

GXW4216 V2/GXW4224 V2/GXW4232 V2/GXW4248 V2

Firmware Release Notes

IMPORTANT UPGRADING NOTE

- Once the GXW42xx V2 device is upgraded to 1.0.7.2, it cannot be downgraded to 1.0.5.4 or an earlier version due to the addition of 2nd generation individual certificates.
- GXW42xx V2 device uses a different firmware file from the GXW42xx V1 device. Please use the correct firmware file for V1 and V2 devices. To distinguish GXW42xx V2 device from V1 device, please check the label on the back of the device.
 - (1) GXW42xx V2 has "V2" printed for model name. For example, "Model: GXW4216 V2". If the model's name doesn't have V1 or V2 printed, the device is GXW42xx V1.
 - (2) GXW42xx V2 has the device password printed on the label. GXW42xx V1 does not have it.
- For GXW42xx V2 device on 1.0.1.4 or earlier version to upgrade to 1.0.3.4+, the HTTP firmware upgrade path is:
[firmware.grandstream.com/GXW42xx V2 1.0.3.9 for fw 1.0.1.4 or lower](http://firmware.grandstream.com/GXW42xx_V2_1.0.3.9_for_fw_1.0.1.4_or_lower)

After upgrading to 1.0.3.9, you can upgrade to latest firmware using HTTP firmware path:
firmware.grandstream.com
- For devices on firmware 1.0.1.4 or earlier, please use file "gxw42xxfw.v2.bin" to upgrade.
- For devices on firmware 1.0.3.1 or higher, please use file "gxw42xxv2fw.bin" to upgrade.
- Once the GXW42xx V2 device is upgraded to 1.0.3.x, it cannot be downgraded to 1.0.2 x or earlier version.

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FIRMWARE VERSION 1.0.25.2

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

05/23/2024

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: cd93ffcd8047010f26502ac5cd80c1ec
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: 9d43e89edf4099cfd0a9d7ce8e50dcd8
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: 934109f2261cbe2518f71f1af9972044
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: 0dd2b4994c174df158aae106e4fd8de8

ENHANCEMENT

- Add IVR support to check the device's individual certificate information.
- Add support of variable \$PN and \$MAC in Config Server Path.

BUG FIX

- Fixed unit can't establish SRTP Session after re-invite.
- Fixed a bug that caused the GXW device not to request the config file until a reboot.
- Fixed device continues to send the same credentials after the server responds with a 403 Forbidden.
- Fixed web UI wording change request for DNS SRV failover.
- Fixed device could use weak ciphers/key exchange for SSH.

FIRMWARE VERSION 1.0.25.1

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

04/26/2024

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: b7b8efa6c9770cd1024649a8a4388e1a
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: 275311195954abf9d91221b67d96f393
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: bebc5b66fa18c10eac262037f3d11001
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: eae705ecc47ee06a2410931740feff74

ENHANCEMENT

- Set the “Disable User Level Web Access” (P28158) to “Yes” by default.
- Set the “Disable Viewer Level Web Access” (P28159) to “Yes” by default.
- Force user to change the password upon first login using the default password to the Admin/User/Viewer Account.

BUG FIX

- Fixed an issue in the “Prompt Dial Tone Code” feature.

FIRMWARE VERSION 1.0.23.2

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

04/16/2024

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gwx4216v2fw.bin
MD5: 76ec50493c456d4b723542bcb6182e4c
- GXW4224 V2 firmware file name: gwx4224v2fw.bin
MD5: 9d3ff361ebc9d5ba9e59979ce8c739d8
- GXW4232 V2 firmware file name: gwx4232v2fw.bin
MD5: d54fbfd375495be0a7291eb1563a2c96
- GXV4248 V2 firmware file name: gwx4248v2fw.bin
MD5: 5b481ef418f0ee94ef667c5679191246

ENHANCEMENT

- Added Support for “Keep Security Setting After Reset”. [Keep Security Setting After Reset]

BUG FIX

- Fixed a bug that caused SRTP to decrypt RTP fail causing one-way audio after a 20+ minute call.
- Fixed an issue in no audio on 200ok/ack with UAS on outbound calls.
- Fixed a bug that caused the device cannot connect to the OpenVPN server.
- Fixed unit can't establish SRTP Session after re-invite.
- Fixed the users' report of heavy static noise in the FXS TX audio.
- Fixed the inaccurate encoding and decoding of DTMF durations with SIP Info.
- Fixed the remote party perceived echo issue.
- Fixed a bug that caused DDNS does not work.
- Fixed unit stops responding after a couple of hours.
- Fixed an echo issue on the answering machine.

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user's point of view.

Keep Security Setting After Reset

User can find the configuration section in Web -> Maintenance-> Security Settings-> Security

Validate Server Certificates No Yes
 Keep Security Setting After Reset No Yes
 Disable Weak TLS Cipher Suites

- **Functionality**

This feature depends on the reset lock feature. If enabled, security-related settings and trusted CA-related settings will be kept during different kinds of resetting.

Pvalue	Description	Value Range	Default
28849	Keep Security Setting After Reset	Number: 0 - No 1 - Yes	0 - No

FIRMWARE VERSION 1.0.21.2

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

12/11/2023

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gwx4216v2fw.bin
MD5: e85341789a1b6e63a9ec14ec1e3ab699
- GXW4224 V2 firmware file name: gwx4224v2fw.bin
MD5: 33bb149f0865b53d2df5f48f6c4c385f
- GXW4232 V2 firmware file name: gwx4232v2fw.bin
MD5: a1b2fd836c3920cbe428684c9a9a8ce6
- GXV4248 V2 firmware file name: gwx4248v2fw.bin
MD5: 24a04dcc6af08a0ae1e8acbf560f0ce0

ENHANCEMENT

- Added a “Provision” button which lets user provision manually via WebUI (Maintenance->Upgrade and Provisioning).
- Changed the order of download config file requests to cfgMAC.xml, cfgMAC, cfgMODEL.xml, and cfg.xml.

BUG FIX

- Fixed a bug that caused DDNS not to work.
- Fixed a bug that caused the unit to stop responding after a couple of hours.
- Fixed an Issue with the registration.
- Fixed inaccurate encoding and decoding of DTMF durations.
- Fixed inaccurate encoding and decoding of DTMF durations with SIP Info.
- Fixed an issue to lock/unlock extensions from analog phones using local feature code.

FIRMWARE VERSION 1.0.19.1

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

10/18/2023

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: df90c238f735b911e0f5ed6663b9463d
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: 2ff527d407393e2bee4bfe84bea248c9
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: b690d7e42bd2590d3951b367bd5b4a48
- GXW4248 V2 firmware file name: gxw4248v2fw.bin
MD5: 6faa1612321d88bd8415b21fe8ad141c

ENHANCEMENT

- Added new value "4 - Auto" in NAT Traversal(P52/730/630/614).
- Added support AVS DTMF Detector Parameter. [AVS DTMF Detector Parameters]
- Add the ability to force local ringback tone with 180 ringing SDP. [Use P-Early-Media Header] [Ringback Tone at No Early Media]
- Added support Radius auth protocol. [Radius Auth Protocol]
- Add ability to lock/unlock extension from analog phones using local feature code. [Radius Auth Protocol]

User can find the configuration section in Web -> Maintenance-> RADIUS.

ontrol NO YES

Action upon RADIUS Auth Server Error Reject Access Authenticate Locally

RADIUS Auth Protocol PAP ▼

RADIUS Auth Server Address

RADIUS Auth Server Port

- **Functionality**

This feature allows users to configure RADIUS authentication protocol.

Pvalue	Description	Value Range	Default
28803	RADIUS Auth Protocol	Number: 0 – PAP 1 – CHAP 2 – MsCHAPv1 3 – MsCHAPv2	0 – PAP

Port Lock Code] [Radius Auth Protocol

User can find the configuration section in Web -> Maintenance-> RADIUS.

ontrol NO YES

Action upon RADIUS Auth Server Error Reject Access Authenticate Locally

RADIUS Auth Protocol PAP ▼

RADIUS Auth Server Address

RADIUS Auth Server Port

- **Functionality**

This feature allows users to configure RADIUS authentication protocol.

Pvalue	Description	Value Range	Default
28803	RADIUS Auth Protocol	Number: 0 – PAP 1 – CHAP 2 – MsCHAPv1 3 – MsCHAPv2	0 – PAP

Port Lock Code

User can find the configuration section in Web -> Advanced Settings-> System Features.

Prompt Dial Tone Code

Port Lock Code

Play Busy Tone When Account is unregistered No Yes

• **Functionality**

This feature allows users to configure with star code to unlock port 1- 48 with the dial out code. The default is *21. The user is required to press *21 and the four-digit locking code twice to set the lock code. To make a call, the user requires to press *21 and then the locking code and then the actual number to dial out. If there is no locking code, the user dials out the actual number to make a call.

Pvalue	Description	Value Range	Default
24848	Port Lock Code	String: Digital Min Length 0 character Max Length 2 characters	21

Lock/Unlock Extension Code]

BUG FIX

- Fixed NAT Traversal does not have the "Auto" option.
- Fixed device the ringing frequency is "C=100/100;" , unable to answer.
- Fixed device sends registration information all the time.
- Fixed device produces core dump file when config Internet Protocol to "Both, prefer IPv6".
- Fixed FXS18 off hook failed after long time performance.
- Fixed the Call Waiting CID cannot be displayed.
- Fixed an echo issue during the call.
- Fixed wrong time when using DHCP option 2 for Timezone.
- Fixed device does not process DTMF on early media stage.
- Fixed the admin/Viewer/user password containing 'spaces' can be saved but not effective.
- Fixed using G723 to make phone calls and generate core files.
- Fixed unable to show caller ID when the number begins with "#".
- Fixed device didn't play DTMF tone when auxiliary equipment only supports in audio.
- Fixed AVS misreporting DTMF information during FXS calls.
- Fixed the Inaccurate encoding and decoding of DTMF durations with SIP Info.
- Fixed the DTMF tones cause device to not send audio.
- Fixed the poor echo processing during a call.
- Fixed device sends a fax to the auxiliary, and the response to be tested is 500.
- Fixed when the device starts requesting files, the LCD keeps flashing after turning off the server, and the page cannot be restarted.
- Fixed inaccurate encoding and decoding of DTMF durations.

- Fixed Gateway does not use NTP server from DHCP option 42.
- Fixed provisioning will reset some parameters.

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user's point of view.

AVS DTMF Detector Parameters

User can find the configuration section in Web -> Profile-> Audio Settings.

DSP DTMF Detector Min Level	<input type="text" value="-25"/>	dBm
DSP DTMF Detector SNR	<input type="text" value="1"/>	
DSP DTMF Detector Deviation	<input type="text" value="25"/>	%
DSP DTMF Detector Twist	<input type="text" value="5"/>	dB

- **Functionality**

This feature allows users to configure the AVS DTMF detector related parameters. DSP DTMF Detector Min Level sets the minimum level required for DTMF tone to be considered valid, DSP DTMF Detector SNR sets the Maximum signal-to-noise ratio required for DTMF tone to be considered valid, DSP DTMF Detector Deviation sets the deviation, above and below the central frequency, DSP DTMF Detector Twist sets the maximum value by which one frequency energy level can surpass another frequency energy level.

Pvalue	Description	Value Range	Default
28804 28805 28806 28807	DSP DTMF Detector Min Level	Number: -45 – 0	-25
28808 28809 28810 28811	DSP DTMF Detector SNR	Number: 0 – 2	1
28812 28813 28814 28815	DSP DTMF Detector Deviation	Number: 0 – 25	25
28816 28817 28818	DSP DTMF Detector Twist	Number: 0 – 12	5

28819			
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Use P-Early-Media Header

User can find the configuration section in Web -> Profile-> SIP Settings-> Basic Settings.

Use P-Emergency-Info Header No Yes

Use P-Asserted-Identity Header No Yes

Use P-Early-Media Header No Yes

SIP REGISTER Contact Header Uses LAN Address WAN Address

- **Functionality**

This feature allows users to configure the Use P-Early-Media Header. It controls whether the P-Early-Media Header support is enabled.

Pvalue	Description	Value Range	Default
60072	Use P-Early-Media Header	Number:	0 – No
60172		0 – No	
60272		1 – Yes	
60372			

Ringback Tone at No Early Media

User can find the configuration section in Web -> Profile-> Call Settings

Callee Flash to 3WC No Yes

Ring Timeout

Ringback Tone at No Early Media No Yes

Delayed Call Forward Wait Time

Send Anonymous No Yes

- **Functionality**

This feature allows users to configure the Ringback Tone at No Early Media. If yes, play ringback tone when there is no receiving early media RTP packets.

Pvalue	Description	Value Range	Default
60073	Ringback Tone at No Early Media	Number:	0 – No
60173		0 – No	
60273		1 – Yes	

60373			
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RADIUS Auth Protocol

User can find the configuration section in Web -> Maintenance-> RADIUS.

Control NO YES

Action upon RADIUS Auth Server Error Reject Access Authenticate Locally

RADIUS Auth Protocol

RADIUS Auth Server Address

RADIUS Auth Server Port

- Functionality**

This feature allows users to configure RADIUS authentication protocol.

Pvalue	Description	Value Range	Default
28803	RADIUS Auth Protocol	Number: 0 – PAP 1 – CHAP 2 – MsCHAPv1 3 – MsCHAPv2	0 – PAP

Port Lock Code

User can find the configuration section in Web -> Advanced Settings-> System Features.

Prompt Dial Tone Code

Port Lock Code

Play Busy Tone When Account is unregistered No Yes

- Functionality**

This feature allows users to configure with star code to unlock port 1- 48 with the dial out code. The default is *21. The user is required to press *21 and the four-digit locking code twice to set the lock code. To make a call, the user requires to press *21 and then the locking code and then the actual number to dial out. If there is no locking code, the user dials out the actual number to make a call.

Pvalue	Description	Value Range	Default
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24848	Port Lock Code	String: Digital Min Length 0 character Max Length 2 characters	21
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Lock/Unlock Extension Code

User can find the configuration section in Web -> FXS Ports-> Advanced Port Settings.

Advanced Port Settings

Port	Offhook Auto-dial	Hunting Group	Request URI Routing ID	Lock/Unlock extension code
FXS 1	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 2	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 3	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 4	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 5	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 6	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 7	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 8	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 9	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 10	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 11	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 12	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 13	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 14	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 15	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>
FXS 16	<input type="text"/>	None ▾	<input type="text"/>	<input type="text"/>

- Functionality**

This feature allows users to configure the locking extension for ports 1 to 48.

Pvalue	Description	Value Range	Default
24800 ~ 24847	Lock/Unlock extension code	String: Digital Min Length 4 characters Max Length 4 characters	(Null)

FIRMWARE VERSION 1.0.17.1

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

09/05/2023

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: 9c6ab45d776052c0a746d621c4b4358a
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: c172564346c5c13d445a93499f58f66c
- GXW4232 V2 firmware file name: gxw4232v2fw.bin

MD5: d947f0f6a95d8eb15b757cb175ff05af

- GXV4248 V2 firmware file name: gxw4248v2fw.bin

MD5: 5bcf5304c510c0ffa10f530d0df34ef6

ENHANCEMENT

- Updated the “Replace Beginning '+' in Caller ID with” support a predefined string. (Pvalue changed from P29073/29173/29273/29373 to P60083/60183/60283/60383). [Replace the beginning '+' in Caller ID with]
- Added the new option “3 - PR” in “Visual MWI type(P4371/4372/4373/4374)” which sends MWI signaling using Polarity Reversal.
- Added support the “ = ” sign in config and firmware server path.
- Updated “Prefer Primary SIP Server(P4567/4568/4569/4570)” options “1 – Yes” to “1 - Will register to primary server if failover server registration expires, and 2 - Will register to primary server if primary server responds”.

BUG FIX

- Fixed device didn't support TLS1.
- Fixed device unable to import mib file to PRTG.
- Fixed the inaccurate encoding and decoding of DTMF durations with SIP Info.
- Fixed device unit sends cancel to sip server during IP call.
- Fixed MWI with NEON does not work when using ETSI-DTMF.
- Fixed SIP Server cannot contain hyphens.
- Fixed gateway fails to authenticate web access using the Radius server.
- Fixed system prompt "incorrect password" despite keying the correct PIN code for outbound calls.
- Fixed login to the web using GXW4248V2, some functions in French and Spanish are not translated.

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user's point of view.

Replace the beginning '+' in Caller ID with

User can find the configuration section in Web -> Profile-> Call Settings.

Anonymous Call Rejection No Yes

Replace Beginning '+' in Caller ID with

Hunting Group Type Circular Linear

- **Functionality**

This feature allows users to configure the Replace the beginning '+' in Caller ID with the configured string when sending the Caller ID to the analog phone.

Pvalue	Description	Value Range	Default
60083 60183 60283 60383	Replace the beginning '+' in Caller ID with	String: number 0 - 9 Max length is 6 characters.	(Null)

FIRMWARE VERSION 1.0.15.2

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

05/05/2023

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: 09c9f1e50fb415992255021bdc3cf500
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: f14a8effc22f22d1318d0d64c2b01ff6
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: b70779dd73ea79c333f65df8c52dc8b2
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: b2aee974a3ccc9010b734cae1da37ebb

ENHANCEMENT

- Add the Ability to specify DTMF timing for InBand [Custom DTMF InBand Duration]

BUG FIX

- Fixed the device using a random sip port requires a reboot to take effect.
- Fixed No Audio on incoming transferred calls in external calls.
- Fixed device unit sends BYE with the wrong CSeq.
- Fixed Special Proceed Indication Tone is overridden by Special Condition Tone with GIBTELECOM ITSP.
- Fixed after closing SIP registration, re-open SIP registration, and the device sends two registration requests.
- Fixed device uploads too large error format configuration file without a prompt on the web.
- Fixed the Authenticate server certificate domain/chain option actually needs to be restarted to take effect.
- Fixed the wrong time when using DHCP option 2 for the time zone.

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user's point of view.

Custom DTMF InBand Duration

User can find the configuration section in Web -> Profile-> Audio Settings.

DTMF Payload Type

Custom DTMF InBand Duration Duration: ms, Inter Duration: ms

- **Functionality**

This feature allows users to configure the Custom DTMF InBand Duration. If "Duration" is 0, the gateway will totally pass-through transfer the InBand DTMF from the analog agent side; If "Duration" is not 0, we can use this feature to customize the duration and inter-duration of InBand DTMF; The valid range of "Duration" is 0 or 40~2000ms, the valid range of "Inter-Duration" is 40~2000ms.

Pvalue	Description	Value Range	Default
28134	Custom DTMF InBand Duration:	Number:	0
28135	Duration	0 or 40~2000 (ms)	
28136			
28137			
28138	Custom DTMF InBand Duration:	Number:	50
28139	Inter Duration	0 or 40~2000 (ms)	
28140			
28141			

FIRMWARE VERSION 1.0.13.2

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

03/10/2023

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: 9dc017b2c45f10851c620e4a831722ea
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: eca6b6bdab56e9eb8a6dae86c0265d58
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: e48304a7dc3a998fd1e8fd0de81a9a2e
- GXW4248 V2 firmware file name: gxw4248v2fw.bin
MD5: b8525f3f7b6a0d8a586c8de32f96b1b2

ENHANCEMENT

- Added support for the MWI Tone. [MWI Tone]
- Added support for the Special Proceed Indication Tone. [Special Proceed Indication Tone].
- Added support for the Special Condition Tone. [Special Condition Tone]
- Add the ability to ignore the alert-info header. [Ignore Alert-Info Header]
- Added support for “Extra Debug” in Syslog Level.
- Update the status page to show the HW version with the model’s name.
- Added the ability to configure special features with GIBTELECOM via TR069.

BUG FIX

- Fixed the device cannot log in to the web if the password length exceeds 18 characters.
- Fixed after closing SIP registration, re-open SIP registration, and the device sends two registration requests.
- Fixed the Inbound long-duration call fails under certain configurations.
- Fixed Config Server Path does not support the "+" character.
- Fixed an off-hook delay problem that occurs when the FAX runs for a long period.
- Fixed device the off hook not detected during ringing.
- Fixed device with no dial tone when pressing Flash+4 to make a transfer.
- Fixed when the failover SIP server address is domain name plus port registration, and the sending destination port is wrong.
- Fixed device unit does not allow/send DTMF A B C D digits.
- Fixed an issue that no audio for the second call received.
- Fixed a bug in which Syslog is enabled on the HT device in the local deployment, and the content of the syslog package is empty.
- Fixed the authenticate server certificate domain/chain option needs to be restarted to take effect.
- Fixed an issue that causes DTMF data sent in disorder.
- Fixed Registration with a random port after a reboot.
- Fixed the product model display error on the status page in other languages except in English.

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user’s point of view.

MWI Tone

User can find the configuration section in Web -> Profile-> Call Settings.

Visual MWI Type FSK NEON

MWI Tone Default Special Proceed Indication Tone

Transfer on Conference Hangup No Yes

- **Functionality**

This feature allows users to configure the MWI tone for the voice mail, the device will play the MWI tone when the user picks up. The default is the Stuttgart dial tone.

Pvalue	Description	Value Range	Default
28197	MWI Tone	0 – Default	0 – Default
28198		1 – Special Proceed	
28199		Indication Tone	
28200			

Special Proceed Indication Tone

- Web Configuration**

User can find the configuration section in Web -> Advanced Settings-> Ring Tones.

Conference Party Hangup Tone	<input type="text" value="f1=425@-15,c=600/600;"/>
Special Proceed Indication Tone	<input type="text" value="f1=350@-13, f2=440@-13, c=750/750-0/0;"/>
Special Condition Tone	<input type="text" value="f1=350@-13, f2=450@-13, c=750/750;"/>

- Functionality**

This feature allows users to configure the special process indicator tone for the voice mail, the device will play the MWI tone when the user picks up. The default is the Stuttgart dial tone.

Pvalue	Description	Value Range	Default
28196	Special Proceed Indication Tone	String Max Length: 256	f1=350@-13, f2=440@-13, c=750/750-0/0;

Special Condition Tone

- Web Configuration**

User can find the configuration section in Web -> Advanced Settings-> Ring Tones.

Special Proceed Indication Tone	<input type="text" value="f1=350@-13, f2=440@-13, c=750/750-0/0;"/>
Special Condition Tone	<input type="text" value="f1=350@-13, f2=450@-13, c=750/750;"/>

- Functionality**

This feature allows users to configure the special condition tone. When a user is activated using the GIBTELECOM in Special Feature. the SIP server sends a NOTIFY with "special-condition-tone". The

"Special Condition Tone" will be played instead of the "Dial Tone".

Pvalue	Description	Value Range	Default
28211	Special Proceed Indication Tone	String Max Length: 256	f1=350@-13, f2=450@-13, c=750/750;

Ignore Alert-Info Header

User can find the configuration section in Web -> Profile-> SIP Settings-> Basic Settings

CONTACT WITH TCP / TLS

Allow SIP Factory Reset No Yes

Ignore Alert-Info Header No Yes

SIP User-Agent

- **Functionality**

This feature allows users to configure Ignore Alert-Info Header. It is configured to play the default ringtone by ignoring the Alert-Info header.

Pvalue	Description	Value Range	Default
26018	Ignore Alert-Info Header	0 – No	0 – No
26118		1 – Yes	
26218			
26318			

FIRMWARE VERSION 1.0.11.2

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

01/10/2023

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: 25b13af159971fa80864cb2a810fa8e5
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: 031ff3bde2f9b475a8a0440bb8f01c50
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: 937387890687f4bf8d1711caef73a0d7
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: 55a63fbf82b950774e1da645e53ecea

ENHANCEMENT

- Added support for Download and Process All Available Config Files. [Download and Process All Available Config Files].
- Added the new voice prompt *98.
- Added the additional Flash digit events in the Special Feature Gibtelecom.
- Added support for new override config file option in “cfgMAC_override.xml”.
- Added Pvalue not on WebUI:
P8615 - Disable filename in URL for config provision. (1 -Yes, 0 – No. Default is 0)
P8616 - Disable filename in URL for firmware upgrade. (1 -Yes, 0 – No. Default is 0)

BUG FIX

- Fixed the device responds with not found while configured with a non-profile1 account
- Fixed an issue that made account status under profile4 displayed incorrectly.
- Fixed device will display Registered abnormal after changing the profile ID via GDMS.
- Fixed the sip server address and port settings that do not conform to the rules can be saved.
- Fixed the Call waiting dropped by MTAS Server.

- Fixed Local RBT is not played after 180 ringing.
- Fixed the call that cannot be held the current one is valid_close SRTP_*19.
- Fixed the WebUI description error due to the Increase Password length for GXW42xx V2
- Fixed an issue that caused the FXS port test failure.
- Fixed the software stops when using the "Replace Beginning '+' with 00 in Caller ID" feature.
- Fixed DTMF Negotiation Fails Upon Transfer.
- Fixed the device cannot be started and core files are generated after several months of standby.
- Fixed Call quality data not reported after the factory reset.
- Fixed Modifying sip accounts on the web page does not report user modification.
- Fixed a bug that the device only read the first ten FXS ports' DND status.

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use it from the user's point of view.

Download and Process All Available Config Files

- **Web Configuration**

User can find the configuration section in Web -> Maintenance-> Upgrade and Provisioning.

Config File Postfix

Enable using tags in URL No Yes

Download and Process All Available Config Files No Yes

Allow DHCP Option 43 and Option 66 to Override Server No Yes

- **Functionality**

This feature allows users to inverse download all config files. If set to Yes, the device will download and apply (overwrite) all available configs in the order of cfg.xml, cfgProductModel.xml, cfgMAC.xml, cfgMAC, cfgMAC_override.xml, and "DHCP option 67 bootfile".

Pvalue	Description	Value range	Default
8467	Download and Process ALL Available Config Files	0 – No 1 - Yes	0 – No

FIRMWARE VERSION 1.0.9.1

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

11/04/2022

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: aa17d02a9ec1057f87dad431e6236dfc
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: 497ce530a95abb5af9bcfdc96e0ca351
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: 9eb3321e7c99f1d7c138a22e771b59e2
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: ca2c2645283a067299043b92fb7f8bf6

ENHANCEMENT

- Increased the Admin, User, and Viewer Password length to 30.

BUG FIX

- Fixed devices send wrong call status reports as P2P after the local three-party conference ends.
- Fixed sips TLS registration failed after filling in the Custom Certificate with the GEN 1 certificate.
- Fixed a bug that caused units to lose registration randomly.
- Fixed a ringing multiple ports behavior issue.
- Fixed devices Cannot enable the local call feature using a certain dial plan.
- Fixed the forced SRTP (*18) function is not effective when it is currently effective.
- Fixed a ringing multiple ports behavior issue.
- Fixed an issue that causes the content of the sip log file to be incomplete.
- Fixed the ACS URL does not clear up empty after reset.

FIRMWARE VERSION 1.0.7.2

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

10/11/2022

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: 8fbf066a6e0a4a6beb7b3742eab21830
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: f603948cc2161bc139551edda284b583
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: c53c9c3e17aed2c4fe982191c6028a0d
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: bb97654874cb33598671a93f27ec9dcb

ENHANCEMENT

- Added support to Define the Preferred Provisioning Method. [Configuration File Types Allowed]
- Added support of DHCP Option 150. [Additional Override DHCP Option]
- Added support for SRTP Key Length. [SRTP Key Length]
- Added support for SSL Key Log File. [With Secret Key Information]
- Added support for Security Controls for SSH Access. [Security Controls for SSH Access]
- Added support for Enable using tags in URL. [Enable using tags in URL]
- Updated Syslog to make user reading more friendly.

BUG FIX

- Fixed the device's no audio and randomly reboot issues after the upgrade.
- Fixed a ringing multiple ports behavior issue.
- Fixed devices Cannot enable the local call feature using a certain dial plan.
- Fixed a device upgrade failed issue due to out of memory.
- Fixed a fax transmission issue between GXW42xx devices.
- Fixed device ACS URL not set to "https://acs.gdms.cloud" by default.
- Fixed a bug that caused the call is abnormal after the participant transfers the call.

- Fixed device some vulnerabilities appear while scanning.
- Fixed device the status light is abnormal after the FTP upgrade fails.
- Fixed a wrong error prompt in uploading the configuration file.
- Fixed a bug that causes the device will turn off the LCD screen Led after 5 minutes.
- Fixed Uptime on French mode display abnormal on Web UI.
- Fixed a bug that causes fax T.38 always to fail with SPA112.
- Fixed device always sends DTMF event # after using # as the dial key.
- Fixed the MAC on the device info page is not fully displayed.
- Fixed VLAN name and management address identification are missing in the reporting information at startup.

NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user's point of view.

Configuration File Types Allowed

- **Web Configuration**

User can find the configuration in Web UI -> Maintenance-> Upgrade and Provisioning.

Authenticate Conf File No Yes

Firmware Key

Configuration File Types Allowed ▼

- **Functionality**

This feature allows users to choose Allowed Configuration File Types, All or XML Only.

- **New P Values**

Pvalue	Description	Value range	Default
P8601	Configuration File Types Allowed	47 – All 46 – XML Only	47 – All

Additional Override DHCP Option

- **Web Configuration**

User can find the configuration in Web UI -> Maintenance-> Upgrade and Provisioning.

Allow DHCP Option 43 and Option 66 to Override Server No Yes

Additional Override DHCP Option

3CX Auto Provision No Yes

- Functionality**

This feature allows users to configure additional DHCP Option to be used for the firmware server instead of the configured firmware server or the server from DHCP Option 43 and 66.

- New P Values**

Pvalue	Description	Value range	Default
P8337	Additional Override DHCP Option	0 – None 1 – Option 150	0 – None

SRTP Key Length

User can find the configuration in Web UI -> Profile-> Audio Settings.

SRTP Mode

SRTP Key Length

Crypto Life Time No Yes

- Functionality**

This feature allows users to configure the cipher method or key length if SRTP is enabled.

- New P Values**

Pvalue	Description	Value range	Default
P2383 P2483 P2583 P2683	SRTP Key Length	0 – AES 128&256 bit 1 – AES 128 bit 2 – AES 256 bit	0 - AES 128&256 bit

With Secret Key Information

- Web Configuration**

User can find the configuration in Web UI -> Maintenance-> Ethernet Capture.

With Secret Key Information No Yes

Status STOPPED

- **Functionality**

This feature allows users to configure whether the packet capture file contains secret key information or not.

- **New P Values**

Pvalue	Description	Value range	Default
P22419	With Secret Key Information	0 – No 1 – Yes	1 – Yes

Security Controls for SSH Access

- **Web Configuration**

User can find the configuration in Web UI -> Maintenance-> Web/SSH Access.

SSH Port

Security Controls for SSH Access

Web Session Timeout

- **Functionality**

This feature allows users to configure security privileges.

- **New P Values**

Pvalue	Description	Value range	Default
P28210	Security Controls for SSH Access	0 – Only allow SSH private IP users to set system Pvalue 1 – Allow all SSH users to set system Pvalue 2 – Allow all SSH users to set any Pvalue 4 – Prohibit setting Pvalue	2 – Allow all SSH users to set any Pvalue

Enable using tags in URL

- **Web Configuration**

User can find the configuration section in Web -> Maintenance-> Upgrade and Provisioning.

Config File Postfix

Enable using tags in URL No Yes

Allow DHCP Option 43 and Option 66 to Override Server No Yes

- **Functionality**

This feature allows users to enable using tags in Config Server Path.

- **New P Values**

Pvalue	Description	Value range	Default
P8609	Enable using tags in URL	0 – No 1 – Yes	1 – Yes

FIRMWARE VERSION 1.0.5.4

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

08/10/2022

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: a29a51c155d4a022532317a90b4257d8
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: c45cb6dd01f988a3ee6764dc2cf933c8
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: 0367ae67830df2929af5a275ca073b68
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: 96ae11e4682caacb20bd5ff59a8aa252

ENHANCEMENT

- Added support to send SNMP traffic through Management Interface. [Enable SNMP Through Management Interface]
- Added support to send Syslog traffic through Management Interface. [Enable Syslog Through Management Interface]

BUG FIX

- Fixed a bug that causes the core file to be generated after the device is turned on.
- Fixed download function of the page is display incorrect when accessing in User/Viewer account.
- Fixed device the log server domain name resolution order is incorrect.
- Fixed the copyright not translated into Russian on the Русский page.
- Fixed device will not send provision required when path contains the % character.
- Fixed the bug that causes IVR code reading is failed.
- Fixed an issue causes sometimes only one-way audio or no audio on both sides in the call.
- Fixed an issue that causes device faxes may not be sent and received normally.
- Fixed a WebUI error that causes the "Viewer Logout" button displayed as "XXXXX" in Chinese/Spanish/French language.

- Fixed an issue that causes the ATA device crash after it calls to itself.
- Fixed Dublin and Ireland are displayed incorrectly in Chinese in Time Zone.
- Fixed a bug that causes Call Waiting Tone syntax error.
- Fixed the incorrect description of 802.1X Mode.
- Fixed device the Syslog list will not be displayed when the system log level is EXTRA DEBUG.
- Fixed device cannot access the page and establish a call after unplugging and plugging the network cable on PPPoE and OpenVPN network.
- Fixed the web page lock time after the login error exceeds the limit will be timed again after clicking login again.

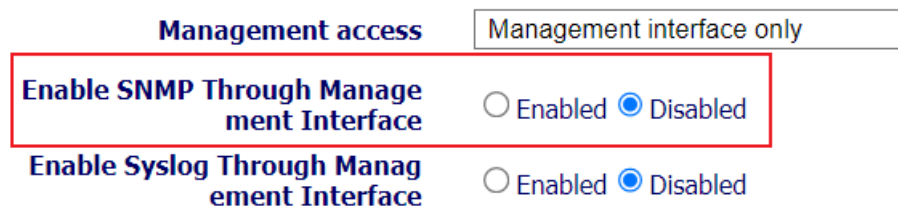
NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user's point of view.

Enable SNMP Through Management Interface

- **Web Configuration**

User can find the configuration in Web UI -> Maintenance-> Network Settings.



The screenshot shows a configuration page with a dropdown menu for 'Management access' set to 'Management interface only'. Below it, there are two radio button options: 'Enable SNMP Through Management Interface' (set to Disabled) and 'Enable Syslog Through Management Interface' (set to Disabled).

- **Functionality**

This feature allows users to choose whether to route the Syslog packets through management interface.

- **New P Values**

Pvalue	Description	Value range	Default
P28209	Enable SNMP Through Management Interface	1 – Enabled 0 – Disabled	0 – Disabled

Enable Syslog Through Management Interface

- **Web Configuration**

User can find the configuration in Web UI -> Maintenance-> Network Settings.

Enable SNMP Through Management Interface Enabled Disabled

Enable Syslog Through Management Interface Enabled Disabled

IP Address Mode for Management Interface DHCP Static IP

- **Functionality**

This feature allows users to choose whether to route the Syslog packets through management interface

- **New P Values**

Pvalue	Description	Value range	Default
P8610	Enable Syslog Through Management Interface	1 – Enabled 0 – Disabled	0 – Disabled

FIRMWARE VERSION 1.0.3.9

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

08/08/2022

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gxw4216v2fw.bin
MD5: a29a51c155d4a022532317a90b4257d8
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5: c45cb6dd01f988a3ee6764dc2cf933c8
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: 0367ae67830df2929af5a275ca073b68
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: 96ae11e4682caacb20bd5ff59a8aa252

BUG FIX

- Fixed a bug that causes the device will ring with DND enabled.
- Fixed GXW4224V2 plays Priority Alert Call Waiting Tone incorrectly.
- Fixed GXW4224V2 plays Alternate Number Call Waiting Tone incorrectly.
- Fixed device cannot enable local call feature using a certain dial plan.
- Fixed the Firmware Server Path and the Config Server Path cannot save in "port/filename" format.
- Fixed the device does not prompt invalid input while entering illegal values in some parameters.
- Fixed a bug that caused the Syslog list information will not be cleared after hard key recovery.
- Fixed device off-hook LED status is wrong when LED Pattern config to A and existing voice mail.
- Fixed DTMF data sent in disorder.
- Fixed pressing flash +2 will hang up the other party's call after enabling flash digital control.
- Fixed a bug causes Second Register to have no auth header by default.
- Fixed REGISTER/INVITE failover retries are not the configured number.
- Fixed device does not prompt error "Max allow length 190" in local DNS.
- Fixed TIA-Inventory-Serial Number field is wrong in MAC address instead of Serial Number while captured in LLDP Wireshark trace file.

FIRMWARE VERSION 1.0.3.4

PRODUCT NAME

GXW4216 V2, GXW4224 V2, GXW4232 V2, GXW4248 V2

DATE

05/13/2022

FIRMWARE FILE INFORMATION

- GXW4216 V2 firmware file name: gwx4248v2fw.bin
MD5: 6d628edd385a256f64df26beed929a1d
- GXW4224 V2 firmware file name: gwx4224v2fw.bin
MD5 2b5ec23cdefd8d4ca1608a85b7b74f49
- GXW4232 V2 firmware file name: gwx4232v2fw.bin
MD5: c4b23a63861bd09e9456be1c100d71d4
- GXV4248 V2 firmware file name: gwx4248v2fw.bin
MD5: f92c28f2f7e918a7c6ffe684c7764779

ENHANCEMENT

- This is the initial release version of GXW42xx V2 firmware