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.**

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

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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

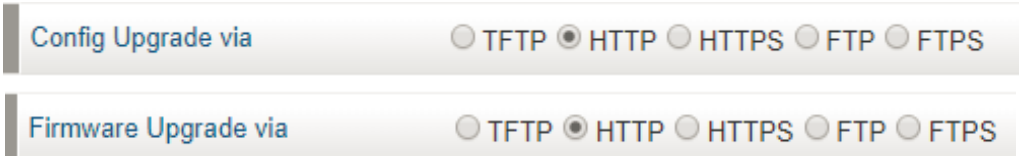
NEW FEATURES OVERVIEW

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	2

		Value = 2; HTTPS Value = 3; FTP Value = 4; FTPS	

CUSTOM CERTIFICATE

- **Web Configuration**

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



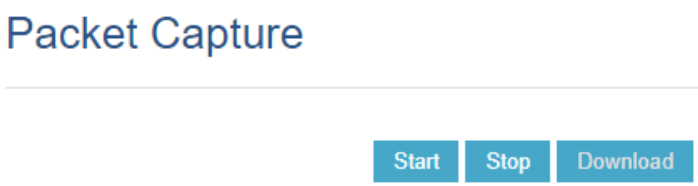
- **Functionality**

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

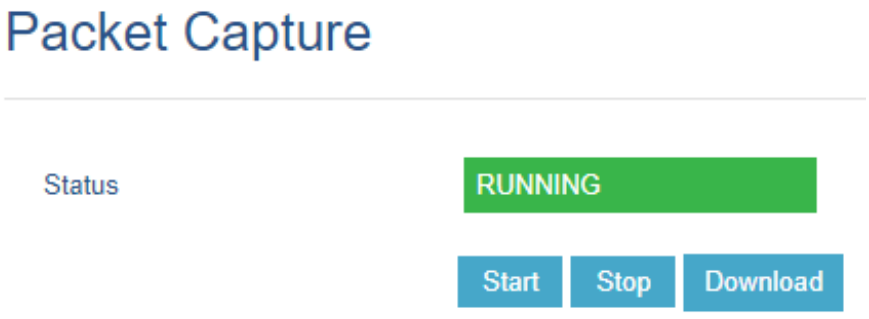
- **Web Configuration**

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.

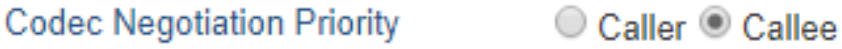
- **Pvalue**

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	<New Pvalue> Codec Negotiation Priority	Value = 0; Caller Value = 1; Callee	Callee

P29261			

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**

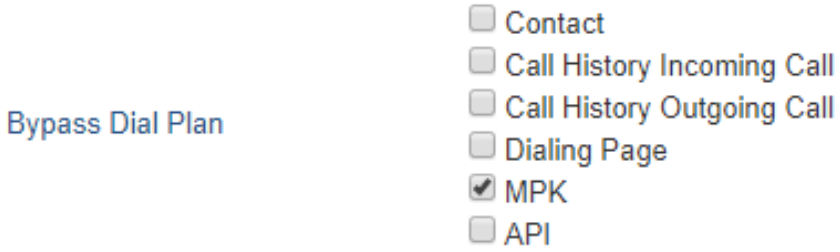
Pvalue	Description	Value Range	Default

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.

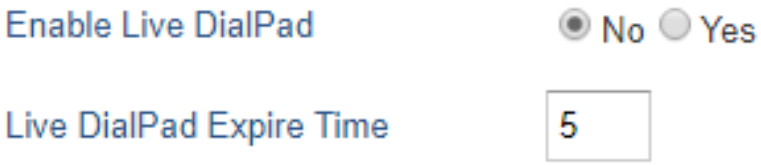
- **Pvalue**

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.

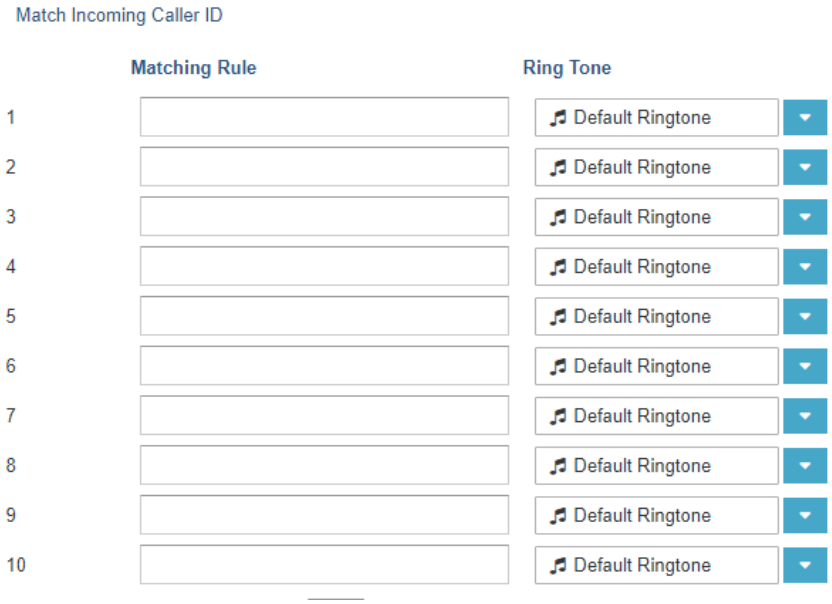
- **Pvalue**

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; Value= 5 Default Ringtone.	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.

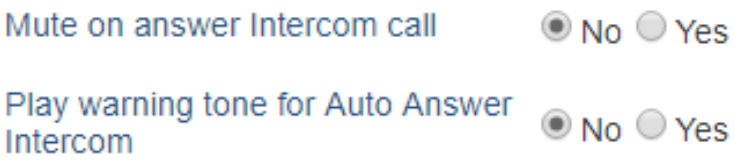
- **Pvalue**

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.

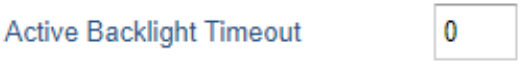
- **New Pvalue**

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.

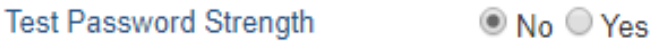
- **New Pvalue**

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

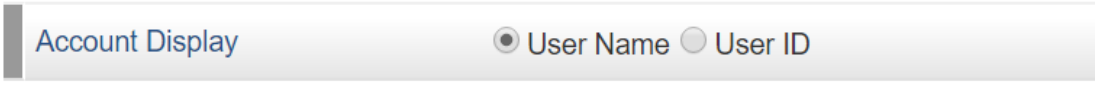
NEW FEATURES OVERVIEW

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.

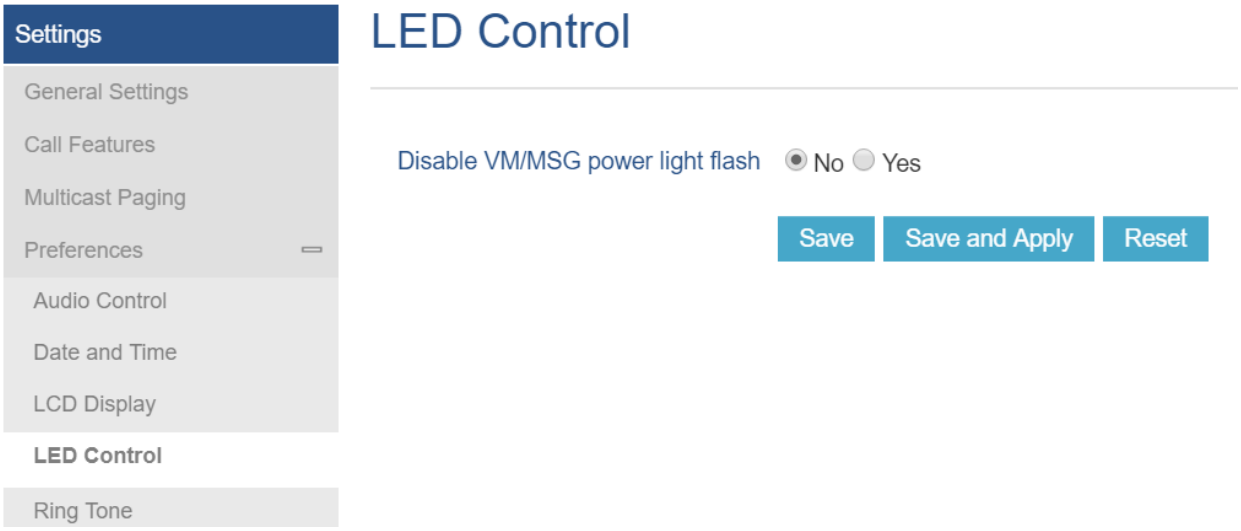
- **New Pvalue**

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

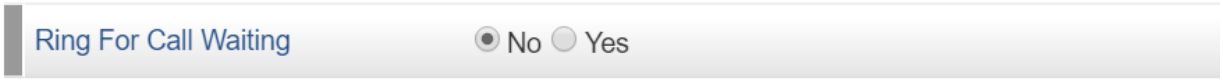
- **Web Configuration**
  The upload option for "SSH Public Key" can be found under device web UI→Maintenance->Security.



- **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.



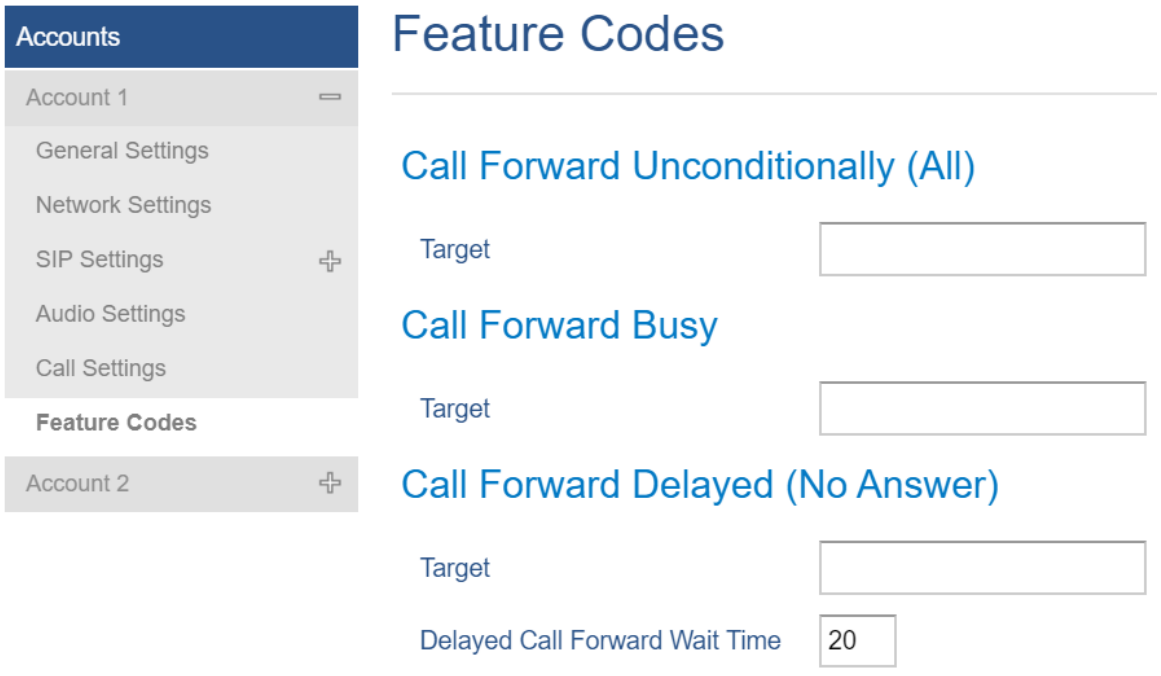
- **Functionality**
  This option allows user to configure whether the speaker phone will ring when there is new incoming call during an active call. If set to No, the user will hear call waiting tone. If set to Yes, the phone will ring using the speakerphone.

- **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.

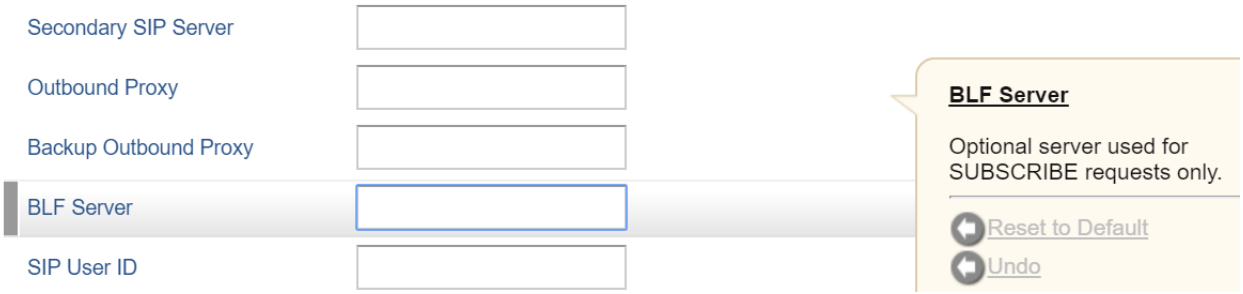
- **New Pvalue**

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

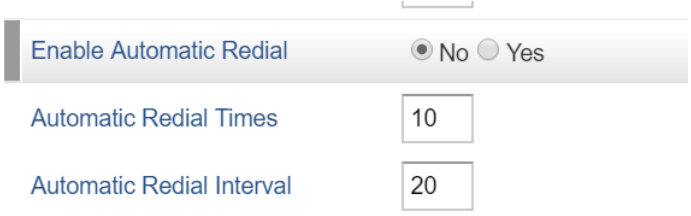
- **New Pvalue**

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

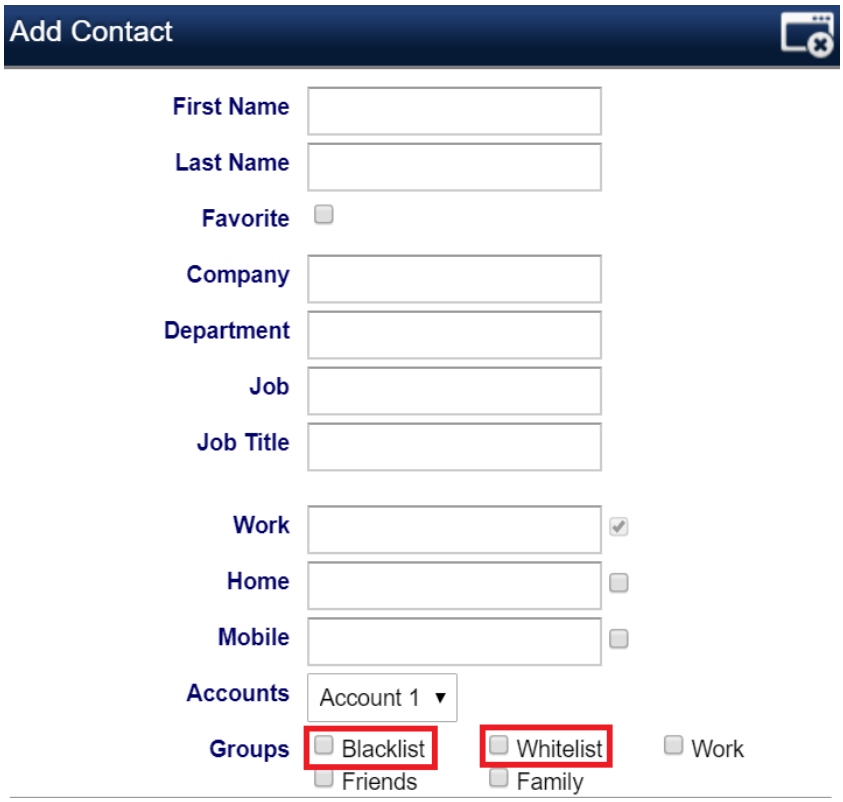
- **Functionality**

  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**

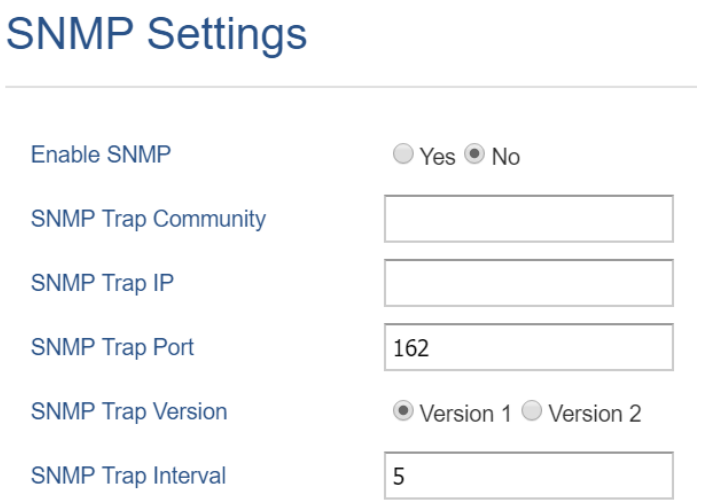
  The volume for paging, intercom, auto answer call and call hold reminder beep notification can be adjusted using this option.

- **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.

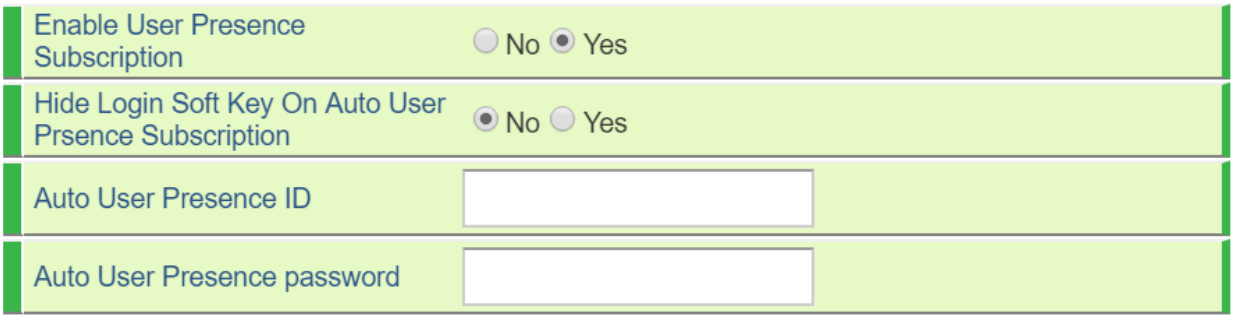


- **New Pvalue**

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	