

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
- For GXW42xx V2 device on 1.0.3.1 or higher 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_1.0.3.1_or_higher
- 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 1.0.13.2

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
- GXV4248 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 | f1=425@-15,c=600/600; |
| Special Proceed Indication Tone | f1=350@-13, f2=440@-13, c=750/750-0/0; |
| Special Condition Tone | 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 | f1=350@-13, f2=440@-13, c=750/750-0/0; |
| Special Condition Tone | 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: gwx4216v2fw.bin
MD5: a29a51c155d4a022532317a90b4257d8
- GXW4224 V2 firmware file name: gwx4224v2fw.bin
MD5: c45cb6dd01f988a3ee6764dc2cf933c8
- GXW4232 V2 firmware file name: gwx4232v2fw.bin
MD5: 0367ae67830df2929af5a275ca073b68
- GXV4248 V2 firmware file name: gwx4248v2fw.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.

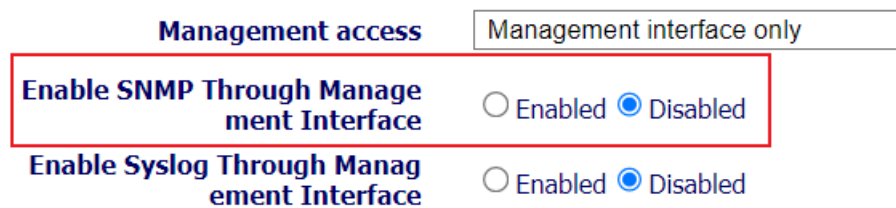
NEW FEATURES OVERVIEW

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 tab labeled 'Management access' and a dropdown menu set to 'Management interface only'. Below this, there are two radio button options: 'Enable SNMP Through Management Interface' (which is highlighted with a red box) and 'Enable Syslog Through Management Interface'. Both options have 'Enabled' and 'Disabled' radio buttons, with 'Disabled' being selected for both.

- **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: gxw4248v2fw.bin
MD5: 6d628edd385a256f64df26beed929a1d
- GXW4224 V2 firmware file name: gxw4224v2fw.bin
MD5 2b5ec23cdefd8d4ca1608a85b7b74f49
- GXW4232 V2 firmware file name: gxw4232v2fw.bin
MD5: c4b23a63861bd09e9456be1c100d71d4
- GXV4248 V2 firmware file name: gxw4248v2fw.bin
MD5: f92c28f2f7e918a7c6ffe684c7764779

ENHANCEMENT

- This is the initial release version of GXW42xx V2 firmware