GXP1610/1615/1620/1625/1628/1630 Firmware Release Notes

IMPORTANT UPGRADING NOTE

- **Starting from firmware version 1.0.2.21, downgrading to version 1.0.2.4 or lower requires a matched protocol for upgrading and provisioning under webUI→Maintenance→Upgrade and Provision→option "Config Upgrade Via" and option "Firmware Upgrade Via".**

  For example, if you are using HTTP server to downgrade to 1.0.2.4, please configure both "Config Upgrade Via" and "Firmware Upgrade Via" to "HTTP".

- **Firmware version 1.0.4.50 supports new hardware revision. For GXP16xx that's on new hardware version 2.2A, it cannot downgrade to firmware version lower than 1.0.4.50.**

- **For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.**

- **For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.**

- **Starting from 1.0.3.28 weather service is removed and no longer supported.**

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FIRMWARE VERSION 1.0.7.86

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

10/25/2026

COMPONENT VERSIONS

Core 1.0.17.11; Prog 1.0.7.86; CPE 1.0.5.23

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 6c5bdfe4754a3325672cd87f76c30801

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Added Factory reset security level option [FACTORY RESET SECURITY LEVEL]

BUG FIX

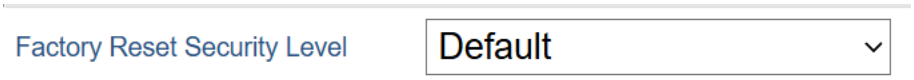
- Fixed Device does not keep custom CA file
- Fixed security issues

NEW FEATURES DESCRIPTION

FACTORY RESET SECURITY LEVEL

- **Web Configuration**

This option can be found under device web UI -> Maintenance -> Security Settings -> Security:



- **Functionality**

Configure the password inquiry for factory reset. In default, the device ask for password when "Configuration via Keypad Menu" is not unrestricted mode

- **Configuration Parameters**

Web UI Configuration	P Number Parameter	
	P Number	P Value/Range
Factory Reset Security Level	P22373	Value = 0; Default Value = 1; Always Require Password Value = 2; No Password Required

FIRMWARE VERSION 1.0.7.81

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

01/30/2026

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 22038bea260fab0dcea01c8c4f1058ae

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

BUG FIX

- Fixed some security vulnerabilities

FIRMWARE VERSION 1.0.7.80

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

12/31/2025

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 55df3a635f9b5dc62ccc7e9fd4cb5ba8

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Removed Character limitation for Connection Request Username and Password

BUG FIX

- Fixed some security vulnerabilities

FIRMWARE VERSION 1.0.7.79

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

7/16/2025

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: cfb333b4008d6a8f5a7cf3a41ef3cbe6

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

BUG FIX

- Fixed Device 802.1x certificates rejection under certain conditions
- Fixed Device DHCP Inform Spam issue
- Fixed Several security vulnerabilities
- Fixed Device cannot answer the call when WEBRTC is enabled in the PBX

FIRMWARE VERSION 1.0.7.74

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

3/13/2025

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: fadc97096ff3435b770cb3625cd47013

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Increase Contact number length to 128 characters

BUG FIX

- Fixed Device 802.1x authentication issue under certain circumstances
- Fixed Device security vulnerability
- Fixed Incorrect timezone issue
- Fixed Device calling issue with TLS
- Fixed No audio issue after resuming a held call under certain circumstances
- Fixed Device works abnormal when using TLS/SRTP

FIRMWARE VERSION 1.0.7.70

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

6/6/2024

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 209ce7cdf74306ffad0fce58701e6cd1

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Improved Device Security to avoid using user input directly in system calls.

FIRMWARE VERSION 1.0.7.67

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

4/30/2024

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: a8244f997fac9e0e088ae01add848966

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Disabled User web access by default (Factory reset required)

BUG FIX

- Fixed Device timezone for Fiji
- Fixed User password can still be used for the API after disabling user web access

FIRMWARE VERSION 1.0.7.64

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

12/20/2023

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: e051678eb9bd75ee74f73978fbe5f26f

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Added Support to upload OpenVPN TLS Authentication key from web UI
- Improved Web UI privilege security (CVE-2023-50015)

BUG FIX

- Fixed Device cannot connect to OpenVPN
- Fixed Device repeating download system information package will cause the package size keep increasing

FIRMWARE VERSION 1.0.7.56

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

8/25/2023

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: b5be16b010d1634c7a6b29718f245fab

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Remove DST for Mexico time zone
- Added Support to force local ringback tone
- Added Rport Support (RFC3581) [SUPPORT RPORT(RFC3581)]
- Added Support to send EAPOL-Logoff when PC is disconnected
- Added Support to configure two passwords for the same GDS “System Number”
- Added Support of SIP URI to make call

BUG FIX

- Fixed Device crashes when picking up handle after modifying "Off hook Timeout"
- Fixed Device has missed call warning on the LCD when the call is picked up by another phone in the ring group
- Fixed Query of the DND OID returns wrong value
- Fixed Phonebook downloading issue
- Fixed Device cannot set static IPv4 address via TR-069 when network is in DHCP mode
- Fixed Device crashes when logging into public mode
- Fixed Device timezone for Israel
- Fixed Device does not apply the dial plan rule to replace the country code with zero upon dialing
- Fixed Device does not try to connect to primary OBP after registering to secondary OBP

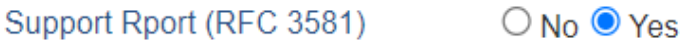
- Fixed No audio issue under certain conditions
- Fixed SRTP call has no audio issue under certain conditions
- Fixed Device cannot modify the default admin password on the Web UI

NEW FEATURES OVERVIEW

SUPPORT RPORT(RFC3581)

- **Web Configuration**

This option can be found under device web UI→ Account X → Network Settings.



- **Functionality**

Configures to use symmetric response routing. If it is used, the "rport" field will be added to the Via header field in the SIP Request, and the information will be extracted from the SIP 200OK Response for SIP Register to rewrite the SIP Contact information and apply it in subsequent SIP Requests.

- **Pvalue**

Pvalue	Description	Value Range	Default
P131/P447/P547	Support Rport (RFC 3581)	Value = 0; No Value = 1; Yes	Yes

FIRMWARE VERSION 1.0.7.50

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

12/16/2022

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 95fc2a3952f5ff4919d71c5a18b1991f

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

BUG FIX

- Fixed OpenVPN connection issue
- Fixed no voice issue after answering an incoming call during blind transfer when negotiated vocoder is G723/iLBC
- Fixed Device works abnormally when 'Voice Frames per TX' and 'Multicast Channel Number' are set to some specific values

FIRMWARE VERSION 1.0.7.49

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

10/31/2022

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: c86e781fede057f782299d60d007328b

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Added Support to customize the 3rd softkey on idle screen
- Added Support to display all contacts in LDAP Directory on LCD menu
- Improved SIP Performance
- Added Support to send HTTP command via programmable keys

BUG FIX

- Fixed Device cannot successfully download idle screen XML file during boot up
- Fixed Device cannot answer attended transfer call via 3CX CSTA abnormal
- Fixed Device incorrect behavior when answering multiple incoming calls via 3CX uaCSTA
- Fixed Transfer mode via MPK option affects call park
- Fixed After call park fails and the call reconnects there is no audio
- Fixed Device sends 8 extra bytes 00 padding at the end of the RTCP package
- Fixed Russian characters in Name field causes call not established
- Fixed Hebrew names displayed backwards during the predictive dialing
- Fixed Device does not make direct IP call via Phonebook contact
- Fixed When SRTP mode is disabled, Device returns abnormal SDP in 200ok when receive SRTP in re-invite
- Fixed Device freezes randomly and generates core dump

- Fixed GUI crashes after saving LDAP contacts without number attribute to local phonebook
- Fixed GUI crashed after having incoming call while setting call forward target with local call feature disabled
- Fixed Device hanging up issue after entering numbers on the transferring page
- Fixed Device does not send MAC variable correctly in action URL
- Fixed Attended transfer fails before transferee answers the call
- Fixed No sound is heard from DUT after the far end cancels call holding
- Fixed Device does not send 408 after ringing timeout
- Fixed Devices freezes when the LDAP record is saved to the phone book

FIRMWARE VERSION 1.0.7.33

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

08/05/2022

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 7eff1b75b3e6c1fdaf88672df5ab35af

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

BUG FIX

- Fixed Device “Answer” Softkey is not working
- Fixed Device cannot answer incoming calls after enabling headset mode while ringing
- Fixed Device works abnormal after ending the call during blind transfer
- Fixed Device Dynamic attended transfer does not work correct

FIRMWARE VERSION 1.0.7.27

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

06/22/2022

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: e8291823d60540916f053d13c9fabe18

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Added Support to configure MPK through LCD
- Added Support to generate core dump from web UI

BUG FIX

- Fixed Device cannot register because of Let's Encrypt root certificate expiration
- Fixed Device MWI is turned off when a NOTIFY is not received in short time
- Fixed Device stops sending RTP after being transferred
- Fixed Device does not support 30 local groups in local phonebook

FIRMWARE VERSION 1.0.7.24

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

03/17/2022

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 198153cee94c3b719ad5612a3e72af05

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Added Support of Enhanced 911(E911) Feature [E911 SERVICE]
- Updated Device LCD display for Korean

BUG FIX

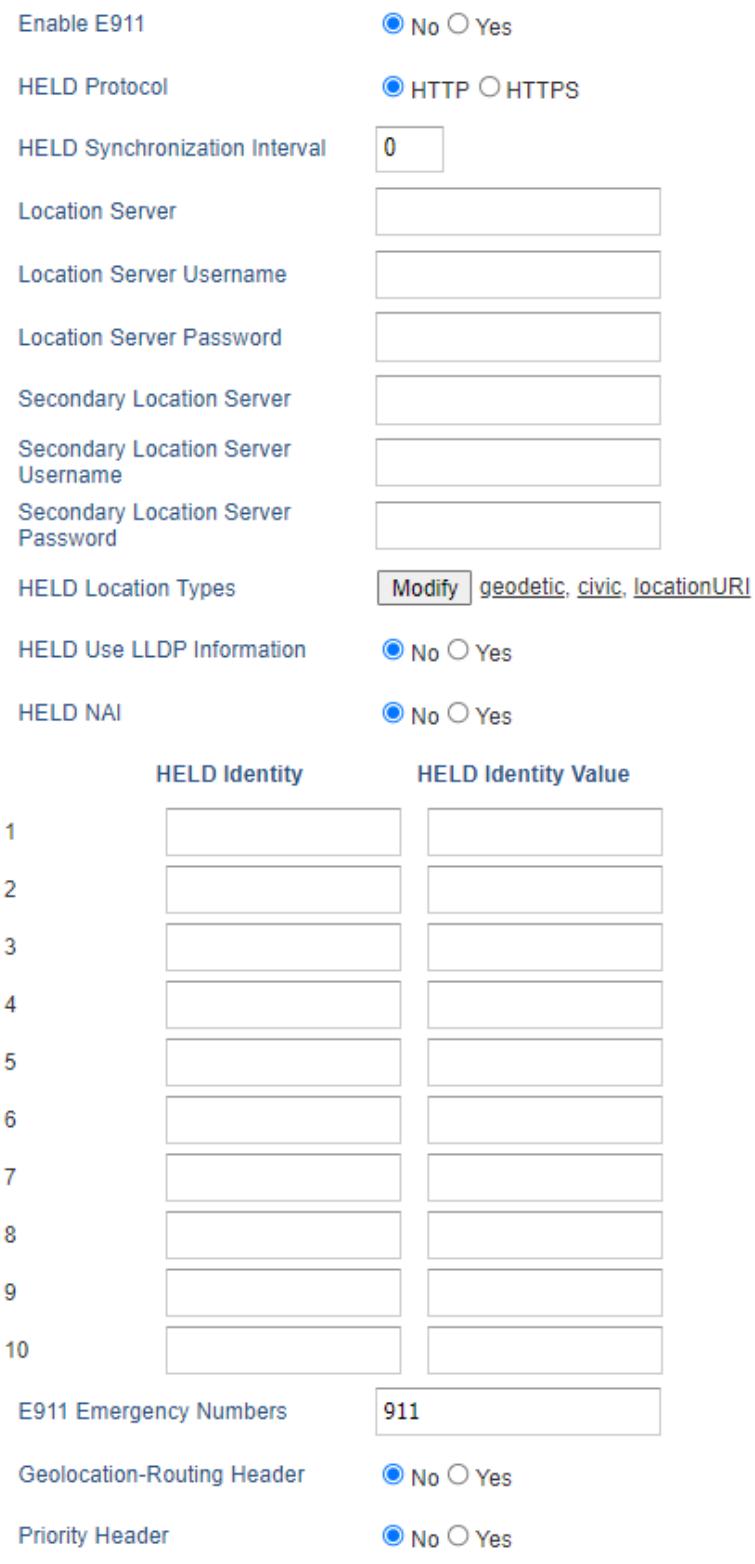
- Fixed Device “Off-hook Auto Dial” does not work correctly with Headset mode
- Fixed Device crashes sometimes after restart
- Fixed Device fails BLF MPK registration when SIP transport is set to TLS
- Fixed Device crashes after receiving UPDATE from server
- Fixed Device 802.1x authentication issues
- Fixed Device auto dial issue after canceling call
- Fixed Device LCD Hebrew names displayed backwards during the predictive dialing
- Fixed Device crashes if when performing holding call with MOH URI being configured
- Fixed Device freezes randomly

NEW FEATURES OVERVIEW

E911 SERVICE

- **Web Configuration**

Configurations for this E911 Service can be found under device web UI→Settings→E911 Service.



- **Functionality**

On E911 feature webpage, there are a couple of configurations for phones to share location details to location information server (LIS) through HELD protocol (RFC 5985). With the enable of E911 feature, by parsing the data in 200 response from LIS, phones are able to embed the obtained location URI into the Geolocation header in the emergency call.

- **Pvalue**

Pvalue	Description	Value Range	Default
P8565	<New Pvalue> Enable E911	Value = 0; No Value = 1; Yes	No
P8566	<New Pvalue> HELD Protocol	Value = 0; HTTP Value = 1; HTTPS	HTTP
P8567	<New Pvalue> HELD Synchronization Interval	0, 30 - 1440	0
P8568	<New Pvalue> Location Server	String	NULL
P8569	<New Pvalue> Location Server Username	String	NULL
P8570	<New Pvalue> Location Server Password	String	NULL
P8571	<New Pvalue> Secondary Location Server	String	NULL
P8572	<New Pvalue> Secondary Location Server Username	String	NULL
P8573	<New Pvalue> Secondary Location Server Password	String	NULL
P8574	<New Pvalue> HELD Location Types	String	geodetic,civic,location URI
P8575	<New Pvalue> HELD Use LLDP Information	Value = 0; No Value = 1; Yes	No
P8576	<New Pvalue> HELD NAI	Value = 0; No Value = 1; Yes	No
P8577/ P8578	<New Pvalue> HELD Identity 1 Name and Value	String	NULL
P8579/ P8580	<New Pvalue> HELD Identity Value 2 Name and Value	String	NULL
P8581/ P8582	<New Pvalue> HELD Identity Value 3 Name and Value	String	NULL
P8583/ P8584	<New Pvalue> HELD Identity Value 4 Name and Value	String	NULL

P8585/ P8586	<New Pvalue> HELD Identity Value 5 Name and Value	String	NULL
P8587/ P8588	<New Pvalue> HELD Identity Value 6 Name and Value	String	NULL
P8589/ P8590	<New Pvalue> HELD Identity Value 7 Name and Value	String	NULL
P8591/ P8592	<New Pvalue> HELD Identity Value 8 Name and Value	String	NULL
P8593/ P8594	<New Pvalue> HELD Identity Value 9 Name and Value	String	NULL
P8595/ P8596	<New Pvalue> HELD Identity Value 10 Name and Value	String	NULL
P8597	<New Pvalue> E911 Emergency Numbers	String	911
P8598	<New Pvalue> Geolocation-Routing Header	Value = 0; No Value = 1; Yes	No
P8599	<New Pvalue> Priority Header	Value = 0; No Value = 1; Yes	No

FIRMWARE VERSION 1.0.7.18

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

9/9/2021

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: f38bf97153868647a5fa799c3a95e7d6

IMPORTANT UPGRADING NOTE

- For GXP1610/1615/1620/1625 with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.13, downgrading to previous lower version is not supported.
- For GXP1628/1630 with hardware 2.0 or higher hardware versions, once upgraded to firmware 1.0.7.18, downgrading to previous lower version is not supported.

ENHANCEMENT

- Added Support to send EAPOL-Logoff package when PC port is disconnected
- Changed Blacklist & Whitelist Terminology to Blocklist and Allowlist
- Disabled cookie attribute "httpOnly"
- Added Support to force a reboot after provisioning by P-values [FORCE REBOOT BY PVALUE PROVISIONING]

BUG FIX

- Fixed Automatic upgrade issue
- Fixed Device freezes under special transfer condition
- Fixed Device sends 2 RTP streams that causes distorted audio
- Fixed Device crashes when calling special number starting with star key(*)

NEW FEATURES OVERVIEW

FORCE REBOOT BY PVALUE PROVISIONING

- **Functionality**

Now with the new Pvalue 22421 (or alias “provision.config.forceReboot”) set to 1 in config file, phone will need to reboot if any change is applied by downloading the config file. Specifically following the process

below:
1st time download:
1) Phone downloaded a config file (in any supported format) with P22421 set to 1 included.
2) Phone found there is change(s) comparing with current setting on the phone (Any valid Pvalue change, no matter it does need reboot to apply or not).

3) Phone will update to new setting (will not save P22421 itself) and will go into normal reboot process (eg: if there is active call, phone will wait until it is finished)

2nd time download:
4) After reboot, phone may download the same config file again (if the config file path did not change).
5) Phone checked the config file and found there is no Pvalue needed to be updated.
6) Phone will not reboot again.

- **Pvalue**

Pvalue	Description	Value Range	Default
P22421	<New Pvalue> Provision config force reboot	Value = 0; No Value = 1; Yes	No

FIRMWARE VERSION 1.0.7.13

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

2/10/2021

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 170adb111d83f77bdbe4a5c7e2435259

IMPORTANT UPGRADING NOTE

For GXP16xx with hardware 3.x or higher hardware versions, once upgraded to firmware 1.0.7.x, downgrading to previous lower version is not supported.

ENHANCEMENT

- Updated Spanish translation
- Updated German translation
- Updated Italian translation

FIRMWARE VERSION 1.0.7.6

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

12/04/2020

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: c5f796c60be47ac308ad6b25e9cf9dd8

ENHANCEMENT

- Added Ability to configure variables in the provisioning server URL [SUPPORT OF VARIABLES IN PROVISIONING SERVER URL]

BUG FIX

- Fixed OpenVPN connection does not get established
- Changed Booting message to English when using Hebrew
- Fixed Device does not authenticate correctly with SIP Server
- Fixed GT210 calls fail in secure only mode
- Fixed GT210 calls sometimes do not get terminated

NEW FEATURES OVERVIEW

SUPPORT OF VARIABLES IN PROVISIONING SERVER URL

- **Functionality**

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:

- $PN: it is used to identify the directory name of the provisioning server directory where the corresponding boot files and configuration files are located.
- $MAC: it is used to identify the MAC address of the IP phone.

Variables $PN and $MAC can be embedded in server URL setting in Web UI and also in DHCP Option 66.
Example (Web UI): /192.168.0.2/$PN_$MAC
Example (DHCP Option 66): tftp://192.168.0.2/$PN_$MAC
$PN will be replaced with phone model, e.g., GXP1625
$MAC will be replaced with phone's MAC address, e.g., 000b829a8ffe

FIRMWARE VERSION 1.0.7.3

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

09/22/2020

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: c47eb9f461c16bb4a1cd834557a9f29b

ENHANCEMENT

- Added Two accounts support on GXP1610/1615
- Added Ability to auto answer pre-defined numbers [AUTO ANSWER NUMBERS FEATURE]

BUG FIX

- Fixed 802.1x Authentication does not work correctly
- Fixed Device cannot upload OpenVPN client certificate files correctly
- Fixed Device does not contact NTP server from DHCP option 42
- Fixed Device responses to 183 Session Progress message issue
- Fixed Device does not respond to NOTIFY after switching 3CX configuration method
- Fixed Device fails to download 3CX phonebook
- Fixed Authentication information will not be carried when the 3CX account is unregister
- Fixed Device does not update the round trip delay correctly
- Fixed Multicast paging has unstable audio if device is not rebooted
- Fixed Some time zone values are not correct
- Fixed Vulnerabilities CVE-2016-218/QIDS 38657
- Fixed CA certificate not cleared on web GUI
- Fixed Device picking up is slow and no audio when it connects to 2nd server failed using TCP
- Fixed HTTPS provisioning issue via DHCP option 66
- Fixed 3CX auto provisioning issue
- Fixed Account unable to register when the SIP info is input via keypad
- Fixed Device does not send RTP upon receiving “180 Ringing SDP” with a new RTP connection information
- Fixed Device hides Forward softkey after reboot
- Fixed Device does not display 488 response correctly on LCD

NEW FEATURES OVERVIEW

AUTO ANSWER NUMBERS FEATURE

- **Web Configuration**

This option can be found under device web UI→ Account x → Call Settings.



- **Functionality**

The function allows users to have the phone configured with a pre-defined list of numbers that will perform auto answer.

There are different situations for auto answer setup:

1) Auto Answer disable → no auto answer;
2) Auto Answer enable, no auto answer number specified → all numbers are auto answered;
3) Auto Answer enable, auto answer number specified → only numbers specified will be auto answered.

For “Auto Answer Numbers”, it accepts:

Digits :1,2,3,4,5,6,7,8,9;

x – any digit from 0-9;

xx – any two digits from 0-9;

[1-5] – any digit from 1 to 5;

+: it matches the previous character as many time as needed like regular expression.

Please note Auto Answer Numbers can be split with ";", for example: 1x;2xxx;3x+

- **Pvalue**

Pvalue	Description	Value Range	Default
P29064 P29164 P29264	Auto Answer Numbers	String: Max length is 512.	NULL

FIRMWARE VERSION 1.0.5.3

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

06/12/2020

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 1c93d58a76aa66eb100c292dad52b324

ENHANCEMENT

- Added Support of Beirut Time zone
- Added Support of Central Africa Time zone “CAT”
- Added Ability to choose TLS Version for HTTPS provisioning [TLS VERSION SELECTION]
- Added Ability to enable/disable weak ciphers [ENABLE/DISABLE WEAK CIPHERS]

BUG FIX

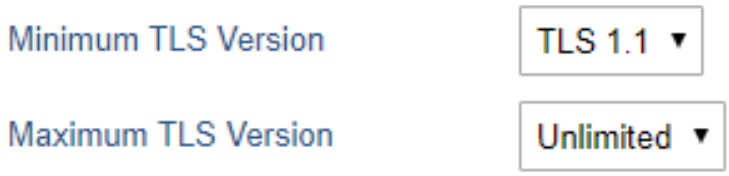
- Fixed BLF indication not working correctly if feature key synchronization is enabled
- Updated the mini_httpd version due to Vulnerabilities CVE-2017-17663
- Fixed Device can’t login web page the first time after switching IP

NEW FEATURES OVERVIEW

TLS VERSION SELECTION

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security.



- **Functionality**

The function allows users to choose minimum/maximum TLS version for HTTPS provisioning and SIP transport. After change the TLS Version, the phone needs rebooting for taking effect on HTTPS web access. Provisioning and sip transport don't need reboot.

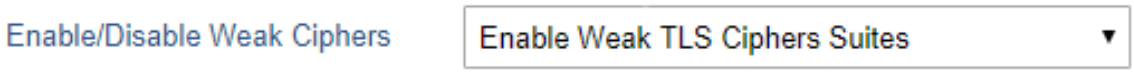
- **Pvalue**

Pvalue	Description	Value Range	Default
P22293	Minimum TLS Version	Value = 10; TLS 1.0 Value = 11; TLS 1.1 Value = 12; TLS 1.2	TLS 1.1
P22294	Maximum TLS Version	Value = 99; Unlimited Value = 10; TLS 1.0 Value = 11; TLS 1.1 Value = 12; TLS 1.2	Unlimited

ENABLE/DISABLE WEAK CIPHERS

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security.



- **Functionality**

This feature could force the TLS version/Cipher suites for HTTPS provisioning and the TLS version for sip transport (TLS/TCP) and HTTPS web access.

- **Pvalue**

Pvalue	Description	Value Range	Default
P8536	Enable/Disable Weak Ciphers	Value = 0; Enable Weak TLS Ciphers Suites Value = 1; Disable Symmetric Encryption RC4/DES/3DES Value = 2; Disable Symmetric Encryption SEED Value = 3; Disable All Weak Symmetric Encryption Value = 4; Disable Symmetric Authentication MD5 Value = 5; Disable All Weak TLS Cipher Suites	0

FIRMWARE VERSION 1.0.4.152

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

12/24/2019

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: a28bae43e6d72372215224242d2809da

ENHANCEMENT

- Updated Hungarian language display
- Changed "SÃ£o Paulo" time zone to UTC-3
- Added Support to allow more special characters to be used in SIP account via keypad [MORE SPECIAL CHARACTERS VIA KEYPAD]
- Added GNU GPL License information display on LCD and Web UI [GNU GPL LICENSE]
- Added Ability to scroll long names on the screen in order to display the full name [SCROLL LONG NAMES]
- Added Support of “Provision” mode for VPK/MPK to trigger provisioning [PROVISION VPK/MPK]
- Added Support to input username and password via keypad for Broadsoft's directories [BROADSOFT DIRECTORIES]
- Added Support of Chile time zone
- Added Support of an Action URL for screen capture [SCREEN CAPTURE ACTION URI]
- Added Ability to allow @ character in SIP user ID [SIP USER ID FIELD IMIPROVEMENT]
- Added Support of Auth Header on Initial REGISTER [ADD AUTH HEADER ON INITIAL REGISTER]
- Add Support to include DHCP Option 12 into DHCP Inform message [HOST NAME(OPTION 12)]
- Increased SIP Certificate length limitation from 2048 characters to 8192

BUG FIX

- Fixed Device freezes on the automatic redial page
- Fixed Devices freezes after uploading malformed phonebook
- Fixed Bypass dial plan is not working properly during API dialing
- Fixed Device does not prompt for authentication when HTTP server has multiple files
- Fixed Device crashes when it answers a call during redial countdown
- Fixed Device freezes on the automatic redial page
- Fixed RecordOn button is displayed as Cancel button on call interface

- Fixed comment error for active backlight timeout
- Fixed Device can't use phone book dialing when automatic redial prompt exists
- Fixed Device cannot upgrade to OEM version firmware
- Fixed Device web page displays abnormally on Programmable Keys page and GDS opendoor page
- Fixed Automatic redial will not be triggered after call timeout
- Fixed Device LCD does not display SRTP icon in talking when establishing call with non-registered account line key
- Fixed Offhook auto dial does not work after the phone is locked
- Fixed time display on the LCD screen is wrong
- Fixed The time zone on LCD is not consistent with the time zone on the web UI
- Fixed PC port VLAN default values of LCD and Web are inconsistent
- Fixed Keypad lock fails after automatic redial is enabled
- Fixed Device can still dial the non-emergency number after the keypad is locked
- Fixed Device crashes after emptying emergency numbers
- Fixed Device does not prompt authentication for CFGmac.xml that sets authentication
- Fixed The keypad lock timer does refresh after the keypad lock timer is set to 0
- Fixed the Internet Protocol on LCD and Web are inconsistent
- Fixed Off-hook auto dial feature works abnormally
- Fixed Device freezes after uploading CA certificate of about 3M
- Fixed Nonce Count is wrong for Re-Register if there is 401 challenge for Invite
- Fixed Bypass Dial plan configuration causes the failure on network Conference and voicemail calling
- Fixed Device does not display the correct Issued By and Expiration from the loaded CA certificate
- Fixed Device crashes after doing search in the directory LDAP
- Fixed Device taking more than 1 second to respond the second INVITE
- Fixed Device displays only the first contact's number when one contact includes multiple numbers
- Fixed Device shows incorrect display under local call Log
- Fixed GXP1630 account 3 does not have option "Callee ID display"
- Fixed Calls don't disconnect when using TLS
- Fixed Device scrolling feature on dialed calls logs not behaving correctly
- Fixed 802.1X port based authentication not working
- Fixed Phonebook screen displayed extra Sort softkey after moving cursor to LDAP Directory
- Fixed Device sends anonymous identity for Radius authentication
- Fixed Delay on switch during Device booting
- Fixed Device does not send Custom Certificate for TLS Authentication
- Fixed Device Jitter Buffer Type does not work correctly
- Fixed Device freezes randomly
- Fixed Device does not display lock sign when the call is established using both SRTP and TLS

NEW FEATURES OVERVIEW

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

MORE SPECIAL CHARACTERS VIA KEYPAD

- **Functionality**

Now users are able to input pound and plus sign through keypad in SIP account

SCROLL LONG NAMES

- **Functionality**

Now long names will scroll though LCD to display all the contents instead of cutting off in the middle of the screen.

GNU GPL LICENSE

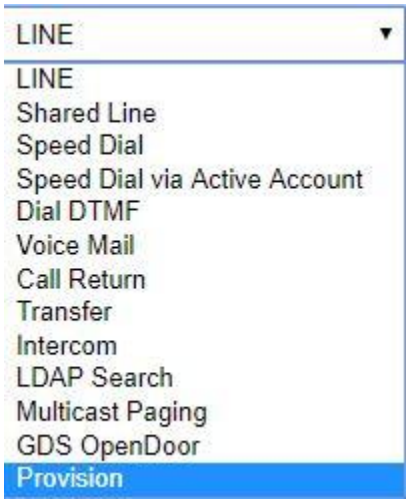
- **Functionality**

Now GNU GPL License information will be displayed on device's Web UI—Status-- GNU GPL License, and LCD menu.

PROVISION VPK/MPK

- **Web Configuration**

This option can be found under device web UI→ Settings → Programmable Keys → Programmable Keys—Mode.



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- **Functionality**

Now users are able to use VPK/MPK to trigger provision process.

BROADSOFT DIRECTORIES

- **Functionality**

Now the users can enter login credentials through LCD for Broadsoft Directories.

SIP USER ID FIELD IMIPROVEMENT

- **Functionality**

Now users are able to register an account with a SIP user ID that carries "@". For example, you can put "111@test.com" in your SIP User ID field. When registering, the phone will register your account as "111@test.com" instead of 111.
Note: The server domain will not be included in the SIP from header.

SCREEN CAPTURE ACTION URI

- **Functionality**

Now users can use URI to capture DUT screen. Format is as below:
(http://[IP_Address]/cgi-bin/api-capture_screen?passcode=[Passcode])

ADD AUTH HEADER ON INITIAL REGISTER

- **Web Configuration**

This option can be found under device web UI→ Account → Account # → SIP Settings → Basic Settings.



- **Functionality**

When this option is enabled, Device will send Authentication Header on the first Register instead of second Register.

- **Pvalue**

Pvalue	Description	Value Range	Default
P2359	<New Pvalue> Add Auth Header On Initial REGISTER	Value = 0; No Value = 1; Yes	No

HOST NAME(OPTION 12)

- **Web Configuration**

This option can be found under device web UI→ Network → Basic Settings.



- **Functionality**

Now users can add host name for their DHCP INFORM using Option 12.

- **Pvalue**

Pvalue	Description	Value Range	Default
P146	<New Pvalue> Host Name	String	N/A

FIRMWARE VERSION 1.0.4.140

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

07/19/2019

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD5: 299f43fc085fe6732ec4dea894153818

ENHANCEMENT

- Added Support for Emergency call under functional lock [FUNCTIONAL LOCK]
- Added Support for Ukrainian language and input
- Added Support for callee ID display [CALLEE ID DISPLAY]
- Added ability to create Custom Call Screen Softkey Layout [CALLEE ID DISPLAY]
- Added ability to customize the feature code [CUSTOM CALL FEATURE CODE]
- Added option to specify which certificate to trust [LOAD CA CERTIFICATES]
- Added show both call session timer and hold duration timer on LCD during call hold [SHOW ON HOLD DURATION]
- Added more custom ringtone choices [INCREASE CUSTOM RINGTONE TO 10 RINGTONES]
- Added option to disable # key from acting as redial key [ENABLE/DISABLE USING # FOR REDIAL]
- Added support for variable $active_url in Action URL [SUPPORT $active_url IN ACTION URL]
- Added upload button to upload SIP TLS Private Key [UPLOAD FUNCTION FOR SIP TLS CERTIFICATE/PRIVATE KEY]
- Added option to hide reject softkey on ringing state [ENABLE/DISABLE REJECT SOFTKEY]
- Added option "Disable Busy Tone on Remote Disconnect" [ENABLE/DISABLE BUSY TONE ON REMOTE DISCONNECT]
- Added option to specify DNS SRV query frequency [SUPPORT DNS CACHE REFRESH TIME]
- Added ability to open door in idle stage for GDS integration [SUPPORT OPEN GDS DOOR IN IDLE STAGE]
- Added ability to use special characters on 802.1X MD5 password under device web UI→ Network → Advanced Settings
- Added option to choose CID display behavior (static or dynamic) [CALLER ID DISPLAY MODE]
- Added option to enable/disable Diversion info display [ENABLE/DISABLE DIVERSION INFORMATION DISPLAY]

- Changed default value for “Enable CDP” to be “Enabled” instead of “Disabled” under web UI→ Network → Advanced Settings
- Added options to disable hook switch [DISABLE HOOK SWITCH]

BUG FIX

- Fixed Wrong caller issue when AoC is used
- Fixed Cyrillic names does not scroll on call screen
- Fixed Device doesn't show the display name on the missed call log if the phone is busy when the call is received
- Fixed Custom alert info for auto answer does not work
- Fixed Device cannot establish SRTP call when SDP include media for both RTP and SRTP
- Fixed Multicast Paging channel issue
- Fixed Caller ID name not scrolling in LCD when incoming call in other language except English
- Fixed "$active_user" variable not working for SIP Registration/Un-registration
- Fixed Phone does not perform IP call when configuring a VPK with speed dial
- Fixed Phone crashes when modifying the Anonymous Call Rejection setting
- Fixed Azores time zone does not include DST definition
- Fixed Phonebook from 1.0.4.67 can't upload to 1.0.4.128
- Fixed Phone replies with 200 OK "sendrecv" upon receiving INVITE "sendonly" for SIP/TLS or SIP/UDP with Broadsoft
- Fixed Phone doesn't trigger the provisioning when the DNS resolution is made with the secondary DNS server
- Fixed Security related issues
- Fixed Character "+" is not supported for phonebook contacts added manually in the Web GUI
- Fixed Eventlist BLF not working properly
- Fixed Device does not send PRACK in Allow header when send '180 Ringing'
- Hide System Softkey on Idle Page still show Redial
- Fixed Call established without audio randomly
- Fixed When both lines have line mode set to LINE, the same account shows duplicate for Line 1 and Line 2 (for GXP1610/1615 which only supports only 1 SIP account)
- Fixed Phone can't change the ringtone from the keypad

NEW FEATURES OVERVIEW

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

FUNCTIONAL LOCK

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security.



- **Functionality**

Now users can set Keypad Functional Lock to their phone instead of completely locking the phone.
To enable keypad lock, simply set the option "Enable STAR Key Keypad Locking" to "Yes" and long press STAR Key("*") to enable keypad lock. Using Keypad Lock Type to change from full lock to Functional. Functional lock will disable all the function keys on the keypad except for emergency calls. This ensure users can still call out on emergency.
To set emergency number, input number separated by "," in the emergency number field (i.e. 911, 110, 112).
If the user forgets to lock their phone and do not want others to use their phone, they can set the "Keypad Lock Timer" for the phone. Once the timer is up, the phone will automatically get locked.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P1382	Enable STAR Key Keypad Locking	Value=0; No Value=1; Yes	No
P8383	Keypad Lock Type	Value=0; Full Value=1; Functional	Full
P1383	Password to Lock/Unlock	String	N/A
P8385	Emergency Numbers	String	N/A
P8384	Keypad Lock Timer	0-3600	0

CALLEE ID DISPLAY

- **Web Configuration**

This option can be found under device web UI→ Accounts → Account # → SIP Settings → Basic Settings → Callee ID Display.



- **Functionality**

Now device supports Callee ID display. When the option is set to "Auto", the phone will update the callee ID in the order of P-Asserted Identity Header, Remote-Party-ID Header and To Header in the 180 Ringing. When set to "Disabled", callee ID will be displayed as "Unavailable". When set to "To Header", caller ID will not be updated and displayed as To Header.

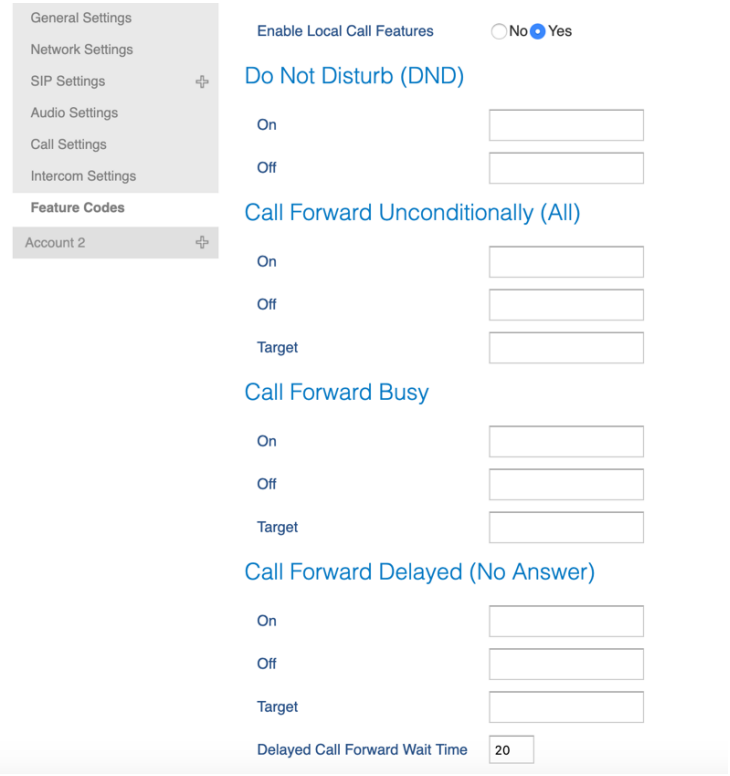
- **Pvalue**

Pvalue	Description	Value Range	Default
P26025	Callee ID Display	Value=0; Auto Value=1; Disable Value=2; To Header	Auto

CUSTOM CALL FEATURE CODE

- **Web Configuration**

This option can be found under device web UI→ Accounts → Account x → Feature Codes.



- **Functionality**

Users can customize the feature codes for DND and call forwarding rules. When local feature is disabled, the custom feature code will take effect for DND and call forwarding rules as configured.

- **Pvalue**

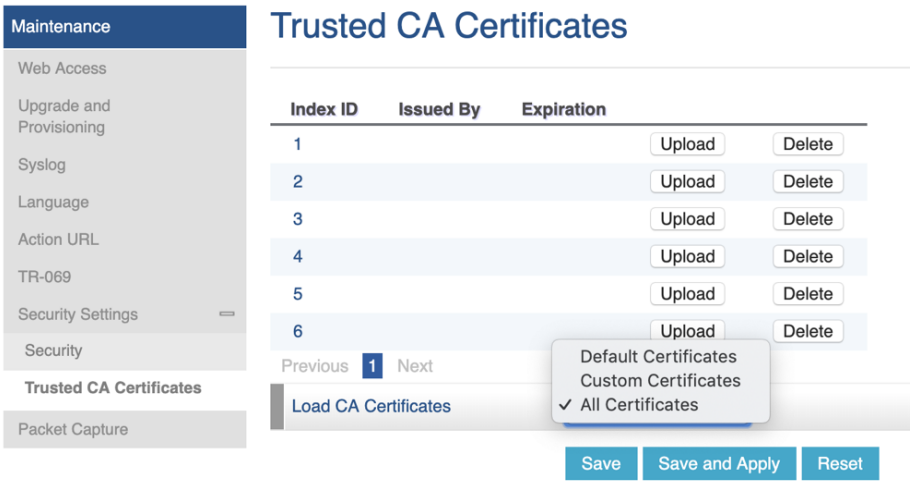
Pvalue	Description	Value Range	Default
P26013	<New Pvalue> Account 1: Call Forward Unconditionally (All) - On	String	
P26014	<New Pvalue> Account 1: Call Forward Unconditionally (All) - Off	String	
P26009	<New Pvalue> Account 1: Call Forward Busy - On	String	
P26010	<New Pvalue> Account 1: Call Forward Busy - Off	String	
P26011	<New Pvalue> Account 1: Call Forward Delayed (No Answer) - On	String	
P26012	<New Pvalue> Account 1: Call Forward Delayed (No Answer) - Off	String	
P2444	<New Pvalue> Account 2: Do Not Disturb (DND) - On	String	
P2445	<New Pvalue> Account 2: Do Not Disturb (DND) - Off	String	
P26113	<New Pvalue> Account 2: Call Forward Unconditionally (All) - On	String	
P26114	<New Pvalue> Account 2: Call Forward Unconditionally (All) - Off	String	
P26109	<New Pvalue> Account 2: Call Forward Busy - On	String	
P26110	<New Pvalue> Account 2: Call Forward Busy - Off	String	
P26111	<New Pvalue> Account 2: Call Forward Delayed (No Answer) - On	String	
P26112	<New Pvalue> Account 2: Call Forward Delayed (No Answer) - Off	String	
P2544	<New Pvalue> Account 3: Do Not Disturb (DND) - On	String	
P2545	<New Pvalue> Account 3: Do Not Disturb (DND) - Off	String	
P26213	<New Pvalue> Account 3: Call Forward Unconditionally (All) - On	String	

P26214	<New Pvalue> Account 3: Call Forward Unconditionally (All) - Off	String	
P26209	<New Pvalue> Account 3: Call Forward Busy - On	String	
P26210	<New Pvalue> Account 3: Call Forward Busy - Off	String	
P26211	<New Pvalue> Account 3: Call Forward Delayed (No Answer) - On	String	
P26212	<New Pvalue> Account 3: Call Forward Delayed (No Answer) - Off	String	

LOAD CA CERTIFICATES

- **Web Configuration**

A new option “Load CA Certificate” can be found under device web UI→ Maintenance → Security Settings → Trusted CA Certificates.



- **Functionality**

Users can specify which CA certificate the phone needs to trust.

- Default Certificates: The phone will verify the server certificate based on the built-in trusted certificates list.
- Custom Certificates: The phone will verify the server certificate based on the custom trusted certificates list.
- All Certificates: The phone will verify the server certificate based on the trusted certificates list including build-in and custom trusted certificates.

- **Pvalue**

Pvalue	Description	Value Range	Default
P8502	<New Pvalue> Load CA Certificates	Value = 0; Default Certificates Value = 1; Custom Certificates Value = 2; All Certificates	2

SHOW ON HOLD DURATION

- **Web Configuration**

A new option “Show On Hold Duration” can be found under device web UI→ Settings → Call Features.



- **Functionality**

When “Show On Hold Duration” is enabled, the Hold duration timer will be displayed on the LCD if the call is put on hold.

- **Pvalue**

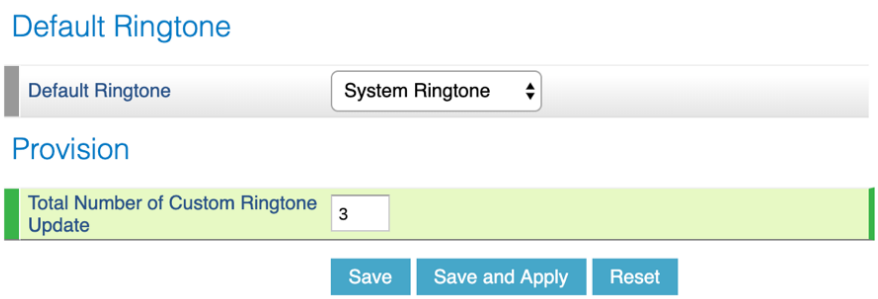
Pvalue	Description	Value Range	Default
P8503	<New Pvalue> Show On Hold Duration	Value = 0; No Value = 1; Yes	0

INCREASE CUSTOM RINGTONE TO 10 RINGTONES

- **Web Configuration**

The related options can be found under device web UI→ Settings → Preferences → Ringtone, and also in Account Ringtone settings under web UI→ Accounts → Account x → Call Settings.

- “Default Ringtone” now supports up to 10 custom ringtones to be selected.
- “Total Number of Custom Ringtone Update” allows user to configure up to 10 custom ringtones.



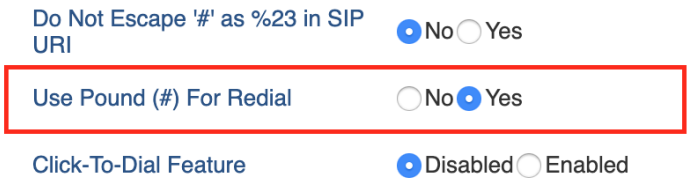
- **Functionality**

The phone now can download up to 10 different custom ringtones.

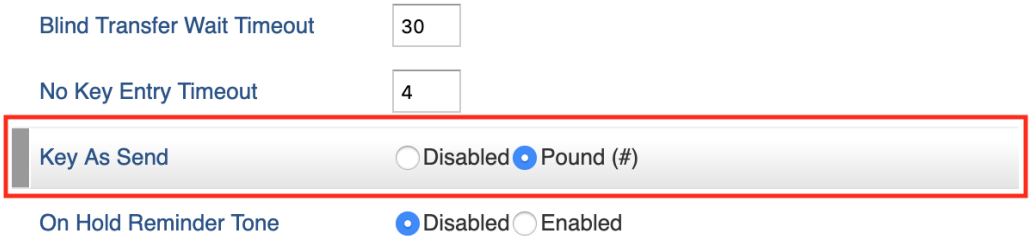
ENABLE/DISABLE USING # FOR REDIAL

- **Web Configuration**

A new option "Use Pound (#) For Redial" can be found under device web UI→ Settings → Call Features.



Also, the previous option "Use # as Dial key" under web UI→ Accounts → Account x -> Call Settings is now renamed to "Key as Send" with option "Disabled" and "Pound (#)".



- **Functionality**

When "Use Pound (#) For Redial" is set "No", the pound key # will not act as redial when it's pressed in idle screen. Also, if "Key As Send" is set to "Pound (#)", when entering a number first and then pressing pound (#) key, the phone will dial out immediately.

- **Pvalue**

Pvalue	Description	Value Range:	Default
P8504	<New Pvalue>	Value = 0; No	1

	Use Pound (#) For Redial	Value = 1; Yes	
P72	Account 1: Key as Send	Value = 0; Disabled Value = 1; Pound (#)	1
P492	Account 2: Key as Send	Value = 0; Disabled Value = 1; Pound (#)	1
P592	Account 3: Key as Send	Value = 0; Disabled Value = 1; Pound (#)	1

SUPPORT $active_url IN ACTION URL

Under device web UI→ Maintenance → Action URL, if an action field is configured with URL including active_uri=$active_uri, the output URI will contain the actual SIP URI.

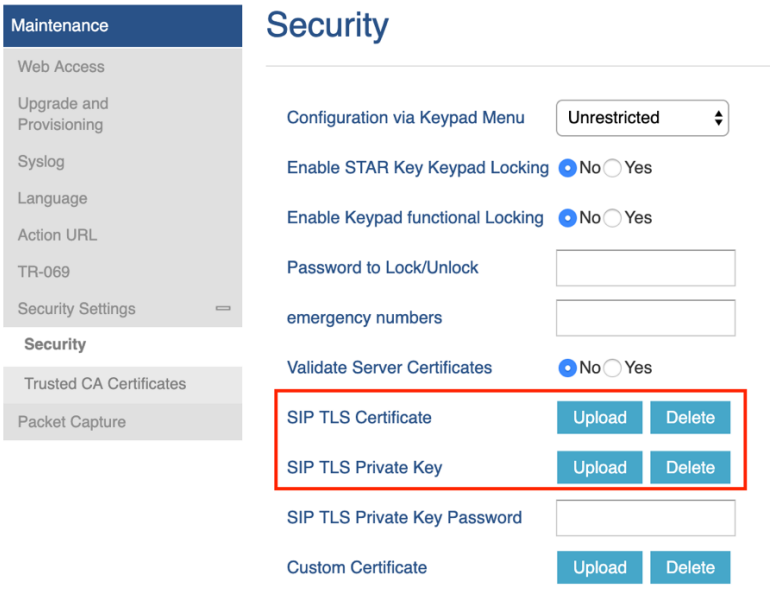
Assuming the device has the SIP account configured with the following:

- Account Name: Test
- SIP Server: sip.grandstream.com
- SIP User ID: 1002

WebUI Configuration: **Maintenance → Action URL page**	**Action**	**Output URL**
Incoming Call: http://192.168.5.224:8080/in=$active_uri	Make incoming call to the device	"GET /in=1002@sip.grandstream.com HTTP/1.1\r\n"
Outgoing Call: http://192.168.5.224:8080/out=$active_uri	Make outgoing call from the device	"GET /out=1002@sip.grandstream.com HTTP/1.1\r\n"
Unregistered: http://192.168.5.224:8080/unreg=$active_uri	Unregister the SIP account on the device	"GET /unreg=1002@sip.grandstream.com HTTP/1.1\r\n"
Registered: http://192.168.5.224:8080/reg=$active_uri	Register SIP account on the device	"GET /reg=1002@sip.grandstream.com HTTP/1.1\r\n"

UPLOAD FUNCTION FOR SIP TLS CERTIFICATE/PRIVATE KEY

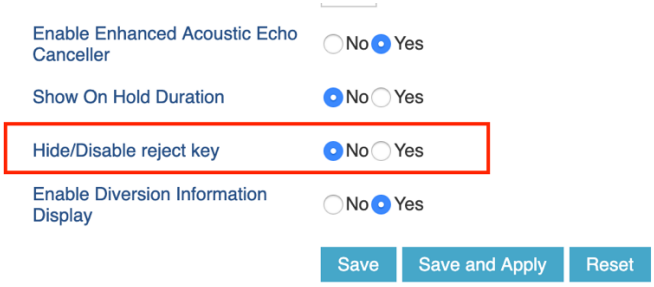
Under device web UI→ Maintenance → Security Settings → Security, users can now use the “Upload” and “Delete” buttons to manage SIP TLS Certificate and SIP TLS Private Key.



ENABLE/DISABLE REJECT SOFTKEY

- **Web Configuration**

A new option “Hide/Disable REJECT Key” can be found under device web UI→ Settings → Call Features.



- **Functionality**

When “Hide/Disable REJECT Key” is set to “Yes”, the device will not display REJECT softkey upon incoming call.

- **Pvalue**

Pvalue	Description	Value Range	Default
P8511	<New Pvalue> Hide/Disable REJECT Key	Value = 0; No Value = 1; Yes	0

ENABLE/DISABLE BUSY TONE ON REMOTE DISCONNECT

- **Web Configuration**

A new option “Disable Busy Tone on Remote Disconnect” can be found under device web UI→ Settings → Call Features.



- **Functionality**

When “Disable Busy Tone on Remote Disconnect” is set to “Yes”, the device will not hear the busy tone after remote party hangs up the call.

- **Pvalue**

Pvalue	Description	Value Range	Default
P6762	<New Pvalue> Disable Busy Tone on Remote Disconnect	Value = 0; No Value = 1; Yes	0

SUPPORT DNS CACHE REFRESH TIME

- **Web Configuration**

A new option “DNS Cache Refresh Time” can be found under device web UI→ Settings → General Settings.



- **Functionality**

The phone will send out DNS queries based on the configured DNS Cache Refresh Time after responding response to refresh IP addresses for SIP.

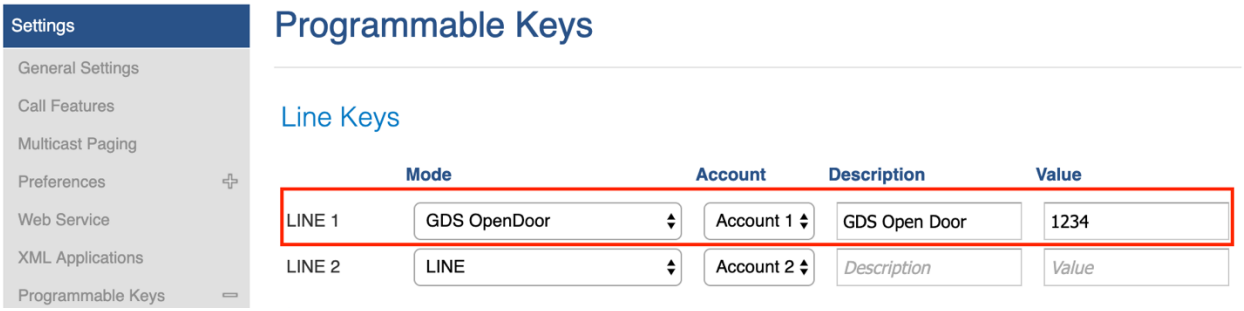
- **Pvalue**

Pvalue	Description	Value Range	Default
P4208	<New Pvalue> DNS Cache Refresh Time	5 – 1440, in minutes	30

SUPPORT OPEN GDS DOOR IN IDLE STAGE

- **Web Configuration**

Assuming the device already has GDS open door setting configured under device web UI→ Settings → External Service, navigate to device web UI → Settings → Programmable Keys, add an MPK or Line key, choose “GDS OpenDoor” for key “Mode” and enter the GDS SIP extension for the MPK/Line key value.



Note:
The GDS device must be property configured as well such as enabling “Remote PIN To Open Door” under GDS web UI->Door System Settings->Basic Settings.

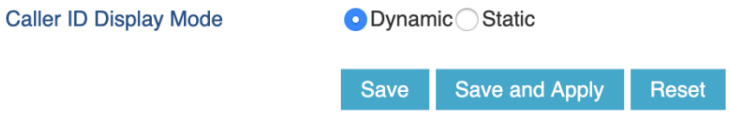
- **Functionality**

When the device is in idle stage, pressing the configured MPK or Line key will open the door via GDS.

CALLER ID DISPLAY MODE

- **Web Configuration**

A new option “Caller ID Display” can be found under device web UI→ Settings → Preferences → LCD Display.



- **Functionality**

Users can configure “Caller ID Display Mode” to control the caller ID display preference:

- Dynamic: If the caller ID is long, it will keep scrolling until it’s displayed completed.
- Static: The caller ID will not scroll.

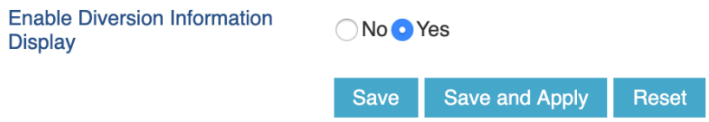
- **Pvalue**

Pvalue	Description	Value Range	Default
P8473	Caller ID Display Mode	Value = 0; Dynamic Value = 1; Static	0

ENABLE/DISABLE DIVERSION INFORMATION DISPLAY

- **Web Configuration**

A new option “Enable Diversion Information Display” can be found under device web UI→ Settings → Call Features.



- **Functionality**

When “Enable Diversion Information Display” is set to “Yes”, Diversion info will be displayed if the device receives INVITE with Diversion header.

Example:
For each SIP account that has “Remote Info Display” setting under web UI→ Accounts → Account x → Call Settings, it will follow below behaviors when “Enable Diversion Information Display” is enabled and when “Remote Info Display” is set to “Name and Number”:

- If A calls B and B has the call forwarded to the GXP16xx, the GXP16xx will display “A_name A_number (Diverted From B_number)” on LCD. If the GXP16xx’s local phonebook has B in it, B_name will be displayed instead of B_number in the “Diverted From” part.
- If A calls B, B answers and then B transfers to the GXP16xx, the GXP16xx will display “A_name A_number (Transferred From B_number)” on LCD. If the GXP16xx’s local phonebook has B in it, B_name will be displayed instead of B_number in the “Transferred From” part.

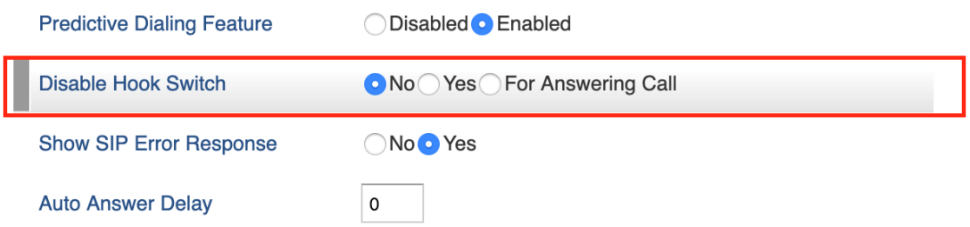
- **Pvalue**

Pvalue	Description	Value Range	Default
P22237	Enable Diversion Information Display	Value = 0; No Value = 1; Yes	1

DISABLE HOOK SWITCH

- **Web Configuration**

This option can be found under device web UI→ Settings → Call Features.



- **Functionality**

Now the users can choose the behavior for hook switch for the phone's handset.

- If set to "No", the phone will answer the call when the handset is off-hook. This is the default behavior.
- If set to "Yes", the hook switch will not work to trigger on hook/off hook at all. The handset audio channel will not work during phone call either.
- If set to "For Answering Call", the phone's hook switch will not work to answer incoming call. Users will need press softkey or speaker/headset/line hard key to answer the call. The hook switch will still work to switch audio channel to handset. For example, if the incoming call is answered by pressing ANSWER softkey, users can lift handset (off-hook) to switch audio channel to handset.

- **Pvalue**

Pvalue	Description	Value Range	Default
P6763	<New Pvalue> Disable Hook Switch	Value = 0; No Value = 1; Yes Value = 2; For Answering call	Value = 0; No

FIRMWARE VERSION 1.0.4.132

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

10/18/2018

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

MD5: 87e6a4abb8d1166106f7176fe2d96dc3

ENHANCEMENT

- Added Support for the string "tftp://" inside DHCP Option 66 [TFTP:// SUPPORT]
- Increased phonebook limit to 1000
- Updated German Web Language
- Updated Portuguese Web Language
- Updated Portuguese LCD Language
- Updated French Web Language
- Updated French LCD Language
- Updated Spanish Web Language
- Updated Spanish LCD Language

BUG FIX

- Fixed Timezone values not correct for some locations
- Fixed SSH Public Key is invalid
- Fixed Bypass dial plan configuration causes the failure on network Conference and voicemail calling
- Fixed Device crashes randomly and generates core dump
- Fixed Device crashed after setting account active to yes
- Fixed Access to a root shell (CVE-2018-17565)
- Fixed Remote manipulation of some nvram parameters without authorization (CVE-2018-17564)
- Fixed Remote dump of all the nvram parameters without authorization (CVE-2018-17563)

NEW FEATURES OVERVIEW

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

TFTP:// SUPPORT

- **Functionality**

Previously, tftp protocol will be forced to add into the values you input. For example, if you have “192.168.1.1” in the field, the phone will send tftp request to “tftp://192.168.1.1”. However, if you have “tftp://192.168.1.1” in option 66, phone will send “tftp://tftp://192.168.1.1”. Now with the new enhancement, when setting up DHCP option 66, users will not need to care about the protocol. You can input either “192.168.1.1” or “tftp://192.168.1.1”. Both will work as expected.

FIRMWARE VERSION 1.0.4.128

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

08/03/2018

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

MD5: 2acb6b264795f134f6968d01a6c83c1f

ENHANCEMENT

- Added Support for SNMPv3
- Added FTP(FTPS) support for provisioning and firmware upgrade [FTP (FTPS) SUPPORT]
- Improved delay on switch when device is booting
- Added Support to configure device with custom certificate signed by custom CA certificate [CUSTOM CERTIFICATE]
- Added Support for local pcap capture [LOCAL PCAP CAPTURE]
- Added Support for Group Listening softkey [GROUP LISTENING]
- Added Support for more Action URL notification [SUPPORT MORE ACTION URL NOTIFICATION]
- Added Support for XML Application [XML APPLICATIONS]
- Added Support for RTCP-XR
- Added Broadsoft call park notification feature
- Added Codec Negotiation Priority feature [CODEC NEGOTIATION PRIORITY]
- Added Support for "tftp://" in DHCP Option 66
- Added Support for more characters in password input from LCD [MORE CHARACTERS FOR PASSWORD INPUT FROM LCD]
- Added Support to customize idle time to logout the web access [WEB SESSION TIMEOUT]
- Added Support to customize number of failed attempt to access web GUI [WEB ACCESS ATTEMPT LIMIT]
- Added Support for BLF call pick-up to go through dial plan [BYPASS DIAL PLAN]
- Added Support of on hook dialing with Live DialPad [LIVE DIALPAD]
- Added Support for CID and Image from SIP NOTIFY [CID AND IMAGE FROM SIP NOTIFY]
- Added Support to randomize TR069 Inform Interval [RANDOMIZED TR069 STARTUP]
- Added Support to configure off-hook auto dial delay [OFFHOOK AUTO DIAL DELAY]
- Added Support for auto answer delay [AUTO ANSWER DELAY]

- Added More fields for Distinctive Ring Tone (Matching Rule) [MORE MATCHING RULES SUPPORTED]
- Add Support to enable or disable Acoustic Echo Cancellation [ENABLE ENHANCED ACOUSTIC ECHO CANCELLER]
- Add Support to download certificate files during provisioning [DOWNLOAD CERTIFICATE FILES DURING PROVISION]
- Add Support of on hold reminder tone [ON HOLD REMINDER TONE]

BUG FIX

- Fixed Certain path syntax can cause device to send config request multiple times and break firmware provision
- Fixed Device doesn't require the old GUI Admin password to define a new password from the LCD
- Fixed Option 66 provisioning not sending authentication credentials
- Fixed HTTP provision will return 505 error if config path contains spaces
- Disabled 802.1Q tag when VLAN ID is 0 and priority value is different to 0
- Fixed Device does not re-establish PPPoE connection after terminating request from server
- Fixed Upgrade web UI page spelling mistakes
- Fixed Device only encrypt signal but not RTP under the CBCOM model
- Fixed Device LCD updates network status slowly after factory reset
- Fixed Device cannot upgrade firmware successfully with dummy file break provision process with Broadsoft
- Fixed Device Eventlist BLF not updating keys correctly with Broadsoft
- Fixed Device priority alert silent alerting not working with Broadsoft
- Fixed Some Pvalues get abnormal or wrong after factory reset
- Fixed Device gets freezing after downloading an empty phonebook
- Fixed Device keeps rebooting all the time
- Fixed Device doesn't display the correct CID in call history after *code call pick-up
- Fixed Daylight-saving time does not work correctly for some time zones
- Fixed Device crashes after receiving instant message
- Fixed Device crashes after enabling account 2 and setting MPK as BLF or presence watcher
- Fixed Device does not send SIP SUBCRIBE messages when switch between OBPs
- Fixed Device hangs up the call after sending call park feature code
- Fixed INVITE cannot be print out in syslog
- Fixed The tooltip of "Proxy server Switch Delay" display error
- Updated Korean Translations
- Fixed Device still sends TCP Keep-Alive with all Keep-Alive settings off
- Fixed Device only CONTACT header is using SIPS when setting “SIP URI Scheme when using TLS” to SIPS
- Fixed Device still sends DEBUG, WARNING and INFO when set syslog Level to “ERROR”
- Fixed Device "Download and Process ALL Available Config Files" works abnormally
- Fixed Daylight Saving Time displayed incorrectly on LCD

- Removed A reboot request when a timezone p-value is updated
- Updated BLF State to follow pval value
- Increased Field to display incoming caller ID
- Changed Backup proxy SIP REGISTRATION behavior for iPageOn
- Updated Call hold is not allowed if receiving a 488 for iPageOn
- Fixed Device one-way audio issue after semi-attended transfer when using SRTP for iPageOn
- Fixed BLF stays red issue when monitored extension receives more than one call for PortaOne
- Fixed Configuration backup should not include CA/Custom certificate Pvalue
- Fixed Echo issue on speaker
- Fixed Multicast Paging Priority disable option does not working
- Fixed Device intermittently not allowing terminal to be answered
- Fixed Device IP is shown as 0.0.0.0
- Fixed Click-To-Dial feature does not bypass the dial plan rules
- Fixed Customer certificate provision does not work with certain Pvalue
- Fixed ATE-IP call test failed
- Changed SSRC/SEQ number in outgoing RTP packets between early media and main media
- Updated phonebook string in LCD and Web menu

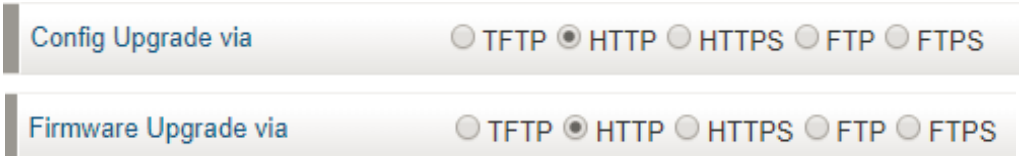
NEW FEATURES OVERVIEW

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

FTP (FTPS) SUPPORT

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Upgrade and Provisioning → Config Upgrade via.



- **Functionality**

Now other than TFTP/HTTP/HTTPS, we also support FTP and FTPS for provisioning and firmware upgrade.

- **Pvalue**

Pvalue	Description	Value Range	Default
P212	Config Upgrade via	Value = 0; TFTP Value = 1; HTTP Value = 2; HTTPS	2

		Value = 3; FTP Value = 4; FTPS	

CUSTOM CERTIFICATE

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security.



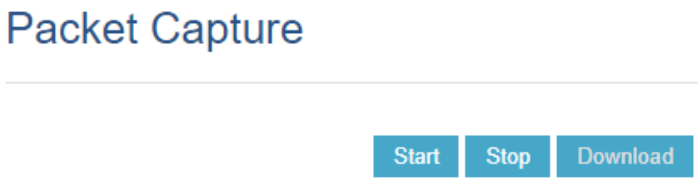
- **Functionality**

Now if the users want to upload their own certificate, they can upload from the custom certificate that allows the server to verify with the phone.

LOCAL PCAP CAPTURE

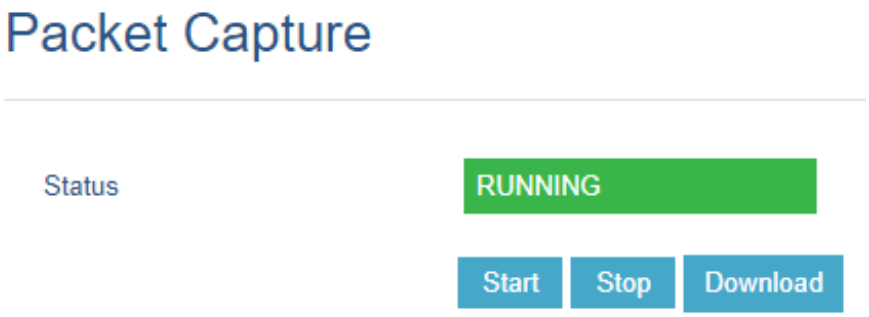
- **Web Configuration**

This option can be found under device web UI→ Maintenance → Packet Capture.



- **Functionality**

Now if users want to capture their phone's traffic, they can use the packet capture function on the phone. After pressing start, you'll see:



This means the capture is running. If you want to stop capturing, just press Stop. Then you'll be able to download the pcap file from the phone.

GROUP LISTENING

- **Web Configuration**

This option can be found under device web UI→ Settings → Preferences → Audio Control.



- **Functionality**

Enabling Group Listening will enable speaker sound while the handset/headset still works as they should.

- **Pvalue**

Pvalue	Description	Value Range	Default
P22100	<New Pvalue> Enable Group Listening	Value = 0; No Value = 1; Yes	No
P22163	<New Pvalue> Group Listen with Speaker	Value = 0; No Value = 1; Yes	No

SUPPORT MORE ACTION URL NOTIFICATION

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Action URL.

- **Functionality**

Now device supports more action URL, including Unconditional Forward, No Answer Forward, Transfer, Mute, etc.

XML APPLICATIONS

- **Web Configuration**

This option can be found under device web UI→ Settings → XML Application.



- **Functionality**

This feature allows users to access XML service information in web server, and to present the information in LCD, also to customize screen display.

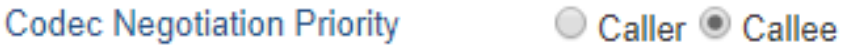
- **Pvalue**

Pvalue	Description	Value Range	Default
P340	Idle Screen XML Download	Value = 0; Disabled Value = 1; Enabled, Use TFTP Value = 2; Enabled, HTTP Value = 3; Enabled, HTTPS	Disabled
P1349	Download Screen XML at Boot-up	Value = 0; No Value = 1; Yes	No
P1343	Use Custom Filename	Value = 0; No Value = 1; Yes	No
P341	Idle Screen XML Server Path	String	N/A
P337	Server Path	String	N/A
P352	Softkey Label	String	XML Service

CODEC NEGOTIATION PRIORITY

- **Web Configuration**

This option can be found under device web UI→ Account → Account # → Audio Settings → Codec Negotiation Priority.



- **Functionality**

Now the users can decide which codec phone will use as priority.

- **Pvalue**

Pvalue	Description	Value Range	Default
P29061 P29161 P29261	<New Pvalue> Codec Negotiation Priority	Value = 0; Caller Value = 1; Callee	Callee

MORE CHARACTERS FOR PASSWORD INPUT FROM LCD

- **Functionality**

Now users can enter more characters from the LCD screen including “<, >, ?, {, }, [,], ^” these characters will be allow to input by using number key 1.

WEB SESSION TIMEOUT

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security → Web Session Timeout.



- **Functionality**

Now users can set how long they want to keep the web UI to stay idle before the web log them out.

- **Pvalue**

Pvalue	Description	Value Range	Default
P28116	<New Pvalue> Web Session Timeout	2-60	10

WEB ACCESS ATTEMPT LIMIT

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security → Web Access Attempt Limit.



- **Functionality**

Now users can set how many times they want their password to be tested before they lock the IP out for some time.

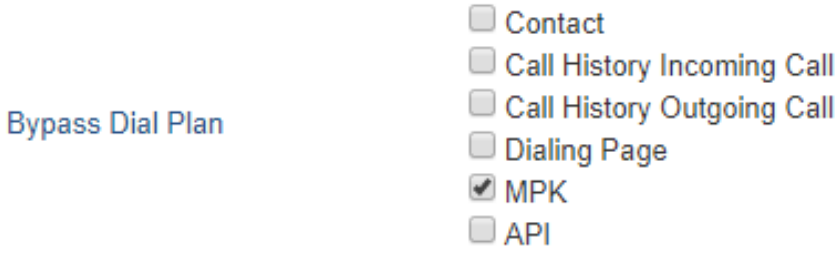
- **Pvalue**

Pvalue	Description	Value Range	Default
P28117	<New Pvalue> Web Access Attempt Limit	1-10	5

BYPASS DIAL PLAN

- **Web Configuration**

This option can be found under device web UI→ Account → Accounts # → Call Settings → Bypass Dial Plan.



- **Functionality**

  Now the users can choose to bypass the dialplan on part of the function of the phone.

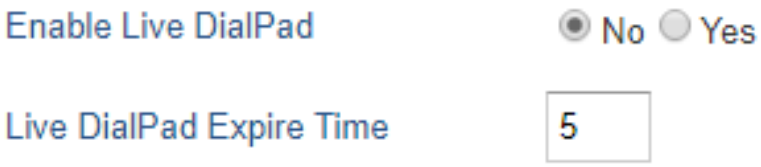
- **Pvalue**

Pvalue	Description	Value Range	Default
P2382/ P2482/ P2582	<New Pvalue> Bypass Dial Plan	Value = "Contact" Value = "Call History Incoming Call" Value = "Call History Outgoing Call" Value = "Dialing Page" Value = "Mpk" Value = "Api"	Mpk

LIVE DIALPAD

- **Web Configuration**

  The option can be found under device web UI→ Settings → Call Features → Live DialPad Expire Time.



- **Functionality**

Now users can use Live DialPad to auto dial after a period of wait time. If you enable Live DialPad, after dial in the numbers, the phone will wait for the time set in the expire time (in seconds) and dial out automatically after.

- **Pvalue**

Pvalue	Description	Value Range	Default
P8350	<New Pvalue> Bypass Dial Plan	Value = 0; No Value = 1; Yes	No
P8351	<New Pvalue> Live DialPad Expire Time	2-15	5

CID AND IMAGE FROM SIP NOTIFY

- **Functionality**

We have already supported the CID and Image previously. Now if phone receives NOTIFY message with type header:"application/cid-info+xml" and event header:"cid-info-update", phone will also take the message and update CID information and CID image.

RANDOMIZED TR069 STARTUP

- **Web Configuration**

This option can be found under device web UI→ Maintenance → TR-069 → Randomized TR069 Startup.



- **Functionality**

Now users can configure phone to randomize the TR069 update by enabling this feature. Random time will happen between 1-3600 seconds after bootup.

- **Pvalue**

Pvalue	Description	Value Range	Default
P28116	<New Pvalue> Randomized TR069 Startup	Value = 0; Disabled Value = 1; Enabled	Disabled

OFFHOOK AUTO DIAL DELAY

- **Web Configuration**

This option can be found under device web UI→Settings→Call Features→Off-hook Auto Dial Delay.



- **Functionality**

Now if users set Off hook auto dial number, they can add a delay on it. Then the phone will wait for the time set before it auto dials out.

- **Pvalue**

Pvalue	Description	Value Range	Default
P8388	<New Pvalue> Off-hook Auto Dial Delay	0-30	0

AUTO ANSWER DELAY

- **Web Configuration**

This option can be found under device web UI→ Settings → Call Features → Auto Answer Delay.



- **Functionality**

Now if users set auto answer, they can also set a delay time before the phone is picked up. This way users can have more time to prepare for their incoming calls.

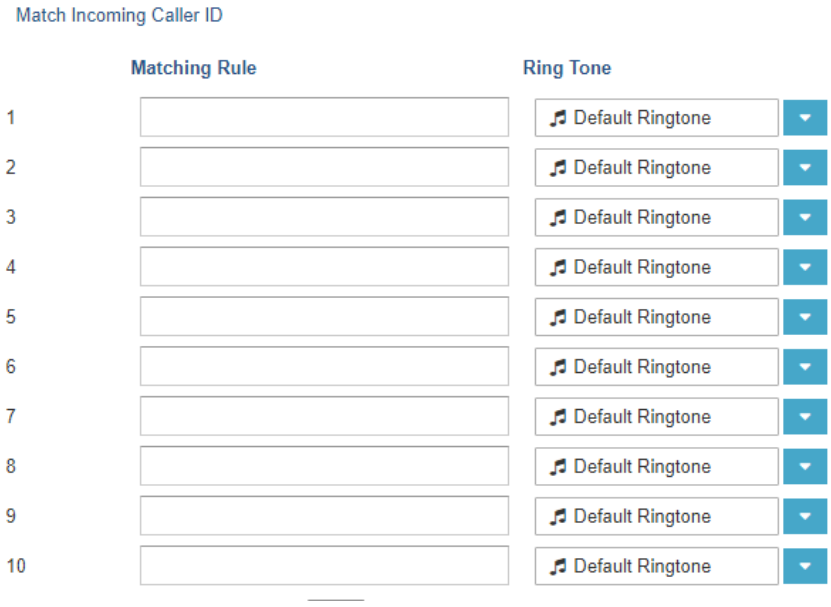
- **Pvalue**

Pvalue	Description	Value Range	Default
P8486	<New Pvalue> Auto Answer Delay	1-10	0

MORE MATCHING RULES SUPPORTED

- **Web Configuration**

This option can be found under device web UI→ Accounts → Account # → Call Settings.



- **Functionality**

Now instead of supporting three matching rules ringtone settings, users can have up to ten matching incoming caller ID

- **Pvalue**

Pvalue	Description	Value Range	Default
Account 1-3: P6716 P6722 P6728	<New Pvalue> Match Incoming Caller ID 4	String	N/A
Account 1-3: P6718 P6724 P6730	<New Pvalue> Match Incoming Caller ID 5	String	N/A
Account 1-3: P6720 P6726 P6732	<New Pvalue> Match Incoming Caller ID 6	String	N/A
Account 1-3: P26064 P26164 P26264	<New Pvalue> Match Incoming Caller ID 7	String	N/A
Account 1-3: P26066 P26166 P26266	<New Pvalue> Match Incoming Caller ID 8	String	N/A
Account 1-3: P26068 P26168 P26268	<New Pvalue> Match Incoming Caller ID 9	String	N/A
Account 1-3: P26096 P26196 P26296	<New Pvalue> Match Incoming Caller ID 10	String	N/A

Pvalue	Description	Value Range	Default
Account 1-3: P6717 P6723 P6729	<New Pvalue> Match Rule 4 Ringtone	Value= -1 No Ringtone; Value= 0 system ring tone; Value= 1 custom ring tone 1; Value= 2 custom ring tone 2; Value= 3 custom ring tone 3; Value= 4 silent; Value= 5 Default Ringtone.	Default Ringtone
Account 1-3: P6719 P6725 P6731	<New Pvalue> Match Rule 5 Ringtone	Value= -1 No Ringtone; Value= 0 system ring tone; Value= 1 custom ring tone 1; Value= 2 custom ring tone 2; Value= 3 custom ring tone 3; Value= 4 silent;	Default Ringtone

		Value= 5 Default Ringtone.	
Account 1-3: P6721 P6727 P6733	<New Pvalue> Match Rule 6 Ringtone	Value= -1 No Ringtone; Value= 0 system ring tone; Value= 1 custom ring tone 1; Value= 2 custom ring tone 2; Value= 3 custom ring tone 3; Value= 4 silent; Value= 5 Default Ringtone.	Default Ringtone
Account 1-3: P26065 P26165 P26265	<New Pvalue> Match Rule 7 Ringtone	Value= -1 No Ringtone; Value= 0 system ring tone; Value= 1 custom ring tone 1; Value= 2 custom ring tone 2; Value= 3 custom ring tone 3; Value= 4 silent; Value= 5 Default Ringtone.	Default Ringtone
Account 1-3: P26067 P26167 P26267	<New Pvalue> Match Rule 8 Ringtone	Value= -1 No Ringtone; Value= 0 system ring tone; Value= 1 custom ring tone 1; Value= 2 custom ring tone 2; Value= 3 custom ring tone 3; Value= 4 silent; Value= 5 Default Ringtone.	Default Ringtone
Account 1-3: P26069 P26169 P26269	<New Pvalue> Match Rule 9 Ringtone	Value= -1 No Ringtone; Value= 0 system ring tone; Value= 1 custom ring tone 1; Value= 2 custom ring tone 2; Value= 3 custom ring tone 3; Value= 4 silent; Value= 5 Default Ringtone.	Default Ringtone
Account 1-3: P26097 P26197 P26297	<New Pvalue> Match Rule 10 Ringtone	Value= -1 No Ringtone; Value= 0 system ring tone; Value= 1 custom ring tone 1; Value= 2 custom ring tone 2; Value= 3 custom ring tone 3; Value= 4 silent; Value= 5 Default Ringtone.	Default Ringtone

ENABLE ENHANCED ACOUSTIC ECHO CANCELLER

- **Web Configuration**

This option can be found under device web UI → Settings → Call Features → Enable Enhanced Acoustic Echo Canceller.



- **Functionality**

  Now user is able to choose to enable or disable the echo canceller on the phone in speaker mode.

- **Pvalue**

Pvalue	Description	Value Range	Default
P22175	<New Pvalue> Enable Enhanced Acoustic Echo Canceller	Value = 0; No Value = 1; Yes	Yes

DOWNLOAD CERTIFICATE FILES DURING PROVISION

- **Functionality**

Now if users enter server URL in the Pvalue listed below, phone will download the certificate file that's on the server and commit into phone.

Those Pvalues are:

279: SIP TLS Certificate
280: SIP TLS Private Key
8433: Trusted CA Certificates 1
8434: Trusted CA Certificates 2
8435: Trusted CA Certificates 3
8436: Trusted CA Certificates 4
8437: Trusted CA Certificates 5
8438: Trusted CA Certificates 6
9902: OpenVPN CA
9903: OpenVPN Certificate
9904: OpenVPN Client key

ON HOLD REMINDER TONE

- **Web Configuration**

This option can be found under device web UI→ Accounts → Account # → Call Settings → On Hold Reminder Tone.



- **Functionality**

Now the user can hear 3 beeps as hold reminder, the first on hold reminder occurs at 1 min and the subsequent on hold reminder occurs every 30 sec.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P26006/ P26106/ P26206	<New Pvalue> On Hold Reminder Tone	Value = 0; Disabled Value = 1; Enabled	Disabled

FIRMWARE VERSION 1.0.4.106

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

03/08/2018

FIRMWARE FILE INFORMATION

- Firmware file name: gxp1600fw.bin

  MD: d1d9c5aa986bc678a13b64155be07b29

ENHANCEMENT

- Enhanced syslog to run on other ports instead of default port [SYSLOG ENHANCEMENT]
- Enhanced intercom options (including Intercom Mute, Intercom Tone) [INTERCOM ENHANCEMENT]
- Added auto provision starts when certain p-values are changed [PVALUES THAT TRIGGER AUTO PROVISION]
- Added attempt to download config files [ATTEMPT TO DOWNLOAD CONFIG FILE AGAIN]
- Enhanced pressing speaker key takes 10-15 seconds to respond from idle to call screen after reboot

BUG FIX

- Fixed softkey button doesn't work after logged in hoteling feature with Broadsoft
- Fixed 3CX phone provision with SIP NOTIFY Event header "check-sync;reboot=false" causes phone rebooting
- Fixed Phone leaves the stuck call in call park scenario with 3CX
- Fixed Phone does not send DND status back to PBX after 200OK for 3CX
- Remove MAC address in the "User-Agent" header of the SIP Register messages for 3CX
- Fixed Phone wrong sorting when using English and Czech phonebook contacts
- Fixed Phone does not remain the voice vlan when LLDP is set to voice vlan and voice-signaling vlan
- Fixed Phone is frozen after uploading wrong phone book

NEW FEATURES OVERVIEW

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

SYSLOG ENHANCEMENT

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Syslog → Syslog Server.



- **Functionality**

By adding port number to the syslog server field, the phone will send syslog to the corresponding port of that IP.

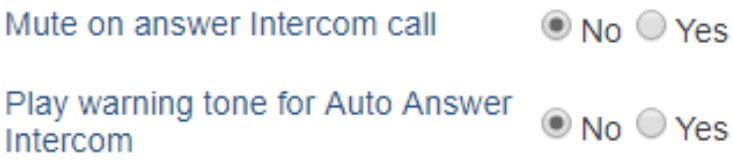
- **Pvalue**

Pvalue	Description	Value Range	Default
P207	Syslog Server	String	N/A

INTERCOM ENHANCEMENT

- **Web Configuration**

There're two new options for Intercom feature. These options can be found under device web UI→ Accounts → Account # → Intercom.



- **Functionality**

Now if phone receives intercom calls, and "Mute on answer intercom call" is enabled, when intercom calls are auto answered, phone will mute itself to increase privacy.
If "Play warning tone for auto answer Intercom" is enabled, when enabling auto answer, phone will play a warning tone to remind user that the intercom has been connected.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P26071 (Account1) P26171 (Account 2) P26271 (Account 3)	<New Pvalue> Mute on answer Intercom call	Value = 0; No Value = 1; Yes	No
P26072 (Account1) P26172 (Account 2) P26272 (Account 3	<New Pvalue> Play warning tone for Auto Answer Intercom	Value = 0; No Value = 1; Yes	No

PVALUES THAT TRIGGER AUTO PROVISION

- **Functionality**

If the p-values listed below are changed while managing configuration on web UI or LCD, the provision process will be triggered:

* 192 -- Firmware upgrade server
* 232 -- Firmware prefix
* 233 -- Firmware postfix
* 6767 -- Firmware Upgrade Via
* 6768 -- Firmware HTTP/HTTPS Username
* 6769 -- Firmware HTTP/HTTPS Password
* 237 -- Config upgrade Server
* 212 -- Config upgrade via
* 234 -- Config prefix
* 235 -- Config postfix
* 1360 -- Config HTTP/HTTPS username
* 1361 -- Config HTTP/HTTPS password

ATTEMPT TO DOWNLOAD CONFIG FILE AGAIN

- **Functionality**

When doing provision on the phone, if your first config file contains p-values listed below, phone will try to download the potential second cfg.xml file and apply the second file without rebooting. Maximum 3 extra attempts. Those P-values are:

*212 -- Config upgrade via
*234 -- Config prefix
*235 -- Config postfix
*237 -- Config upgrade Server
*240 – Authenticate Config File
*1359 – XML Config File Password
*8463 – Validate Server Certificate
*8467 – Download and process ALL Available Config Files
*20713 – Always authenticate before challenge
*22030 – Validate Hostname in Certificate

FIRMWARE VERSION 1.0.4.100

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

02/16/2018

ENHANCEMENT

- Added support for VPK share line to display description value [VPK SHARED LINE DESCRIPTION]
- Added option to enable BLF or speed dial VPK/MPK to perform blind transfer during active call [ENABLE TRANSFER VIA NON-TRANSFER MPK]
- Allowed LCD backlight to be always on or always off[SUPPORT TO ALLOW LCD BACKLIGHT ALWAYS ON]
- Added “Let's Encrypt” Validation for 3CX
- Added support to automatically log in web UI from server interface for 3CX [AUTOMATICALLY LOG IN FROM 3CX SERVER INTERFACE]
- Added uaCSTA support for 3CX [uaCSTA SUPPORT FOR 3CX]
- Added monitored call park MPK option and supported to be provisioned by 3CX
- Added Use SBC configuration for 3CX [USE SBC WITH 3CX]
- Added support for HTTPS server based on TLSv1.2
- Added option to disable user web access [USER WEB ACCESS]
- Enabled strong password for admin/user password [TEST PASSWORD STRENGTH]
- Force admin to change default password upon first time login
- Added option to include MAC address in the SIP User-Agent [USE MAC HEADER]
- Added Server Validation [SERVER VALIDATION]
- Added support for Cisco Discovery Protocol (CDP) [SUPPORT FOR CISCO DISCOVERY PROTOCOL (CDP)]
- Added option to choose either to override or append phonebook groups when a new XML file is uploaded [IMPORT GROUP METHOD]

BUG FIX

- Fixed Device carries two user-agent headers
- Fixed Device User-Agent carries error information
- Fixed Device gets frozen after uploading wrong phone book
- Fixed Device uploads group number abnormally
- Fixed Device gets frozen when uploading a phonebook with maximum contacts
- Fixed Import Phonebook Method is shown as XXXX
- Fixed Registration failure after setting up validate certificate chain to “Yes”

- Fixed Device takes too long to do failover from primary SIP server to secondary SIP server when SIP/TCP is set on the phone
- Fixed Device time zone is not updated after re-provisioning
- Updated Mozilla certificate files
- Updated Grandstream product certificate
- Fixed Device not sending RTP nor decoding RTP stream
- Fixed Recovery core replaces normal core issue
- Fixed Device does not provision if new configuration is the same as previous received configuration
- Fixed Server certificate validation not working
- Fixed Device cannot parse 3CX generated phonebook.xml
- Fixed Device crashes after answering the queue call with 3CX
- Fixed The number of contacts is not limited
- Fixed Device phonebook feature does not work correctly
- Fixed Device randomly crashes when switching fast between the lines
- Fixed Device always sends SIP requests to OBP port 5060 when configured as a different port
- Fixed Device does not send unregister after factory reset
- Fixed Device recognizes * as asterisk for 3CX CTI
- Fixed Device SNMP Trap Version works abnormally after modifying version
- Fixed User CA File Path
- Set Config upgrade via HTTPS & Firmware via HTTP as default value
- Fixed Wrong sorting issue when having English and Czech phonebook contacts
- Fixed There is no DHCP INFORM when ACS URL is not set
- Fixed Device cannot handle TCP packets that contain multiple SIP messages
- Fixed Modifying SIP SUBSCRIBE expiration doesn't trigger new registration/subscription

NEW FEATURES OVERVIEW

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

VPK SHARED LINE DESCRIPTION

- **Functionality**

If the VPK Description is set, it will show the description on the LCD screen. If the Description is left empty, Default value will be Account name.

ENABLE TRANSFER VIA NON-TRANSFER MPK

- **Web Configuration**

This option can be found under device web UI→ Settings → Programmable Keys → Multi-Purpose Keys Settings → Enable transfer via non-Transfer MPK.



- **Functionality**

  Now users can setup their VPK or MPK as BLF or Speed Dial, and use such VPK to perform transfer in active calls.

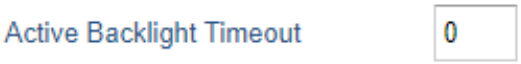
- **New Pvalue**

Pvalue	Description	Value Range	Default
P22162	<New Pvalue> Enable transfer via non-Transfer MPK	Value = 0; No Value = 1; Yes	No

SUPPORT TO ALLOW LCD BACKLIGHT ALWAYS ON

- **Web Configuration**

This option can be found under device web UI→ Settings → Preferences → LCD Display → Active Back Light Timeout.



- **Functionality**

When Active Backlight Timeout is set to 0, the backlight will be constantly on.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8356	Active Backlight Timeout	0(Always on), 1-90 (mins)	1

AUTOMATICALLY LOG IN FROM 3CX SERVER INTERFACE

- **Functionality**

Now users can log on to the phone's web UI from 3CX server by pressing the Phone UI with the correct provision and correct template.

uaCSTA SUPPORT FOR 3CX

- **Web Configuration**

This option can be found under device web UI→ Network → Remote Control → CSTA Control.



- **Functionality**

Now the users can use 3CX server with the CSTA enabled and have the following functions supported:
→ Support for CSTA session establish through SIP INVITE
→ Support for CSTA MonitorStart request through SIP INFO
→ Support for CSTA MakeCall request through SIP INFO
→ Support for CSTA AnswerCall request through SIP INFO
→ Support to send CSTA DeliveredEvent request through SIP INFO

- **New Pvalue**

Pvalue	Description	Value Range	Default
P32053	<New Pvalue> CSTA Control	Value = 0; Disabled Value = 1; Enabled	Disable

USER WEB ACCESS

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security → Enable User Web Access.



- **Functionality**

When this option is disabled, the user account will no longer be able to log on to web GUI. This allow admin to be fully control for the phone.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8469	<New Pvalue> Enable User Web Access	Value = 0; Disabled Value = 1; Enabled	Disabled

TEST PASSWORD STRENGTH

- **Web Configuration**

This option can be found under device web UI→ Settings → General Settings → Test Password Strength.



- **Functionality**

When choose Yes, users are able to set their password contains at least 3 out of these four categories:

1. Numerics (0-9)

2. Capital Letters (A-Z)
3. Lower Case Letters (a-z)
4. Special symbols: Eg: !, @, #, $, %, ^, &,*, (,), etc.

Also that the minimum characters should not be less than 9. This allows more security for the user/admin.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8468	<New Pvalue> Test Password Strength	Value = 0; No Value = 1; Yes	No

USE MAC HEADER

- **Web Configuration**

This option can be found under device web UI→ Accounts → Account # → SIP Settings → Custom SIP Headers.



- **Functionality**

Now instead of showing in regular MAC field, we have included the MAC address into the User-Agent Field.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P26061	Use MAC Header	Value = 0; User Name Value = 1; User ID	User Name

SERVER VALIDATION

- **Web Configuration**

This option can be found under device web UI→ Maintenance → Security Settings → Security → Validate Server Certificate.



- **Functionality**

When enabling this feature, the phone will then validate the server's certificate. If the server that our phone tries to register on is not on our list, it will not allow server to access our phone.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8463	<New Pvalue> Validate Server Certificates	Value = 0; No Value = 1; Yes	Yes

SUPPORT FOR CISCO DISCOVERY PROTOCOL (CDP)

- **Web Configuration**

This option can be found under device web UI → Network → Advanced Settings → Enabled CDP.



- **Functionality**

Allow user to enable/disable CDP feature which will allow the phone to receive CDP packets from the uplink. When CDP feature is enabled, make sure VLAN is also configured accordingly. It will need reboot to take effect for both enabling and disabling this feature.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P22119	<New Pvalue> Enable CDP	Value = 0; Enabled Value = 1; Disabled	Enabled

IMPORT GROUP METHOD

- **Web Configuration**

This option can be found under device web UI→ Phonebook → Phonebook management → Import Group Method.



- **Functionality**

Now when user imports a new phonebook, they can choose whether to replace the old phonebook groups or combine old phonebook and new phonebook together.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8462	<New Pvalue> Import Group Method	Value = 0; Replace Value = 1; Append	Replace

USE SBC WITH 3CX

- **Web Configuration**

This option can be found under device web UI→ Accounts → Account # → Network Settings → Use SBC.



- **Functionality**

Now if users want to work under SBC associated with 3CX, they should enable this feature to have better communication with the server.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P26090 P26190 P26290	<New Pvalue> Use SBC	Value = 0; No Value = 1; Yes	No

FIRMWARE VERSION 1.0.4.88

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

02/02/2018

BUG FIX

- Updated Grandstream product certificate
- Fixed Device couldn’t upgrade to build 1.0.1.52 from 1.0.1.30 by HTTPS
- Fixed Device gets stuck in "Firmware update" page during HTTPS upgrading process
- Fixed Device works abnormal after registering with Freeswitch account without SIP TLS Private Key Password

FIRMWARE VERSION 1.0.4.82

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

11/20/2017

ENHANCEMENT

- Added “Account Display” option to configure SIP account display label on LCD [ACCOUNT DISPLAY CONFIGURATION]
- Added “Disable VM/MSG Power Light Flash” option to enable/disable voicemail/message indication. [ENABLE/DISABLE VOICEMAIL INDICATION]
- Added web UI option to upload SSH public key for SSH access. [SUPPORT ACCESS SSH USING AUTHENTICATION KEYS]
- Added “Ring for Call Waiting” option to enable/disable ringing the speaker phone on call waiting. [SUPPORT RING FOR CALL WAITING]
- Added call forwarding configuration on web UI. [SUPPORT CALL FORWARD CONFIGURATION ON WEB UI]
- Added support for static/dynamic auto-attended transfer. [SUPPORT STATIC/DYNAMIC AUTO-ATTENDED TRANSFER]
- Added support for BLF server. [SUPPORT BLF SERVER CONFIGURATION]
- Added automatic redial support. [SUPPORT AUTOMATIC REDIAL]
- Added HTTP/HTTPS Username/Password configuration on LCD menu for firmware upgrading and provisioning. [SUPPORT HTTP(S) USERNAME/PASSWORD CONFIGURATION ON LCD FOR UPGRADE/CONFIG]
- Added blacklist/whitelist support in phonebook. [SUPPORT BLACKLIST/WHITELIST IN LOCAL PHONEBOOK]
- Added option to disable hook switch. [SUPPORT ENABLE/DISABLE HOOKSWITCH]
- Added notification tone value configuration [SUPPORT NOTIFICATION TONE VOLUME]
- Added SNMP support [SUPPORT SNMP]
- Added support for Genesys Agent Login/Logout and status update [SUPPORT GENESYS AGENT LOGIN/LOGOUT/STATUS UPDATE]
- Improved slow performance issue after phone is used for some time.
- Added Let’s Encrypt Root CA to Trusted CA
- Increased max length of dial plan from 512 to 1024 characters

BUG FIX

- Fixed phone is unable to generate second dial tone using dialplan

- Fixed local phonebook does not update the group assigned to new contact
- Fixed the standby server registration address displays incorrectly on the phone
- Fixed phone only shows 50 contacts for Broadsoft phonebook
- Fixed onhook dialing window disappears when there is an incoming call
- Fixed no audio issue when using with Genesys system
- Fixed multicast paging compatibility issue with other devices

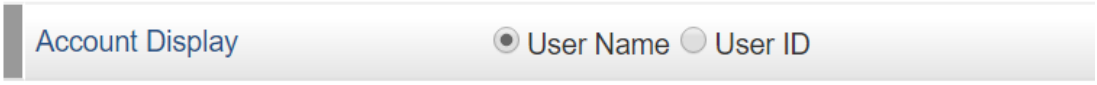
NEW FEATURES OVERVIEW

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

ACCOUNT DISPLAY CONFIGURATION

- **Web Configuration**

  This option can be found under device web UI→Accounts->Account X->General Settings->Account Display.



- **Functionality**

  The user can configure how the account label is displayed on the phone for the SIP account. If set to "User Name", LCD account label will display the Account Name configured for this SIP account. If set to "User ID", it will then display the SIP User ID configured for this SIP account.

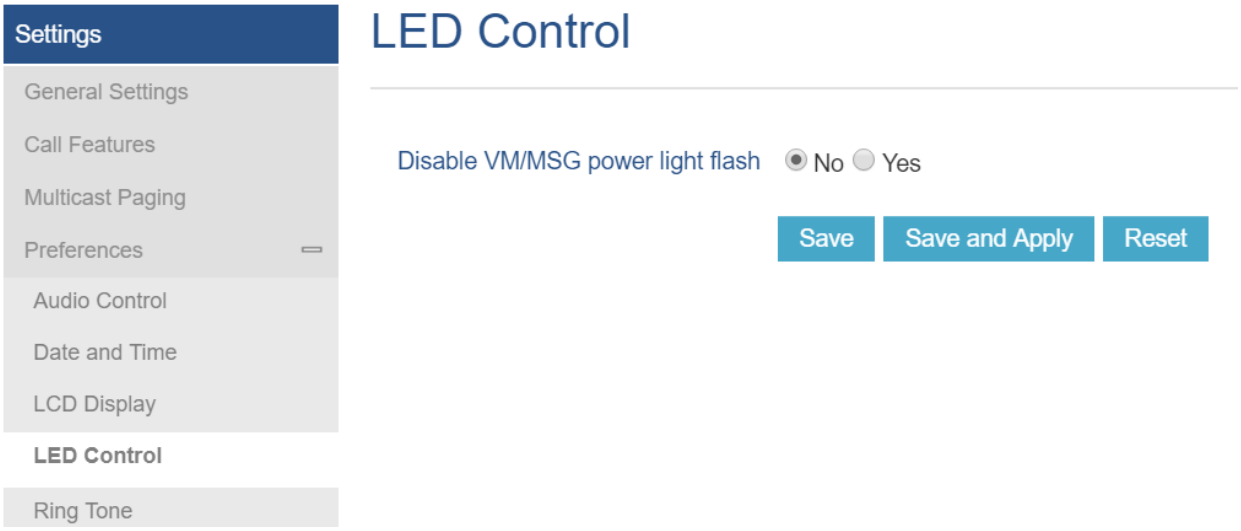
- **New Pvalue**

Pvalue	Description	Value Range	Default
P2380 (Account 1) P2480 (Account 2) P2580 (Account 3)	Account Display	Value = 0; User Name Value = 1; User ID	User Name

ENABLE/DISABLE VOICEMAIL INDICATION

- **Web Configuration**

  This option "Disable VM/MSG Power Light Flash" can be found under device web UI→Settings->Preference->LED Control.



- **Functionality**
  This option controls the LED behavior upon new/unread Voicemail and Message. If set to “No”, the LED light will be flashing when there is unread Voicemail and Message. Otherwise, it will be off.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8371	Disable VM/MSG Power Light Flash	Value = 0; No Value = 1; Yes	No

SUPPORT ACCESS SSH USING AUTHENTICATION KEYS

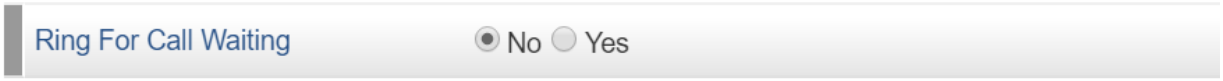
- **Web Configuration**
  The upload option for “SSH Public Key” can be found under device web UI→Maintenance->Security.



- **Functionality**
  This option allows user to use authentication keys for SSH access. The public key should be loaded to phone’s web UI while the private key should be used in the SSH tool side. This will allow upcoming SSH access without password.

SUPPORT RING FOR CALL WAITING

- **Web Configuration**
  The option “Ring for Call Waiting” can be found under device web UI→Settings->Call Features.



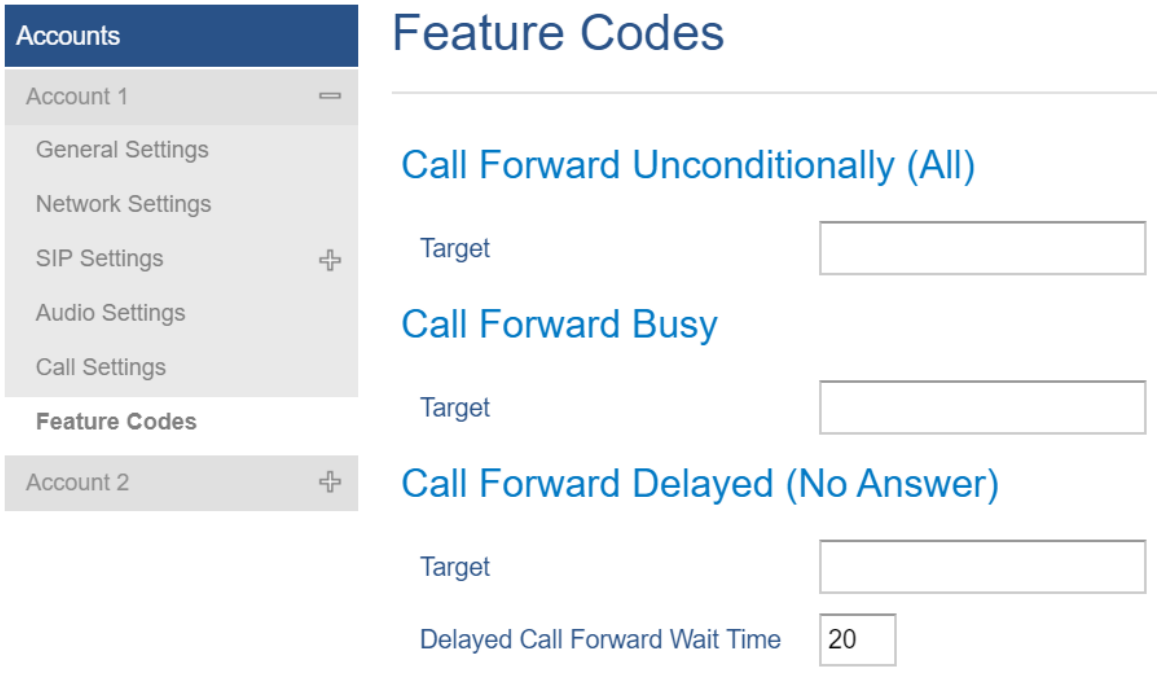
- **Functionality**
  This option allows user to configure whether the speaker phone will ring when there is new incoming call during an active call. If set to No, the user will hear call waiting tone. If set to Yes, the phone will ring using the speakerphone.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P22102	Ring For Call Waiting	Value = 0; No Value = 1; Yes	No

SUPPORT CALL FORWARD CONFIGURATION ON WEB UI

- **Web Configuration**
  Call forwarding configurations can be found under device web UI→Accounts->Account x->Feature Codes.



- **Functionality**
  In this web UI page, users can set Call Forward Unconditionally, Call Forward Busy and Call Forward Delayed (No Answer) for each SIP account.

- **New Pvalue**

Pvalue	Description	Value Range	Default
forward_0 (Account 1) forward_1 (Account 2) forward_2 (Account 3)	Call Forward Unconditionally (ALL) Target	String	None
busyForward_0 (Account 1) busyForward_1 (Account 2) busyForward_2 (Account 3)	Call Forward Busy Target	String	None
delayedForward_0 (Account 1) delayedForward_1 (Account 2) delayedForward_2 (Account 3)	Call Forward Delayed (No Answer) Target	String	None
P139 (Account 1) P470 (Account 2) P570 (Account 3)	Call Forward Delayed (No Answer) Delayed Call Forward Wait Time	Number	20

SUPPORT STATIC/DYNAMIC AUTO-ATTENDED TRANSFER

- **Web Configuration**

  The option is "Attended Transfer Mode" which can be found under device web UI→Settings->Call Features.



- **Functionality**

  When "Attended Transfer Mode" is set to "Static", only "Blind Transfer" softkey is available on the call screen. If set to "Dynamic", both "Blind Transfer" and "Attended Transfer" softkeys are available.

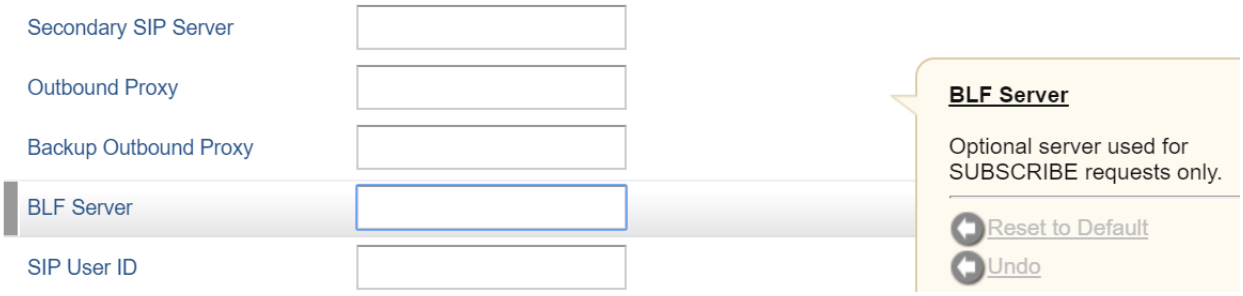
- **New Pvalue**

Pvalue	Description	Value Range	Default
P1376	Attended Transfer Mode	Value = 0; Static Value = 1; Dynamic	Static

SUPPORT BLF SERVER CONFIGURATION

- **Web Configuration**

  The "BLF Server" optioncan be found under device web UI→Accounts->Account X->General Settings.



- **Functionality**
  When “BLF Server” is configured, the SUBSCRIBE request will be sent to this address for BLF.# BLF Server

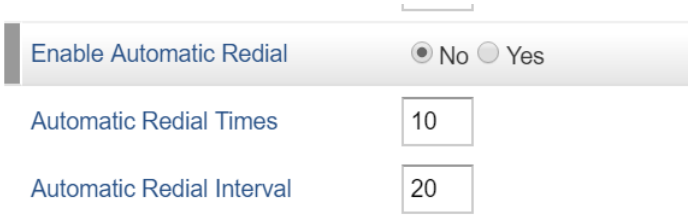
- **New Pvalue**

Pvalue	Description	Value Range	Default
P2375 (Account 1) P2475 (Account 2) P2575 (Account 3)	BLF Server	String	None

SUPPORT AUTOMATIC REDIAL

- **Web Configuration**
  Three options are added for this feature under web UI->Settings->Call Features.

  - “Enable Automatic Redial”: Enable/disable automatic redial.
  - “Automatic Redial Times”: This configures the number the times the phone will try to redial.
  - “Automatic Redial Interval”: This configures the interval between each automatic redial.



- **Functionality**
  When the phone dials a number and no answer, if automatic redial is enabled, the phone will prompt for redial. The redial attempt will be made at the “Automatic Redial Interval” for the number of times defined in “Automatic Redial Times”.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8353	Enable Automatic Redial	Value = 0; No Value = 1; Yes	No
P8354	Automatic Redial Times	Number 1 to 100	10
P8355	Automatic Redial Interval	Number 1 to 360	20

SUPPORT HTTP(S) USERNAME/PASSWORD CONFIGURATION ON LCD FOR UPGRADE/CONFIG

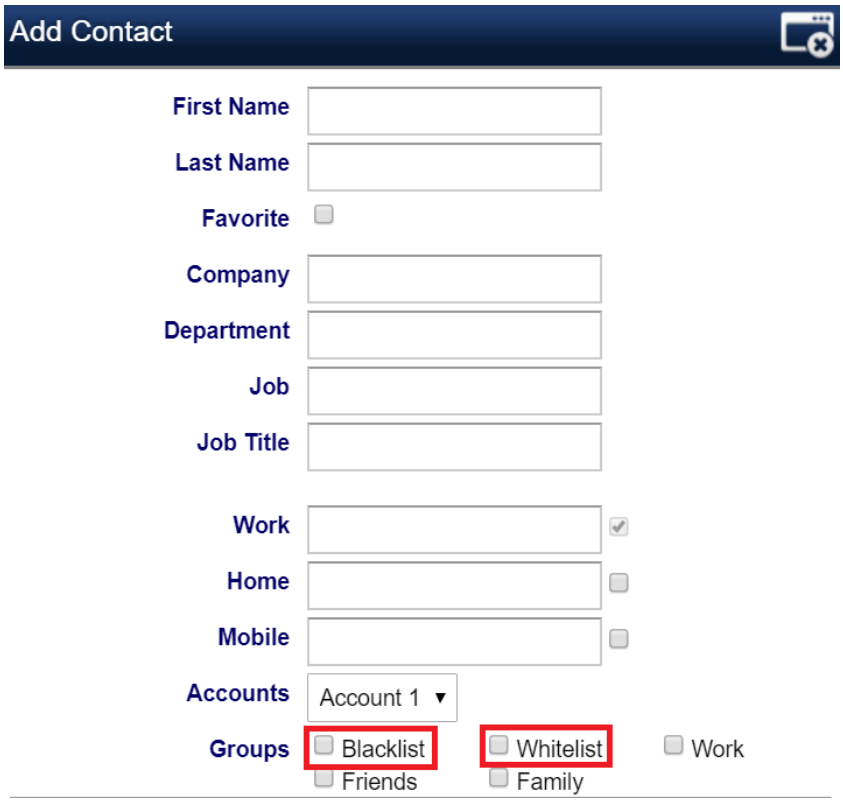
- **Functionality**

  Previously HTTP/HTTPS Username/Password configuration for firmware upgrading/provisioning is only available on phone's web UI. Now this configuration is also available on phone's LCD menu. This setting can be found in LCD menu->System->Upgrade/Config.

SUPPORT BLACKLIST/WHITELIST IN LOCAL PHONEBOOK

- **Web Configuration**

  Users can add a local phonebook contact to blacklist group or whitelist group.



- **Functionality**

  If the contact number belongs to Blacklist group, the call from this number will be blocked. If the contact number belongs to Whitelist group, when the phone is on DND mode, the call from whitelist number

will be allowed.

SUPPORT ENABLE/DISABLE HOOKSWITCH

- **Web Configuration**
  This option “Disable Hook Switch” can be found under web UI->Settings->Call Features.



- **Functionality**
  When the user disables hook switch, the hook switch will not work to trigger onhook/offhook. If option “Disable Hook Switch” is set to “For Answering Call”, the phone’s hook switch will not work to answer the call. The user will need to press softkey or speaker/headset/line hardkey to answer the call.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P6763	Disable Hook Switch	Value = 0; No Value = 1; Yes Value = 2; For Answering Call	No

SUPPORT NOTIFICATION TONE VOLUME

- **Web Configuration**
  Notification tone volume can be adjusted under web UI->Settings->Ring Tone.



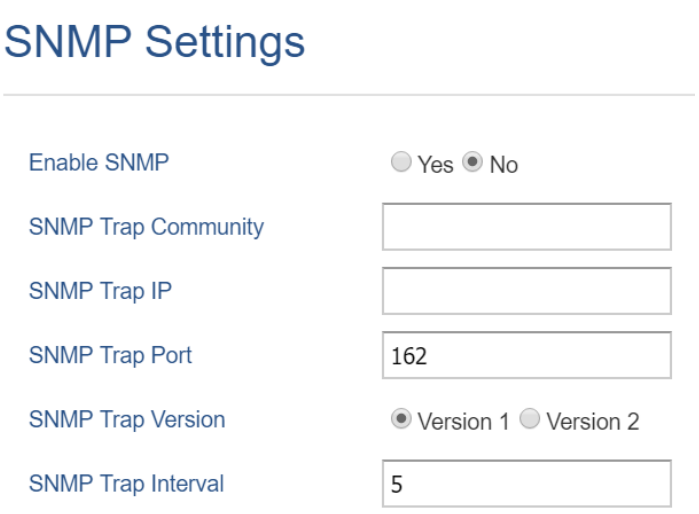
- **Functionality**
  The volume for paging, intercom, auto answer call and call hold reminder beep notification can be adjusted using this option.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P8399	Notification Tone Volume	Value = 0 to 7	4

SUPPORT SNMP

- **Web Configuration**
  SNMP configuration can be found under phone’s web UI->Network->SNMP Settings.



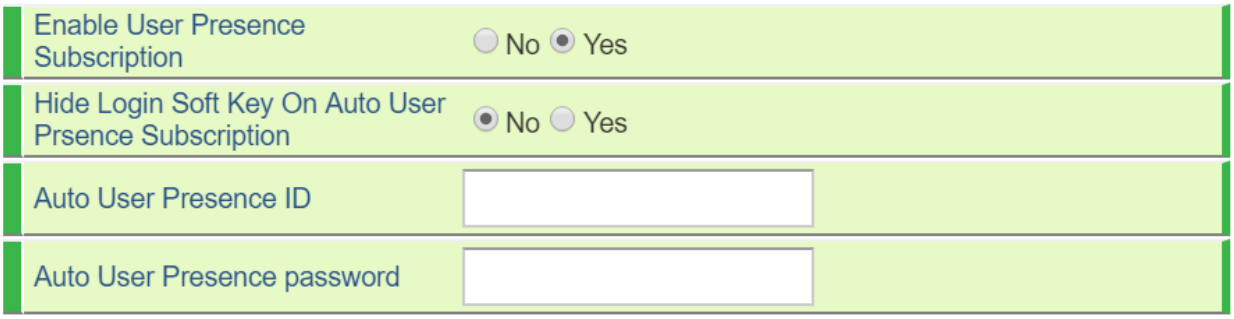
- **New Pvalue**

Pvalue	Description	Value Range	Default
P21896	Enable SNMP	Value = 0; No Value = 1; Yes	0
P21900	SNMP Trap Community	String	
P21897	SNMP Trap IP	String	
P21898	SNMP Trap Port	Number: 1025 to 65535	162
P21899	SNMP Trap Version	Value = 0; Version 1 Value = 1; Version 2	Version 1
P21901	SNMP Trap Interval	Number: 1 to 1440	5

SUPPORT GENESYS AGENT LOGIN/LOGOUT/STATUS UPDATE

- **Web Configuration**

  The Genesys agent login/logout/status feature can be enabled by below settings. Those options can be found under phone's web UI->Accounts->Account X->SIP Settings->Advanced Features. Notification tone volume can be adjusted under web UI->Settings->Ring Tone.



- **Functionality**

  To enable this feature, register Genesys account on GXP16xx's SIP account first. Then on the GXP16xx web UI->Accounts->Account X->SIP Settings->Advanced Features:

  - "Enable User Presence Subscription": Yes
  - "Hide Login Soft Key On Auto User Presence Subscription": No
  - "Auto User Presence ID": The phone will subscribe user presence automatically with this ID once the account is registered.
  - "Auto User Presence Password": The phone will subscribe user presence automatically with this password once the account is registered.

  A softkey "Genesys" will display on the idle screen. Press the softkey to view and update agent status.

- **New Pvalue**

Pvalue	Description	Value Range	Default
P2353 (Account 1) P2453 (Account 2) P2553 (Account 3)	Enable User Presence Subscription	Value = 0; No Value = 1; Yes	0
P2354 (Account 1) P2454 (Account 2) P2554 (Account 3)	Hide Login Soft Key On Auto User Presence Subscription	Value = 0; No Value = 1; Yes	1
P2351 (Account 1) P2451 (Account 2) P2551 (Account 3)	Auto User Presence ID	String	
P2352 (Account 1) P2452 (Account 2) P2552 (Account 3)	Auto User Presence Password	String	