernel Version	The kernel version
CPE Version	The CPE version
Device Individual Certificate	Device Individual Certificate of the device.
System Up Time	System up time since the last reboot.

Status/System Info

Account Page Definitions

GXV34x0 phones has 16 lines that can be configured to accommodate 16 independent SIP accounts. Each account has an individual configuration page.

Note

GXV34xx Model's account settings have been improved with a Save and Apply button in firmware version 1.0.1.16

Account/General Settings

Account Registration	
Account Active	Indicates whether the account is active. The default value for the first account is "Yes".
Account Name	Configures the name associated with each account to be displayed on the LCD.
SIP Server	Specifies the URL or IP address, and port of the SIP server. This should be provided by VoIP service provider (ITSP).
SIP User ID	Configures 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	Configures the SIP service subscriber's Authenticate ID used for authentication. It can be identical to or different from the SIP User ID.
SIP Authentication Password	Configures the account password required for the phone to authenticate with the ITSP (SIP) server before the account can be registered. After saving, it will appear as hidden for security purpose.

Display Name	Specifies the SIP server subscriber's name (optional) that will be used for Caller ID display. The configured content will be included in the From, Contact and P-Preferred-Identity headers of SIP INVITE message.
Tel URI	<p>Indicates E.164 number in "From" header by adding "User=Phone" parameter or using "Tel:" in SIP packets, if the phone has an assigned PSTN Number.</p> <ul style="list-style-type: none"> o Disabled: Will use "SIP User ID" information in the Request-Line and "From" header. o User=Phone: "User=Phone" parameter will be attached to the Request-Line and "From" header in the SIP request to indicate the E.164 number. If set to "Enable". o Enabled: "Tel:" will be used instead of "sip:" in the SIP request. <p><i>Please consult your carrier before changing this parameter. Default is "Disabled".</i></p>
Voice Mail Access Number	Sets if the phone system allows users to access the voice messages by pressing the MESSAGE key on the phone. This ID is usually the VM portal access number. For example, in UCM6xxx IPPBX, *97 could be used.
Network Settings	

Outbound Proxy	Configures the IP address or the 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	Sets IP address or domain name of the secondary outbound proxy, media gateway or session border controller. The phone system will try to connect the Secondary outbound proxy only if the primary outbound proxy fails.
DNS Mode	<p>Defines which DNS service will be used to lookup IP address for SIP server's hostname. There are three modes:</p> <ul style="list-style-type: none"> o A Record o SRV o NATPTR/SRV <p>To locate the server by DNS SRV set this option to "SRV" or "NATPTR/SRV". Default setting is "A Record".</p>
Maximum Number Of SIP Request Retries	<p>This setting configures the maximum number of retries for the device to send requests to the server. In DNS SRV configuration, if the destination address does not respond, all request messages are resent to the same address according to the configured retry times.</p> <p><i>Valid range: 1-10.</i></p>

DNS SRV Failover Mode	<p>Configures the preferred method for DNS SRV failover. There are Three DNS SRV Failover mode:</p> <ul style="list-style-type: none"> o If "Default" is selected, the primary SIP server or Outbound Proxy will always be attempted first for all REGISTER and INVITE requests. o If "Use current server until DNS TTL" is selected, the device will send all SIP messages to the current failover SIP server or Outbound Proxy until DNS times out. o If "Use current server until no response" is selected, the device will send all SIP messages to the current failover SIP server or Outbound Proxy until there is no response. o If "Failback follows failback expiration timer" is selected, the device will send all SIP messages to the current failover SIP server or Outbound Proxy until the failback timer expires.
Failback Expiration(m)	<p>This option is configured when DNS SRV failover mode "Failback follows failback expiration timer" is chosen. It specifies the duration (in minutes) since failover to the current SIP server or Outbound Proxy before making failback attempts to the primary SIP server or Outbound Proxy.</p> <p><i>Valid range: 1 – 64800</i></p>
Register Before DNS SRV Fail-over	<p>To set register before DNS SRV Fail-over.</p> <p><i>The default value is "Yes"</i></p>

NAT Traversal	<p>Specifies which NAT traversal mechanism will be enabled on the phone system. It can be selected from the dropdown list:</p> <ul style="list-style-type: none"> o NAT NO o STUN o Keep-alive o UPnP o Auto o OpenVPN® <p>If the outbound proxy is configured and used, it can be set to "NAT NO".</p> <p>If set to "STUN" and STUN server is configured, the phone system will periodically send STUN message to the SUTN server to get the public IP address of its NAT environment and keep the NAT port open. STUN will not work if the NAT is symmetric type.</p> <p>If set to "Keep-alive", the phone system will send the STUN packets to maintain the connection that is first established during registration of the phone. The "Keep-alive" packets will fool the NAT device into keeping the connection open and this allows the host server to send SIP requests directly to the registered phone.</p> <p>If it needs to use OpenVPN to connect host server, it needs to set it to "VPN". If the firewall and the SIP device behind the firewall are both able to use UPnP, it can be set to "UPnP". The both parties will negotiate to use which port to allow SIP through. The default setting is "Keep-alive".</p>
Proxy-Require	<p>Adds the Proxy-Required header in the SIP message. It is used to indicate proxy-sensitive features that must be supported by the proxy. Do not configure this parameter unless this feature is supported on the SIP server.</p>

Account/SIP/General Settings

Account/SIP Settings

SIP Basic Settings	
SIP Registration	<p>Allows the phone system to send SIP REGISTER messages to the proxy/server. <i>The default setting is "Yes".</i></p>
Unregister before New Registration	<p>Controls whether to clear SIP user's information by sending un-register request to the proxy server.</p> <ul style="list-style-type: none"> o When set to "All", the un-registration is performed by sending a REGISTER message with "Contact" header set to * and Expires=0 parameters to the SIP server when the phone starts pre-registration after rebooting. o If set to "Instance", the phone only cleans the current SIP user's info by sending REGISTER message with "Contact" header set to concerned SIP user's info and Expires=0 parameters to the SIP server. <p><i>The default setting is "Instance".</i></p>
Register Expiration (m)	<p>Configures the time period (in minutes) in which the phone refreshes its registration with the specified registrar. The default setting is 60. <i>The maximum value is 64800 (about 45 days).</i></p>
Subscribe Expiration (m)	<p>Specifies the frequency (in minutes) in which the phone refreshes its subscription with the specified registrar. The maximum value is 64800 (about 45 days). <i>Default value is 60.</i></p>
Re-register before Expiration (s)	<p>Specifies the time frequency (in seconds) that the phone sends re-registration request before the Register Expiration. The default setting is 0. <i>The range is from 0 to 64,800.</i></p>

Registration Retry Wait Time (s)	Configures the time period (in seconds) in which the phone will retry the registration process in the event that is failed. The default setting is 20. <i>The maximum value is 3600 (1 hour).</i>
Add Auth Header on Initial REGISTER	Configure if the SIP account needs to add Auth header in RE-REGISTER. <ul style="list-style-type: none"> ◦ If the option is checked, device will always add authentication header in REGISTER. ◦ If the option is unchecked, device will only send authentication for the first REGISTER.
Enable SIP OPTIONS Keep Alive	Enables SIP OPTIONS to track account registration status so the phone will send periodic OPTIONS message to server to track the connection status with the server. <i>The default setting is "No".</i>
SIP OPTIONS Keep Alive Interval (s)	Configures the time interval when the phone sends OPTIONS message to SIP server. The default setting is 30 seconds, which means the phone will send an OPTIONS message to the server every 30 seconds. <i>The default range is 1-64800.</i>
SIP OPTIONS Keep Alive Maximum Tries	Configures the maximum times of sending OPTIONS message consistently from the phone to server. Phone will keep sending OPTIONS messages until it receives response from SIP server. The default setting is "3", which means when the phone sends OPTIONS message for 3 times, and SIP server does not respond this message, the phone will send RE-REGISTER message to register again. <i>The valid range is 3-10.</i>
Subscribe for MWI	Configures the phone system to subscribe voice message service. If it is set to "Yes", the phone system will periodically send SIP SUBSCRIBE message for Message Waiting Indication service. GXV3480 phone system supports both synchronized and non-synchronized MWI. <i>The default setting is "No".</i>
Use Privacy Header	Determines if the Privacy header will be presented in the SIP INVITE message and if it includes the caller info in this header. If it is set to "Default", the Privacy Header will be omitted in INVITE when "Huawei IMS" special feature is active. If set to "Yes", it will always be presented. If set to "No", it will always be omitted. <i>The default setting is "Default".</i>
Use P-Preferred-Identity Header	Specifies if the P-Preferred-Identity Header will be presented in the SIP INVITE message. If set to "default", the P-Preferred-Identity Header will be omitted in SIP INVITE message when "Huawei IMS" special feature is active. If set to "Yes", the P-Preferred-Identity Header will always be presented. If set to "No", it will be omitted. <i>The default setting is "Default".</i>
Use P-Access-Network-Info Header	Enables/disables the use of P-Access-Network-Info header in SIP request. When disabled, the SIP message sent from the phone will not include the selected header. <i>Default setting is "No".</i>
Use P-Emergency-Info Header	Enables/disables the use of P-Emergency-Info header in SIP request. When disabled, the SIP message sent from the phone will not include the selected header. <i>Default setting is "No".</i>
Use Mac Header	<ul style="list-style-type: none"> ◦ If Yes, the SIP message for register or unregister will contains MAC address in the header, and all the outgoing SIP message including REGISTER will attach the MAC address to the User-Agent header; ◦ If No, neither will the MAC header be included in the register or unregister message nor the MAC address be attached to the User-Agent header for any outgoing SIP message.
Add MAC in User-Agent	Configures whether to add MAC address in User-agent header. If set to "No", all outgoing SIP messages will not attach MAC address to the User-agent header. If set to "Yes except REGISTER", all outgoing SIP messages except REGISTER message will attach the MAC address to the User-agent header. If set to "Yes to All SIP", all outgoing SIP messages including REGISTER message will attach MAC address to the User-agent header.
SIP Transport	Determines which network protocol will be used to transport the SIP message. It can be selected from TCP/UDP/TLS. <i>Default setting is "UDP".</i>

Local SIP Port	Determines 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. <i>The valid range is from 5 to 65535.</i>
SIP URI Scheme When Using TLS	Defines which SIP header, "sip" or "sips", will be used if TLS is selected for SIP Transport. <i>The default setting is "sip".</i>
Use Actual Ephemeral Port in Contact with TCP/TLS	Determines the port information in the Via header and Contact header of SIP message when the phone system use TCP or TLS. 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. <i>The default setting is "No".</i>
Support SIP Instance ID	Determines if the phone system will send SIP Instance ID. The SIP instance ID is used to uniquely identify the device. If set to "Yes", the SIP Register message Contact header will include +sip.instance tag. <i>The default setting is "Yes".</i>
SIP T1 Timeout	Defines an estimate of the round-trip time of transactions between a client and server. If no response is received in T1, the figure will increase to 2*T1 and then 4*T1. The request re-transmit retries would continue until a maximum amount of time define by T2. <i>The default setting is 0.5 sec.</i>
SIP T2 Interval	Specifies the maximum retransmit time of any SIP request messages (excluding the SIP INVITE message). The re-transmitting and doubling of T1 continues until it reaches the T2 value. <i>The default setting is 4 sec.</i>
SIP Timer D Interval	Defines the amount of time that the server transaction can remain when unreliable response (3xx-6xx) received. The valid value is 0-64 seconds. <i>The default value is 0.</i>
Remove OBP from Route	Configures the phone system to remove the outbound proxy URI from the Route header. This is used for the SIP Extension to notify the SIP server that the device is behind a NAT/Firewall, the user can choose to set the option to "Enabled", "Disabled", and "Always" If it is set to "Enabled", it will remove the Route header from SIP requests. <i>The default setting is "Disabled".</i> Note: "Enabled" works for unknown NAT and other NAT networks. "Always" works for all kinds of networks.
Enable 100rel	Activates PRACK (Provisional Acknowledgment) method. PRACK improves the network reliability by adding an acknowledgement system to the provisional Responses (1xx). It is set to "Yes", the phone system will response to the 1xx response from the remote party. <i>Default is "No".</i>
Use route set in NOTIFY (Follow RFC 6665)	Configures whether to use route set in NOTIFY (follow RFC 6665). If enabled, the Request URI of the refresh/cancel subscription will use the URI in the received NOTIFY Contact (RFC 6665); otherwise, the URI in the previously subscribed 200 OK Contact will be used.
Session Timer	
Enable Session Timer	Allows the phone system to use the session timer, when set to "Yes", it will be added in the SIP INVITE message to notify the server.
Session Expiration (s)	Configures the phone system's SIP session timer. It 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. <i>The default setting is 180. The valid range is from 90 to 64800.</i>
Min-SE (s)	Determines the minimum session expiration timer (in seconds) if the phone act as a timer refresher. <i>The default setting is 90. The valid range is from 90 to 64800.</i>

UAC Specify Refresher	<p>Sets which party will refresh the active session if the phone makes outbound calls. If it is set to "UAC" and the remote party does not support Refresher feature, the phone system will refresh the active session.</p> <p>If it is set to "UAS", the remote party will refresh it. If it is set to "Omit", the header will be omitted so that it can be selected by the negotiation mechanism. The default setting is "Omit".</p>
UAS Specify Refresher	<p>Specifies which party will refresh the active session if the phone receives inbound calls. If it is set to "UAC", the remote party will refresh the active session. If it is set to "UAS" and the remote party does not support refresh feature, the phone system will refresh it.</p> <p><i>The default setting is "UAC".</i></p>
Caller Request Timer	<p>Sets the caller party to act as refresher by force. If set to "Yes" and both party support session timers, the phone will enable the session timer feature when it makes outbound calls. The SIP INVITE will include the content "refresher=uac".</p> <p><i>The default setting is "No".</i></p>
Callee Request Timer	<p>Sets the callee party to act as refresher by force. If set to "Yes" and the both parties support session timers, the phone will enable the session timer feature when it receives inbound calls. The SIP 200 OK will include the content "refresher=uas".</p> <p><i>The default setting is "No".</i></p>
Force Timer	<p>Configures the session timer feature on the phone system by force.</p> <ul style="list-style-type: none"> o If it is set to "Yes", the phone will use the session timer even if the remote party does not support this feature. o If 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". <p><i>The default setting is "No".</i></p>
Force INVITE	<p>Sets the SIP message type for refresh the session. If it is set to "Yes", the Session Timer will be refreshed by using the SIP INVITE message. Otherwise, the phone system will use the SIP UPDATE or SIP OPTIONS message. <i>Default is "No".</i></p>

Account/SIP/SIP Settings

Account/Codec Settings

Preferred Audio Codec	
Preferred Audio Codec	<p>Lists the available and enabled Audio codecs for this account. Users can enable the specific audio codecs by moving them to the selected box and set them with a priority order from top to bottom. This configuration will be included with the same preference order in the SIP SDP message.</p> <p>The supported audio codecs are:</p> <ul style="list-style-type: none"> G.722 PCMU PCMA G729A/B G726-32 iLBC Opus G.722.1 G.722.1C
Codec Negotiation Priority	<p>Configures the phone to use which codec sequence to negotiate as the callee. When set to "Caller", the phone negotiates by SDP codec sequence from received SIP Invite; When set to "Callee", the phone negotiates by audio codec sequence on the phone. The default setting is "Callee".</p>

Use First Matching Vocoder in 2000K SDP	Configures the phone to use the first matching codec in the 2000K message. <i>The default value is 0.</i>
ILBC Frame Size	Sets the ILBC (Internet Low Bitrate Codec) frame size if ILBC is used. Users can select it from 20ms or 30ms. <i>The default setting is 30ms.</i>
G726-32 ITU Payload	Configures G726-32 payload type for ITU packing mode. Payload 2 is static and payload dynamic is dynamic. <i>The default setting is "2".</i>
G726-32 Dynamic PT	Specifies the G726-32 payload type, and the valid range is 96 to 126. <i>The default setting is "126".</i>
Opus Payload Type	Defines the desired value (96-126) for the payload type of the Opus codec. <i>The default value is 123.</i>
DTMF	Specifies the mechanism to transmit DTMF (Dual Tone Multi-Frequency) signals. There are 3 supported modes: in audio, RFC2833, or SIP INFO. <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 uses SIP INFO to carry DTMF. The defect of this mode is that it's easily to cause desynchronized of DTMF and media packet if the SIP and RTP messages are required to transmitted respectively. <i>The default setting is "RFC2833".</i>
DTMF Payload Type	Configures the RTP payload type that indicates the transmitted packet contains DTMF digits. Valid range is from 96 to 126. <i>Default value is 101.</i>
Enable Audio RED with FEC	If set to "Yes", FEC will be enabled for audio call. <i>The default setting is "No".</i>
Audio FEC Payload Type	Configures audio FEC payload type. The valid range is from 96 to 126. <i>The default value is 121.</i>
Audio RED Payload Type	Configures audio RED payload type. The valid range is from 96 to 126. <i>The default value is 124.</i>
Silence Suppression	Enables the silence suppression/VAD feature. If it is 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. <i>If set to "No", this feature is disabled. The default setting is "No".</i>
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. <i>The default setting is 2.</i>
Preferred Video Codec	
Preferred Video Codec	Lists the available and enabled Video codecs for this account. Users can enable the specific video codecs by moving them to the selected box and set them with a priority order from top to bottom. This configuration will be included with the same preference order in the SIP SDP message. The supported video codecs are:

	<ul style="list-style-type: none"> • VP8 • H.264
Enable Video FEC	<p>When enabled, the video sender will temporarily allocate part of the bandwidth to one data channel to send FEC data to system, thus to improve the video quality the receiver gets. Enabling this function will take up part of bandwidth and reduce call rate.</p> <p><i>The default setting is "Yes".</i></p>
Enable RFC5168 Support	<p>Enables/disables RFC5168 mechanism for video calls. RFC5168 allows SIP party to request the sender to refresh its video frame in H.264, or refresh the full picture in VP8.</p> <p><i>The default setting is "Yes".</i></p>
Video FEC Mode	<p>If set to 0, FEC is not sent by separate port. If set 1, FEC is sent by separate port.</p> <p><i>Default setting is 0.</i></p>
FEC Payload Type	<p>Configures FEC payload type. The range is 96-126. Default setting is 120.</p>
Packetization Mode	<p>Set video packetization mode. If set to "Single NAL Unit Mode", the packetization mode will be negotiated as single NAL unit mode when dial video calls, if the other party does not support the negotiation, then single NAL unit mode will be used for video encoding by default. If set to "Non-Interleaved Mode", the packetization mode will be negotiated as Non-interleaved mode when dial video calls, If the other party does not support negotiation, then the Non-interleaved mode will be used for for video encoding by default; If set to "Prefer Non-Interleaved Mode", the packetization mode will be negotiated as prefer Non-interleaved mode when dial video calls, if the other party does not support the negotiation, then prefer Non-interleaved mode will be used for video encoding by default.</p>
H.264 Image Size	<p>Sets the H.264 image size. It can be selected from the dropdown list.</p> <p>720P</p> <ul style="list-style-type: none"> • 720P • 4CIF • VGA • CIF • QVGA • QCIF <p>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. The default setting is 720P.</p>
Use H.264 Constrained Profiles	<p>Configures that whether to set H.264 constrained profiles.</p> <p><i>The default setting is "No".</i></p>
H.264 Profile Type	<p>Selects the H.264 profile type from the dropdown list.</p> <ul style="list-style-type: none"> • Baseline Profile • Main Profile • High Profile • BP/MP/HP (Default Setting) <p>Note: 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.</p>
Video Bit Rate	<p>Configures the bit rate for video call. It can be selected from the dropdown list. The default setting is 2048 kbps. The valid range is from 32 – 2048 kbps.</p> <p>Note: 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. For some network environment, the default setting "720P" might be too high that causes no video or video quality issue during video call. In</p>

	<p>this case, please change "H.264 Image Size" to "VGA" or "CIF" and change "Video Bit Rate" to "384kbps" or lower.</p>
SDP Bandwidth Attribute	<p>Sets the SDP bandwidth attribute. It can be selected from the drop-down list. The default setting is "Media Level".</p> <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. ● None: no modifications in the session format. <p>Note: <i>Please do not modify this setting without knowing the session format supported by the server. Otherwise, it might cause video decoding failure.</i></p>
H.264 Payload Type	<p>Specifies the H.264 codec message payload type format. The default setting is 99. <i>The valid range is from 96 to 127.</i></p>
Presentation Settings	
Packet Retransmission	<p>If set to "NACK", the signaling will carry NACK info. After negotiation, the media will use NACK to retransmit lost packets. If set to "NACK+RTX (SSRC-GROUP)", the signaling will carry both NACK and RTX info. After negotiation, the media will use NACK+RTX (SSRC-GROUP) to achieve packet loss retransmission. If set to "Disabled", packet loss retransmission cannot be used. The Default setting is "NACK+RTX (SSRC-GROUP)".</p>
Enable BFCP	<p>If set to "Yes", the device will be able to receive the presentation stream in video calls and video meetings.</p>
Initial INVITE with Media Info	<p>Initial INVITE SDP contains presentation media.</p>
Presentation H.264 Image Size	<p>Selects the H.264 image size. Users can select 1080P or 720P.</p>
Presentation H.264 Profile Type	<p>Select the Presentation H.264 Profile Type from "Baseline Profile", "Main Profile", "High Profile" and "BP&MP&HP". The default setting is "BP&MP&HP".</p> <p>The lower the profile type is, the easier the packet can be decoded. However, higher level has high compression ratio. For device with low CPU, select "Baseline Profile" to play record; "Baseline Profile" is more likely to be used in a video conference that has high demanding for the video quality. Select among the three types to achieve best video effect.</p>
Presentation Video Bit Rate	<p>Configures the bit rate of the video. 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. Video Bit Rate can be set to integer value from 512kbps to 2048kbps.</p>
Presentation Video Frame Rate	<p>Configure the video frame rate for presentation.</p>
BFCP Transport Protocol	<p>Defines the transport protocol used for BFCP. Users can choose from Auto/UDP/TCP. The default setting is "UDP" first, if not supported, then choose "TCP". If choose "Auto", automatically switches between "UDP" and "TCP".</p>
RTP Settings	
S RTP Mode	<p>Sets if the phone system will enable the S RTP (Secured RTP) mode. It can be selected from dropdown list:</p> <ul style="list-style-type: none"> ● Disable ● Enabled but not forced ● Enabled and forced

	SRTP uses encryption and authentication to minimize the risk of denial of service. (DoS). If the server allows to use both RTP and SRTP, it should be configured as "Enabled but not forced". The default setting is "Disable".
SRTP Key Length	<p>Configures all the AES (Advanced Encryption Standard) key size within SRTP. It can be selected from dropdown list:</p> <ul style="list-style-type: none"> • AES128 & 256 bit • AES 128 bit • AES 256 bit <p>If it is set to "AES 128 & 256 bit", the phone system will provide both AES 128 and 256 cipher suite for SRTP. If set to "AES 128 bit", it only provides 128-bit cipher suite; if set to "AES 256 bit", it only provides 256-bit cipher suite. The default setting is "AES128&256 bit".</p>
Enable SRTP Key Lifetime	Defines the SRTP key lifetime. When this option is set to be enabled, during the SRTP call, the SRTP key will be valid within 231 SIP packets, and phone will renew the SRTP key after this limitation. Default is "Yes".
RTCP Destination	Configures a remote server URI where the RTCP messages will be sent to during an active call.
Symmetric RTP	Configures if the phone system enables the symmetric RTP mechanism. If it is set to "Yes", the phone system will use the same socket/port for sending and receiving the RTP messages. The default setting is "No".
RTP IP Filter	Receives the RTP packets from the specified IP address and Port by communication protocol. If it is set to "IP Only", the phone only receives the RTP packets from the specified IP address based on the communication protocol; If it is set to "IP and Port", the phone will receive the RTP packets from the specified IP address with the specified port based on the communication protocol. The default setting is "Disable".
RTP Timeout Timer (s)	Disconnects the call automatically when there is no RTP stream for a specific timeout. Default is 30 seconds.
VQ RTCP-XR Collector Name	Configures the host name of the RTCP server that accepts voice quality reports contained in SIP PUBLISH messages.
VQ RTCP-XR Collector Address	Configures IP address of the RTCP server that accepts voice quality reports contained in SIP PUBLISH messages.
VQ RTCP-XR Collector Port	Configures the port of the RTCP server that accepts voice quality reports contained in SIP PUBLISH messages.

Account/SIP/Codec Settings

Account/Call Settings

Call Settings	
Enable Video Call	Configures the video call function for this account. If set to "Default", it will be configured according to global video call function.
Start Video Automatically	Permits the phone system to enable the video feature automatically when it makes an outbound call. If set to "Yes", the video codec attributes will be included in the SIP INVITE message. Or the attributes will not be included. The default setting is "Yes".
Remote Video Request	Configures the preference to handle video request from the remote party during an audio call. The default is "Prompt".

	<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.
Video Layout	<p>Defines whether to enter full screen when incoming video call is answered.</p> <ul style="list-style-type: none"> ● “Fullscreen”: GXV34xx will show the remote video feed in full screen. ● “Only display Remote Screen”: GXV34xx only displays the remote screen in full screen mode. ● “Equal Split Screen”: GXV34xx will show remote and local video feeds on equal proportions. ● “Default”: GXV34xx will show both remote and local video feed. <p>Note: “Fullscreen” is not supported on GXV3470. “Equal Split Screen” is not supported on GXV3450.</p>
Auto Answer	<p>Sets the phone system to allow to answer an incoming call automatically when idle. If it is set to “Yes”, the phone will automatically enable the speaker phone to answer all the incoming calls after a short reminding beep. If set to “Enable Intercom/Paging”, it will automatically answer the incoming calls whose SIP INVITE includes auto-answer tag in the info header.</p> <p>The default setting is “No”.</p>
Play Warning Tone for Auto Answer Intercom	<p>When this option is enabled, the phone will play a warning tone When auto-answering intercom.</p> <p>The default setting is “Yes”.</p>
Intercom Barge	<p>Configures whether to answer the incoming intercom call when there is already an active call on the phone. When “Intercom Barging” is enabled, and if the current active call is an intercom call, the incoming intercom call will be automatically rejected; otherwise if the current active call is not an intercom call, the current active call will be put on hold and the incoming intercom will be automatically answered. When “Intercom Barging” is disabled, a prompt will show up indicating the incoming intercom call without interrupting the current active call. Default setting is disabled.</p>

Auto Preview	<p>Configures whether to turn on video to preview the video of the caller. If set to “Yes”, the user can view the video and hear the caller on the incoming page when there is an incoming call. If set to “Yes with Ringing”, the caller can view the video of the caller and hear the ringtone on the incoming page but cannot hear the caller. The default setting is “No”.</p> <p>Note: If Auto Answer function has been enabled, this function does not take effect.</p>
Send Anonymous	<p>Sets the phone system to make an anonymous outgoing call. If set to “Yes”, the “From” header in the SIP INVITE messages will be set to anonymous, essentially blocking the Caller ID to be displayed. Default is “No”.</p>
Intercept Anonymous Calls	<p>If set to “Yes”, anonymous calls will be automatically blocked.</p>
Call Log	<p>Categorizes the call logs saved for this account.</p> <ul style="list-style-type: none"> ● If it is set to “Log all”, all the call logs of this account will be saved. ● If set to “Log all except missed calls”, the whole call history will be saved other than missed call. ● If it is set to “Disable Call Log”, none of the call history will be saved. ● If it is set to “Do not Prompt for missed call”, the phone will log the missed call histories, but there is no prompt to indicate the missed calls on phone LCD. <p>The default setting is “Log All”.</p>
Enable Call Features	<p>Configures the local start command feature. If it is set to “Yes”, the feature will be enabled to recognize the local star code command. Otherwise, it will be disabled. The default setting is “No”.</p>
Enable Call Waiting	<p>Configures the call waiting function for this account. If set to “Default”, it will be configured according to global call waiting function.</p>

Mute on Answer Intercom Call	When enabled, phone will mute the incoming intercom call based on Call-Info/Alert Info Headers. Default is disabled.
Transfer on 3-way Conference Hang up	Transfers conference from hosted party when hang up, thus other parties can continue the conference without interruption. Default is unchecked.
Use # as Dial Key	Treats "#" as the "Send" (or "Dial") key when set to "Yes". If set to "No", this "#" key can be included as part of the dialed number or it will be used as redial key when the input area has no number (please make sure the dial plan is properly configured to allow dialing # out). Default is "Yes".
Use # as Redial Key	Allows users to configure the "#" key as the "Redial" key. If set to "Yes", the "#" key will immediately redial the last call. In this case, this key is essentially equivalent to the "Redial" key. If set to "No", the "#" key is treated as part of the dialed string. Default is "Yes".
DND Call Feature On	Configures the feature code to enable the DND (Do Not Disturb) feature for this account. If it is configured, the phone will dial the feature code automatically when the DND feature is enabled.
DND Call Feature Off	Configures the feature code to disable the DND (Do Not Disturb) feature for this account. If it is configured, the phone will dial the feature code automatically when the DND feature is disabled.
No Key Entry Timeout (s)	Determines the expiration timer (in seconds) for no key entry. The dialed digit will be sent out if no other digits entered within the set period. The default value is 4 seconds. The valid range is 1 - 15. This feature does not work if the dialer page is entered via the Account Widget on the phone.
Ring Timeout (s)	Defines the expiration timer (in seconds) for the rings with no answer,- If set to "0", ringing will never time out. The default setting is 60. The valid range is 0, 10 - 300..
Refer-To Use Target Contact	Sets the phone system to use the target's Contact header tag to the Refer-To header in the SIP REFER message during an attended transfer. The default setting is "No".
RFC2543 Hold	If yes, c=0.0.0.0 will be used in INVITE SDP for hold.
Call Forwarding	
Call Forward Type	<p>Sets the Call Forwarding feature for this account.</p> <ul style="list-style-type: none"> ● None: Disable call forwarding feature. ● Unconditional: Set to forward all calls to a specified account. ● Time based: Set the call forwarding rule based on time. The system can forward incoming calls to the accounts of In Time Forward to and Out Time Forward to. ● Others: Set the call forwarding rule based on following account status. <ol style="list-style-type: none"> 1. Forward when Busy: the call will be forward to number set under "Busy To" when the account is busy. 2. Forward when No Answer: The call will be forwarded to the number set under "No Answer To" after the configured timeout. (range 1- 120s) 3. Forward when DND: When the phone is on DND mode the call will be forwarded to number configured under "DND To".
Dial Plan	
Dial Plan Prefix	Configures the digits prepended to the dialed number.
Disable Dial Plan	<p>Enables/disables the Dial plan mechanism for different cases. If the specific case is checked, the Dial plan mechanism will be disabled.</p> <ul style="list-style-type: none"> ● Dial Page: It controls the pattern of dialing numbers from the keypad, phone app and account widget.

	<ul style="list-style-type: none"> ● Contact: It controls the pattern of dialing numbers from local or LDAP. ● Incoming Call History: It controls the pattern of dialing numbers from inbound call logs. ● Outgoing Call History: It controls the pattern of dialing numbers from outbound call logs. ● Programmable Key & Click2Dial: It controls the pattern of dialing numbers from MPK app and the link on the webpage. <p>The default setting is unchecking all the cases.</p>
<p>Dial Plan</p>	<p>Configures the dial plan to establish 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> <p>1. Accepted Digits: 1,2,3,4,5,6,7,8,9,0 , *, #, A,a,B,b,C,c,D,d,+</p> <p>2. Grammar: x – any digit from 0-9;</p> <ul style="list-style-type: none"> ● xx+ or xx. – at least 2-digit numbers ● xx – only 2-digit numbers ● ^ - exclude ● [3-5] – any digit of 3, 4, or 5 ● [147] – any digit of 1, 4, or 7 ● <2=011> - replace digit 2 with 011 when dialing ● - the OR operand ● + - add + to the dialing number ● , - play second dial tone. <p>Example 1: {[369]11 1617xxxxxx}</p> <p>Allow 311, 611, and 911 or any 10-digit numbers with leading digits 1617</p> <p>Example 2: {^1900x+ <=1617>xxxxxx}</p> <p>Block any number of leading digits 1900 or add prefix 1617 for any dialed 7-digit numbers</p> <p>Example 3: {1xxx[2-9]xxxxxx <2=011>x+}</p> <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>Example 4: {0,x+}</p> <p>If user dials 0 second dial tone will be played, and users can continue entering digits. For instance, if pressing 01234, after pressing 0 second dial tone is played, full number is sent in INVITE.</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 digits length ● 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>
Caller IDs	
<p>Caller ID Display</p>	<p>Specifies which header tag will be used from the SIP INVITE message for the Caller ID display.</p> <ul style="list-style-type: none"> ● If it is set to Auto (default), the phone system will use the one of the available headers in the priority hierarchy of P-Asserted Identify Header, Remote-Party-ID Header and FROM Header. ● If it is set to "From Header", it will use the FROM header information for the Caller ID.

	<ul style="list-style-type: none"> • If it is set to "Disabled", all the incoming calls Caller ID will be displayed with "Unavailable". • If it is set to "PAI Header", use the Caller ID in PAI Header.
Callee ID Display	<p>Specifies which header tag will be used from the SIP INVITE message for the Callee ID display.</p> <ol style="list-style-type: none"> 1. If set to "Auto"(Default) and the Privacy header in the 180 Ringing has the value is "id", "Anonymous" will be displayed on the phone. Otherwise, the phone will update the Callee ID in the order of P-Asserted-Identity header, Remote-Party-ID header and to header. 2. If set to "Disabled", the Callee ID will be displayed as "Unavailable". 3. If set to "To Header", the Callee ID will not be updated and only use the value displayed in the to header.
Ringtone	
Account Ringtone	<p>Configures the ringtone for the account. Users can set ringtones from the dropdown list. User can also import customized ringtone from LCD Setting menu.</p> <p>The customized ringtone file name will also be showed up in the dropdown list that allows user to select.</p>
Ignore Alert-Info header	<p>Configures the default ringtone.</p> <p>If set to "yes", the incoming alert info header from the SIP server will be ignored and default configured ringtone will be played.</p> <p>The default setting is "No".</p>
Match Incoming Caller ID	<p>Specifies the rules for the incoming calls. If the incoming caller ID or Alert Info matches the number, pattern or Alert Info text rules, the phone will play the selected distinctive ringtone. The rule policy:</p> <ul style="list-style-type: none"> • Specific caller ID number. For example, 8321123; • A defined pattern with certain length using x and + to specify, where x could be any digit from 0 to 9. Samples: <ul style="list-style-type: none"> • xx+ : at least 2-digit number; • xx : only 2-digit number; • [345]xx: 3-digit number with the leading digit of 3, 4 or 5; • [6-9]xx: 3-digit number with the leading digit from 6 to 9. <ul style="list-style-type: none"> • Alert Info text <p>Users could configure the matching rule as certain text (e.g., priority) and select the custom ring tone mapped to it. The custom ring tone will be used if the phone receives SIP INVITE with Alert-Info header in the following format: Alert-Info: <code><http://127.0.0.1>; info=priority</code></p>
Distinctive Ring Tone	<p>Selects the distinctive ring tone if the incoming caller ID matched the specified Match Incoming Caller ID rule. If so, the phone will play the selected ringtone.</p>

Account/SIP/Call Settings

Account/Advanced Settings

Security Settings	
Check Domain Certificates	<p>Sets the phone system to check the domain certificates if TLS/TCP is used for SIP Transport.</p> <p><i>The default setting is "No".</i></p>
Validate Certification Chain	<p>Configures whether to validate certification chain, when TLS/TCP is configured for SIP Transport. If this is set to "Yes", phone will validate server against the new certificate list.</p> <p><i>The default setting is "No".</i></p>

SIP CA Certificate	Select the CA certificate for server verification.
SIP User Certificate	Select the user certificate to access SIP TLS authentication content required by some specific servers. If the private key is included, upload it with the user certificate.
Validate Incoming SIP Messages	Specifies if the phone system will check the incoming SIP messages caller ID and CSeq headers. If the message does not include the headers, it will be rejected. The default setting is "No".
Allow Unsolicited REFER	It is used to configure whether to dial the number carried by Refer-to after receiving SIP REFER request actively. The default is "Disabled". <ul style="list-style-type: none"> ○ If it is set to "Disabled", the phone will send error warning and stop dialing. ○ If it is set to "Enabled/Force Auth", the phone will dial the number after sending authentication, if the authentication failed, then the dialing will be stopped. ○ If it is set to "Enabled", the phone will dial up all numbers carried by SIP REFER.
Accept Incoming SIP from Proxy Only	If enabled, the SIP address of the request URL in the incoming SIP message will be checked. If it doesn't match the SIP server address of the account, the request will be ignored.
Check SIP User ID for Incoming INVITE	Configures the phone system to check the SIP User ID in the Request URI of the SIP INVITE message from the remote party. If it doesn't match the phone's SIP User ID, the call will be rejected. <i>The default setting is "No".</i>
Allow SIP Reset	It is used to configure whether to allow SIP Notification message to perform factory reset on the phone. <i>The default setting is "No".</i>
Authenticate Incoming INVITE	Configures the phone system to authenticate the SIP INVITE message from the remote party. If set to "Yes", the phone will challenge the incoming INVITE for authentication with SIP 401 Unauthorized response. <i>The default setting is "No".</i>
SIP Realm used for Challenging INVITE & NOTIFY	Configure this item to validate incoming INVITE, but you must enable authenticate incoming INVITE first to make it take effect. You can verify the NOTIFY information for the provision, including <i>check-sync</i> , <i>resync</i> and <i>reboot</i> , but only when SIP NOTIFY authentication enabled first to make it take effect.
MOH	
Upload Local MOH Audio File	Loads the MOH (Music on Hold) file to the phone. Click on "Browse" button to upload the music file from local PC. The MOH audio file has to be in .wav or .mp3 format. Note: <i>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.</i>
MOH Mode	Configures MOH mode. If set to "Local MOH", a local MOH audio file needs to be uploaded for this mode to work.
Advanced Features	

Virtual Account Group	<p>It is used to set to categorize accounts in server mode groups, the accounts in the same group will be combined as one and the account widget will display the Caller ID in the account with lowest ID. The phone can answer any incoming calls to each account in groups. If user makes an outbound call, the phone system will use the lowest ID account by default. If the account fails or SIP INVITE message is timeout, the phone system will failover to the next account in the group with higher account ID. If all the accounts are not available in the group, the phone system will traverse all the accounts in the group and notify the end users the session is failed.</p> <p>SIP REGISTER message will use the next SIP server in the same virtual group after the fifth trial fails and cannot be configured or changed.</p>
Allow Sync Phonebook via SIP Notify	<p>Allows users to synchronize XML phonebook upon receiving SIP NOTIFY message with header Event: sync-contacts</p> <p>Note: Received SIP NOTIFY will be first challenged for authentication purpose before contacting configured server to download XML phonebook. The parameters used are the ones configured at [Download Contacts]. The authentication can be done either using admin credentials (if no SIP account is configured) or using SIP account credentials. Default is "Yes".</p>

Account/SIP/Advanced Settings

Account/Special Features

Special Features	<p>Configures phone's settings to meet different vendors' server requirements. Users can choose from Standard, CBCOM, RNK, China Mobile, ZTE IMS, Mobotix, ZTE NGN, or Huawei IMS depending on the server type.</p>
Call Settings	
Feature Key Synchronization	<p>This feature is used for BroadSoft / Metaswitch call feature synchronization. When it's set to BroadSoft / Metaswitch, DND and Call Forward features can be synchronized with BroadSoft / Metaswitch server. The call forward function will take effect on the server side while the local call forward function is not effective.</p> <p><i>The default setting is "Disable".</i></p>
Conference URI	<p>Configures the network-based conference URI (the BroadSoft Standard). If it is configured, end user needs to tap the N-way key during the conference to transfer the host to the remote media server.</p>
Broadsoft Call Center	<p>When enabled, Feature Key Synchronization will be enabled regardless of web settings. Default is Disabled.</p>
Hoteling Event	<p>Enables BroadSoft Hoteling Event feature. Default is Disabled.</p>
Call Center Status	<p>When set to "Yes", the phone will send SUBSCRIBE to the server to obtain call center status. Default is Disabled.</p>
SCA	
Enable SCA (Shared Call Appearance)	<p>Enables/disables the Shared Call Appearance (the Broadsoft Standard) feature for this account. If it is set to "Yes", the phone system can update and share account status with another device. The default setting is "No".</p> <p>Note: The Enable SCA settings now supports provision via strings. The value "0" can be replaced with "line" or "private"; value "1" can be replaced with "shared" or "sharedline".</p>

Enable Barge-in	Enables/disables the Barge-In feature. If it is set to "Yes", the user could tap the SCA account to barge into an active session with another shared line. <i>The default setting is "No".</i>
Line-seize Timeout (s)	Configures the interval (in seconds) when the line seize is considered timed out when Shared Line feature is used. Valid range is 15-60.
Call Park	
BroadSoft Call Park	Configures whether to send SUBSRCIRBE message to BroadSoft server to obtain Call Park notifications. Disabled by Default.
Call Park Feature Code	Configures the feature access code for parking current call to a parking lot or to another extension.
Auto-filling Call Park Retrieve Feature Code	If enabled, the Call Park Retrieve feature code will be automatically filled in the dialing interface when the phone is in call pickup. Enabled by Default.
Call Park Retrieve Feature Code	Configures the feature access code for retrieving the parked call on accounts or BLF keys.

Account/SIP/Special Features

Phone Settings Page Definitions

Phone Settings/General Settings

Basic Settings	
Local RTP Port	Defines the local RTP-RTCP port pair used to listen and transmit. The following rule is applied: $N \geq 0$ Audio RTP port: $\text{Port_Value} + 10 * N$ Audio RTCP port: $\text{Port_Value} + 10 * N + 1$ Video RTP port: $\text{Port_Value} + 10 * N + 2$ Video RTCP port: $\text{Port_Value} + 10 * N + 3$ BFCP Protocol port: $\text{Port_Value} + 10 * N + 6$ BFCP RTP port: $\text{Port_Value} + 10 * N + 8$ BFCP RTCP port: $\text{Port_Value} + 10 * N + 9$. The default value is 50040. The valid range is from 50040 to 65000.
Use Random Port	Forces the phone system to use random ports for both SIP and RTP messages. This is usually necessary when multiple phones are behind the same full cone NAT. The default setting is "No". Note: This parameter must be set to "No" for Direct IP Calling to work.
Hide User Info for Video Call	Configures whether to display user information in a video call. If set to "Yes", user information will not be displayed in the upper left corner of video area during a video call.
Enable in-call DTMF display	Enables/disables the phone system to omit the DTMF digits displaying from the LCD screen. The default setting is "Yes".
Enable LDAP Timeout Auto Search	Configures whether to display the matched content automatically in search of the LDAP contacts when timeout. If set to "No", users need to click the "Search" button to

	<p>search the matched contacts mentioned above.</p> <p>The default setting is "Yes".</p>
Keep-alive Interval (s)	<p>Specifies how the phone system will send a Binding Request packet to the SIP server in order to keep the "ping hole" on the NAT router to open. The default setting is 20 seconds.</p> <p>The valid range is from 10 to 160.</p>
STUN Server	<p>Configures the URI of STUN (Simple Traversal of UDP for NAT) server. The phone system will send STUN Binding Request packet to the STUN server to learn the public IP address of its network. Only non-symmetric NAT routers work with STUN.</p>
Use NAT IP	<p>Configures the IP address for the Contact header and Connection Information in the SIP/SDP message. It should ONLY be used if it's required by your ITSP.</p> <p>The default setting is keep the box blank.</p>
Delay Registration	<p>Configure the specific time for account registration after booting up to avoid centralized registration. Set the range from 0 to 90s</p> <p>default value is 0.</p>

Phone Settings/General Settings

Phone Settings/Call Settings

Enable Video Call	<p>Enables the video call feature on the phone.</p> <p><i>The default setting is "Yes".</i></p>
Enable Direct IP Call Mode	<p>Configures enable/disable direct IP call mode of the phone. If set to "Yes", the feature of direct IP call will be enabled.</p> <p><i>Default is "No".</i></p>
Enable Quick IP-call Mode	<p>This feature allows users to make a direct IP call by dialing the last octet of the IP address (last 3 digits of IP address). Note: The phones must be on the same LAN/VPN. No SIP server is required so the field should be left blank. When set to "Yes", if XXX is dialed, where X is 0-9 and XXX <=255, the phone will make a direct IP call to aaa.bbb.ccc.XXX where aaa.bbb.ccc comes from the LAN/VPN IP address regardless of the subnet mask. XX or X is also valid so a leading 0 is not required. See User Guide for details.</p> <p>This feature is available only when "Direct IP Call Mode" is enabled.</p> <p>Disabled by Default.</p>
Enable Paging Call Mode	<p>Configures enable/disable paging call mode of the phone. If set to "Yes", the feature of paging call will be enabled.</p> <p><i>Default is "No".</i></p>
Enable Call Waiting	<p>Enables the call waiting feature. If it is not checked, the phone system will reject the second incoming call during an active session without user's knowledge. But this missed call record will be saved to remind users.</p> <p>The default setting is "Yes".</p>
Enables Call Waiting Tone	<p>Sets the phone system to play the call waiting tone if there is another incoming call. If it is set to "No", the phone will only display the indicator on the LCD screen for another incoming call. The default setting is "Yes".</p>
Enable DND Reminder Ring	<p>Configures the phone system to play the DND reminder ringtone for the incoming call if the DND feature is enabled. If it set to "No", the phone will keep mute instead of playing a ring splash to indicate an incoming call when DND is enabled. The default setting is "Yes".</p>

Enable Transfer	Enables the transfer feature. When set to “No”, the phone system will block the TRANSFER key on the LCD screen. The default setting is “Yes”.
Hold Call Before Completing Transfer	When set to “Yes” the phone holds the second call before completing the attended transfer (it sends the INVITE method to hold the call before sending the REFER method).
Default Transfer Mode	Sets the default transfer mode for the phone system. If the Blind Transfer or Attended Transfer mode is set, the phone system will use the specific mode to transfer an active call. The users still have privilege to switch the mode on the LCD screen when they tap the transfer key. The default setting is “Blind Transfer”.
Enable transfer via non-Transfer Programmable Key	Programmable Key with the type speed dial, BLF and speed dial via active account will perform as transfer programmable keys under active call. The transfer mode during the call depends on the “Default Transfer Mode” mentioned above. MPK can also be selected as forward/transfer destination on the ringing screen when [Enable Function for Incoming Call] is set to “Call Transfer”.
Special Function for Incoming Call	<p>Enables the preview feature for the incoming video calls. Defines the function for the incoming video call.</p> <ul style="list-style-type: none"> • If it is set to “Preview”, the phone system will pop up the PREVIEW key on the LCD screen when there is an incoming video call, and users could tap on it to check video caller without answering the incoming video call (the call will keep playing ringback on the caller side). <p>Note: By pressing the preview button, the phone will send the SIP 183 message to the caller’s camera, based on SIP RFC3261; the caller’s camera should start sending the stream to the phone upon receiving the SIP 183.</p> <p>At any time, the GXV3480 user can press the “Answer” button. If done, then the phone will send the SIP 200OK and call will be fully established.</p> <ul style="list-style-type: none"> • If set to “Call Transfer”, the phone system will pop up the “TRANSFER” key on the LCD screen when there is an incoming call, and users could tap on it to show up the dialer without answering the incoming call, then, users could transfer this incoming call to others. <p>The default setting is “None”.</p>
Enable Conference	Enables the conference. When set to “No”, the phone will block the conference application. The default setting is “Yes”.
Auto Conference	Allows the phone system to invite all call parties into a conference by pressing the Conf key. If it is disabled, the end user has to add each call party to conference manually. The default setting is “No”.
Hold Call before Adding conferee	Configures whether to place the current call on hold before adding new member(s) to a conference. If enabled, the current call will be put on hold when the host presses Conference or Add key to invite new member(s). When an invited member answers the call and agrees to attend the conference, the host needs to manually resume the conference with the new member added. If disabled, the current call will not be put on hold and the invited member will join the meeting automatically after answering the call.
Auto Mute Mode	<p>Configures whether to mute the call on entry automatically.</p> <ul style="list-style-type: none"> • If set to “Disable”, then do not use auto mute function. • If set to “Auto Mute on Outgoing Call”, then mute automatically when the other party answers the outgoing call. • If set to “Auto Mute on Incoming Call”, then mute automatically when answers the incoming call; If set to “Mute on Incoming & Outgoing Call”, then mute automatically when the call gets through. <p>Note: This function only take effect when the phone is from the idle status to call status. Users could click the Mute button on call interface to cancel the current mute status.</p>
Always Ring Speaker	<p>Determines if the speaker will play the ringtone if the speaker channel is not set as default channel. If set to “Yes”, the phone will force to play the ring speaker in speaker channel. The default setting is “No”.</p> <p><i>End user might need this feature when the headset is connected.</i></p>

Offhook Auto Dial	Configures the User ID/extension to dial automatically when the phone is off-hook. The phone will use the first account to dial the configured numbers out. <i>The default setting is "No".</i>
Offhook Auto Dial Delay (s)	Defines the timer for warm line dialing. After the timer expires, the phone system will dial the configured number in Off-hook Auto Dial automatically. If it is not configured, the configured number will be dialed immediately.
Off-hook/On-hook Timeout (s)	If configured, the phone will exit the dial-up screen when timeout after Offhook or Onhook. default is 30s. The valid range is 10-60s.
Handset Option	Configures the Handset options and can be set to: <ol style="list-style-type: none"> 1. If set to "Enable": when off hook, the phone will enter into the dial screen, and the media channel will switch to the handset; no matter if any third app is opening. 2. If set to "Disable": The Handset will be disabled. 3. If set to "Auto": when the 3rd-party application is calling, only the media channel will switch to the handset when off hook; otherwise, the phone will enter into the dial screen, and the media channel will switch to the handset. Default setting is "Auto" .
Auto Unhold When Pressing Line Key	Configures when there are multiple lines, whether to UnHold the line automatically when click the line being held and hold the line in the primary call. <i>Note: the hold situation which is set manually will not be put on hold automatically. The default setting is "No".</i>
Default Phone APP	Configures phone APP for the device. The default setting is Phone of Grandstream, but if you develop a new phone application using SDK, you can choose the new one to replace the original. The configuration of "Quickly Launch 3rd Party APP" is not available if the default phone application changes.
Quickly Launch Specified APP	Selects the specified application that launch quickly by offhook/clicking the Dial or Conference. Once selected, the package name and activity of specified application will be displayed below. When user offhooks / click the Dial or Conference application, it will automatically enter the configured application interface. The default setting is blank, which means using GS phone application.
Record Mode	Configures recording mode. <ul style="list-style-type: none"> ● If set to (Default) "Record locally", the phone will use the local recorder for call recording, and the audio file will be saved according to the recorder setup. ● If set to "Record on PortaOne", the phone will send the specified SIP messages to the corresponding server; ● If set to "Record on UCM", the phone will send the recording feature code to the UCM server to request for recording, and the recording function will be executed by the server. ● If set to "Record on Broadsoft", the phone will send the recording feature code to the Broadsoft server to request for recording, and the recording function will be executed by the server. ● Set "Disabled" to disable this feature.
Enable Auto Record When Call Established	Configures whether to auto record when a call is established. If set to "Yes", the call recording will start automatically when the call is established.
Rejected Call Notification	Enable/Disable rejected call notification. Once enabled, a missed call will prompt on LCD when reject the incoming call. <i>Default is "No".</i>
Return Code When Rejecting Incoming Calls	When rejecting an incoming call, the phone will send the selected type of SIP response for the call.

Return Code When DND Is Enabled	When DND is enabled, the phone will send the selected type of SIP response
Group Listen with Speaker	Configures whether to enable speaker audio output when in a call with handset/headset. If enabled, the speaker audio output is enabled, but you cannot talk through the speaker.
One-Way Call Function Buttons	Users can configure and customize the call functions in the call interface during a normal call. The available call functions are: Mute, Hold, Video, Record, Transfer, Call Details, New Call, Keyboard, Media Channel, Conference. <i>Note: Users can choose only 3 of these functions to be shown on the call interface during a one-way call.</i>
Conference Call Function Buttons	Users can configure and customize the call functions in the call interface during a conference. The available call functions are: Invite, Mute, Hold, Record, Call Details, New Call, Keyboard, Media Channel. <i>Note: Users can choose only 3 of these functions to be shown on the call interface during a conference.</i>
Call Function Button Display Timeout (s)	Configures the timeout period for call function buttons display. If set to "0", the buttons will be always displayed. The value range is 0-30 seconds.
Virtual Account Group Avaya Mode	If set to "Yes", when processing SIP Register 3XX Response, it will parse the address site in 3XX, modify the account server info "SIP Server: port" & "SIP Transaction" in virtual account group and initiate registration again. This feature is designed for the Avaya customers.
Virtual Account Group Concurrent Registration	Configures the amount of concurrent accounts in virtual account group. If the total amount of virtual group accounts is "N", the number of accounts the user sets is "n", then the phone will register the first n accounts; If registration for all of these accounts failed, then register the last N-n accounts. The default value is 2
Filter Characters	Sets the characters for filter when dial out numbers. Users could set up multiple characters. For example, if set to "[()-]", when dial (0571)-8800-8888, the character "()-" will be automatically filtered and dial 057188008888 directly.
Escape '#' as %23 in SIP URI	Determines which characters will be included in the SIP INVITE URI if end users input #. If it is set to "Yes", the phone will replace the # by %23. Otherwise, it will include # in the SIP INVITE message. <i>Default is "Yes".</i>

Phone Settings/Call Settings

Phone Settings/Ringtone

Auto Config CPT by Region	Configures whether to choose Call Progress Tone automatically by region. If set to "Yes", the phone will configure CPT (Call Progress Tone) according to different regions automatically. If set to "No", you can manual configure CPT parameters. The default setting is "No".
Call Progress Tones: <ul style="list-style-type: none"> • Dial Tone • Second Dial Tone • Ring Back Tone • Busy Tone • Reorder Tone • Confirmation Tone • Call-Waiting Tone 	Configures tone frequencies according to user preference. By default, the tones are set to North American frequencies. Frequencies should be configured with known values to avoid uncomfortable high pitch sounds. 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 a continuous ring, OFF should be zero. Otherwise it will ring ON ms and a pause of OFF ms and then repeats the pattern.

	Please refer to the document below to determine your local call progress tones: https://www.itu.int/ITU-T/inr/forms/files/tones-0203.pdf
Call-Waiting Tone Gain	Adjusts the call waiting tone volume. Users can select "Low", "Medium" or "High". The default setting is "Low".
Default Ring Cadence	Defines the ring cadence for the phone. The default setting is: c=2000/4000.

Phone Settings/Ringtone

Phone Settings/Video Settings

Video Frame Rate	Configures video frame rate for SIP video call from "5 frames/second", "15 frames/second", "25 frames/second" and "30 frames/second". 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.
Video Display Mode	Configures the video display mode to "Original proportion", "Cut proportionally" or "Add black margin proportionally". <ol style="list-style-type: none"> Original proportion: the phone displays video in its original proportion. <i>Note: If the video display proportion is different from the one of the phone, the phone will stretch or compress video to display it.</i> Equal proportional cutting: the phone will cut video to meet its own display proportion. Proportional add black edge: the phone will display video in its original proportion. If it still exists spare space, the phone will add black edge on it. <p><i>The default setting is "Equal proportional cutting".</i></p>
Enable Frame Skipping in Video Decoder	Enables the phone system for frame skipping in video decoder. If it is 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. <i>The default setting is "Yes".</i>

Phone Settings/Video Settings

Phone Settings/Multicast Paging

Multicast Paging	
Paging Barge	Sets the threshold of paging calls. If the paging call's priority is higher than the threshold, the existing call will be hold and the paging call will be answered. Otherwise, the existing call does not be affected. If it is set to Disable, any paging call will not be answered. Default setting is "Disable".
Activate Paging Priority	Determines if a new paging call whose priority is higher than the existing paging call will be answered. If it is checked, this feature will be enabled. The default setting is disabled.
Multicast Paging Codec	Selects the codec type for the multicast paging call. This list includes PCMU, PCMA, G726-32, G722, and G729A/B, iLBC, Opus.
Enable Multicast	Enables the video feature to establish a multicast paging call. The default setting is disabled.

Paging	
Video Multicast Paging Video Codec	Sets the video codec for the multicast paging call. The default setting is "H.264".
Multicast Paging Image Size	Sets the video image size for the multicast paging call. This list includes 1080P, 720P, 4CIF, VGA, CIF, QVGA, and QCIF. Default setting is "VGA".
Multicast Paging Video Bit Rate	Determines the video bit rate for the multicast paging call. The default setting is "256 kbps".
Multicast Paging Video Frame Rate	Configures the video frame rate for the multicast paging call. This list includes "15 frames/second", "25 frames/second", "30 frames/second", and "Variable frames rate".
Multicast Paging H.264 Profile Type	Specifies the H.264 codec profile type for the multicast paging call. This list includes "Baseline Profile", "Main Profile", and "High Profile". Note: Lower profile is easier to decode, while higher profile has higher compress rate. Usually, use Baseline profile for low CPU Performance device, and choose high profile for video conference.
Multicast Paging H.264 Payload Type	Determines the H.264 codec payload type for the multicast paging call. The default setting is "99".
Multicast Listening	
Priority	Configures the IP address and port number for monitoring multicast paging call. When the initiator initiates a call, answer the call and display listening address and tag of the monitoring target. This feature supports Video Multicast, when the initiator initiates Video Multicast, it will automatically add the number 2 on the port of the listening address. Reboot the phone to make changes take effect.
Listening Address	
Label	The valid IP address range is from 224.0.0.0 to 239.255.255.255. Users may also fill the label for each listening address corresponding to priority.

Phone Settings/Video Settings

Phone Settings/Account Disaster Recovery

Main Account	
Main Account	Configures the main account into account disaster recovery group. Each account can only be selected once. Set to none by default.
SIP Server	Defines the URL or IP address, and port of the SIP server. This is provided by your VoIP service provider (ITSP).
SIP User ID	Defines the user account information, provided by user's VoIP service provider (ITSP). It's usually in the form of digits similar to a phone number.

SIP Authentication ID	SIP service subscriber's 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 be hidden for security purpose.
Outbound Proxy	The IP address or domain name of the primary outbound proxy, media gateway, or session border controller. It's used for firewall or NAT penetration in certain network environment. For example, in a symmetric NAT environment STUN will not work and only an outbound proxy can provide the solution.
Backup Account	
Backup Account	If the outgoing/incoming call fails when using main account, the phone will try to use other backup accounts in the same group. Each account can only be selected once.
SIP Server	The URL or IP address, and port of the SIP server. This is provided by your VoIP service provider (ITSP).
Outbound Proxy	The IP address or domain name of the primary outbound proxy, media gateway, or session border controller. It's used for firewall or NAT penetration in certain network environment. For example, in a symmetric NAT environment STUN will not work and only an outbound proxy can provide the solution.

Phone Settings/Account Disaster Recovery

Network Page Definitions

Network Settings/Ethernet Settings

IP Mode	Selects the Internet protocol to use. When both IPv4 and IPv6 are enabled, phone will attempt to use the preferred protocol first and switches to the other protocol if there are any issues.
Different Networks for Data and VoIP Calls	Configures whether to set up different networks for the phone data and the call. If set to "Yes", you need to configure the data network and VoIP network respectively.
IPV4	
IPv4 Address Type	Configures the appropriate network settings on the phone. Users could select from "DHCP", "Static IP" or "PPPoE"(Point-to-point Protocol over Ethernet). <i>By default, it is set to "DHCP".</i>
DHCP VLAN Override	Selects the DHCP Option VLAN mode. When set to "DHCP Option 132 and DHCP option 133", the phone will get DHCP option 132 and 133 as VLAN ID and VLAN priority. When set to "Encapsulated in DHCP Option 43", the phone will get values from Option 43 which encapsulate VLAN ID and VLAN priority. Note: Please make sure the "Allow DHCP Option 43 and Option 66 to Override Server" setting under maintenance → upgrade is checked. The default setting is "Encapsulated in DHCP Option 43".
DHCP Host name (Option 12)	Sets the name of the client in the DHCP request. It is optional but may be required by some Internet Service Providers.
Vendor Class ID (Option 60)	Configures the vendor class ID header in the DHCP request. The default setting is Grandstream GXV3480.
IP Address	Defines the phone's static IP address if the static IP is used.
Subnet Mask	Determines the network's subnet mask if the static IP is used.
Default Gateway	Defines the network's gateway address if the static IP is used.

DNS Server 1	Configures the primary DNS IP address if the static IP is used.
DNS Server 2	Configures the secondary DNS IP address if the static IP is used.
PPPoE Account ID	Configures the PPPoE account ID if the PPPoE is used.
PPPoE Password	Sets the PPPoE password if the PPPoE is used.
Layer 2 QoS 802.1Q/VLAN Tag (Ethernet) for Data	<p>Assigns the VLAN Tag of the Layer 2 QoS packets for Ethernet. <i>The Default value is 0</i></p> <p>Note: When Different Networks for Data and VoIP Calls set to Yes, then this option will be applied for Data.</p>
Layer 2 QoS 802.1p Priority Value (Ethernet) for Data	<p>Assigns the priority value of the Layer 2 QoS packets for Ethernet. <i>The Default value is 0.</i></p> <p>Note: When Different Networks for Data and VoIP Calls set to Yes, then this option will be applied for Data.</p>
IPv6	
IPv6 Address Type	Configures the appropriate network settings on the phone. Users could select from "Auto-configured" or "Statically configured".
Enable IPv6 Privacy Address	Configures whether to enable IPv6 privacy address. If enabled, the device will carry multiple IPv6 addresses. Note: This may cause problems with some servers such as BroadSoft and result in account registration failure (invalid or no response).
Static IPv6 Address	The static IPv6 address when static IPv6 is used.
IPv6 Static Gateway	The static gateway when static IPv6 is used.
IPv6 Prefix Length	Enter the IPv6 prefix length in "Statically configured" IPv6 address type. <i>Default is 64.</i>
DNS Server 1	The DNS Server 1 when static IP is used.
DNS Server 2	Configures the secondary DNS IP address.
Layer 2 QoS 802.1Q/VLAN Tag (Ethernet) for VoIP Calls	When Different Networks for Data and VoIP Calls set to Yes, then this option will be applied for VoIP traffic. Assigns the VLAN Tag of the Layer 2 QoS packets for Ethernet for VoIP Calls. The Default value is 0.
Layer 2 QoS 802.1p Priority Value (Ethernet) for VoIP Calls	When Different Networks for Data and VoIP Calls set to Yes, then this option will be applied for VoIP traffic. Assigns the priority value of the Layer 2 QoS packets for Ethernet for VoIP Calls. The Default value is 0.
802.1x Mode	
802.1x mode	Enables and selects the 802.1x mode for the phone system. The supported 802.1x modes are: EAP-MD5, EAP-TLS, EAP-PEAP <i>The default setting is "Disable".</i>
802.1x Identity	Enters the identity information for the selected 802.1x mode. (This setting will be displayed only if 802.1 X mode is enabled).
802.1x Secret	Enters the secret for the 802.1x mode. This option will appear when 802.1x mode is EAP-MD5 or EAP-PEAP.
802.1X CA Certificate	Uploads the CA Certificate file to the phone. (This setting will be displayed only if the 802.1 X mode is enabled)
802.1X User Certificate	Loads the Client Certificate file to the phone. (This setting will be displayed only if the 802.1 X TLS mode is enabled)

Network Settings/Ethernet Settings

Network Settings/Wi-Fi Settings

Wi-Fi Basics	
Wi-Fi Function	Enables/disables the Wi-Fi feature. <i>The default setting is "Disable".</i>
Wi-Fi Band	Sets the type of Wi-Fi Band (2.4G & 5G, 2.4G or 5G). <i>The default setting is 2.4G&5G.</i>
ESSID	Allows to scan and select the available Wi-Fi networks within the range if the Wi-Fi feature is enabled. Click on "Select" to select the Wi-Fi network to connect to. The ESSID will be auto filled in the ESSID filed.
Add Network	
ESSID	Determines the ESSID of the selected Wi-Fi network. It can be auto filled by clicking the select button on the web page.
Security Mode for Hidden SSID	Defines the security mode used for the wireless network when the SSID is hidden. Default is "None".
Password	Determines the password for the selected Wi-Fi network.
Advanced Settings	
Country Code	Configure Wi-Fi country code. The default value is "United States of America". Note: Reboot is required to take effect.

Network Settings/Wi-Fi Settings

Network Settings/OpenVPN® Settings

Enable OpenVPN®	This enables/disables OpenVPN® functionality and requires the user to have access to an OpenVPN® server. The default setting is No. NOTE: To use OpenVPN® functionalities, users must enable OpenVPN® and configure all the settings related to OpenVPN®, including server address, port, OpenVPN® CA, certificate and key. Additionally, the user must also set the SIP account to use "OpenVPN" for the "Nat Traversal" (under Account-> General Settings-> Network Settings).
OpenVPN® Mode	Simple mode only supports some basic or common parameters configuration; Professional mode supports configuration file upload, which is totally customized by need, please refer to https://openvpn.net for more information.
Enable OpenVPN® Comp-lzo	Enables OpenVPN® LZO compression. When the LZO compression is enabled on the OpenVPN® server, you must turn on it at the same time. Otherwise, the network will fail to connect.
OpenVPN® Server Address	The URL/IP address for the OpenVPN® server.
OpenVPN® Port	The network port for the OpenVPN® server. By default, it is set to 1194.
OpenVPN® Transport	Determines network protocol (UDP or TCP) used for OpenVPN®. Default is UDP.
OpenVPN® CA	OpenVPN® CA file (ca.crt) required by the OpenVPN® server for authentication purposes. Press "Upload" to upload the corresponding file to the device. The file will not be uploaded if it is not in the correct format.
OpenVPN® Client Certificate	OpenVPN® Client certificate file (*.crt) required by the OpenVPN® server for authentication purposes. Press "Upload" to upload the corresponding file to the device. The file will not be uploaded if it is not in the correct format.

OpenVPN® Client Key	The OpenVPN® Client key (*.key) required by the OpenVPN® server for authentication purposes. Press "Upload" to upload the corresponding file to the device. The file will not be uploaded if it is not in the correct format.
OpenVPN® Cipher Method	The cipher method of OpenVPN®, must be the same cipher method used by the OpenVPN® server. Available options are: "Blowfish", "AES-128" or "AES-256". Default is "Blowfish".
OpenVPN® User Name	OpenVPN® authentication username (optional).
OpenVPN® Password	OpenVPN® authentication password (optional).

Network Settings/OpenVPN® Settings

Network Settings/Advanced Network Settings

Advanced Network Settings	
DNS Refresh Time (m)	Configures the refresh time (in minutes) for DNS query. If set to "0", the phone will use DNS query TTL resolving from DNS server response.
DNS Failure Cache Duration (m)	Configures the duration (in minutes) of previous DNS cache when DNS query fails. If set to "0", the feature will be disabled. Note: Only valid for SIP registration.
Preferred DNS 1	Defines the preferred DNS server for the user.
Preferred DNS 2	Defines the second DNS server for the user.
IPv6 Preferred DNS Server	Specifies the IPv6 preferred DNS server.
Enable LLDP	Enables the LLDP (Link Layer Discovery Protocol) feature on the phone system. If it is set to "Yes", the phone system will broadcast LLDP PDU to advertise its identity and capabilities and receive same from a physical adjacent layer 2 peer. <i>The default setting is "Yes".</i>
LLDP TX Interval (s)	Configures the interval the phone sends LLLD-MED packet. <i>The default setting is 30s.</i>
Enable CDP	Configures whether to enable CDP to receive and/or transmit information from/to CDP-enabled devices. <i>The default setting is "Yes".</i>
Layer 3 QoS for SIP	Defines the Layer 3 packet's QoS parameter for SIP messages in decimal pattern. This value is used for IP Precedence, Diff-Serv or MPLS. <i>The default setting is 26 it is equivalent to the DSCP name constant AF31.</i>
Layer 3 QoS for Audio	Defines the Layer 3 packet's QoS parameter for RTP messages in decimal pattern. This value is used for IP Precedence, Diff-Serv or MPLS. <i>The default setting is 46 it is equivalent to the DSCP name constant EF.</i>
Layer 3 QoS for Video	Defines the Layer 3 packet's QoS parameters for H.264 messages in decimal pattern. This value is used for IP Precedence, Diff-Serv or MPLS. <i>The default setting is 34 it is equivalent to the DSCP name constant AF41.</i>
HTTP/HTTPS User-Agent	Sets the user-agent for phonebook and screen saver.

SIP User-Agent	Sets the user-agent for SIP. Default is "Grandstream GXV34x0 \$version" "\$version" is replaced by actual firmware version.
Maximum Transmission Unit (MTU)	Configures the MTU in bytes. Please set MTU reasonably according to your needs. <i>Note: If MTU is set to less than 1280, IPv6 may not take effect.</i>
PC Port Mode	
PC Port Mode	Enables and defines the PC port mode. If it is 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. A reboot is required to take effect. <i>The default setting is "Enabled".</i>
PC Port VLAN Tag	Defines the VLAN Identifier of the Layer 2 frame for PC port. This adds 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	Determines the Priority Code Point within a Layer 2 frame header for PC port.
Proxy	
HTTP/HTTPS Proxy Hostname	Configures the HTTP/HTTPS proxy URI of the network. Some of networks requires going through a proxy to access to the Internet. <i>The default setting is keeping this field blank.</i>
HTTP/HTTPS Proxy Port	Configures the HTTP/HTTPS proxy port number of the network. Some of networks requires going through a proxy to access to the Internet. <i>The default setting is keeping this field blank.</i>
Bypass Proxy For	Defines the specific URI that the phone can directly access to without HTTP/HTTPS proxy. If it is filled, the phone will bypass the proxy to send the packets to the specific URI. <i>The default setting is filed blank.</i>
Remote Control	
CSTA Control	Indicates whether CSTA Control feature is enabled. Change of this configuration will need the system reboot to make it take effect.
Action URI Support	Configures whether the phone is enabled to receive and handle Action URI request.
Remote Control Pop up Window Support	Configures whether the phone is enabled to pop up allow remote control window. If set to "Yes", when the remote console is connected to the phone, the phone will pop up a window to allow remote control or not. If set to "No", once the remote console successfully connects to the phone, it can directly control the phone remotely.
Action URI Allow IP List	List of allowed IP addresses from which the phone receives the Action URI. If input "any", any remote console can access this phone.

Network Settings/Advanced Network Settings

Network Settings/SNMP Settings

Enable SNMP	Configures whether to enable SNMP.
Version	Selects SNMP version from the drop-down list.
Port	Configures the port for SNMP.
Username	Configures username for SNMPv3.

Security Level	Selects security level for SNMPv3.
Trap Version	Selects trap version of SNMP trap receiver.
Trap IP Version	Configures IP address of SNMP trap receiver.
Trap Port	Configures the port of SNMP trap receiver.
Trap Interval(m)	Configures the interval between each trap sent to the trap receiver.
Trap Community	Configures community name associated to the trap. It must match the community name of the trap receiver.

Network Settings/SNMP Settings

Network Settings/Affinity Settings

Affinity Support	Configures whether to enable the Affinity feature. Note: The Affinity CTI function can only be used when the phone has a registered account.
Preferred Account	Selects SIP account for Affinity.

Network Settings/Affinity Settings

System Settings Page Definitions

System Settings/Time and Language

Time Settings	
NTP Server	Defines the URL or IP address of the NTP server. The phone may obtain the current date and time information from the server. The default setting is "pool.ntp.org".
NTP Update Interval (m)	This allows the user to configure interval for updating time from the NTP server. Valid value is between 5 and 1440 minutes. If set to 0, it will follow the default update rules. Default value is 0.
Allow DHCP Option 42 to Override NTP Server	Obtains NTP server address from a DHCP server using DHCP Option 42; it will override configured NTP Server. If set to "No", the phone will use configured NTP server to synchronize time and date even if a NTP server is provided by DHCP server. The default setting is "Yes".
Allow DHCP Option 2 to Override Time Zone Setting	Obtains time zone setting (offset) from a DHCP server using DHCP Option 2; it will override selected time zone. If set to "No", the phone will use selected time zone even if provided by DHCP server. The default setting is Yes.
Enable Self-Defined Time Zone.	Enable/Disable Custom Time Zones. Note: in order to be able to enable Custom Time zones, DHCP Option 42 and DHCP Option 2 needs to be disabled. This option is disabled by Default.
Self-defined Time Zone	This parameter allows the users to define their own time zone. The syntax is: std offset dst [offset], start [/time], end [/time] Default is set to: MTZ+6MDT+5,M4.1.0,M11.1.0

	<p>MTZ+6MDT+5</p> <p>This indicates a time zone with 6 hours offset with 1 hour ahead (when daylight saving) which is U.S central time. If it is positive (+) if the local time zone is west of the Prime Meridian (A.K.A: International or Greenwich Meridian) and negative (-) if it is east.</p> <p>M4.1.0,M11.1.0</p> <p>The 1st number indicates Month: 1,2,3..., 12 (for Jan, Feb, ..., Dec)</p> <p>The 2nd number indicates the nth iteration of the weekday: (1st Sunday, 3rd Tuesday...)</p> <p>The 3rd number indicates weekday: 0,1,2,...,6(for Sun, Mon, Tues, ... ,Sat)</p> <p>Therefore, this example is the DST which starts from the First Sunday of April to the 1st Sunday of November.</p>
Time Display Format	<p>Specifies which format will be used to display the time.</p> <p>It can be selected from 12-hour and 24-hour format.</p>
Date Display Format	<p>Determines which format will be used to display the date.</p> <p>It can be selected from the drop-down list.</p> <p>Normal (M/D/YYYY): 1/31/2012</p> <p>YYYY/MM/DD: 2012/01/31</p> <p>MM/DD/YYYY: 01/31/2012</p> <p>DD/MM/YYYY: 31/01/2012</p> <p>The default setting is MM/DD/YYYY.</p>
Language	
Language	<p>Sets the language to display on the phone's LCD.</p>
Select Language File	<p>Press "Browse" to bring up a file selection menu to select the local .txt file to upload to the phone</p>

System Settings/Time and Language

System Settings/Security Settings

Web/SSH Access	
Enable SSH	<p>Allows SSH access to the phone.</p> <p>The default setting is "Yes".</p>
SSH Port	<p>Customizes SSH port to access to the phone.</p> <p>Default is "22".</p>
Access Method	<p>Determines which protocol will be used to access the phone 's Web GUI. It can be selected from HTTP and HTTPS.</p> <p>The default setting is HTTP.</p>
Port	<p>Specifies which port to use to access the phone 's Web UI. By default, if HTTP, the port number will be 80; if HTTPS is selected, the port number will be 443.</p>
Enable User Web Access	<p>The Administrator can disable or enable user web access through this option.</p> <p>Disabled by Default</p>
Web Access Control	<p>Configures Web access control by using Whitelist or Blacklist on incoming IP addresses.</p> <p>Default setting is None.</p>
Web Access Control List	<p>Configures the list of IP addresses as Whitelist or Blacklist to allow or restrict web access based on the "Web Access Control" settings.</p>

WebServer User Certificate	Select the user certificate as the web server certificate to encrypt web access.
Configuration via Keypad Menu	<p>Configures access control for keypad Menu settings on the Settings interface of the phone.</p> <p>Unrestricted: Access to all settings on the Settings interface.</p> <p>Basic Settings Only: Advanced Settings and Wireless & network options will not be displayed.</p> <p>Basic settings & Network settings: Advanced Settings options will not be displayed.</p> <p>Constraint Mode: Need to input admin password to access Wireless & Network options and Advanced Settings.</p> <p>Note: When access control for keypad is limited to “Basic Settings Only” or “Constraint Mode”, the Admin authentication will be mandatory to start Factory Reset process.</p>
Permission to Install/Uninstall Apps	<p>Configures the permissions for users to install/uninstall the applications.</p> <p>If set to “Allow”, the user is free to install/uninstall third-party apps.</p> <p>If set to “Require admin password”, the user need to input the correct administrator password to install/uninstall third-party apps.</p> <p>If set to “Require admin password if the app source is unknown”, the user need to input admin password only when install apps from unknown source, administrator password authentication is required when the user uninstall third-party apps.</p> <p>If set to “Not allowed”, the user cannot install/uninstall third-party apps.</p> <p>Default is “Allow”.</p>
User Info Management	
Current Admin Password	Enter current logged-in user’s password. This field is case sensitive. The default password is “admin”.
New Admin Password	Allows the user to change the admin password. The password field is purposely blank after clicking the “Save” button for security purpose. the admin password length limit is 8 – 32 characters, including at least 1 number, 1 uppercase letter, 1 lowercase letter and 1 special character.
Confirm Admin Password	Enter the new Admin password again to confirm.
New 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 password is “123”.
Confirm New User Password	Enter the new User password again to confirm.
Encryption Settings	
TLS	
Minimum TLS Version	Configures the minimum TLS version supported by the phone.
Maximum TLS Version	Configures the maximum TLS version supported by the phone.
Enable Weak TLS Cipher Suite	Defines the function for weak TLS cipher suites. If set to “Enable Weak TLS Cipher Suites”, allow users to encrypt data by weak TLS cipher suites. If set to “Disable Symmetric Encryption RC4/DES/3DES”, allow users to disable weak cipher DES/3DES and RC4.
Certificate Management	
Trusted CA Certificate	

User CA	
Add	Allows to Add or Delete User CA file to phone.
System CA	Lists trusted CA certificates previously uploaded. Administrator can delete a certificate from here.
User Certificate	
Add Certificate	Allows to add or delete User Certificate file to phone.

System Settings/Preferences

LCD & LED Management	
Enable Missed Call Backlight	If set to "Yes", LCD backlight will be turned on when there is a missed call on the phone. <i>The default setting is "Yes".</i> Note: Reboot is required for the setting to take effect
Enable Missed Call Indicator	If set to "Yes", the LED indicator on the upper right corner of the phone will light up when there is missed call on the phone. <i>Default setting is "Yes".</i>
Enable MWI Indicator	If set to "Yes", the LED indicator on the upper right corner of the phone will light up when there is new voicemail on the phone. If it set to "No", the LED indicator will keep off if the phone system receives SIP NOTIFY message about unread voice mail. <i>The default setting is "Yes".</i>
Enable New Message Indicator	If set to "Yes", the LED indicator on the upper right corner of the phone will light up when there is new message on the phone. <i>Default setting is "Yes".</i>
Enable Contact Full Indicator	If set to "Yes", the LED indicator on the upper right corner of the phone will light up when the contact storage or message storage is full. <i>The default setting is "Yes".</i>
Enable Indicator When LCD is Off	If set to "Yes", the LED indicator on the upper right corner of the phone will light up when the LCD screen is off. If it set to "No", the LED indicator will keep off when the LCD screen is off. <i>The default setting is "Yes".</i>
Screen Timeout	Configures the timeout interval of the LCD backlight. If set to "never", the screen will always stay on.
Screensaver Timeout	Configures the screensaver timeout.
Peripherals Interface Management	
Enable Touch Keys	Configures whether to enable touch keys. Once disabled, the five keys "Volume-, Volume +, Home, Menu and Back" will not take effect. <i>Default is enabled.</i>
Enable Screenshot	Enables the screenshot function. If set to "Disabled", the screenshot capability will not be supported. The default value is "Enabled".
Enable Handset	Enables the handset function. If set to "Disable", the audio channel will never switch to handset. The default value is "Enabled".

Enable Local Camera	Configures whether the Local camera will be activated or not. When this option is disabled, the camera cannot be turned on by any app for sending video. By default it's enabled.
Audio Control	
RJ9 Headset TX Gain (dB)	Configures the Transmission Gain in RJ9 headset channel. It can be selected from the dropdown list. The default setting is 0dB: -24 -18 -12 -6 0 +6 +12 +18 +24
3.5mm Earphone TX Gain (dB)	Configures the transmission gain of the 3.5mm earphone. It controls the audio signal sent out from the phone. Note: not available with GXV3450
Headset Type	Specifies which type of headset will be connected to the phone system. It can be selected from the dropdown list: Normal Headset Plantronics EHS If a normal RJ11 headset is connected, it should set to "Normal Headset". If a Plantronics EHS headset is used, it should set to "Plantronics EHS"
Enable 3.5mm Headset Control	If set to "Yes", the headset can control the onhook and offhook. Note: not available with GXV3450
Handset TX Gain (dB)	Configures the transmission gain of the handset. Default setting is "-6dB". -4 -2 0 +2 +4 +6
Enable Handset Noise Shield 2.0	When Handset Noise Shield feature is enabled, the remote party will hear less environmental noise during a call. If set to " High Shielding ", most of the environmental noise can be shielded. If set to " Soft Shielding ", some environmental comfort noise will remain for the remote party.
Handfree TX Gain (dB)	This feature configures the transmission gain for handsfree mode. Default setting is "0dB". -16 -12 -8 -4 0 +4 +8 +12 +16
Media Volume	Configures the volume of media.
Alarm Volume	Configures the volume of alarm.
Ringtone Volume	Configures the volume of ringtone.

System Settings/TR-069

Enable TR-069	Sets the phone system to enable the "CPE WAN Management Protocol" (TR-069). <i>The default setting is "Yes".</i>
ACS URL	Specifies URL of TR-069 ACS (e.g., http://acs.mycompany.com), or IP address. <i>Default setting is "https://acs.gdms.cloud"</i>
ACS User Name	Enters user name to authenticate to ACS.
ACS Password	Enters password to authenticate to ACS.
Periodic Inform Enable	Sends periodic inform packets to ACS. <i>Default is "Yes".</i>
Periodic Inform Interval (s)	Configures to sends periodic "Inform" packets to ACS based on specified interval. <i>Default setting is 86400.</i>
Connection Request User Name	Enters user name for the ACS to connect to the phone.
Connection Request Password	Enters password for the ACS to connect to the phone.
Connection Request Port	Enters the port for the ACS to connect to the phone.
CPE Cert File	Uploads Cert File for the phone to connect to the ACS via SSL.
CPE Cert Key	Uploads Cert Key for the phone to connect to the ACS via SSL.

System Settings/TR-069

Maintenance Page Definitions

Maintenance/Upgrade

Maintenance/Upgrade/Firmware

Upgrade via Manually Upload	
Complete Upgrade	If enabled, all files will be replaced except user data. <i>Default is disabled.</i>
Upload Firmware File To Update	Allows users to load the local firmware to the phone to update the firmware.
Upgrade via Network	
Firmware Upgrade Mode	Allows users to choose the firmware upgrade method: TFTP, HTTP, HTTPS or Manual Upload. <i>The default setting is "HTTPS".</i>
Firmware Server Path	Sets IP address or domain name of firmware server. The URL of the server that hosts the firmware release. <i>Default is "fm.grandstream.com/gs".</i>
HTTP/HTTPS Username	Enters the user name for the firmware HTTP/HTTPS server.
HTTP/HTTPS Password	Enters the password for the firmware HTTP/HTTPS server.
Firmware File Prefix	Checks if firmware file is with matching prefix before downloading it. This field enables user to store different versions of firmware files in one directory on the firmware server.

Firmware File Postfix	Checks if firmware file is with matching postfix before downloading it. This field enables user to store different versions of firmware files in one directory on the firmware server.
Upgrade Detection	
Update Detect	Click the "Update Detect" button to check whether the firmware in the firmware server has an updated version, if so, update immediately.

Maintenance/Upgrade/Config File

Configure Manually	
Download Device Configuration	Downloads the phone's configuration file in text format. The config file includes all 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 from this text file.
Upload Device Configuration	Uploads configuration file to the phone. Notes: •The GXV34x0 supports only txt format for config file upload. •Reboot is required to take effect.
Configure via Network	
Use Grandstream GAPS	It is used to configure the download path and update mode for the configuration file server. <ul style="list-style-type: none"> • If set to "Yes", the device will set the download path of the configuration file to "fm.grandstream.com/gs" by default and use HTTPS protocol to connect to the server. • If set to "No", then users can manually configure the path and update mode for the configuration file server.
Config Update Mode	Selects provisioning method: TFTP, HTTP or HTTPS. Default setting is "HTTPS".
Config Server Path	Sets IP address or domain name of configuration server. The server hosts a copy of the configuration file to be installed on the phone. Users can also configure variables in the provisioning server URL; The function allows users to configure a unified provisioning server URL for different phone models. Currently, the following variables are supported in the provisioning server URL: <ul style="list-style-type: none"> • \$PN: it is used to identify the product model name of the IP phone. • \$MAC: it is used to identify the MAC address of the IP phone. Variables \$PN and \$MAC can be embedded in server URL setting in Web UI and also in DHCP Option 66. <ul style="list-style-type: none"> • Example (Web UI): /192.168.0.2/\$PN/\$MAC • Example (DHCP Option 66): tftp://192.168.0.2/\$PN/\$MAC \$PN will be replaced with phone model, e.g., GXV34x0. And \$MAC will be replaced with phone's MAC address, e.g., 000b829a8ffe. <i>Default settings is "fm.grandstream.com/gs".</i>
HTTP/HTTPS Username	Configures the user name for the config HTTP/HTTPS server.
HTTP/HTTPS Password	Configures the password for the config HTTP/HTTPS server.
Config File Prefix	Checks if configuration files are with matching prefix before downloading them. This field enables user to store different configuration files in one directory on the provisioning server.

Config File Postfix	Checks if configuration files are with matching postfix before downloading them. This field enables user to store different configuration files in one directory on the provisioning server.
Authenticate Config File	Sets the phone system to authenticate configuration file before applying it. When set to "Yes", the configuration file must include value P1 with phone system's administration password. If it is missed or does not match the password, the phone system will not apply it. <i>The default setting is "No".</i>
XML Config File Password	Decrypts XML configuration file when encrypted. The password used for encrypting the XML configuration file is using OpenSSL.
Start provision	
Start Provision	After setting up the configuration, Click to start provision.

Maintenance/Upgrade/GUI Customization File

Configure Manually	
Upload GUI Customization File	Click to upload GUI Customization file
Configure via Network	
GUI Customization File Download Mode	Selects download method: TFTP, HTTP or HTTPS. <i>Default setting is "HTTP".</i>
GUI Customization File URL	Sets IP address or domain name of the GUI customization file server. The server hosts a copy of the file to be installed on the phone. <i>The Default setting is fm.grandstream.com/gs.</i>
GUI Customization File HTTP/HTTPS Username	Enters the user name for the firmware HTTP/HTTPS server.
GUI Customization File HTTP/HTTPS Password	Enters the password for the firmware HTTP/HTTPS server.
Use Configurations of Config File Server	Retrieve and download customization file with the configuration of the config file.

Maintenance/Upgrade/Provision

Automatic upgrade	
Automatic Upgrade	Specifies when the firmware upgrade process will be initiated; there are 4 options: <ol style="list-style-type: none"> No: The phone will only do upgrade once at boot up. Check every interval: User needs to specify "number of minutes" Check every day: User needs to specify "Hour of the day (0-23)". Check every week: User needs to specify "Hour of the day (0-23)" and "Day of the week (0-6)". <p>Note: Day of week is starting from Sunday. <i>The default setting is "No".</i></p>
Firmware Upgrade and Provisioning	Specifies how firmware upgrading and provisioning request to be sent. <ul style="list-style-type: none"> Always Check at bootup. When Firmware/Config File Pre/Suffix Changes.

	<ul style="list-style-type: none"> • Skip the Firmware Check.
Upgrade with Prompt	<p>If set to "Yes", the phone will pop up a prompt after downloading the firmware files to confirm whether start upgrading. Otherwise, the phone will automatically start upgrading process.</p> <p>The default setting is "Yes".</p>
DHCP Option	
Allow DHCP Option 150, 43, 160 and 66 Override Server	<p>Obtains configuration and upgrade server's information from DHCP server using options 43, 160 and 66. If DHCP option 43, 160 and 66 is enabled on the LAN side, the device will reset the CPE, upgrade, network VLAN tag, and priority configuration according to option 43 sent by the server. At the same time, the update mode and server path of the configuration upgrade mode will be reset according to the option 160 and 66 sent by the server.</p> <p>If set to "Prefer, fallback when failed", the device can fallback to use the configured provisioning server under its Firmware and Config server path in case the server from the DHCP Option fails.</p> <p><i>Default setting is "Prefer, fallback when failed".</i></p>
Allow DHCP Option 120 to Override SIP Server	<p>Configures the phone system to allow the DHCP offer message to override the Config Server Path via the Option 120 header.</p> <p><i>Default setting is "Yes".</i></p>
Allow DHCP Option 242 (Avaya IP Phones)	<p>Enables DHCP Option 242. Once enabled, the phone will use the configuration info issued by the local DHCP in Option 242 to configure proxy, transport protocol and server path.</p> <p><i>The default setting is "Yes".</i></p>
Config provision	
Download And Process All Available Config Files	<p>By default, the device will provision the first available config in the order of cfgMAC.xml, cfgMODEL.xml, and cfg.xml,(corresponding to device specific, model specific, and global configs). If set to "Yes", the device will download and apply (override) all available configs in the order of , cfg.xml, cfgMODEL.xml, cfgMAC.xml</p> <p><i>Default is "No".</i></p>
Config Provision	<p>Device will download configuration files and provision by configured order.</p>
PNP Feature	
PNP (3CX) Auto Provision	<p>Sets the phone system to broadcast the SIP SUBSCRIBE message during booting up to allow itself to be discovered and be configured by the SIP platform.</p> <p><i>The default setting is "Yes".</i></p>

Maintenance/Upgrade/Advanced Settings

Send HTTP Basic Authentication By Default	<p>Determine whether to send basic HTTP authentication information to the server by default when using wget to download firmware or config file. If set to "Yes", send HTTP/HTTPS user name and password no matter the server needs authentication or not. If set to "No", only send HTTP/HTTPS user name and password when the server needs authentication.</p>
Enable SIP NOTIFY Authentication	<p>Device will challenge NOTIFY with 401 when set to "Yes"</p>
Enabled Authentication Server Validation	<p>Configures whether to validate the server certificate when downloading the firmware/config file. If enabled, the phone will download the firmware/config file only after the server is validated.</p>
CA Certificate	<p>Select the CA certificate for server verification.</p>

User Certificate	Select the user certificate to be used for mutual server authentication. If the private key is included, upload it with the user certificate.
Enable EEE Mode	Configures enable/disable EEE (Energy-Efficient Ethernet) mode. If set to "Yes", the phone will turn on the EEE mode. Note: Regardless of whether the EEE mode is turned on or off, the network will reconnect. <i>Default is "No".</i>
mDNS Override Server	Sets the phone system to broadcast the Multicast DNS (mDNS) message during booting up to allow itself to be discovered and be configured by the SIP platform. If it is set to "User Type A", the phone system will broadcast the MDNS message "A_grandstream-cfg.local"; if it is set to "Use Type SRV", the MDNS message will be "SRV_grandstream-cfg.local". <i>The default setting is "Use Type A".</i>
Factory Reset	Resets the phone system to the default factory setting mode.

Maintenance/Upgrade

Maintenance/System Diagnosis

Syslog	
Syslog Protocol	Select the transport protocol over which log messages will be carried. UDP: Syslog messages will be sent over UDP. SSL/TLS: Syslog messages will be sent securely over TLS connection. To upload server CA certificate, follow below steps: 1. Copy CA file in SD card and plug it to the phone. 2. Go to LCD menu Settings→Security Settings→Install from SD card to install the CA file. Note: Configuration for P-value P82307 allows the syslog to be retained after a factory reset, depending on the configuration. When P82307 is set to 1, syslog data is preserved during the reset process. If set to 0, the syslog is cleared as part of the factory reset, this configuration option is not available on the webui.
Syslog Server	Configures the URI which the phone system will send the syslog messages to. The default setting is "log.ipvideotalk.com".
Syslog Level	Selects the level of logging for syslog. The default setting is "None". There are 4 levels from the dropdown list: DEBUG, INFO, WARNING and ERROR. The following information will be included in the syslog packet: DEBUG (Sent or received SIP messages). INFO (Product model/version on boot up, NAT related info, SIP message summary, Inbound and outbound calls, Registration status change, negotiated codec, Ethernet link up). WARNING (SLIC chip exception). ERROR (SLIC chip exception, Memory exception). Note: Changing syslog level does not require a reboot to take effect.
Syslog Keyword Filter	Only send the syslog with keyword, multiple keywords are separated by comma. Example: set the filter keyword to "SIP" to filter SIP log.
Logcat	
Clear Log	Clears the log files saved in the phone system.
Log Tag	Configures the filter to display the specified process log file.

Log Priority	<p>Selects the log priority to display. It can be selected from list below:</p> <p>Verbose (Default Setting)</p> <p>Debug</p> <p>Info</p> <p>Warning</p> <p>Error</p> <p>Fatal</p> <p>Silent (suppress all output)</p>
Get Log	Displays the log file on the web page.
Debug	
One-click Debugging	
One-click Debugging	<p>Capture the checked info in the debugging list, click "Start" to debug if including "Capture trace" item and click "Stop" to end, Click "Capture" in another situation. All retrieved files will be generated to a package, and the last package will be overwritten, while the trace file will stay remain.</p>
With Secret Key Information	<p>Allows users to make packet capture including the secret key to decrypt the captured TLS packets. Default value is No.</p>
Debug Info Menu	<p>Display a list of info items that can be debugged, currently supports system logs, info log, capture package, tombstones and ANR log. The captured data can be viewed in "Debug information list".</p> <p>The default is all selected.</p>
Debug Info List	<p>You can select the existing debugging info package or grab package. Click the "Delete" button on the right to delete the file.</p>
View Debug Info	<p>You can select the existing debugging info package or grab package. Click the "Delete" button on the right to delete the file.</p>
Core Dump	
Enable Core Dump Generation	<p>Configures whether to generate and save the core dump file when the program crashes.</p> <p>The default setting is "No".</p>
Core Dump List	<p>Selects the existing core dump file in the drop-down box. Users could delete the file by pressing on "Delete" button.</p>
View Core Dump	<p>Press "List" button to view all existing core dump files. The files are listed in chronological order, users could click the file name to download the file to the local computer.</p>
Record	
Record	<p>Click to start capturing audio data, click the "Stop" button to end. To capture the audio data of the device can help to locate audio issues.</p> <p>The default is not enabled. You can record up to 1-minute audio data.</p>
Recording List	<p>Choose the existing audio file. Click the "Delete" button on the right to delete this file.</p>
View Recording	<p>Click on the "List" button to view. The captured audio data will be sorted by time. Click to download the data to the computer for analysis.</p>

	Note: The audio data file will be saved under FileManager → Internal Storage → Recfiles folder. Users can also delete files under this folder.
Traceroute	
Target Host	The IP address or URL for the Target Host of the Traceroute. Press Start to send traceroute request to configured target host. Press Stop to end traceroute running process.
Ping	
Target Host	The IP address or URL for the Target Host of the ping. Press Start to send ping request to configured target host. Press Stop to end ping running process.
NSLookup	
Hostname	Enter a host name and find out the corresponding IP address. It will also do reverse name lookup and find the host name for an IP address you specify.

Maintenance/System Diagnosis

Maintenance/Event Notification

Set the URL for events on phone web GUI, and when the corresponding event occurs on the phone, the phone will send the configured URL to SIP server. The dynamic variables in the URL will be replaced by the actual values of the phone before sending to SIP server, in order to achieve the purpose of events notification. Here are the standards:

1. The IP address of the SIP server needs to be added at the beginning and separate the dynamic variables with a "/".
2. The dynamic variables need to have a "\$" at the beginning. For example: local=\$local
3. If users need to add multiple dynamic variables in the same event, users could use "&" to connect with different dynamic variables. For example: 192.168.40.207/mac=\$mac&local=\$local
4. When the corresponding event occurs on the phone, the phone will send the MAC address and phone number to server address 192.168.40.207.

Bootup Completed	Configures the event URL when phone boots up.
Incoming Call	Configures the event URL when phone has an incoming call.
Outgoing Call	Configures the event URL when phone has an outgoing call.
Offhook	Configures the event URL when the phone is off-hook.
Onhook	Configures the event URL when the phone is on-hook.
Missed Call	Configures the event URL when the phone has new a missed call.
Connected	Configures the event URL when a call is established.
Disconnected	Configures the event URL when a call is disconnected.
DND On	Configures the event URL when DND is enabled.
DND Off	Configures the event URL when DND is disabled.
Forward On	Configures the event URL when the forward feature is enabled on the phone.
Forward Off	Configures the event URL when the forward feature is disabled on the phone.
Blind Transfer	Configures the event URL when users transfer a call with blind transfer on the phone.
Attended Transfer	Configures the event URL when users transfer a call with attended transfer on the phone.
On Hold	Configures the event URL when users hold a call on the phone.
UnHold	Configures the event URL when users resume a call on the phone.
Log On	Configures the event URL when users log on the phone successfully.

Log Off	Configures the event URL when users log off the phone.
Register	Configures the event URL when an account in the phone is registered successfully.
Unregister	Configures the event URL when an account in the phone is unregistered.

Maintenance/Event Notification

Maintenance/Voice Monitoring

Session Report	
VQ RTCP-XR Session Report	When enabled, phone will send a session quality report to the RTCP server at the end of each call.
Interval Report	
VQ RTCP-XR Interval Report	When enabled, phone will send an interval quality report to the RTCP server periodically throughout a call
VQ RTCP-XR Interval Report Period (s)	Configures the interval (in seconds) that the phone will send an interval quality report to the RTCP server during a call.
Alert Report	
Warning Threshold for MOSLQ	Configures the threshold value of listening MOS score (MOS-LQ). The threshold value of MOS-LQ will trigger the phone to send a warning alert quality report to the RTCP server. <i>Please note the configured threshold is 10 times the actual value.</i>
Critical Threshold for MOSLQ	Configures the threshold value of listening MOS score (MOS-LQ). The threshold value of MOS-LQ will trigger the phone to send a critical alert quality report to the RTCP server. <i>Please note the configured threshold is 10 times the actual value.</i>
Warning Threshold for Delay (ms)	Configures the threshold value of one-way delay (in milliseconds) which will trigger the phone to send a warning alert quality report to the RTCP server.
Critical Threshold for Delay (ms)	Configures the threshold value of one-way delay (in milliseconds) which will trigger the phone to send a critical alert quality report to the RTCP server.

Maintenance/Voice Monitoring

Maintenance/Scheduled Tasks

Maintenance → Scheduled Tasks	
Working Time	Configures office hours for the effective time configuration of scheduled tasks. For example: set to lock the phone during non-working hours, set forward during working hours.
Scheduled Tasks	
Add	Configures a new scheduled task based on : <ul style="list-style-type: none"> ● Scheduled Tasks Type: Select the type of scheduled task: Scheduled Reboot, Scheduled lock, or Scheduled Forward, Set to Scheduled Reboot by Default. ● Repetition period: Configures the recurring day of the scheduled task: Every day, Every Week, Every Month, No Repeat, set to no-repeat by Default ● Effective Time: Configures the effective time or time period of the scheduled task every day. Set to 00:00 by Default
Delete	Deletes the Scheduled Tasks

Maintenance/Scheduled Tasks

Applications Page Definitions

Applications/Programmable Key

Programmable Keys	
Format	
Display Format	Configures the display format for the MPK. Users could select "Name", "User ID" or "Name(User ID)". "Name" is the one saved in phone contacts. The default setting is "Name, User ID, Key mode".
Show Display Name from Server	If selected, the display name on the server will replace the name users configured.
BLF	
Key Mode	<p>The key modes are:</p> <p>Speed Dial: Press to dial the UserID when the accounts being configured as VPK.</p> <p>Busy Lamp Field: Monitor the UserID status when the accounts being configured as VPK.</p> <p>Call Forward : Transfer the current active call to UserID when the accounts being configured as VPK.</p> <p>Call Intercom: Intercom/paging to the UserID when the accounts being configured as VPK.</p> <p>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 UserID when the accounts being configured as VPK.</p> <p>Dial DTMF: Dial the DTMF digits of the UserID when the accounts being configured as VPK during the call.</p> <p>Call Park: Configure the call park feature code to park or retrieve the call.</p> <p>Multicast Paging: For multicast sending, please fill in the display name in the Settings and fill in the sending address in the multicast address.</p> <p>Speed Conference: Quickly dial up multiple numbers to set up a meeting.</p> <p>Dial Prefix: After configured, once pressed this key, all numbers use this account will automatically add the prefix promptly</p>
Account	Configures the SIP account when the accounts being configured as VPK.
Display Name	Configures the display name when the accounts being configured as VPK.
User ID	Configures the UserID for the corresponding VPK mode when the accounts being configured as VPK.
DTMF Content	When key mode is set to Dial DTMF it Configures the dialed DTMF content.
Address	When key mode is set to Multicast Paging, it configures the multiple broadcast address.
Conference Name	When key mode is set to Speed Conference, it sets the speed conference name.
Mute all members	When key mode is set to Speed Conference, enables/disables mute all meeting members.
Configure	<p>When key mode is set to Speed Conference, it configures Speed Conference members list:</p> <p>Number: Enter member's number.</p>

	<p>Name: Enters member's name.</p> <p>Account: Specified the account associated.</p> <p>Operation: + to add a member, - to delete a member.</p>
General Settings	
Enable LCD Turn On Automatically when BLF/SCA status changes	Configures whether the LCD should turn on automatically when BLF/SCA status changes.
Desktop Widget Display Long Strings	Enables the horizontal stretching of the desktop programmable key widget to display long strings.
Proxy Prefix	
Account	Displays account name if configured, otherwise, displays "Account X" where X is the account number.
BLF Call-pick Prefix	<p>Configures the prefix prepended to the BLF extension if the phone answers a call to the monitored party by the BLF key.</p> <p>Default setting is ** for each account.</p>
Event List URI	<p>Determines the event list BLF URI on the phone to monitor the extensions in the list with MPK keys. This feature is based on BroadSoft standard. It requires filling in the BLF ID to the box.</p> <p>For example, if the server provides the URI: BLF123@myserver.com, this field should be filled with BLF123. Then the monitored extensions will be populated in the MPK app or Extension Board (if supported).</p>
Force BLF Call-pickup by Prefix	<p>Uses the prefix for BLF Call-pickup.</p> <p>The default setting is "No".</p>

Extension Boards

When plugged in extension boards, the configuration page will show Extension Boards automatically. And the Programmable Key APP wouldn't be usable through LCD.

Extension Boards are only supported by GXV3450.

Entenxion Boards-EXT	
Key Mode	<p>The key modes are:</p> <ul style="list-style-type: none"> ● Speed Dial: Press to dial the User ID when the accounts being configured as VPK. ● Busy Lamp Field: Monitor the User ID status when the accounts being configured as VPK. ● Call Transfer: Transfer the current active call to User ID when the accounts being configured as VPK. ● Call Intercom: Intercom/paging to the User ID when the accounts being configured as VPK. ● Speed Dial via Active Account: Similar to Speed Dial but it will dial based on the current active account. <p>For example, if the phone is offhook and account 2 is active, it will call the User ID when the accounts being configured as VPK.</p> <ul style="list-style-type: none"> ● Dial DTMF: Dial the DTMF digits of the User ID when the accounts being configured as VPK during the call. ● Call Park: Configure the call park feature code to park/retrieve call. ● Multicast Paging: For multicast sending, please fill in the display name in the Settings and fill in the sending address in the multicast address. ● Quick Conference: Quickly dial up multiple numbers to set up a meeting.

	<ul style="list-style-type: none"> • Dial Prefix: After configured, once pressed this key, all numbers use this account will automatically add the prefix promptly.
Account	Configures the SIP account for the Programmable Key.
Display Name	Configures the display name for the Programmable Key.
Number	Configures the number used by the corresponding Programmable Key mode for the Programmable Key.
DTMF Content	When key mode is set to Dial DTMF it configures the dialed DTMF content.
Address	When key mode is set to Multicast Paging, it configures the multiple broadcast address.
Conference name	Set the name of speed meeting when the key mode is set to Quick Conference.
Mute all members	Enable or disable mute all meeting members when key mode is set to Quick Conference.
Configure	Configures the Number list when key mode is set to Quick Conference.
General Settings	
General Settings	
One Page Display Mode	Configures whether to enable one page display mode. If set to "Yes", each extension board only shows 20 programmable keys, so keys 1-80 will be displayed on 4 extension boards.
Sync Backlight with LCD	Configures whether to synchronize the backlight with LCD. If set to "Yes", the backlight will turn off when LCD is in idle
EXT Sync Prompt	When accessing EXT, configures whether to pop up the EXT synchronization prompt.
Enable Active MPK Page	When enabled, GBX20 will auto switch to the page that there are active MPKs. When unchecked, the user needs to press the GXB20 buttons to switch MPK pages. It is enabled by default.
Hide BLF Remove Status	Configures to hide the status information of the monitored line. When checked, BLF LED would not update whether they are in a call or have an incoming/outgoing call. It is disabled by default.
Proxy Prefix	
Account	Displays account name if configured, otherwise, displays "Account X" where X is the account number.
BLF Call-pickup Prefix	Configures the prefix prepended to the BLF extension if the phone answers a call to the monitored party by the BLF key. Default setting is ** for each account.
Eventlist BLF URI	<p>Determines the event list BLF URI on the phone to monitor the extensions in the list with MPK keys. This feature is based on BroadSoft standard. It requires filling in the BLF ID to the box.</p> <p>For example, if the server provides the URI: BLF123@myserver.com, this field should be filled with BLF123. Then the monitored extensions will be populated in the MPK app or Extension Board (if supported).</p>
Force BLF Call-pickup by Prefix	Uses the prefix for BLF Call-pickup. The default setting is "No".

Table 47: Extension Boards

Applications/Contacts

Note

The maximum number of contacts supported is 2000 contact.

General Settings	
Sort Phonebook by	Sets which part of name, first name or last name, will be sorted in alphabetical order to display.
Default Contacts Tab	<p>Controls the behaviors of the phonebook key. It could be set to:</p> <ul style="list-style-type: none">○ Default○ LDAP Search○ Local Phonebook○ Local Group○ Broadsoft Phonebook○ Favorites. <p><i>The default setting is "Default", which set the phonebook key to the Contacts menu.</i></p>
Emergency Call Numbers	<p>Configures the emergency contact in logout mode. If the system is logout, guest users can dial the configured emergency contacts.</p> <p>Input the number in the input box and click "Add" to add the number to the contacts list. To delete the existing ICE number, select the number in the contacts list and click "Delete".</p>
Import/Export Contacts	
Import	
Clear The Old List	Determines if the phone system will delete the previous contacts when a new contact file is imported. If set to "Yes", the previous contacts will be removed. <i>The default setting is "No".</i>
Clear Old History Mode	<ul style="list-style-type: none">○ If set to "Clear all", the phone will delete all previous records before importing the new records.○ If set to "Keep Local Contacts", the new-added local new contacts will not be deleted when importing new records.
Replace Duplicate Items	<p>Configures the phone system to keep the original contact entries when duplicated contact entries are included in the contact file. If set to "Yes", the phone will replace the original entries to the new one. Otherwise, the phone system will save both contact entries.</p> <p><i>The default setting is "No".</i></p>
Replace Duplicate Entries Mode	<ul style="list-style-type: none">○ If set to "Replace by name", replace the records of the same name automatically when importing new records.○ If set to "Replace by number", replace the records of the same number automatically when importing new records.

File Encoding	<p>Specifies the encoding format for phonebook file importing. The default setting is UTF-8. It can be selected from the dropdown list:</p> <ul style="list-style-type: none"> ○ UTF-8 ○ GBK ○ UTF-16 ○ UTF-32 ○ Big5 ○ Big5-HKSCS ○ Shift-JIS ○ ISO8859-1 ○ ISO8859-15 ○ Windows-1251 ○ EUC-KR
File Type	<p>Sets the type format for phonebook file importing. It can be selected from the dropdown list.</p> <ul style="list-style-type: none"> ○ XML ○ vCard <p><i>The default setting is "XML".</i></p>
Import Local File	Uploads the contact file from PC to the phone.
Export	
File Encoding	<p>Specifies the encoding format for phonebook file exporting. The default setting is UTF-8. It can be selected from the dropdown list:</p> <ul style="list-style-type: none"> ○ UTF-8 ○ GBK ○ UTF-16 ○ UTF-32 ○ Big5 ○ Big5-HKSCS ○ Shift-JIS ○ ISO8859-1 ○ ISO8859-15 ○ Windows-1251 ○ EUC-KR
File Type	<p>Sets the type format for phonebook file importing. It can be selected from the dropdown list.</p> <ul style="list-style-type: none"> ○ XML ○ VCard <p><i>The default setting is "XML".</i></p>
Export	Downloads the phonebook file from the phone to PC.
Download Contacts	
Clear The Old List	<p>Sets the phone system to delete the previous contacts when a new contact file is downloaded. If "Yes", the previous contacts will be removed.</p> <p><i>The default setting is "No".</i></p>

Clear Old History Mode	<ul style="list-style-type: none"> ○ If set to “Clear all”, the phone will delete all previous records before downloading the new records. ○ If set to “Keep Local Contacts”, the new-added local new contacts will not be deleted when downloading new records.
Replace Duplicate Items	<p>Keeps the original contact entries when duplicated contact entries are included in the contact file. If set to “Yes”, the phone will replace the original entries to the new one. Otherwise, the phone system will save both contact entries.</p> <p><i>The default setting is “Yes”.</i></p>
Replace Duplicate Entries Mode	<ul style="list-style-type: none"> ○ If set to “Replace by name”, replace the records of the same name automatically when importing new records. ○ If set to “Replace by number”, replace the records of the same number automatically when importing new records.
Download Mode	<p>Enables the phone system to download phonebook file and select the server and protocol to download the phonebook file. It can be selected from TFTP, HTTP, and HTTPS.</p> <p><i>The default setting is “OFF”.</i></p>
File Encoding	<p>Selects the encoding format for phonebook file download. The default setting is UTF-8. It can be selected from the dropdown list:</p> <ul style="list-style-type: none"> ○ UTF-8 ○ GBK ○ UTF-16 ○ UTF-32 ○ Big5 ○ Big5-HKSCS ○ Shift-JIS ○ ISO8859-1 ○ ISO8859-15 ○ Windows-1251 ○ EUC-KR
Download Server	<p>Configures the server URL to download the phonebook file.</p> <p>The phone system will send a request to the server to download the phonebook file with filename <i>phonebook.xml</i>.</p>
HTTP/HTTPS User Name	<p>Configures user name for HTTP/HTTPS server to download the phonebook file.</p>
HTTP/HTTPS Password	<p>Specifies password for HTTP/HTTPS server to download phonebook file.</p>

Automatic Download Interval	<p>Determines how the phone system to send the request to the server to download the phonebook file. It can be selected from the dropdown list:</p> <ul style="list-style-type: none"> ○ None ○ 5 Minutes ○ 30 Minute ○ 1 Hour ○ 2 Hour ○ 4 Hour ○ 6 Hour ○ 8 Hour ○ 12 Hour
Download Now	Starts downloading the XML phonebook to the phone immediately.

Applications/Contacts

Applications/LDAP Phonebook

Connection Mode	Selects which protocol will be used for LDAP searching, LDAP or LDAPS. The default is "LDAP".
Server Address	Configures the URI of the LDAP (Lightweight Directory Access Protocol) server.
Port	Configures the LDAP server port. The default LDAP port number is 389.
Base DN	Determines the LDAP search base. This is the location in the directory where the search is requested to begin. Example:dc=grandstream, dc=comou=Boston, dc=grandstream, dc=com
Username	Configures the bind "Username" for querying LDAP servers. Some LDAP servers allow anonymous binds in which case the setting can be left blank.
Password	Specifies the bind "Password" for querying LDAP servers. The field can be left blank if the LDAP server allows anonymous binds.
LDAP Name Attributes	Configures the "name" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiple space-separated name attributes. Example:cn sn description
LDAP Number Attributes	Configures the "number" attributes of each record which are returned in the LDAP search result. This field allows the users to configure multiple space-separated number attributes. Example: telephoneNumber, telephoneNumber Mobile
LDAP Mail Attributes	Determines the "mail" attributes of each record that are returned in the LDAP search result. Example: mail
LDAP Name Filter	Configures the filter used for name lookups. Examples: ((!(cn=%)(sn=%))) returns all records which has the "cn" or "sn" field starting with the entered prefix (!(sn=%)) returns all the records which do not have the "sn" field starting with the entered prefix

	;(&(cn=%) (telephoneNumber=*)) returns all the records with the "cn" field starting with the entered prefix and "telephoneNumber" field set.
LDAP Number Filter	Defines the filter used for number lookups. Examples: (!(telephoneNumber=*)(Mobile=*)) returns all records which have the "telephoneNumber" or "Mobile" field starting with the entered prefix; (&(telephoneNumber=%) (cn=*)) returns all the records with the "telephoneNumber" field starting with the entered prefix and "cn" field set.
LDAP Mail Filter	Determines the filter used for mail lookups. Example: (mail=%)
Search Field Filter	Configures to filter according to which fields when searching on LDAP. Users can choose between 'Name Filter', 'Number Filter', 'Mail Filter', or 'All Filter'. The default setting is "All Filter".
LDAP Displaying Name Attributes	Configures the entry information to be shown on the phone's LCD. Up to 3 fields can be displayed. Example: %cn %sn %telephoneNumber
Max Hits	Specifies the maximum number of results to be returned by the LDAP server. If set to 0, the server will return all search results. The default setting is 50.
Search Timeout (s)	Configures the interval (in seconds) for the server to process the request and the client waits for the server to return. The default setting is 4 seconds.
LDAP Lookup For Dial	Sets the phone system to search LDAP numbers when making outgoing calls. The default setting is "No".
LDAP Lookup For Incoming Call	Sets the phone system to do LDAP number searching for incoming calls. The default setting is "No".
LDAP Sorting	Allows the user to sort the LDAP contact results by number. Disabled by Default.
LDAP Dialing Default Account	Configures the default account that being used when dialing LDAP contact. Users may choose the Account 1-6, the default setting is "Default".

Applications/LDAP Phonebook

Applications/Enterprise Directories

Enable Enterprise Directory	Enables Enterprise Directory on LCD. Disabled by Default.
Server Type	Selects the Enterprise Directory Server Type. the supported server type is UC2.
Server Address	Defines the enterprise Directory Server Address. For example, http(s)://192.168.1.7:80
Enterprise Directory Auth Type	Defines the Enterprise Directory Auth Type, wether LoginAuth or SIPAuth

Username	Configures enterprise directory username for authentication.
Password	Configures enterprise directory password for authentication.

Applications/Enterprise Directories

Applications/Remote Phonebook

Remote Phonebook

Remote Phonebook	
The user can configure up to 3 XML Remote Phonebooks.	
Display Name	Configures the entry information to be shown on phone's LCD.
URL	Configures the XML Phonebook URL.
Username	The user name for the phonebook.
Password	The password for the phonebook.
Remote Phonebook Update Interval	Configures the Remote Phonebook download Interval (in minutes). If set to 0, automatic download will be disabled. Valid range is 5 to 720.

Applications/Remote Phonebook

Applications/Recording

Call Recording	
File name	Displays the name of the recording file
Duration	Displays the duration of the phone call
Date	Displays the date the call was recorded on
Operation	Delete, Modify or download the recording file
Normal Recording	
File name	Displays the name of the recording file
Duration	Displays the duration of the phone call
Date	Displays the date the call was recorded on
Operation	Delete, Modify or download the recording file

Applications/Recording

Value-added Service Page Definitions

Value-added Service/Value-added Service

Value-added Service (0/25)	
Service Type	Users can set the service type to "Door System" to configure the door system options, or to "DTMF" to set DTMF content to send it during calls.
Door System Type	Set the door system type to "GDS" if the GDS door system is used, or set it to "Baudisch" if another door system brand is used. Note: Each GDS door system has 2 different access passwords to control 2 doors separately named as [Related Display Name1] & [Related Display Name2] below for door 1 and 2 respectively.
System Number	Specifies the door system number which is the SIP user ID configured on door system or its IP address, if the door system is using IP call. It enables to show open door button when caller number or IP address matches with this setting. e.g:"36311" or "192.168.124.81". Note: When set "Door System Type" to "Baudisch" a "configure" button will appear to allow user to configure groups of door system URL and User ID for 100 entries. <ul style="list-style-type: none"> ○ System Number: This is used to configure the User ID of door system. Once configured, only the call from this User ID would use door system while other calls use the default mode. ○ System Address: This is used to input the IP address or URL of the system in order to identify the call from door system. Users can set HTTP authentication credentials on the URL for Door Systems that require authentication to send HTTP stream. The URL format will be similar to the following: http://username:password@192.168.1.150/goform/stream?cmd=get&channel=4
Display Name	Configures the display name of the door system. When the call matches the configured system number, the name will be displayed on LCD.
Related Display Name1	Configures the name that will be displayed on LCD for door 1 when the call matches the configured GDS door system number.
Access password	Determines the door system password which should match the one configured on the used door system settings. In case the GDS is set as 'Door System type' parameter, the password should match the one configured on the GDS to open door 1.
Related Display Name2	Indicates the name that will be displayed on LCD for door 2 when the call matches the configured system number.
Access password	The configured password should match the one configured on the GDS to open door 2.
System Ringtone	Allows users to configure the ringtone for the door System. Users can choose different ringtones from the dropdown list.
DTMF Content	Set the DTMF content that is going to be sent when the DTMF button is pressed under Call screen→"Keypad".
General Settings	
Display Open Door Button when Calling	Configures whether display Open Door button when there is an incoming call. If set to "Yes", you cannot open door with DTMF when preview function is disabled, the phone will hide open door button automatically.
Enable Preview	Configures whether to enable preview function or not. If set to "No", you cannot open door with DTMF when there is an incoming call, the phone will hide open door button automatically.

Table 51: Value-added Service/Value-added Service

UPGRADING AND PROVISIONING

The GXV34x0 phones 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/BETA

firmware.grandstream.com

Upgrade and Provisioning Configuration

There are two ways to setup upgrade and provisioning on GXV34x0 phones. They are Keypad Menu and Web GUI.

o Configure via keypad Menu

In GXV34x0 Settings, select **Advanced** → **System Updates**.

1. Press **Detect New Version** to check for new firmware versions if available.
2. Press on **Start provision** to trigger the provision process

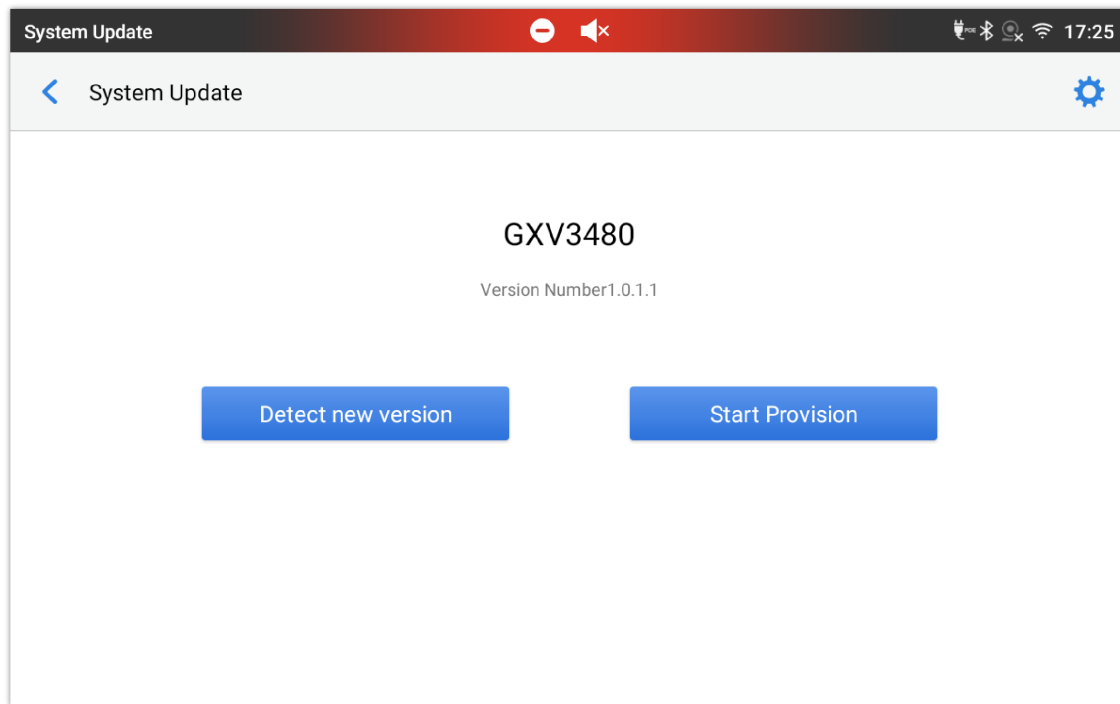


Figure 24: GXV3480 Upgrade – Detect New Version

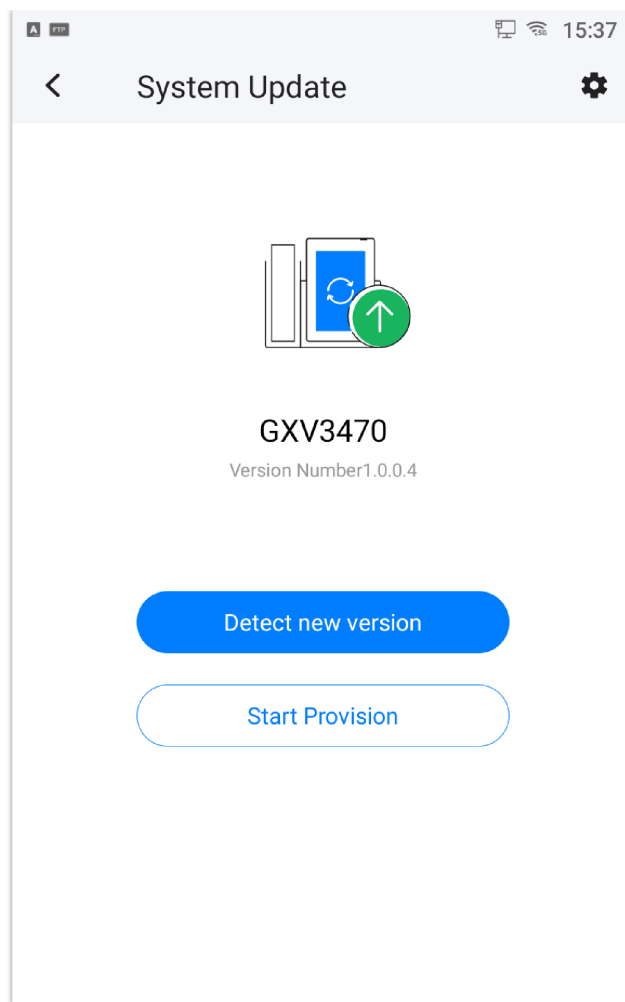


Figure 25: GXV3470 System Update

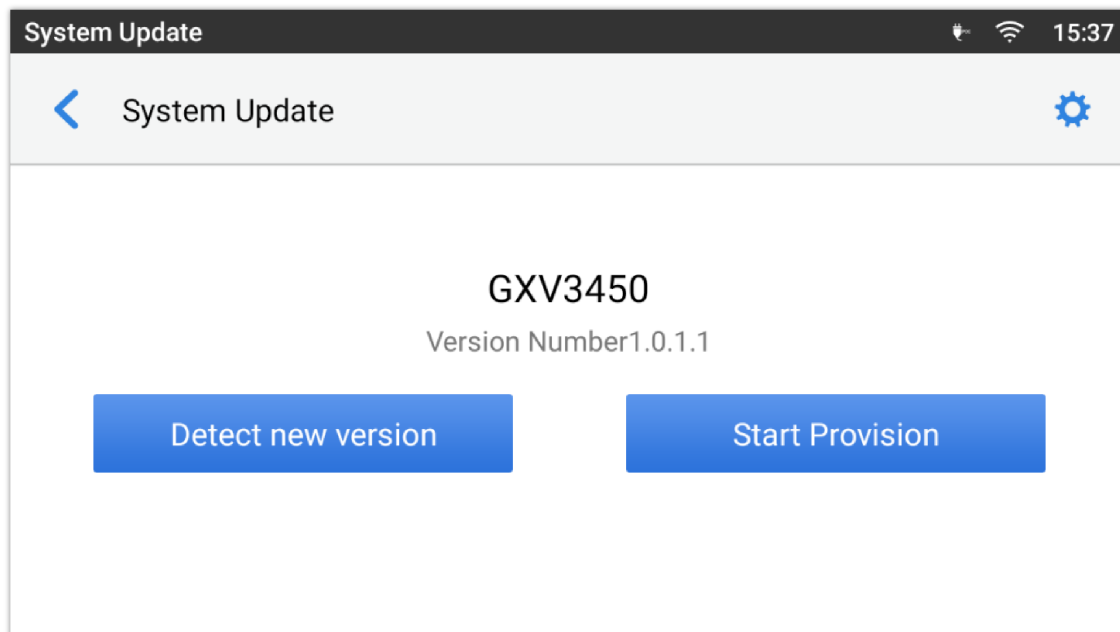



Figure 26: GXV3450 System Update

3. Press settings icon  to configure upgrade settings. 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 or go back and press **Detect New Version**.

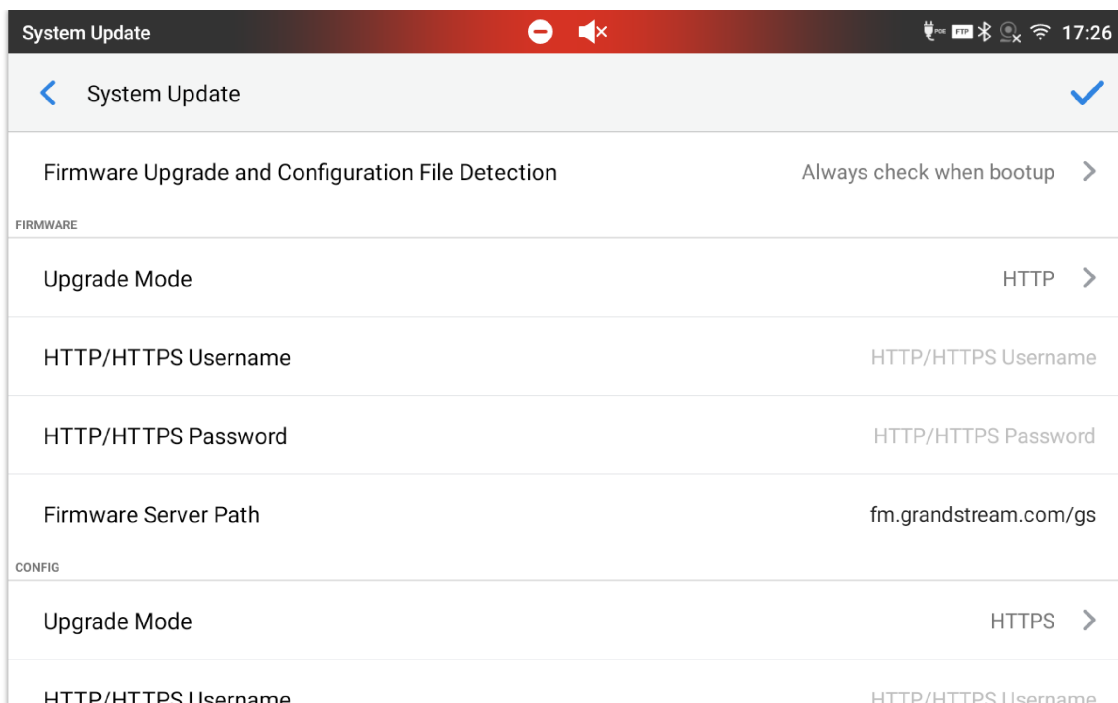


Figure 27: GXV3480 Upgrade Configuration via LCD

o **Configure via Web GUI**

Open a web browser on PC and enter the IP address for the GXV34x0 phone. Then login with the administrator username and password (that needs to be at least 6 characters). Go to **Maintenance** → **Upgrade**. 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 (The default setting is HTTPS). Save and apply the changes, press **Upgrade** button or reboot the phone to initiate firmware upgrade process.

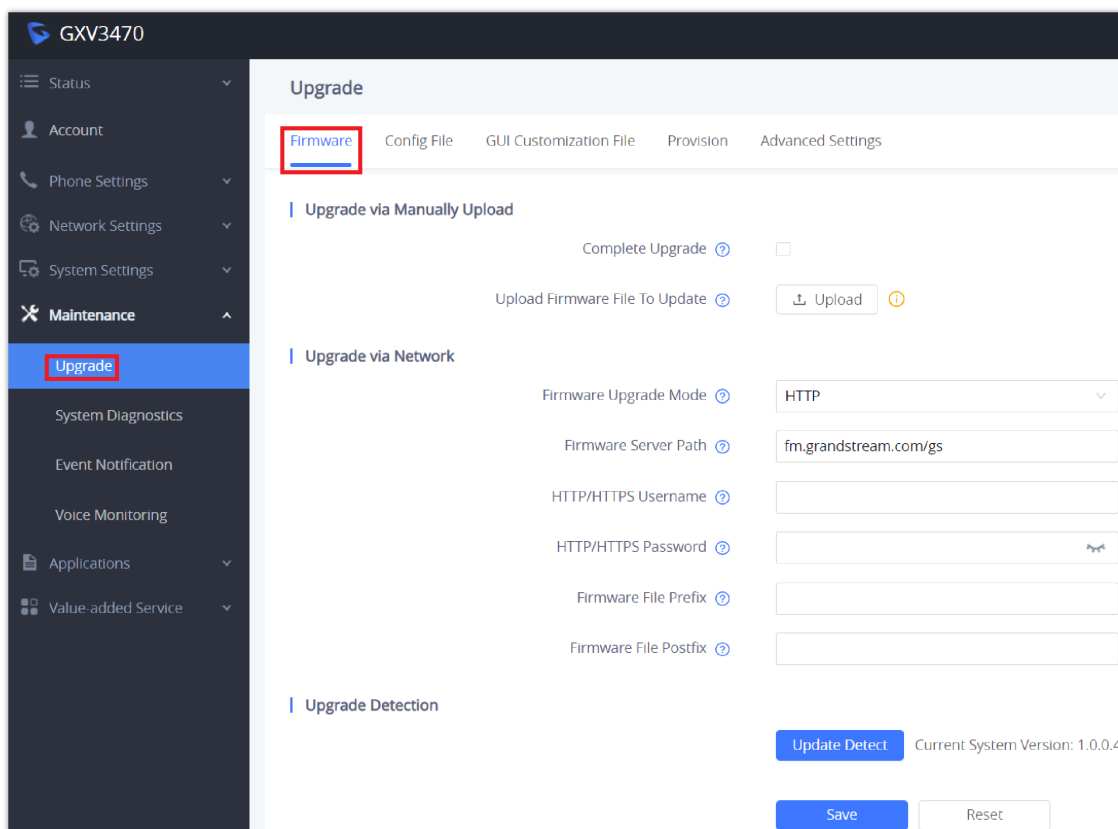


Figure 28: GXV3470 Upgrade Configuration via Web GUI

Warning

Please do not power off or unplug the GXV34x0 when the upgrading process is on.

Upload Firmware Locally

If there is no HTTP/TFTP server, users could also upload the firmware to the GXV34x0 directly via Web GUI. Please follow the steps below to upload firmware to GXV34x0 locally.

1. Download the latest GXV34x0 firmware file from the following link and save it in your PC.

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

2. Log in the Web GUI as administrator in the PC.
3. Go to Web GUI→**Maintenance**→**Upgrade**.
4. Click 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 GXV34x0 LCD.
7. The phone will reboot again with the new firmware version upgraded.

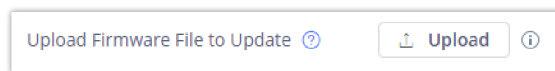


Figure 29: Upload Firmware File to Update

Upgrade via USB flash drive

For users that could not use remote upgrade or could not access the phone's Web GUI to upload firmware, upgrading via USB flash drive is an alternative. Follow the steps below to upgrade GXV34x0 USB flash drive.

Step 1: Plug in USB flash drive into your PC USB (Type-A) port. Download the firmware file to PC and save it in the root directory of USB flash drive.

Note:

- You can copy firmware to different USB flash drives. Multiple GXV340 upgrades can be performed simultaneously.
- Please make sure the firmware filename is **gxv3480fw.bin, gxv3470fw.bin or gxv3450fw.bin**.

Step 2: Remove the USB flash drive from the PC and insert it to GXV34X0 USB (Type-A) Port.

Step 3: Wait for a moment, GXV34X0 will automatically detects the current version and the new version. Following pop-up window will displayed on LCD screen.

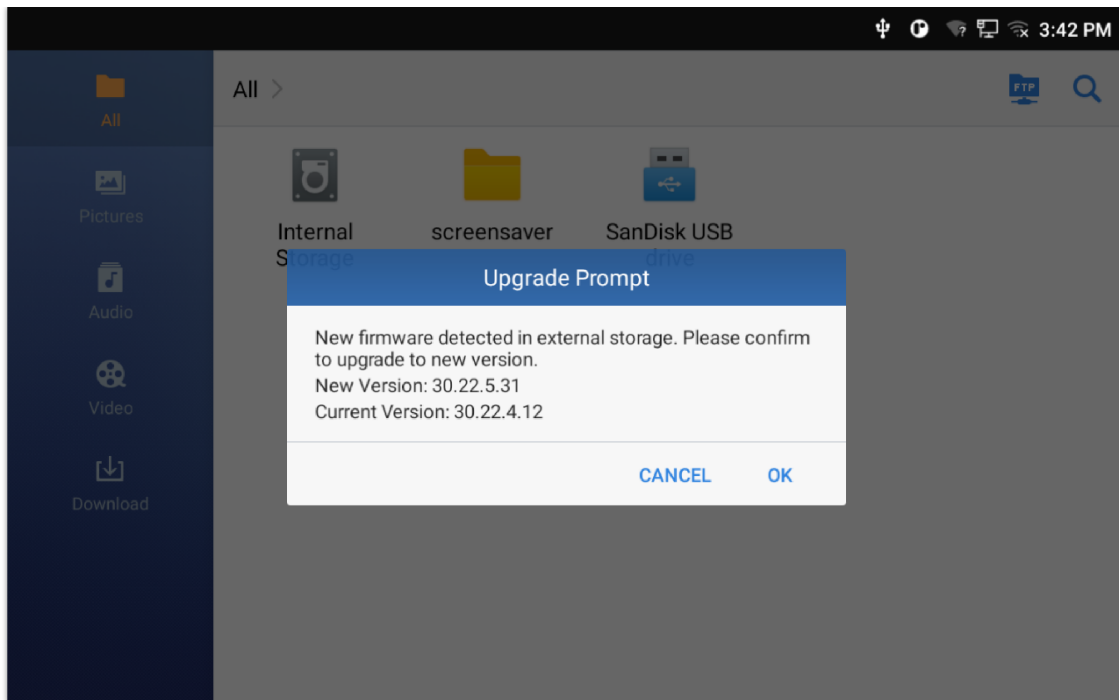


Figure 30: Upgrade Prompt

Step 4: Click "OK" , the device will perform upgrade automatically. This process will takes about 3 minutes.

Note: When prompted by this screen, ensure that the USB flash drive is inserted into the device.

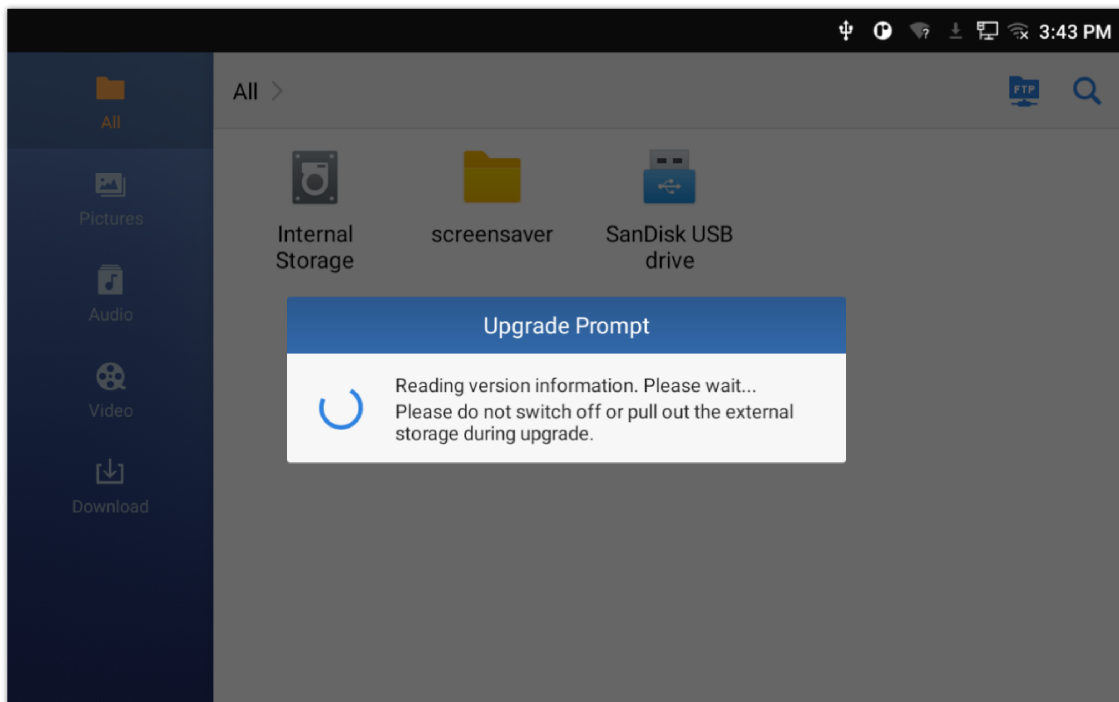


Figure 31: Reading version information

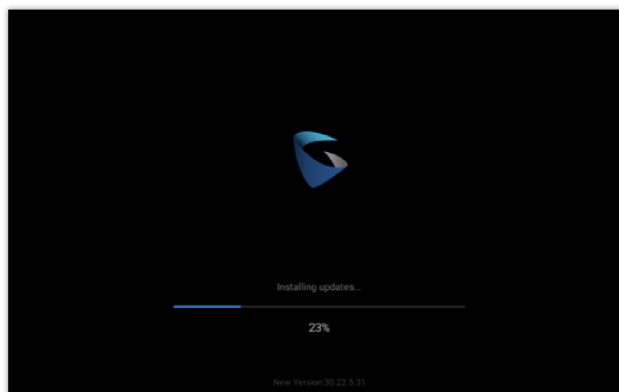


Figure 32: Installing Firmware

Step 5: Wait until the upgrading is done. The GXV34X0 will reboot itself. Go to **Settings ->Status->System Info** to check the firmware current version.

No Local Firmware Servers

Service providers should maintain their own firmware upgrade servers. For users who do not have a TFTP/HTTP/HTTPS server, some free Windows version TFTP servers are available for download from:

<https://www.solarwinds.com/free-tools/free-tftp-server> and <http://tftpd32.jounin.net/>.

Please check our web site at <https://www.grandstream.com/support/firmware> for latest firmware.

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 GXV34x0 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 GXV34x0.

End users can also choose to download a free HTTP server from <https://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→**System Settings**→**Security Settings**→**User Info Management** page. For a detailed parameter list, please refer to the corresponding firmware release configuration template in the following link:

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

When the GXV34x0 boots up, it will issue TFTP or HTTP request to download a configuration XML file named "cfgxxxxxxxxx" followed by "cfgxxxxxxxxx.xml", where "xxxxxxxxxx" is the MAC address of the phone, i.e., "cfg000b820102ab" and "cfg000b820102ab.xml". If downloading "cfgxxxxxxxxx.xml" file is not successful, the provision program will download a model specific file "cfggxv34x0.xml" then a generic cfg.xml file. The configuration file name should be in lower case letters.

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

<https://documentation.grandstream.com/knowledge-base/sip-device-provisioning-guide/>

Note:

When the prompt in the figure below shows up, it means the firmware/config authentication failed. So the user will be required to check the username/password on device web UI → Maintenance → Upgrade:

Firmware HTTP/HTTPS username

Firmware HTTP/HTTPS password

Config HTTP/HTTPS username

Config HTTP/HTTPS password

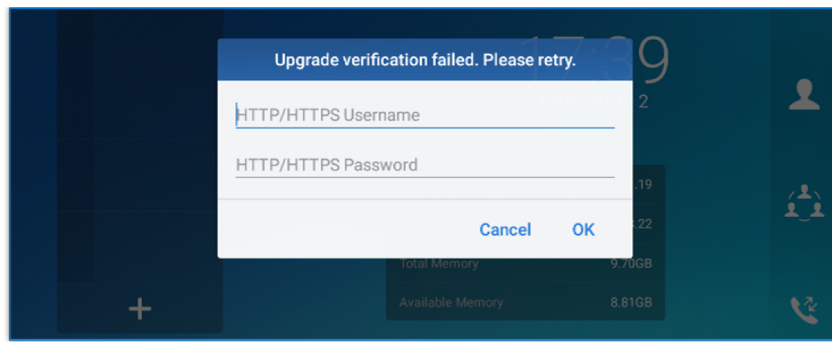


Figure 33: Config File Upgrade Verification

FACTORY RESET

Restore to Factory Default via LCD Menu

Warning

Restoring the Factory Default Settings will delete all configuration information on the phone. Please save 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 provide

In order to restore the GXV34x0 unit to factory reset via the LCD Menu, please, refer to the following steps:

1. On GXV34x0 idle screen, go to **Settings → Advanced → System Security → Factory reset**.

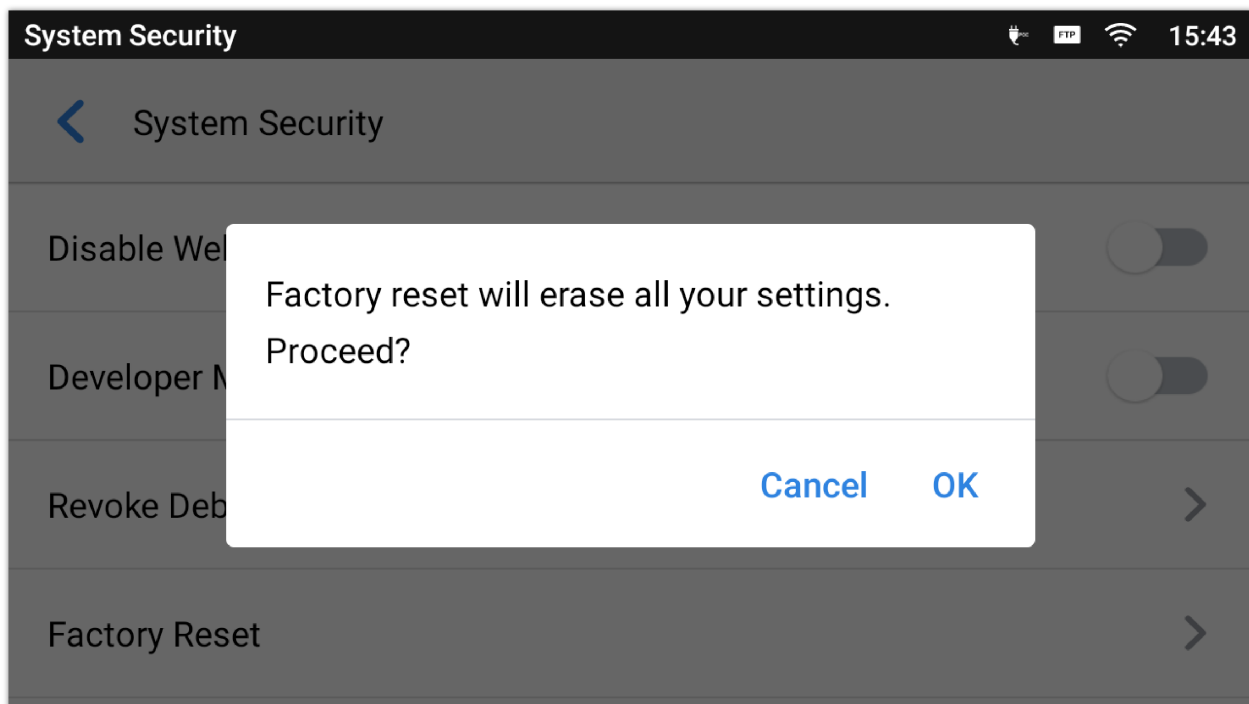


Figure 34: GXV34x0 LCD – Confirm Factory Reset

2. Tap on **OK** to confirm.

Restore to Factory Default via the Web GUI

1. Login GXV34x0 Web GUI and go to **Maintenance → Upgrade → Advanced Settings**.
2. At the bottom of the page, click on the **Reset** button for Factory reset.



Figure 35: GXV34x0 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.

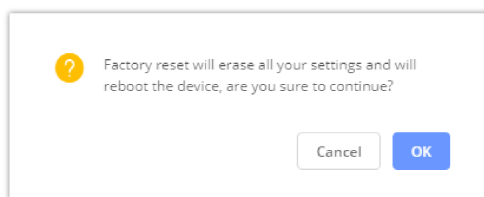




Figure 36: GXV34x0 Web GUI – Confirm Factory Reset

Restore to Factory Default via Hard Keys

For users that could not restore the GXV34x0 to factory reset via LCD Menu or the Web GUI, restoring the unit via Hard keys is an alternative. Please, follow the steps below to restore the GXV34x0 via Hard Keys:

1. Power cycle the GXV34x0.
2. Press and hold the numeric keypad 1+9 for more than 10s (GXV3450 support) or press and hold the reset pin hole for more than 10s (GXV3470 & GXV3480 support).
3. The LCD screen will display "Factory reset, please wait".
4. The GXV34x0 will reboot with factory default settings.

SAFE MODE

Users can enter safe mode by pressing the Menu button  during bootup. Before entering the safe mode, please power cycle the phone and when the plain text "GRANDSTREAM" shows up, immediately press and hold the Menu button  when the five buttons light up again after the top right LED flash ends. 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.

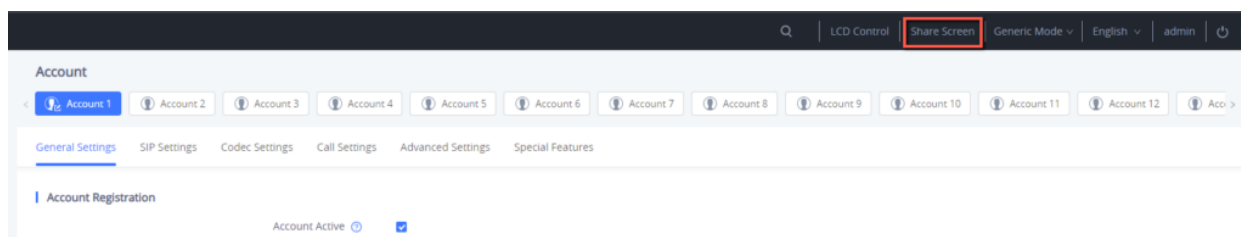
Screen Sharing

Screen Sharing is a feature available on the GXV34xx video phones series.

This feature allows the user to cast the presentation from a PC to destination display output.

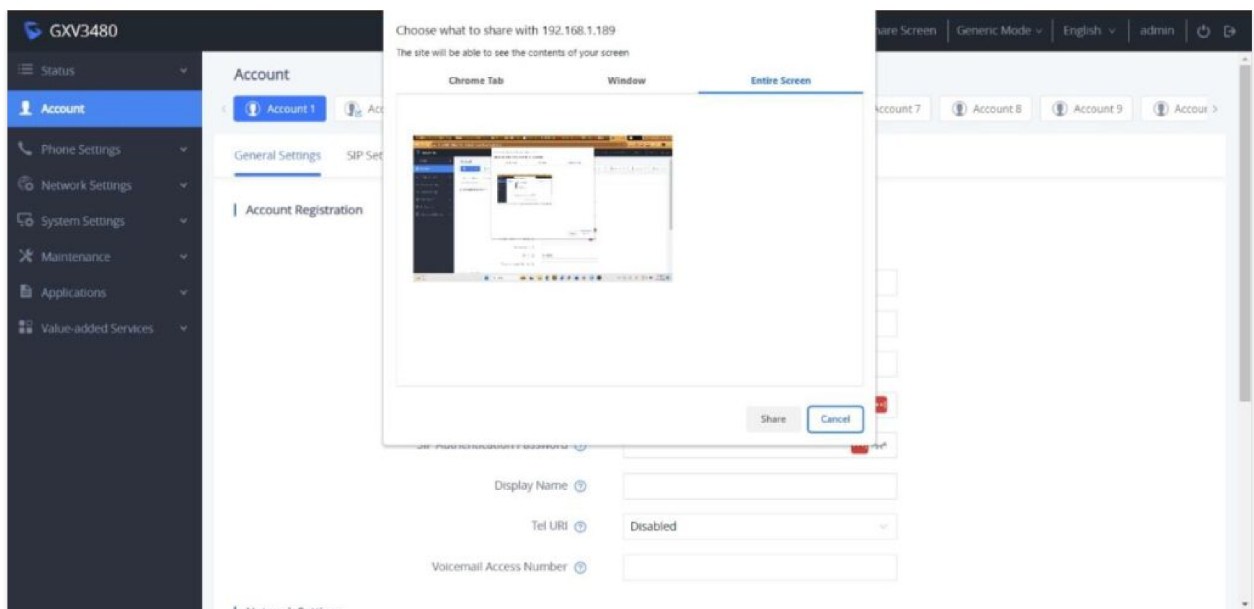
After logging in the web UI as administrator:

1. Click on the web UI -> Share Screen on the top right corner



Selecting screen sharing

2. Select an interface from the tabs. Then the other side would display the PC interface in the video call.



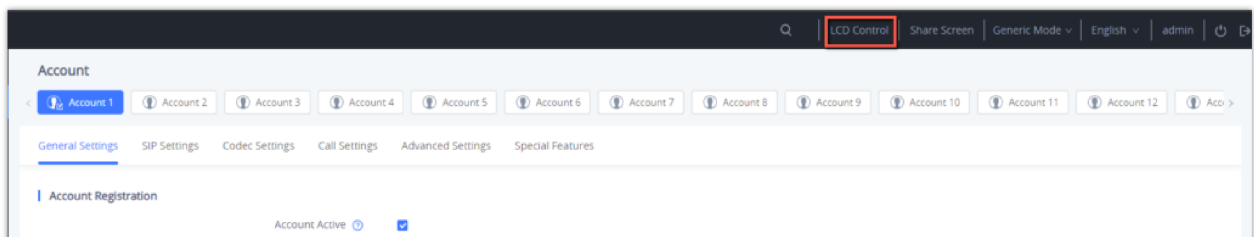
select interface

LCD Control

The LCD control feature is added to the GXV34xx video phone series starting from firmware 1.0.3.4, it allow the users to remotely access the LCD inteface of the GXV34xx video phone and modify its parameters as if it is being modified from the LCD screen directly.

To enable the LCD contro from web ui:

1. Enter the GXV34xx IP address on a browser.
2. Once connected to the web ui interface select the LCD Control option on the top right corner:



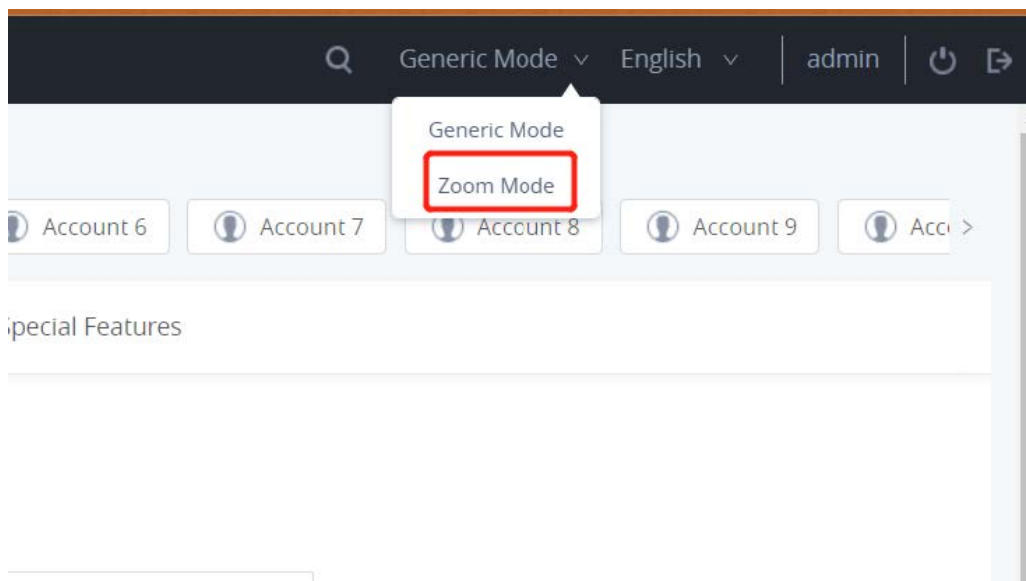
3. Once selected you will automatically be prompted with a pop up that displays a screen cast of the GXV34xx LCD screen, where you can modify the parameters of the device, in the same way you would on the actual device.



LCD Control interface

ZOOM MODE

Zoom Mode is added to the web UI to fully integrate the device with the Zoom app. Zoom Mode can be accessed from the web UI's top right corner, as shown below. The Zoom app will be launched automatically by the device. When enabled, the phone only runs the Zoom app.



Switching to Zoom mode

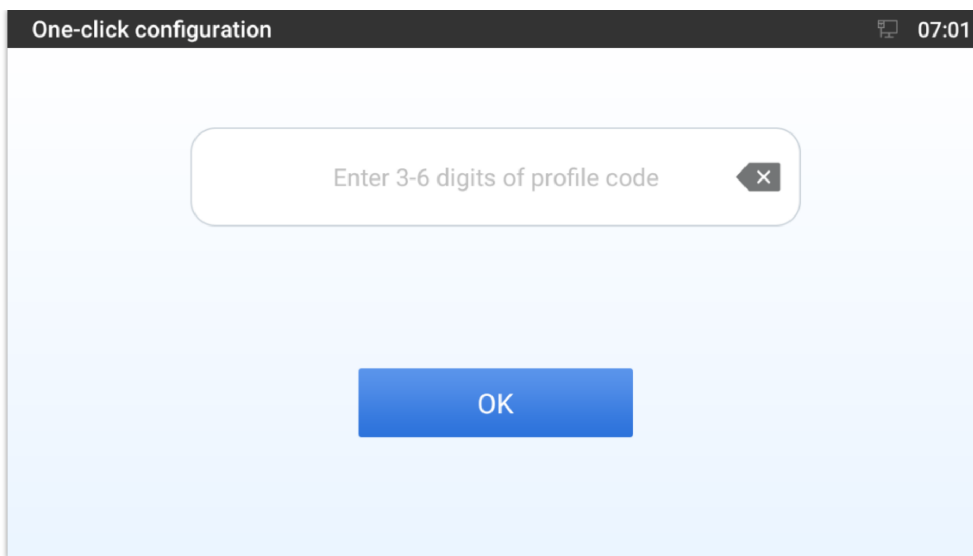
After enabling the zoom mode, Only The following Tabs will be available for preview or configuration:

- **Status**
 1. Network Status
 2. System info
- **Network Settings**
 1. Ethernet Settings
 2. Wi-Fi Settings
 3. OpenVPN Settings
 4. Advanced Network Settings
 5. SNMP Settings
- **System Settings**
 1. Time and Language
 2. Security Settings
 3. Preferences
 4. TR069
- **Maintenance**
 1. Upgrade
 2. System Diagnostics

ONE-CLICK CONFIGURATION

"One Click Configuration" is a specialized application designed to simplify the Process of SIP registration of the GXV Phones on the same network as the GCC601X.

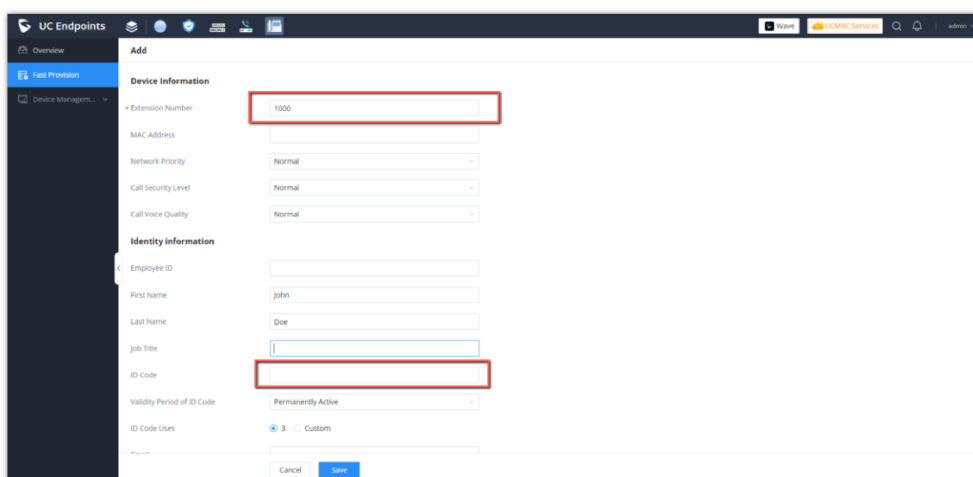
Its primary function is to help provision an account from the PBX module of the GCC601x to a designated GXV device within the same network as the GCC.



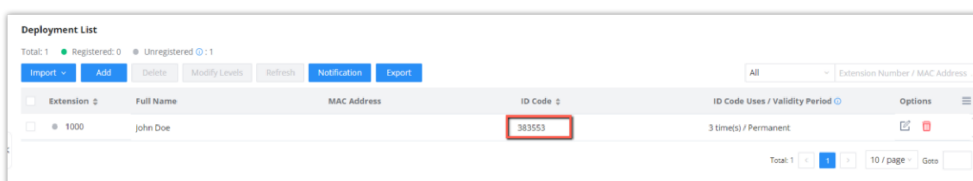
One-Click Configuration

How it works

- When your GXV34xx device boots up on the same network as GCC601X, the app is ready to help provision an account from the GCC device.
- Create the extension that you want provision to the GXV device under the UC Endpoints module of the GCC601X, once created, an automatic 6-digits ID code will be generated for the specific extension, you can also manually provide a pin for the extension between 3-6 digits.



Manually provided ID code

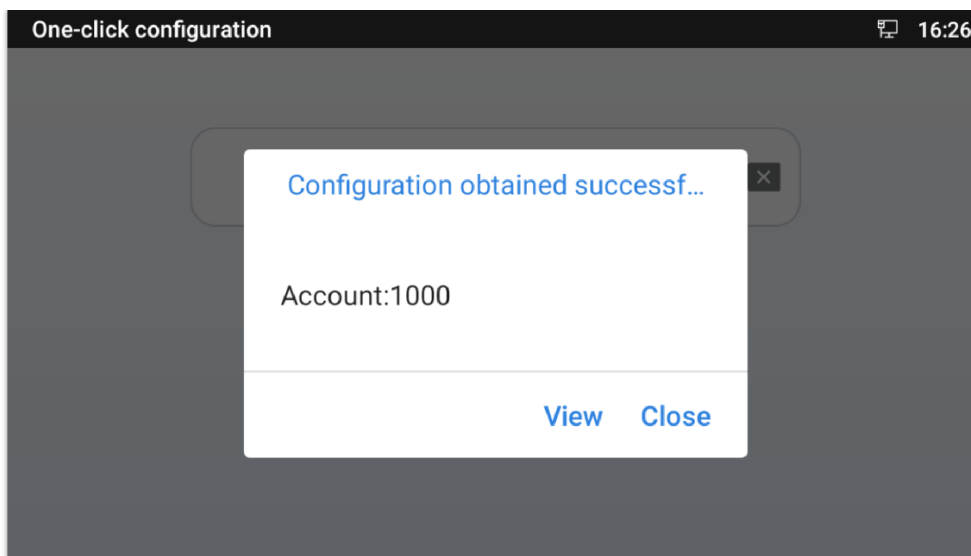


Automatically generated ID Code

Note

The user have the possibility to import an excel file containing the extension numbers, then the ID codes will be automatically generated for each extension individually, the maximum number of extensions to be included in the excel file is 12 extensions.

- Open the One-click configuration app, then simply input the unique ID code provided by GCC601X under the Fast Provision section of the UC Endpoints module of the GCC device.
- The app verifies the entered profile code to ensure it's correct and authentic.



- Once the code is validated, the GCC610x/W automatically provisions the assigned account to your GXV device.

Deployment List						
Total: 8 ● Registered: 1 ● Unregistered: 7						
Import Add Delete Modify Levels Refresh Notification Export						
Extension	Full Name	MAC Address	ID Code	ID Code Uses / Validity Period	Options	
<input type="checkbox"/> 1000	Jonh Doe	c074adab0328	429014	3 times(s) / Permanent	🔗 🗑️	

- To prevent unauthorized access attempts, the app temporarily suspends provisioning for a brief period (typically 15 minutes) if the profile code is incorrectly entered multiple times.

“One-Click Configuration” simplifies the setup process for GXV34xx devices by automating the provisioning of assigned accounts based on a unique profile code, while also implementing security measures to safeguard against unauthorized access attempts.

EXPERIENCING THE GXV34x0 APPLICATION PHONE

Please visit our website: <https://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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* **Zoom is Registered Trademarks of Zoom Video Communications, Inc.**

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

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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 guide, could void your manufacturer warranty.

WARNING

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

FCC 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 generates, 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 or more 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.

The device complies with FCC radiation exposure limits set forth in an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

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.

Caution

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE DECLARATION OF CONFORMITY

This transmitter complies with the essential requirements and provisions of directives 2014/53/EU, 2014/30/EU, 2015/35/EU and subsequent amendments, according to standards

Draft ETSI EN 301 489-1 V2.2.1; Draft ETSI EN 301 489-17 V3.2.0;

EN 55032:2015 /AC:2016; EN55035:2017; EN61000-3-3:2013; EN 61000-3-2:2014



Manufacturer: Grandstream Networks, Inc.126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

Caution: Exposure to Radio Frequency Radiation

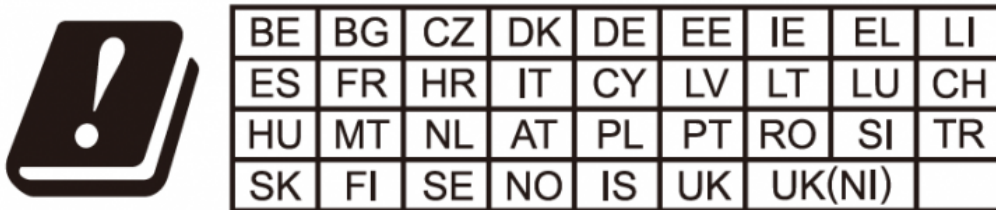
EUT Feature				
Tx/Rx Frequency Range	2402~2480 MHz	2402~2480 MHz	2412~2472 MHz	5150~5250 MHz 5250~5350 MHz 5470~5725 MHz
Number of Channels	79	40 (37 hopping + 3 advertising channels)	13	UNII Band I: 802.11a/n-HT20-VHT20: 4 channels 802.11n/ ac -HT40-VHT40: 2 channels 802.11ac-VHT80:1 Channel UNII Band II: 802.11a/n-HT20-VHT20: 4 channels 802.11n/ ac -HT40-VHT40: 2 channels 802.11ac-VHT80:1 Channel UNII Band III: 802.11a/n-HT20-VHT20: 11 channels 802.11n/ac-HT40-VHT40: 5 channels 802.11ac-VHT80:2 Channels
Carrier Frequency of Each Channel	f=2402+k MHz (k=0,1,2...,78)	f=2402+k MHz (k=0,2,4...,39)	-	-
Antenna Type/Gain	Internal PCB Antenna / gain 4.0 dBi	Internal PCB Antenna / gain 4.0 dBi	Internal PCB Antenna / gain 4.0 dBi	Internal PCB Antenna / gain 5.0 dBi

Type of Modulation	Bluetooth BR 1Mbps: GFSK	Bluetooth LE: GFSK	802.11b: DSSS (DBPSK / DQPSK / CCK)	802.11a/n/ac: OFDM (BPSK / QPSK / 16QAM / 64QAM)
	Bluetooth EDR 2Mbps: $\pi/4$ - DQPSK		802.11g/n: OFDM (BPSK / QPSK / 16QAM / 64 QAM)	
	Bluetooth EDR 3Mbps: 8DPSK			
Operation temperature	0 °C ~ +40 °C			
Storage temperature	-10 °C ~ +60 °C			
Humidity	10 ~ 90% non-condensing			
Domestic use	Industrial use Class B			

Table 52: EUT Feature

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

CE Authentication



In the UK and EU member states, operation of 5150-5350 MHz is restricted to indoor use only.



**For Certification, Warranty and RMA information,
please visit www.grandstream.com**

Hereby, Grandstream Networks, Inc. declares that the radio equipment GXV34x0 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.grandstream.com/support/resources/>

RF Power and Power Adapter Statement

WLAN		
Standard	Frequency	EIRP Power (dBm)
Wi-Fi 2.4G	2.4~2.4835GHz	18.70
Wi-Fi 5G	5.15~5.25GHz	22.06
5.25~5.35GHz	19.21	
5.47~5.725GHz	18.24	
Bluetooth		

Bluetooth version	EIRP Power (dBm)
EDR	12.14
LE	8.42

Table 53: RF Power and Power Adapter Statement

The power adapter is a power-off device.

GNU GPL INFORMATION

GXV34x0 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:

<https://blog.grandstream.com/faq/gnu-general-public-license/gnu-gpl-information-download>

CHANGE LOG

This section documents significant changes from previous versions of administration guide for GXV34x0. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

Firmware Version 1.0.3.24

Product Name: GXV3450

- Added Support for P-value P82307 to enable keeping syslog after factory reset. 1 – enabled, 0 – disabled. [[Syslog Protocol](#)]
- Added Support for “With secret key information” in One-click Debugging. [[With Secret key information](#)]
- Updated Local RTP Port valid range to avoid conflict with other services. [[Local RTP Port](#)]

Firmware Version 1.0.3.12

Product Name: GXV3480 / GXV3450 / GXV3470

- Added One-click Configuration app on LCD to integrate with GCC device. [[ONE-CLICK CONFIGURATION APP](#)]
- Supported displaying longer string on the Programmable Keys widget. [[DISPLAY LONG STRING](#)]
- Added option to retrieve user access. [[Enable User Web Access](#)]

Firmware Version 1.0.3.4

Product Name: GXV3480 / GXV3450 / GXV3470

- Added support for “Account Disaster Recovery” under web UI Phone Settings. [[Account Disaster Recovery](#)]
- Added support for remote access to the web UI via GDMS device options menu. [[Upgrade/Provisioning](#)]
- Added support for Remote Phonebook on web UI. [[Remote Phonebook](#)]
- Added support for Enterprise Directories on web UI. [[Enterprise Directories](#)]
- Added support for web screen sharing. [[Screen Sharing](#)]
- Added LCD Control on web UI. [[LCD Control](#)]
- Added support to enable/disable screenshot control. [[Enable Screenshot](#)]
- Added support for VP8 video codec in web UI account codec settings. [[Preferred Video Codec](#)]
- Applications/ContactsAdded support for G.722.1 and G.722.1C audio codecs in web UI account codec settings. [[Preferred Audio Codec](#)]
- Added support for Dynamic lock. [[Dynamic Lock](#)]
- Added support for Virtual Background. [[Virtual Background](#)]

- Supported Schedule Tasks from web UI. [[Scheduled Tasks](#)]
- Increase contact maximum volume to 2000 inputs. [[Contacts](#)]

Firmware Version 1.0.1.33

Product Name: GXV3480 / GXV3450 / GXV3470

- Supported up to 25 value-added services. [[Value-added Service](#)]
- Supported sorting LDAP result by number from web UI. [[LDAP SORTING](#)]
- Removed the default STUN server from web UI. [[STUN Server](#)]

Firmware Version 1.0.1.29

Product Name: GXV3480 / GXV3450 / GXV3470

- Added option to enable/disable local camera. [[ENABLE/DISABLE LOCAL CAMERA](#)]

Firmware Version 1.0.1.21

Product Name: GXV3480 / GXV3450 / GXV3470

- Added Support for Zoom Mode. [[Zoom mode](#)]

Firmware Version 1.0.1.16

Product Name: GXV3480 / GXV3450

- Updated settings layout in web UI account settings.

Product Name: GXV3470

- Updated settings layout in web UI account settings.
- Added Save & Apply button for account settings. [[Account settings](#)]

Firmware Version 1.0.1.1

Product Name: GXV3480 / GXV3450

- This is the Initial Version.

Firmware Version 1.0.0.4

Product Name: GXV3470

- This is the Initial Version.

Need Support?

Can't find the answer you're looking for? Don't worry we're here to help!

CONTACT SUPPORT