GXV3450/3470/3480 FIRMWARE RELEASE NOTES

IMPORTANT UPGRADING NOTE

Hardware	Firmware Version	Restrictions and Cautions
GXV3450 GXV3470 GXV3480	1.92.5.48	Cannot downgraded to 1.0.5.35 or lower.
GXV3480 HW V2.2A	1.0.5.40+	Cannot downgraded to 1.0.5.35 or lower.
GXV3480 HW2.0A	1.0.5.26+	Cannot downgrade to 1.0.5.14 or lower.
GXV3450 GXV3470 GXV3480	1.0.5.x+	Cannot downgrade to 1.0.3.x or lower. Warning: When upgrading GXV34xx from 1.0.3.x to 1.0.5.14, the device will perform factory reset automatically. To prevent data loss, please ensure to back up your data before upgrading to 1.0.5.14, using “Backup and Restore” app on GXV34xx LCD menu. Export the backup file from GXV34xx and save it in external storage. After upgrading, please use “Backup and Restore” app again to restore the backup file on GXV34xx.
GXV3450 HW2.2A GXV3470 HW2.2A	1.0.3.32+	Cannot downgrade to 1.0.3.24 or lower.
GXV3470 all hardware except HW2.1A	1.0.3.7+	Cannot downgrade to 1.0.3.4 or 1.0.1.x.
GXV3470 HW2.1A	1.0.3.11+	Cannot downgrade to 1.0.3.4 or 1.0.1.x.
GXV3480 HW1.7A	1.0.3.11+	Cannot downgrade to 1.0.3.4 or 1.0.1.x.
GXV3450 GXV3470 GXV3480	1.0.3.4+	Cannot downgrade to 1.0.1.x due to security restriction.
GXV3480 HW1.6A	1.0.1.32+	Cannot downgrade to a lower firmware version.
GXV3480 HW1.5A	1.0.1.23+	Cannot downgrade to a lower firmware version.
GXV3450 GXV3470 GXV3480	1.0.1.16+	Cannot downgrade to a lower firmware version.

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FIRMWARE VERSION 1.92.5.48

PRODUCT NAME

GXV3450, GXV3470, GXV3480

DATE

11/09/2026

COMPONENT VERSIONS

System 1.92.5.48; U-boot 1.92.5.33; Boot 1.92.5.48; CPE 1.0.5.27

FIRMWARE FILE INFORMATION

- GXV3450 firmware file name: gxv3450fw.bin
  MD5: 95f839fc0f7ca5b7d327fe0b00bf3670
- GXV3470 firmware file name: gxv3470fw.bin
  MD5: 58e5e8fefc373bf1021ef5ced3608a81
- GXV3480 firmware file name: gxv3480fw.bin
  MD5: 0f530443aa12b802abcdf387ca358779

CHANGES SINCE FIRMWARE VERSION 1.0.5.35

ENHANCEMENTS

- Addressed multiple security vulnerabilities involving unauthorized file access and modification, command injection, password disclosure, privilege escalation, and weak authentication mechanisms.
- Strengthened system security by protecting configuration and memory access, reducing unnecessary privileges, improving credential protection, and removing compromised eMudhra CA root certificates.
- Enhanced protection against remote and local code execution risks across Linux kernel, Brotli decompression, system proxy, and service components.
- Fixed multiple Bluetooth security vulnerabilities related to secure pairing, memory handling, remote code execution, and encrypted audio transmission.
- Improved STUN/TURN Server username/password security.
- Added support for the verification of the firmware signature during the provision/upgrade process. If the signature is invalid, the process will be rejected.
- Added support for requiring admin password for app install/uninstall permission.
- Incorporated some other fixes for multiple reported CVEs to further strengthen the overall security posture of GXV34xx
- Added support for Zoom Multiple Party Conference. [MULTIPLE PARTY CONFERENCE]
- Added Multiple Party Conference control alias for Zoom. [MPC CONTROL for ZOOM]
- Added support for Zoom Multi-line Appearance and Separate Outbound Caller ID. [MLA AND

OUTBOUND CALLER-ID]

- Added support for call feature codes and making them globally used. [LOCAL FEATURE CODES]
- Added support for sending syslog automatically after factory reset. [SYSLOG FROM FACTORY RESET]
- Added support for provisioning the call function buttons. [PROVISION CALL FUNCTION BUTTONS]
- Added support for clearing user data when different users log in. [CLEAR USER DATA ON LOG IN]
- Added support for Active Call Monitor on LCD for Zoom. [ACTIVE CALL MONITOR for ZOOM]
- Added support for displaying a quality icon and data for the active call. [CALL QUALITY ICON]
- Added support for enabling Opus Audio In-Band FEC. [OPUS INBAND FEC]
- Added support for include P-Asserted-Identity Header. [PAI HEADER]
- Added support for account selection for dialing. [ACCOUNT FOR DIAL]
- Added support for provision "Preferred Contact Sources" setting via alias. [PREFERRED CONTACT SOURCES]
- Added support for bulk CA certificate provisioning through XML file.
- Added support for REMB (Receiver Estimated Maximum Bitrate) in media.
- Added support for REMB negotiation for uplink and TWCC negotiation for downlink.
- Added support for each Line key can handle calls separately under one SLA account on Zoom.
- Added support for Programmable Keys app automatically closing after the call is ended.
- Added API support to retrieve CPU usage and memory information.
- Improved web UI prompt wordings.
- Improved the LCD account widget to be unremovable from desktop.
- Improved the UI for the Zoom monitoring features, active call and holding the call, such as adding a New Call button in the holding interface.
- Added support for the widgets "Call Forward Settings" and "Multicast Listening" in GUI Config Tool.
- Improved the call button for Zoom special mode to be a single button.
- Improved the LDAP Contacts display in Contact app for Zoom platform.
- Improved the responsiveness of Call Park status updates.
- Improved the “Auto Unhold When Pressing Line Key” feature to be easier to swap active calls.

BUG FIXES

- Fixed Programmable Keys crash issue when dialing a number.
- Fixed registration failure when logging in using hot desking on Zoom.
- Fixed LCD Control fails to synchronize the LCD after closing it or web UI logout.
- Fixed incoming SRTP audio issue after Hold/Resume on RTPengine.
- Fixed the device has chances that account icon stays red after the call ends.
- Fixed video preview on GXV34xx causes the video display also on the other GSC device.
- Fixed SIP-INFO format DTMF could overlap with in-audio one.
- Fixed some issues on Media NAT traversal.
- Fixed device fails to place an outgoing call after receiving 489 for line-seize SUBSCRIBE for Zoom.
- Fixed some SIP accounts fail to apply CA certificates after re-provisioning with certificates deleted from web UI.
- Fixed the account widget could occasionally flash abnormally when resuming a held call.

- Fixed shared line held call retrieval does not display Caller ID on Zoom.
- Fixed caller cannot hear audio for the first 4 seconds after callee answers the call on Zoom.
- Fixed Outbound Caller ID in call history entry is not correctly displayed.
- Fixed USB port cannot be disabled via P-value provision.
- Fixed Japanese keyboard input method is missing from Settings.
- Fixed device fails to decode notification content into text in chances.
- Fixed Programmable Key may not fully display the text because of the key height in certain format.
- Fixed device has chances to not play audio for a few seconds after the call is being unheld.
- Fixed progress display issue in Recorder app.
- Fixed call waiting panel answer button does not match the call mode.
- Fixed invalid prompt during account registration.
- Fixed display issues in multiple scenarios, such as performing Zoom monitoring in a video call on Zoom platform, custom softkey with long string, incorrect prompt in active calls, etc.

NEW FEATURES OVERVIEW

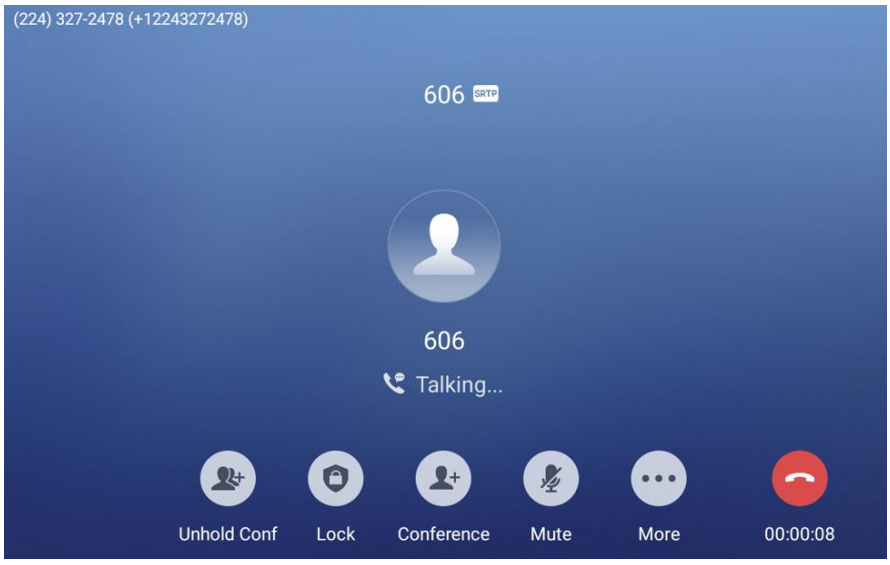
MULTIPLE PARTY CONFERENCE

- **Web Configuration**

Users need to configure the web UI -> Special Features -> Conference URI.

- **Functionality**

After configuring the Conference URI, during a call, user can tap on “Conference” or “Unhold Conf” button to establish a Zoom Multiple Party Conference. More configuration and instruction will be included in the Zoom Multiple Party Conference Configuration guide.



MPC CONTROL for ZOOM

- **Web Configuration**

There are no web UI controls for these settings because all controls are managed on Zoom platform.

- **Functionality**

Enable Multi-Party Conference: Configures whether the user can create an MPC.

No Hold Conference: Configures whether the user can create a No Hold Conference based on Enable MPC is on.

Hold MPC Participants: Configures whether the MPC moderator can hold other participants based on Enable MPC is on.

Please refer to the Zoom portal for the matching settings.

- **Configuration Parameters**

Configuration	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
Enable Multi-Party Conference	account.{x}.sip.networkConf.enable x: 1 - 16	"No" – Default "Yes"	P95040, 95140, ..., 96440, 96540	Number: 0 – No (Default) 1 – Yes
No Hold Conference	account.{x}.sip.networkConf.noHoldConf.enable x: 1 - 16	"No" – Default "Yes"	P95039, 95139, ..., 96439, 96539	Number: 0 – No (Default) 1 – Yes
Hold MPC Participants	account.{x}.sip.networkConf.holdParticipants.enable x: 1 - 16	"No" – Default "Yes"	P95041, 95141, ..., 96441, 96541	Number: 0 – No (Default) 1 – Yes

MLA AND OUTBOUND CALLER-ID

- **Web Configuration**

On web UI -> Applications -> Programmable Keys.

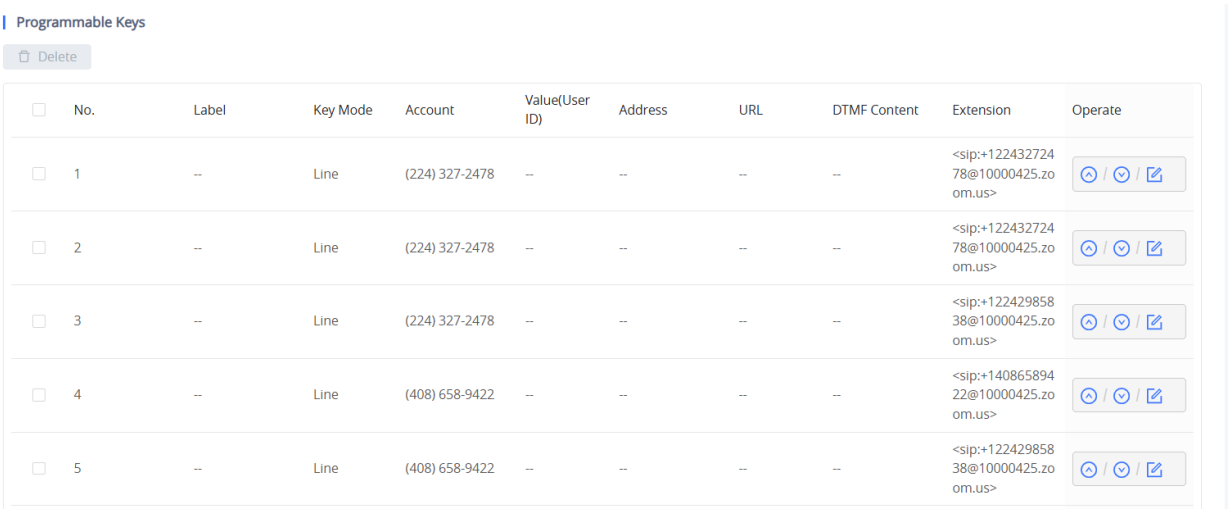
- **Functionality**

From Zoom portal, the user can provision the same extension for multiple Line mode programmable keys with assigned Outbound Caller-ID. The Outbound Caller-ID will be extracted from Extension field in certain format. The Outbound Caller-ID can only be provisioned from Zoom portal and cannot be edited on web UI.

Example:

<item name="pks.mpk.1.extension"><sip:+112345790@10000425.zoom.us></item>

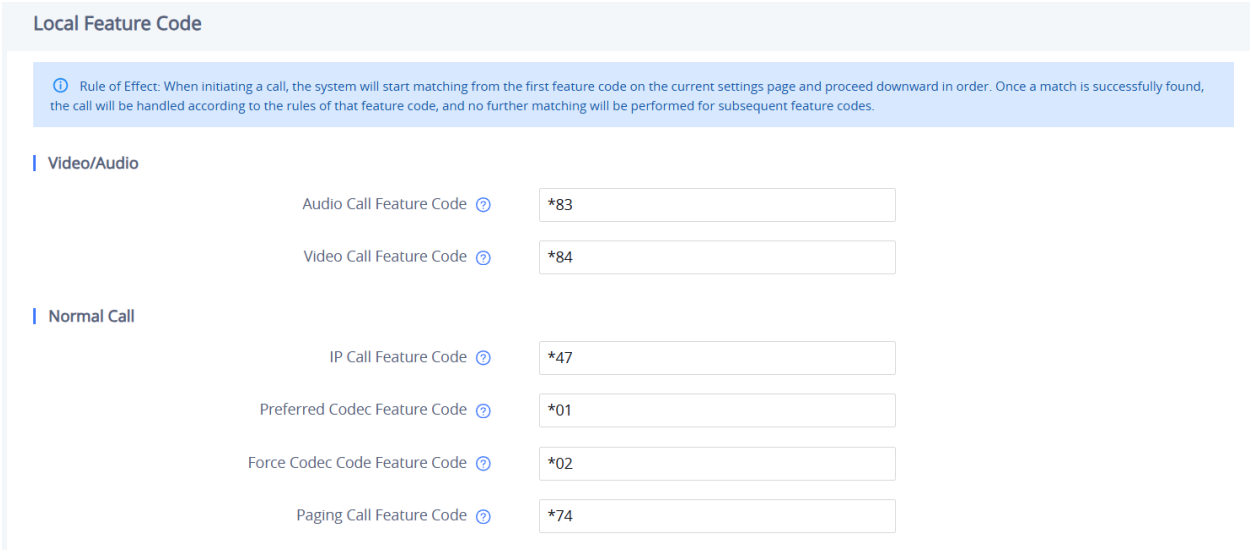
P37200=<sip:+112345790@10000425.zoom.us>



LOCAL FEATURE CODES

- **Web Configuration**

"Local Feature Code" is under web UI -> Phone Settings -> Local Feature Code.



- **Functionality**

When initiating a call, the system will start matching from the first feature code on the current settings page and proceed downward in order. Once a match is successfully found, the call will be handled according to the rules of that feature code, and no further matching will be performed for subsequent feature codes. For Preferred Codec Feature Code and Force Codec Code Feature Code, to force using PCMU when initiating a call, use "Feature Code + 7110 + Extension".

- **Configuration Parameters**

Web UI Configuration	Alias Parameter	P Number Parameter

	Alias Name	Alias Values/Range	P Number	P Value/Range
Audio Call Feature Code	localFeatureCodes.call.videoOn	String	P8751	String
Video Call Feature Code	localFeatureCodes.call.videoOn	String	P8750	String
IP Call Feature Code	localFeatureCodes.call.directIp	String	P8752	String
Preferred Codec Feature Code	localFeatureCodes.call.preferredCodec	String: Feature Code + codec number + target 7110 - PCMU 7111 - PCMA 723 - G723 72632 - G726-32 729 - G729A/B 722 - G722 7201 - iLBC 7205 - OPUS 72616 - G726-16 72624 - G726-24 72640 - G726-40 7200 - GSM 7702 - L16 7203 – AMR	P8753	String: Feature Code + codec number + target 7110 - PCMU 7111 - PCMA 723 - G723 72632 - G726-32 729 - G729A/B 722 - G722 7201 - iLBC 7205 - OPUS 72616 - G726-16 72624 - G726-24 72640 - G726-40 7200 - GSM 7702 - L16 7203 - AMR
Force Codec Code Feature Code	localFeatureCodes.call.forceCodec	String: Feature Code + codec number + target 7110 - PCMU 7111 - PCMA 723 - G723 72632 - G726-32 729 - G729A/B 722 - G722 7201 - iLBC 7205 - OPUS 72616 - G726-16 72624 - G726-24 72640 - G726-40 7200 - GSM 7702 - L16 7203 – AMR	P8754	String: Feature Code + codec number + target 7110 - PCMU 7111 - PCMA 723 - G723 72632 - G726-32 729 - G729A/B 722 - G722 7201 - iLBC 7205 - OPUS 72616 - G726-16 72624 - G726-24 72640 - G726-40 7200 - GSM 7702 - L16 7203 - AMR
Paging Call Feature Code	localFeatureCodes.call.paging	String	P8755	String
Enable SRTP Feature Code	localFeatureCodes.set.srtpOn	String	P8756	String
Disable SRTP Feature Code	localFeatureCodes.set.srtpOff	String	P8757	String

Force Use SRTP Call Feature Code	localFeatureCodes.call.srtpOn	String	P8758	String
Force Not Use SRTP Call Feature Code	localFeatureCodes.call.srtpOff	String	P8759	String
Enable Global Anonymous Call Feature Code	localFeatureCodes.set.anonymousCallOn	String	P8760	String
Disable Global Anonymous Call Feature Code	localFeatureCodes.set.anonymousCallOff	String	P8761	String
Anonymous Call Feature Code	localFeatureCodes.call.anonymousCallOn	String	P8762	String
Non-Anonymous Call Feature Code	localFeatureCodes.call.non-anonymousCallOff	String	P8763	String
Hide Callee-ID Call Feature Code	localFeatureCodes.call.hideCallee	String	P8764	String
Enable Call Waiting Feature Code	localFeatureCodes.set.callWaitingOn	String	P8765	String
Disable Call Waiting Feature Code	localFeatureCodes.set.callWaitingOff	String	P8766	String
Initiate Call Waiting Call Feature Code	localFeatureCodes.call.callWaitingOn	String	P8767	String
Initiate Non Call Waiting Call Feature Code	localFeatureCodes.call.callWaitingOff	String	P8768	String
Enable Forward All Feature Code	localFeatureCodes.set.callForwardUnconditionallyOn	String	P8769	String
Disable Forward All Feature Code	localFeatureCodes.set.callForwardUnconditionallyOff	String	P8770	String
Enable Busy Forward Feature Code	localFeatureCodes.set.callForwardBusyOn	String	P8771	String
Disable Busy Forward Feature Code	localFeatureCodes.set.callForwardBusyOff	String	P8772	String
Enable No Answer Forward Feature Code	localFeatureCodes.set.callForwardDelayedOn	String	P8773	String

Disable No Answer Forward Feature Code	localFeatureCodes.set.callForwardDelayedOff	String	P8774	String

SYSLOG FROM FACTORY RESET

- **Web Configuration**

Web UI -> Maintenance -> System Diagnostics -> Syslog -> Maintain System Log Information after Factory Reset.



- **Functionality**

If enabled, syslog settings and internal logs will be saved across a factory reset.

- **Configuration Parameters**

Web UI Configuration	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
Maintain System Log Information after Factory Reset	maintain.syslog.persist.factoryreset	"No" – Default "Yes"	P82307	Number: 0 – No (Default) 1 – Yes

PROVISION CALL FUNCTION BUTTONS

- **Web Configuration**

Web UI -> Applications -> Programmable Keys -> Call Screen Softkeys -> Custom Softkey Layout.

- **Functionality**

Design the layout for call function buttons in call and conference call.

- **Configuration Parameters**

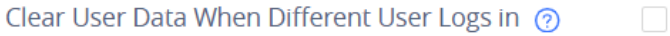
Web UI Configuration	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
One-Way Call Function Buttons	call.virtualKeys.inCalling	Number: 0 - Hold 1 - Mute 2 - Keyboard 3 - Transfer	P7089	Number: 0 - Hold 1 - Mute 2 - Keyboard 3 - Transfer

Conference Call Function Buttons	call.virtualKeys.inConference	4 - StartRecord 5 - StartVideo 7 - MPK 8 - CallCenter 9 - Conference 12 - AudioRoute 13 - CallDetails 14 - NewCall 15 - Invite 17 - VirtualGroup 18 - Custom1 19 - Custom2 20 - Custom3	P7090	4 - StartRecord 5 - StartVideo 7 - MPK 8 - CallCenter 9 - Conference 12 - AudioRoute 13 - CallDetails 14 - NewCall 15 - Invite 17 - VirtualGroup 18 - Custom1 19 - Custom2 20 - Custom3

CLEAR USER DATA ON LOG IN

- **Web Configuration**

Web UI -> Phone Settings -> General Settings -> Clear User Data When Different User Logs in.



- **Functionality**

When enabled, clear user data of previous account after new account is logged in.

- **Configuration Parameters**

Web UI Configuration	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
Clear User Data When Different User Logs in	(Not available yet. Will add it to config template later.)		P8628	Number: 0 – No (Default) 1 – Yes

ACTIVE CALL MONITOR for ZOOM

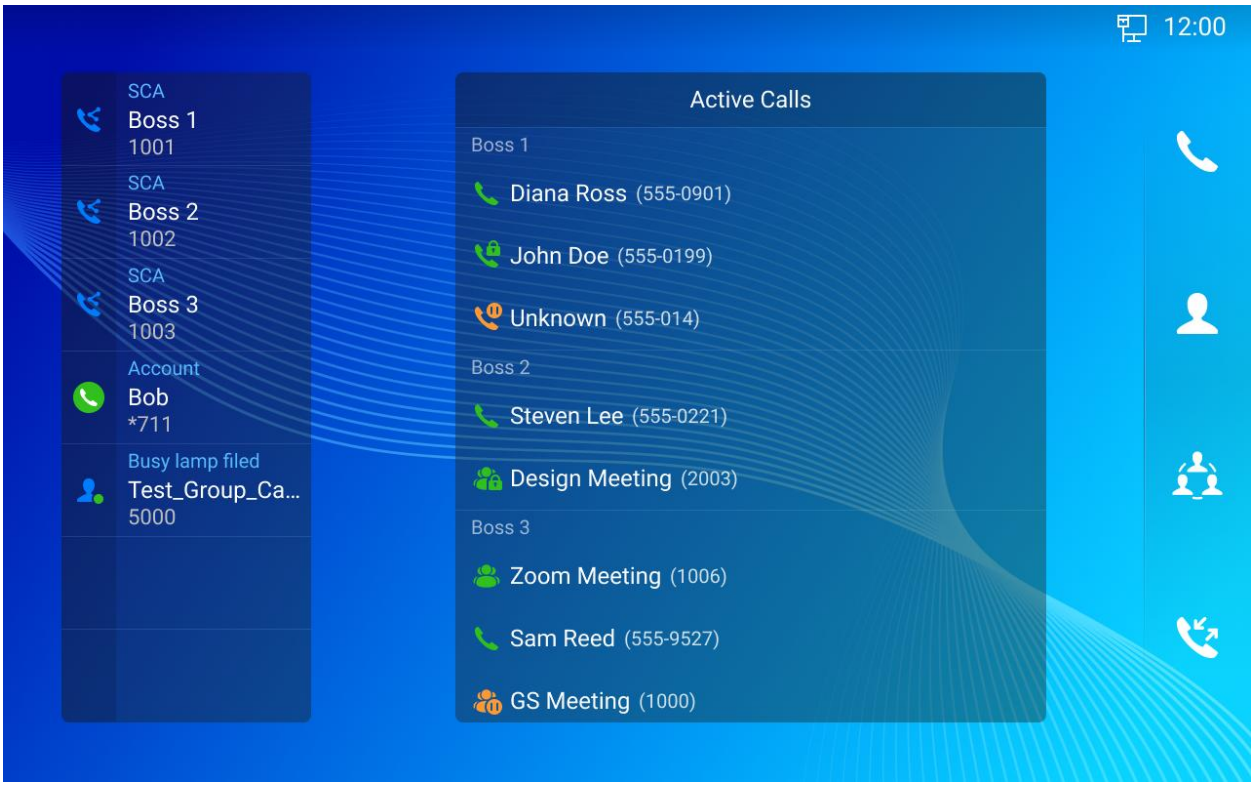
- **Web Configuration**

(N/A)

- **Functionality**

The new widget provides a more convenient way to monitor Shared Line Appearance (SLA) accounts on the X platform. It displays corresponding status icons to indicate various SLA states, such as an active call, public hold, participation in or holding of an MPC, and Privacy Lock on/off.

The widget also displays call statuses grouped under their corresponding lines in the Account Widget, making it easier for users to monitor activity across multiple SLA accounts. Below is an example display.



- **Configuration Parameters**

(N/A)

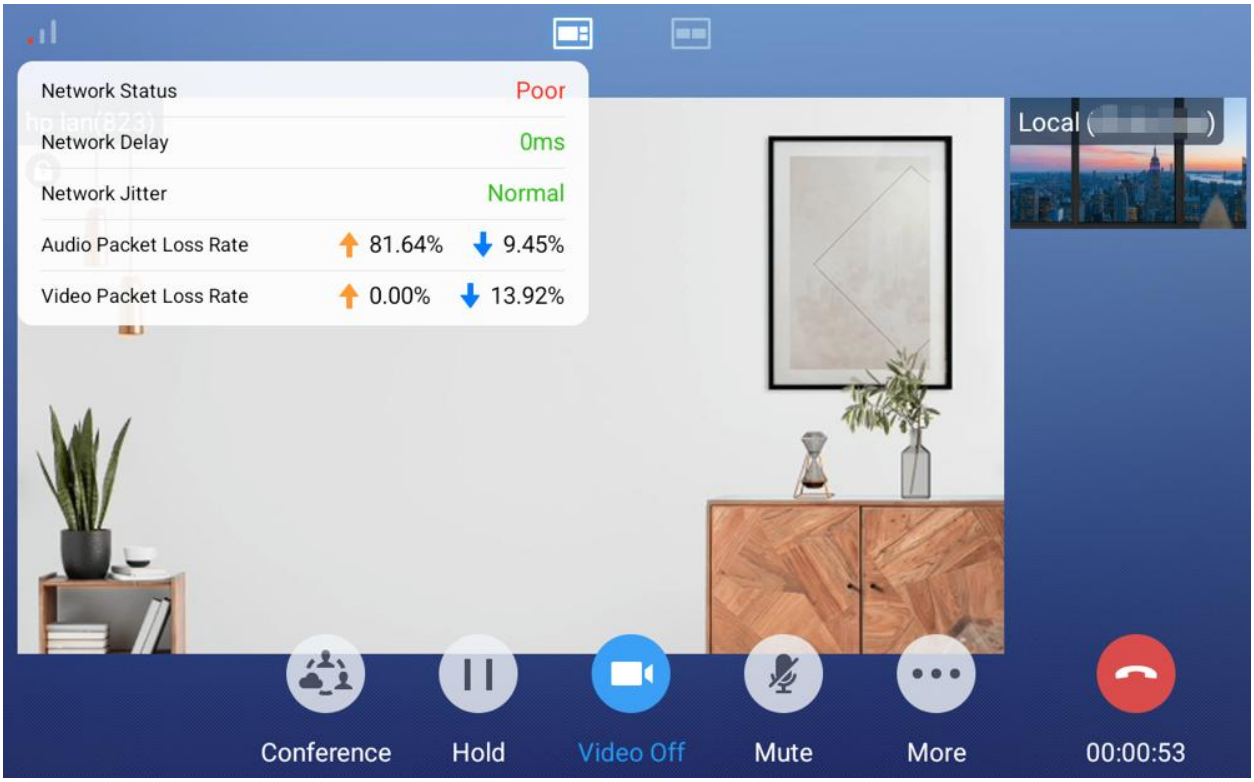
CALL QUALITY ICON

- **Web Configuration**

(N/A)

- **Functionality**

During the active call, users can tap on the signal icon on top left of the LCD to display more information regarding the call quality. Tap anywhere on the LCD to dismiss the prompt.



- **Configuration Parameters**

(N/A)

OPUS INBAND FEC

- **Web Configuration**

Users need to configure the web UI -> Account Settings -> Codec Settings.



- **Functionality**

Configures whether to enable Opus audio in-band FEC. When enabled, audio packets contain redundant error correction information, which can be used to repair audio frames in the event of minor packet loss, optimizing call quality in weak network conditions. This feature is only effective for Opus audio encoding.

- **Configuration Parameters**

Web UI Configuration	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
Enable Opus Audio In-Band FEC	account.{x}.audio.opus.inbandfec.enable	"No" – Default "Yes"	P95038, 95138, 95238, …, 96438, 96538	Number: 0 – No (Default) 1 – Yes

PAI HEADER

- **Web Configuration**

Users need to configure the web UI -> Account Settings -> SIP Settings.



- **Functionality**

Configures whether to include P-Asserted-Identity header in SIP request.

- **Configuration Parameters**

Use P-Asserted-Identity Header	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
Enable Opus Audio In-Band FEC	account.{x}.sip.header.pai	"No" – Default "Yes"	P29098, 29198, 29298, 29398, 29498, 29598, 53698, 53798, 53898, 53998, 54098, 54198, 54298, 54398, 54498, 54598	Number: 0 – No (Default) 1 – Yes

ACCOUNT FOR DIAL

- **Web Configuration**

Users need to configure the web UI -> Phone Settings -> Call Settings.



- **Functionality**

This setting determines the account selection mode when placing a call through the dialing interface.

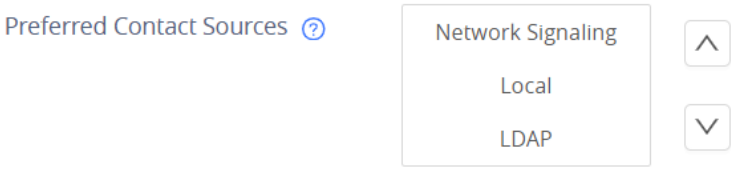
- **Configuration Parameters**

Use P-Asserted-Identity Header	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
Account Selection Mode for Dialing	call.dial.useAccount	"Auto" – Default "CurrentAccount"	P82363	Number: 0 – Auto (Default) 1 – CurrentAccount

PREFERRED CONTACT SOURCES

- **Web Configuration**

Web UI -> Phone Settings -> Call Settings -> Preferred Contact Sources.



- **Functionality**

Configures the priority of the contact ID source for incoming/outgoing calls displayed on the phone. Select one contact source and click the Up/Down arrow on the right to adjust the order.

- **Configuration Parameters**

Web UI Configuration	Alias Parameter		P Number Parameter	
	Alias Name	Alias Values/Range	P Number	P Value/Range
Preferred Contact Sources	contact.source.priority	0 – Local 1 – LDAP 3 – Network Signaling	P22439	Number: 0 – Local 1 – LDAP 3 – Network Signaling

PREVIOUS FIRMWARE VERSIONS

Version	Date	Firmware Information
1.92.5.48	11/09/2026	
1.0.5.35	07/28/2026	Release Notes
1.0.5.32	07/02/2026	Release Notes
1.0.5.29	05/08/2025	Release Notes
1.0.5.26	03/04/2026	Release Notes
1.0.5.15 (BETA)	10/16/2025	
1.0.5.14 (BETA)	08/25/2025	
1.0.3.32	03/31/2025	Release Notes
1.0.3.24	08/29/2024	Release Notes
1.0.3.12	04/26/2024	Release Notes
1.0.3.4	12/04/2023	
1.0.1.33	09/05/2023	Release Notes
1.0.1.32	08/03/2023	
1.0.1.29	06/25/2023	Release Notes
1.0.1.21	03/08/2023	Release Notes
1.0.1.16	12/22/2022	GXV3450 Release Notes GXV3470 Release Notes GXV3480 Release Notes