

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

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”.

Table of Content

IMPORTANT UPGRADING NOTE	1
FIRMWARE VERSION 1.0.4.46	6
PRODUCT NAME.....	6
DATE	6
ENHANCEMENT	6
BUG FIX	6
NEW FEATURES OVERVIEW	6
<i>ENABLE/DISABLE WEBUI ACCESS.....</i>	<i>6</i>
<i>HIDE PASSWORD DISPLAY AFTER DIALING CERTAIN PREFIX</i>	<i>7</i>
<i>LDAPS SUPPORT.....</i>	<i>8</i>
<i>ABILITY TO REMOVE SIP ERROR ON LCD DISPLAY</i>	<i>9</i>
FIRMWARE VERSION 1.0.4.33	10
PRODUCT NAME.....	10
DATE	10
ENHANCEMENT	10
BUG FIX	10
NEW FEATURES OVERVIEW	10
<i>INTERCOM BUTTON.....</i>	<i>10</i>
<i>OPTION TO DISABLE CUSTOM SIP HEADER</i>	<i>11</i>
<i>SUPPORT TO SEND SIP LOG WITHOUT ENABLING DEBUG LEVEL.....</i>	<i>12</i>
<i>OPTION TO BYPASS FIRMWARE UPGRADE INFORMATION</i>	<i>12</i>
<i>CONFIRMATION MESSAGE TO REBOOT THE PHONE.....</i>	<i>13</i>
<i>SUPPORT TO REMEMBER THE HEADSET MODE AFTER BEING SET AND REBOOT</i>	<i>13</i>
FIRMWARE VERSION 1.0.4.22	14
PRODUCT NAME.....	14
DATE	14
ENHANCEMENT	14
BUG FIX	14
NEW FEATURES OVERVIEW	15
<i>QUICK SEARCH AND CREATE NEW CONTACT USING CZECH CHARACTERS.....</i>	<i>15</i>
<i>QUICK SEARCH AND CREATE NEW CONTACT USING RUSSIAN CHARACTERS</i>	<i>15</i>
<i>LOCK SETTINGS ON PHONE.....</i>	<i>15</i>
<i>ENABLE DHCP VLAN</i>	<i>16</i>
<i>ABILITY TO CONFIGURE RECORD BUTTON</i>	<i>17</i>

FIRMWARE VERSION 1.0.4.17 18

PRODUCT NAME.....	18
DATE	18
ENHANCEMENT	18
BUG FIX	18
NEW FEATURES OVERVIEW	19
<i>SET FORWARD ON BUSY AND ON NO ANSWER FROM LCD</i>	19
<i>DISPLAY MORE CHARACTERS FOR ACCOUNT NAME ON LCD DISPLAY</i>	20
<i>ENABLE PREDICTIVE DIAL FEATURE</i>	22
<i>ADJUST EXPIRATION TIME FOR SUBSCRIBE</i>	22
<i>LATVAIN LANGUAGE SUPPORT</i>	23
<i>HIDING “WEB ACCESS MODE” AND “DISABLE SSH” FROM LCD MENU UNDER CONSTRAINT MODE</i>	24

FIRMWARE VERSION 1.0.4.6 26

PRODUCT NAME.....	26
DATE	26
ENHANCEMENT	26
BUG FIX	26
NEW FEATURES OVERVIEW	26
<i>CUSTOMIZING SOFTKEY WITH MULTI-PURPOSE FUNCTION ON MAIN SCREEN</i>	26
<i>HIDE SYSTEM SOFTKEYS ON MAIN SCREEN</i>	28

FIRMWARE VERSION 1.0.3.28 31

PRODUCT NAME.....	31
DATE	31
<i>ENHANCEMENT</i>	31
<i>BUG FIX</i>	31
NEW FEATURES OVERVIEW	31
<i>BROADSOFT DIRECTORIES SEARCH FEATURE</i>	31
<i>SPECIFIC MODEL CONFIGURATION FILE</i>	32
<i>AUTHENTICATION OPTIONS FOR BROADSOFT XSI</i>	32
<i>CONFIGURE BROADSOFT XSI SIP AUTHENTICATION METHOD BY SELECTING THE ACCOUNT</i>	33

FIRMWARE VERSION 1.0.3.14 36

PRODUCT NAME.....	36
DATE	36
<i>ENHANCEMENT</i>	36
<i>BUG FIX</i>	36

NEW FEATURES OVERVIEW	40
<i>BLF CALL PICKUP BARGE-IN OPTION</i>	40
<i>UPLOAD CONFIGURATION FILE THROUGH WEB INTERFACE</i>	43
<i>PREDICTIVE DIALING FEATURE</i>	43
<i>EXPORT CONTACT XML</i>	43
<i>HIDE REMOTE USER ID VIA WEB PAGE</i>	44
<i>ACTION URL FEATURE SUPPORT ON GXP1610</i>	44
<i>ABILITY TO PREVENT THE PHONE FROM SENDING DNS THEN HTTPS REQUESTS TO</i> <i>IPVIDEOTALK MEDIA SERVICE</i>	46
<i>SUPPORT ILBC AND G723.1 VOCODER</i>	46
FIRMWARE VERSION 1.0.2.27	49
PRODUCT NAME.....	49
DATE	49
<i>BUG FIX</i>	49
FIRMWARE VERSION 1.0.2.26	50
PRODUCT NAME.....	50
DATE	50
<i>ENHANCEMENT</i>	50
<i>BUG FIX</i>	50
FIRMWARE VERSION 1.0.2.25	51
PRODUCT NAME.....	51
DATE	51
<i>ENHANCEMENT</i>	51
<i>BUG FIX</i>	51
FIRMWARE VERSION 1.0.2.22	52
PRODUCT NAME.....	52
DATE	52
<i>ENHANCEMENT</i>	52
<i>BUG FIX</i>	52
FIRMWARE VERSION 1.0.2.21	53
PRODUCT NAME.....	53
DATE	53
<i>ENHANCEMENT</i>	53
<i>BUG FIX</i>	53
FIRMWARE VERSION 1.0.2.4	54

PRODUCT NAME.....	54
DATE	54
<i>ENHANCEMENT</i>	54
<i>BUG FIX</i>	54
FIRMWARE VERSION 1.0.1.14	55
PRODUCT NAME.....	55
DATE	55
<i>ENHANCEMENT</i>	55
<i>BUG FIX</i>	55
FIRMWARE VERSION 1.0.1.12	56
PRODUCT NAME.....	56
DATE	56
<i>ENHANCEMENT</i>	56
<i>BUG FIX</i>	56

FIRMWARE VERSION 1.0.4.46

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

12/30/2016

ENHANCEMENT

- Added support for concurrent G.729 calls
- Added option to enable/disable webUI access [ENABLE/DISABLE WEBUI ACCESS]
- Added option to hide the password on the display after dialing a specific prefix [HIDE PASSWORD DISPLAY AFTER DIALING CERTAIN PREFIX]
- Added LDAPS support [LDAPS SUPPORT]
- Added support for certificate DN validation for LDAPS
- Added option to remove SIP error on LCD [ABILITY TO REMOVE SIP ERROR ON LCD DISPLAY]

BUG FIX

- Fixed Phone GUI crashed after checking Broadsoft directory
- Fixed Phone should wait to send REFER until the hold process is complete when doing call park
- Fixed Phone doesn't update the "To" header tag when sending PRACK message for provisional reliability
- Fixed Phone sends multiple DTMF tones when in-audio method
- Fixed Phone does not provide dial tone when doing a Conference
- Fixed Transfer hard-key should work even if auto-attended transfer isn't enabled
- Fixed Phone rejects call with 488 when there is incoming call from IVR using certain soft switch
- Fixed Phone ring timeout when transferring-no-answer is too short which is 30 seconds

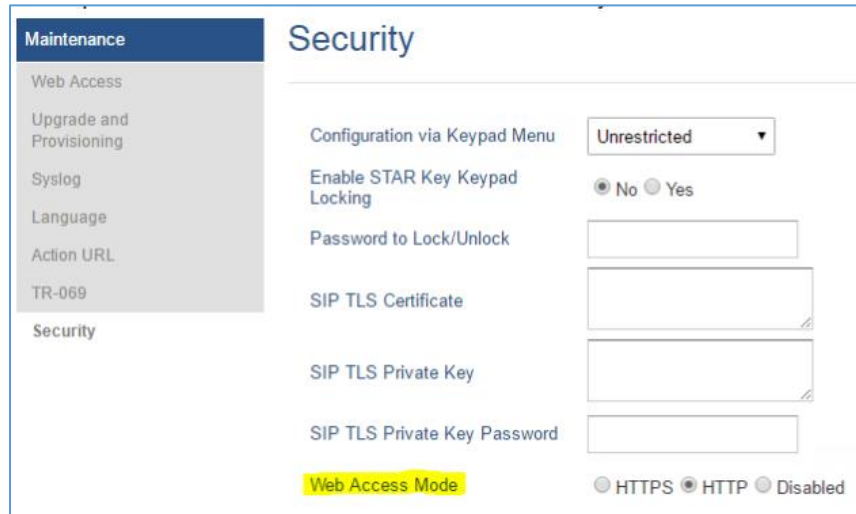
NEW FEATURES OVERVIEW

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

ENABLE/DISABLE WEBUI ACCESS

- **Web Configuration**

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



- **Functionality**

This option allows user to enable or disable web access for the phone.

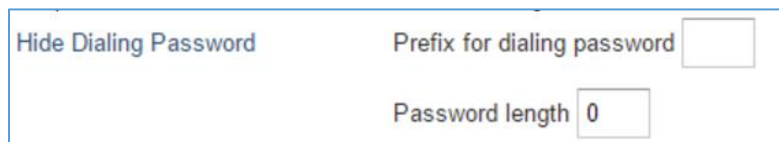
- **New P Value**

P value	Description	Value Range	Default
P1650	Web Access Mode	Value = 0; HTTPS Value = 1; HTTP Value = 2; Disabled	1

HIDE PASSWORD DISPLAY AFTER DIALING CERTAIN PREFIX

- **Web Configuration**

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



- **Functionality**

This option allows user to hide password from displayed on LCD after dialing certain prefix.

- **New P Value**

P value	Description	Value Range	Default
P26049	Account 1: Prefix for dialing password		

P26050	Account 1: Password length		0
P26149	Account 2: Prefix for dialing password		
P26150	Account 2: Password length		0
P26249	Account 3: Prefix for dialing password		
P26250	Account 3: Password length		0

LDAPS SUPPORT

- Web Configuration**

This option can be found under web UI → Phonebook → LDAP. Users can select “LDAP Protocol” as “LDAPS”.

LDAP

LDAP protocol	<input type="text" value="LDAPS"/>
Server Address	<input type="text"/>
Port	<input type="text" value="389"/>
Base	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="password"/>
LDAP Number Filter	<input type="text"/>
LDAP Name Filter	<input type="text"/>
LDAP Version	<input type="radio"/> Version 2 <input checked="" type="radio"/> Version 3
LDAP Name Attributes	<input type="text"/>
LDAP Number Attributes	<input type="text"/>
LDAP Display Name	<input type="text"/>

- Functionality**

This option allows user to select LDAPS as the LDAP protocol.

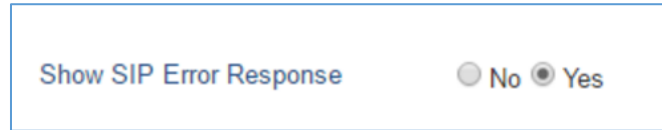
- New P Value**

P value	Description	Value Range	Default
P8370	LDAP Protocol	Value = 0; LDAP Value = 1; LDAPS	0

ABILITY TO REMOVE SIP ERROR ON LCD DISPLAY

- **Web Configuration**

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



- **Functionality**

This option allows user to enable or disable SIP error response to be displayed on LCD.

- **New P Value**

P value	Description	Value Range	Default
P8376	Show SIP error response	Value = 0; No Value = 1; Yes	1

FIRMWARE VERSION 1.0.4.33

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

11/21/2016

ENHANCEMENT

- Added support of Intercom Button to Send Multicast Paging [INTERCOM BUTTON]
- Added option to disable custom SIP Header [OPTION TO DISABLE CUSTOM SIP HEADER]
- Added support to send SIP log without enabling debug level [SUPPORT TO SEND SIP LOG WITHOUT ENABLING DEBUG LEVEL]
- Added option to bypass firmware upgrade confirmation [OPTION TO BYPASS FIRMWARE UPGRADE INFORMATION]
- Added support of confirmation message to reboot the phone [CONFIRMATION MESSAGE TO REBOOT THE PHONE]
- Added support to remember the headset mode after being set and reboot [SUPPORT TO REMEMBER THE HEADSET MODE AFTER BEING SET AND REBOOT]

BUG FIX

- Fixed the wrong default value of Predictive Dialing Feature issue
- Fixed device GUI crash after pressing Intercom Key with empty Intercom Multicast Paging Address
- Fixed the Chinese confirmation message of reboot is not friendly
- Fixed Use X-Grandstream-PBX Header is invalid on some models
- Fixed SIP Log sent through syslog are truncated
- Fixed web UI works abnormally after setting Maximum Transmission Unit

NEW FEATURES OVERVIEW

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

INTERCOM BUTTON

- **Web Configuration**

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

Intercom Key Mode	<input checked="" type="radio"/> Intercom <input type="radio"/> Multicast Paging
Intercom User ID	<input type="text"/>
Intercom Multicast Paging Address	<input type="text"/>
Intercom Multicast Paging Label	<input type="text"/>

- **Functionality**

Allow users to port over the Multicast Paging mode that exists under Programmable Keys to the Intercom hard button.

- **New P Value**

P value	Description	Value Range	Default
P22123	<New P value> Intercom Key Mode	Value = 0; Intercom Value = 1; Multicast Paging	Intercom

OPTION TO DISABLE CUSTOM SIP HEADER

- **Web Configuration**

This option can be found under web UI → Account X → SIP Settings → Customer SIP Headers.

Use Privacy Header	<input checked="" type="radio"/> Default <input type="radio"/> No <input type="radio"/> Yes
Use P-Preferred-Identity Header	<input checked="" type="radio"/> Default <input type="radio"/> No <input type="radio"/> Yes
Use P-Access-Network-Info Header	<input type="radio"/> No <input checked="" type="radio"/> Yes
Use P-Emergency-Info Header	<input type="radio"/> No <input checked="" type="radio"/> Yes

- **Functionality**

Allow users to manually enable/disable the SIP Header messages.

- **New P Value**

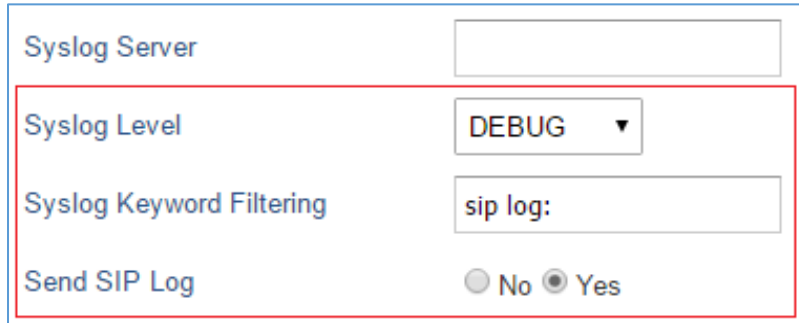
P value	Description	Value Range	Default
P26058	<New P value>	Value = 0; No	Yes

	Use P-Access-Network-Info Header	Value = 1; Yes	
P26059	<New P value> Use P-Emergency-Info Header	Value = 0; No Value = 1; Yes	Yes

SUPPORT TO SEND SIP LOG WITHOUT ENABLING DEBUG LEVEL

- Web Configuration**

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



Screenshot of the Syslog configuration web UI. The 'Syslog Level' dropdown is set to 'DEBUG', 'Syslog Keyword Filtering' is 'sip log:', and 'Send SIP Log' is set to 'Yes'.

- Functionality**

By setting Send SIP Log to Yes and the syslog to DEBUG then set the filter keywords to: “sip log:”, you will be able to receive only sip log and not all syslog messages.

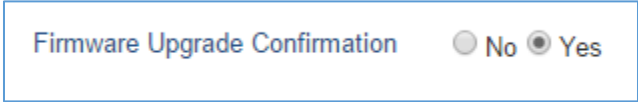
- New P Value**

P value	Description	Value Range	Default
P208	Syslog Level	Value = 0; NONE Value = 1; DEBUG Value = 2; INFO Value = 3; WARNING Value = 4; ERROR	NONE
P22129	Syslog Keyword Filtering	STRING	N/A
P1387	SIP Log	Value = 0; No Value = 1; Yes	No

OPTION TO BYPASS FIRMWARE UPGRADE INFORMATION

- Web Configuration**

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



- **Functionality**

Allow users to automatically upgrade to the version that the server has provided without needing to confirm the upgrade to avoid end users manually select no when doing mass upgrade.

- **New P Value**

P value	Description	Value Range	Default
P8375	Firmware Upgrade Confirmation	Value = 0; No Value = 1; Yes	Yes

CONFIRMATION MESSAGE TO REBOOT THE PHONE

- **Functionality**

Allow users to confirm reboot to prevent wrong clicking which might cause unnecessary.



SUPPORT TO REMEMBER THE HEADSET MODE AFTER BEING SET AND REBOOT

- **Functionality**

The phone now keeps the headset mode on regardless of power off or reboot.

FIRMWARE VERSION 1.0.4.22

PRODUCT NAME

GXP1610, GXP1615, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

10/03/2016

ENHANCEMENT

- Added ability to perform a quick search and create new contact using Czech characters
- Added ability to perform a quick search and create new contact using Russian characters
- Added ability to lock settings on phone
- Added support for DHCP option 132 and 133 tunneled through DHCP option 43
- Added DHCP option 132 for (802.1Q VLAN ID) and 133 (QoS priority level)
- Added ability to adjust ringtone level from web GUI
- Added support for separated QoS setting for SIP and RTP
- Added configurable web access port
- Added ability to configure record button
- Optimized Broadsoft N-Way Conference

BUG FIX

- Fixed blind transfer ignores the dial plan
- Fixed call forward using forward softkey ignores the dial plan.
- Fixed local phonebook starts duplicating contacts and sometimes not showing all contacts while Phonebook reaches 10 contacts
- Fixed DUT sends a BYE SIP message right after the INVITE when configured "DND Call Feature On"
- Fixed display of name override number on phonebook display
- Fixed phone does not send authorization header when receive 302 message
- Fixed phone cannot download provisioning file through 301 HTTP redirection
- Fixed phone is not reacting to Speed Dial SoftKey
- Fixed missing symbol slash "/" on phone keypad
- Fixed network connectivity lost when changing the Layer 2 QoS 802.1p Priority.
- Fixed GUI crashed after setting Dial Plan Prefix to a long Chinese string
- Fixed "Firmware Upgrade via" doesn't take effect after it is set via SSH2
- Fixed phone answer paging call even if custom call-info is configured

NEW FEATURES OVERVIEW

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

QUICK SEARCH AND CREATE NEW CONTACT USING CZECH CHARACTERS

- **Web Configuration**

This option can be found under device web UI → Maintenance → Language → Select Czech language.

- **Functionality**

Search contact names with Czech characters.

QUICK SEARCH AND CREATE NEW CONTACT USING RUSSIAN CHARACTERS

- **Web Configuration**

This option can be found under device web UI → Maintenance → Language → Select Russian language.

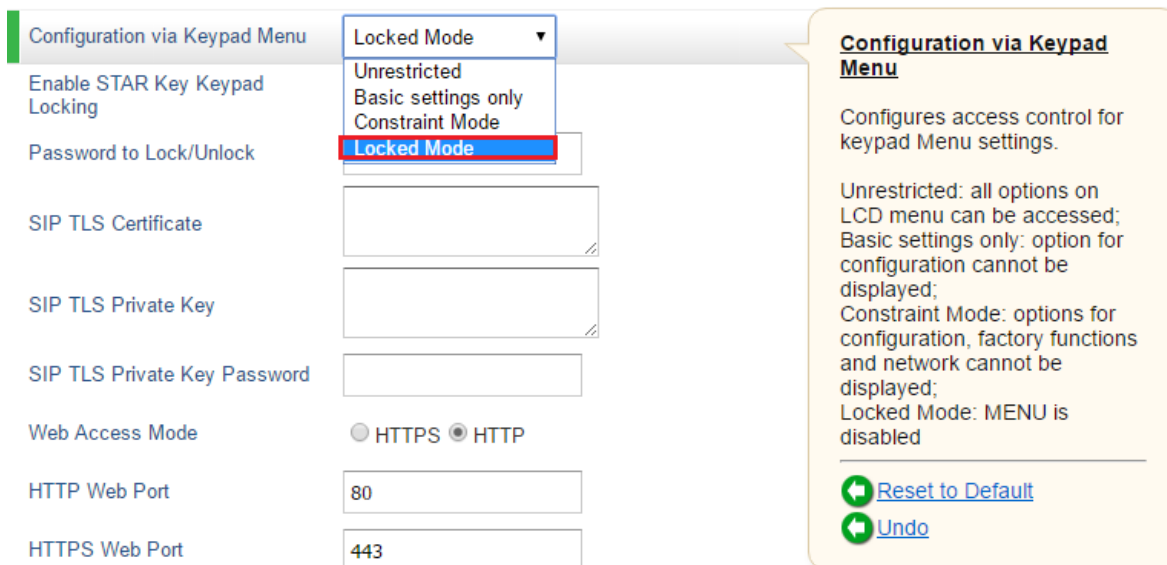
- **Functionality**

Search contact names with Russian characters.

LOCK SETTINGS ON PHONE

- **Web Configuration**

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



Configuration via Keypad Menu	Locked Mode ▾
Enable STAR Key Keypad Locking	Unrestricted
Password to Lock/Unlock	Basic settings only
	Constraint Mode
	Locked Mode
SIP TLS Certificate	<input type="text"/>
SIP TLS Private Key	<input type="text"/>
SIP TLS Private Key Password	<input type="password"/>
Web Access Mode	<input type="radio"/> HTTPS <input checked="" type="radio"/> HTTP
HTTP Web Port	<input type="text" value="80"/>
HTTPS Web Port	<input type="text" value="443"/>

Configuration via Keypad Menu

Configures access control for keypad Menu settings.

Unrestricted: all options on LCD menu can be accessed;
 Basic settings only: option for configuration cannot be displayed;
 Constraint Mode: options for configuration, factory functions and network cannot be displayed;
 Locked Mode: MENU is disabled

[Reset to Default](#)

[Undo](#)

- **Functionality**

Add another configuration via keypad menu mode called "Locked Mode". When this option is selected, it will restrict user access to any settings on the LCD: menu is disabled, only allow making and receiving phone calls and basic functionality provided by the feature keys (transfer/conference/hold/mute/volume/send/speaker).

ENABLE DHCP VLAN

- Web Configuration**

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

Enable DHCP VLAN

Enabled Disabled

- Functionality**

Added support DHCP Option 132 & 133 tunneled through DHCP Option 43 on the phone to deploy it on the network. By enabling the DHCP VLAN, the phone will try to read VLAN setting from DHCP option 132 and 133. If both of values in these two options are empty, phone will then read from option 43. The format of the data in Option 43 should be like as follows:

Code	Len	Data item	Code	Len	Data item	Code
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+						
T1	n	d1	d2	...	T2	n
		D1	D2	
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+						

Here is a valid example:

84:04:31:31:34:00:85:02:35:00

Which means tunnel option 132 value 114 and option 133 value 5 via option 43. Option 132 for VLAN ID and 133 for priority, or from Option 43 which encapsulates both two values.

After user enables this feature, phone will disable LLDP VLAN setting and try to read VLAN setting from DHCP to override manual setting.

Firstly, the phone will send discover package and receive offer package for option 132 (VLAN ID) and option 133 (VLAN priority) via DHCP server.

```

▼ Option: (55) Parameter Request List
  Length: 12
  Parameter Request List Item: (1) Subnet Mask
  Parameter Request List Item: (2) Time Offset
  Parameter Request List Item: (3) Router
  Parameter Request List Item: (6) Domain Name Server
  Parameter Request List Item: (12) Host Name
  Parameter Request List Item: (15) Domain Name
  Parameter Request List Item: (28) Broadcast Address
  Parameter Request List Item: (42) Network Time Protocol Servers
  Parameter Request List Item: (43) Vendor-Specific Information
  Parameter Request List Item: (125) V I Vendor specific Information
  Parameter Request List Item: (132) PXE - undefined (vendor specific)
  Parameter Request List Item: (133) PXE - undefined (vendor specific)
▼ Option: (60) Vendor class identifier
  Length: 32
  Vendor class identifier: Grandstream GXP2135 dslforum.org
  
```


If one of Option 132 and Option 133 is not empty, phone will read values in these two options.

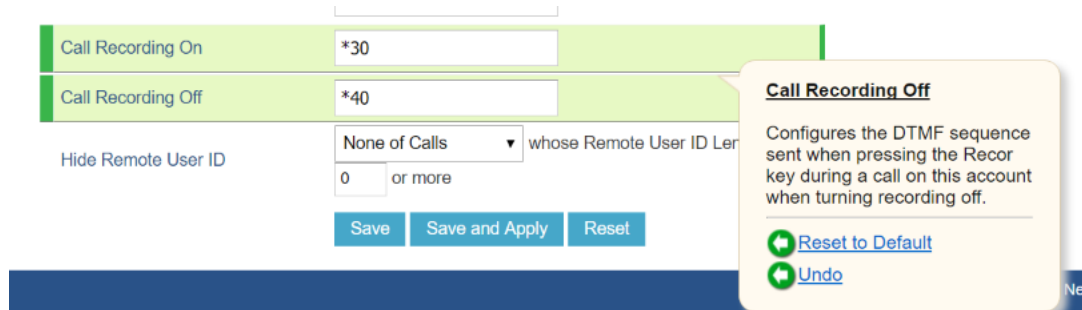
However, if Option 132 and Option 133 are both empty, the phone will retrieve the value of Option 43 for VLAN ID and priority.

If VLAN ID and priority are both valid, VLAN setting will take effect after phone rebooting; if one of the value is invalid, DHCP VLAN setting won't override manual setting.

ABILITY TO CONFIGURE RECORD BUTTON

- Web Configuration**

This option can be found under webUI → Account → Call Settings.



- Functionality**

Allow users to configure the DTMF that will be sent once record button is pressed during the call.

- New P Value**

P value	Description	Value Range	Default
P26028	<New P value> Call Recording On	String	None
P26029	<New P value> Call Recording Off	String	None

FIRMWARE VERSION 1.0.4.17

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

09/02/2016

ENHANCEMENT

- Added ability to set forward on busy and on no answer from the LCD
- Added dial soft key on LCD screen
- Added ability to displays more characters for account name on LCD display
- Added Option for Predictive Dial Feature
- Added Option to adjust the Maximum Transmission Unit (MTU) of IP Packets.
- Spited Register and Subscription expiration settings
- Added ability to hide web access mode and disable SSH from LCD menu under constraint mode
- Add support for Latvian Language
- Polish language update

BUG FIX

- Fixed speed dial via active account doesn't work on MPK
- Fixed MPK work abnormally after modifying MPK keys
- Fixed device work abnormally after setting the MPK1
- Fixed phone stops sending keep alive
- Phone Keeps Sending RTP after Call Disconnected
- Fixed cannot park the call with alphanumeric entry
- Fixed Speaker icon displayed when after enabled DND feature
- Fixed cannot get to the voice IP directly after the restart
- Fixed phone ignored assigned VLAN via LLDP
- Fixed device dsp crashed after hold and resume the call on SRTP
- Fixed notify from call group pickup not applied
- Fixed cannot get to the voice IP directly after the restart
- Fixed Contacts disappear after uploading the XML file in not phonebook
- Fixed Local phonebook contacts disappeared

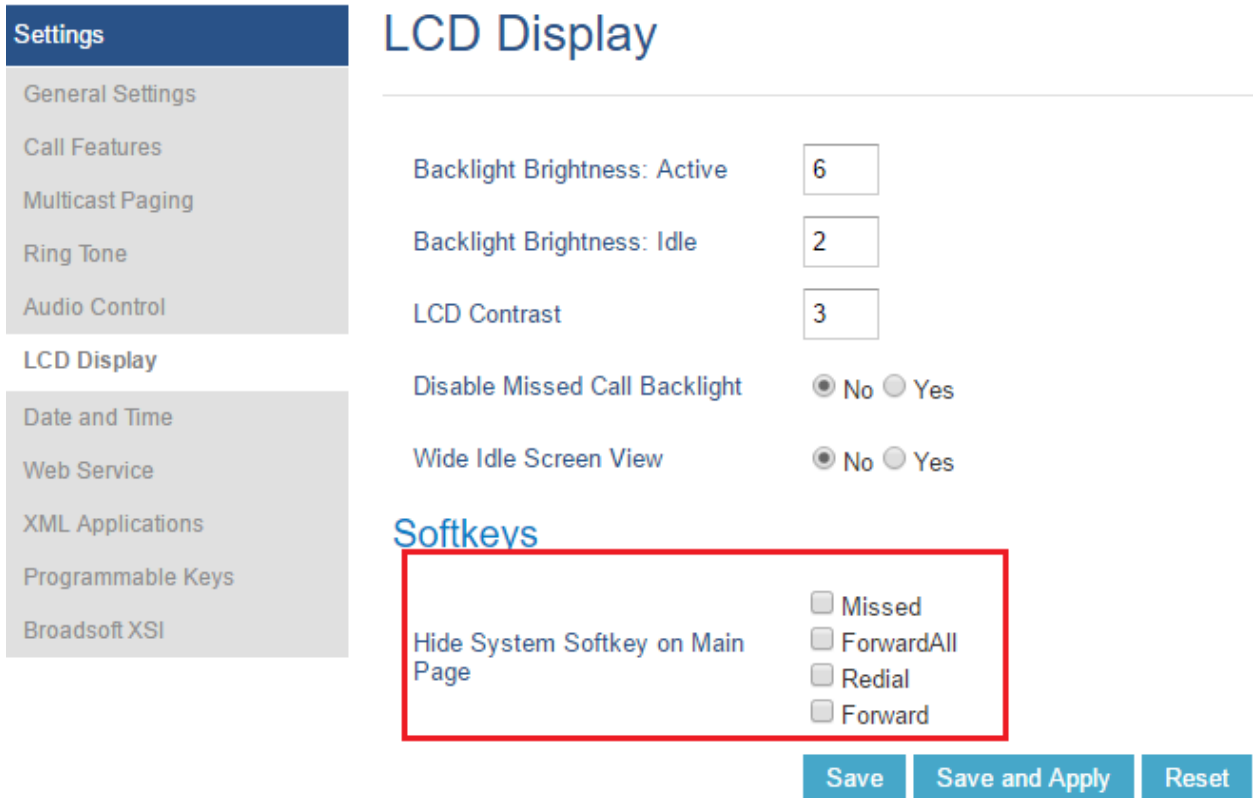
NEW FEATURES OVERVIEW

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

SET FORWARD ON BUSY AND ON NO ANSWER FROM LCD

- **Web Configuration**

This setting is under web UI->Settings->LCD Display.



Settings

- General Settings
- Call Features
- Multicast Paging
- Ring Tone
- Audio Control
- LCD Display**
- Date and Time
- Web Service
- XML Applications
- Programmable Keys
- Broadsoft XSI

LCD Display

Backlight Brightness: Active

Backlight Brightness: Idle

LCD Contrast

Disable Missed Call Backlight No Yes

Wide Idle Screen View No Yes

Softkeys

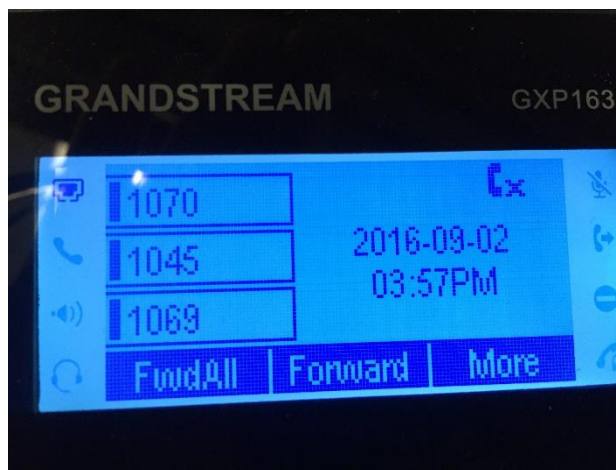
Hide System Softkey on Main Page

- Missed
- ForwardAll
- Redial
- Forward

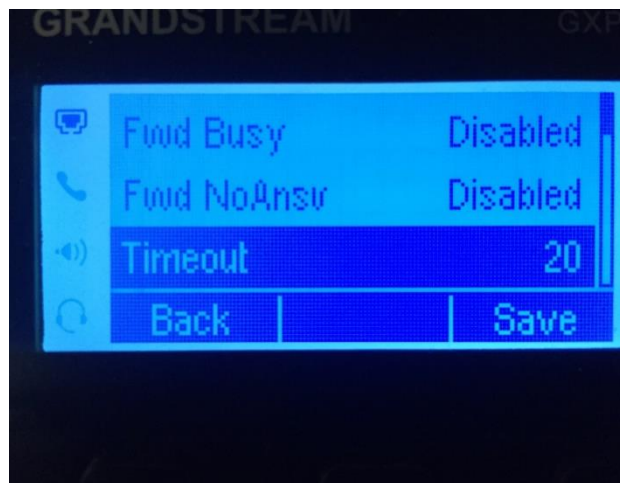
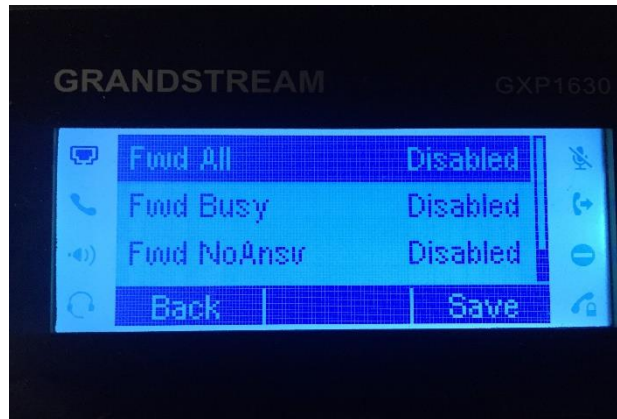
Save **Save and Apply** **Reset**

- **Functionality**

User can press Forward Softkey on LCD main screen and perform a setting on forward function.



User can select “Fwd All”, “Fwd Busy”, “Fwd NoAnswer” and “Timeout” for Forward for account 1.



- **New P Value**

P value	Description	Value range	Default
P8348	<New P value> P value to set whether to hide System Softkey on Main Page	Checkbox	

DISPLAY MORE CHARACTERS FOR ACCOUNT NAME ON LCD DISPLAY

- **Web Configuration**

The users could find this setting under web UI->Settings->LCD Display.

Settings

General Settings

Call Features

Multicast Paging

Ring Tone

Audio Control

LCD Display

Date and Time

Web Service

XML Applications

Programmable Keys

Broadsoft XSI

LCD Display

Backlight Brightness: Active

Backlight Brightness: Idle

LCD Contrast

Disable Missed Call Backlight No Yes

Wide Idle Screen View No Yes

Softkeys

Hide System Softkey on Main Page Missed

ForwardAll

Redial

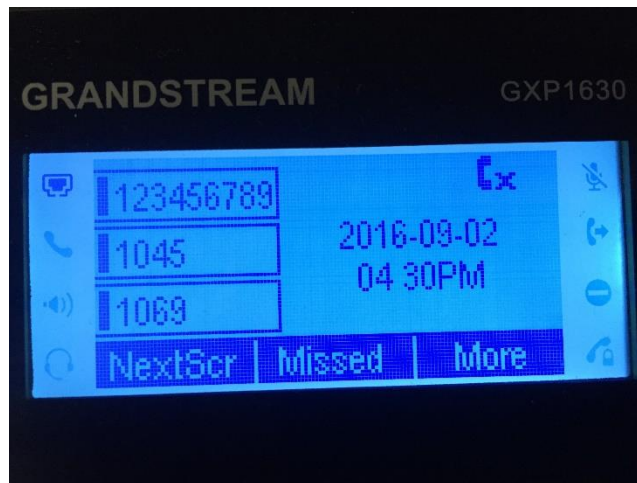
Forward

Save
Save and Apply
Reset

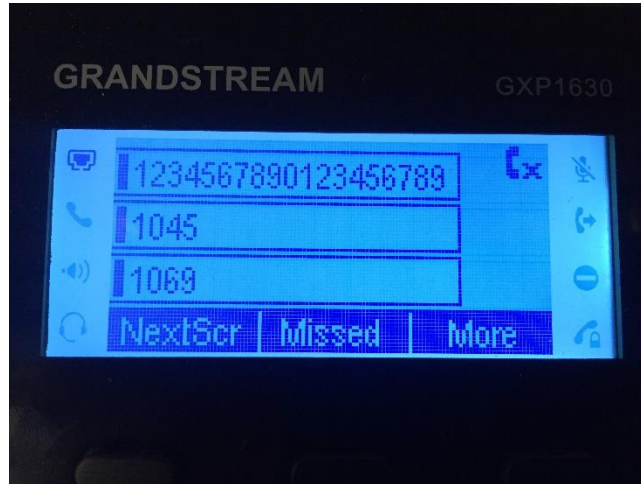
- **Functionality**

User can enable or disable the wide view for account in idle screen. Once this feature is enabled, the LCD could display more characters for account name display. This feature needs a reboot to take effect.

For example, if we set account name for account 1 as "1234567890123456789", before enabling this feature, the phone display looks like this:



After enabling this feature, the phone display looks like this:



- **New P Values**

Pvalue	Description	Value range	Default
P8346	<New Pvalue> Pvalue to set whether to use long label	0, No 1, Yes	0

ENABLE PREDICTIVE DIAL FEATURE

- **Web Configuration**

User can enable this feature from web UI->Settings->Call Features.

- **New P Values**

P value	Description	Value range	Default
P22126	<New P value> P value to set whether enable or disable predictive dialing feature	0, Disable 1, Enable	1

ADJUST EXPIRATION TIME FOR SUBSCRIBE

- **Web Configuration**

This option is under web UI->Account x->SIP Settings->Basic Setting.

Accounts

Account 1 -

General Settings

Network Settings

SIP Settings -

Basic Settings

Advanced Features

Session Timer

Security Settings

Audio Settings

Call Settings

Account 2 +

Account 3 +

Basic Settings

TEL URI Disabled User=phone Enabled

SIP Registration No Yes

Unregister on Reboot No All Instance

Register Expiration

Subscribe Expiration

Reregister before Expiration

Enable OPTIONS Keep Alive No Yes

OPTIONS Keep Alive Interval

OPTIONS Keep Alive Max Lost

Local SIP Port

Subscribe Expiration

Specifies the frequency (in minutes) in which the phone refreshes its subscription with the specified registrar. The maximum value is 64800 (about 45 days).

[Reset to Default](#)

[Undo](#)

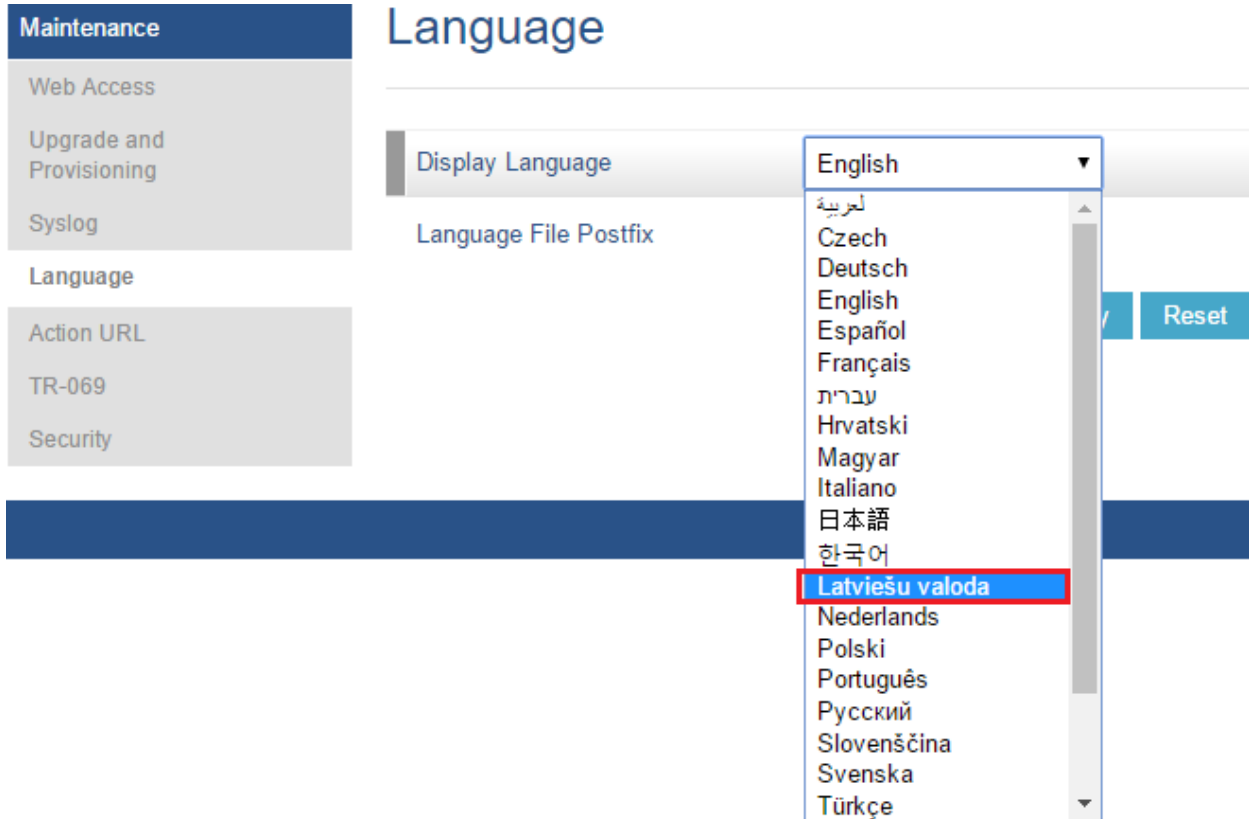
- **New P Value**

P value	Description	Value range	Default
P26051	<New P value> P value to set subscribe expiration time for account 1	1-64800	60
P26151	<New P value> P value to set subscribe expiration time for account 2	1-64800	60
P26251	<New P value> P value to set subscribe expiration time for account 3	1-64800	60

LATVAIN LANGUAGE SUPPORT

- **Web Configuration**

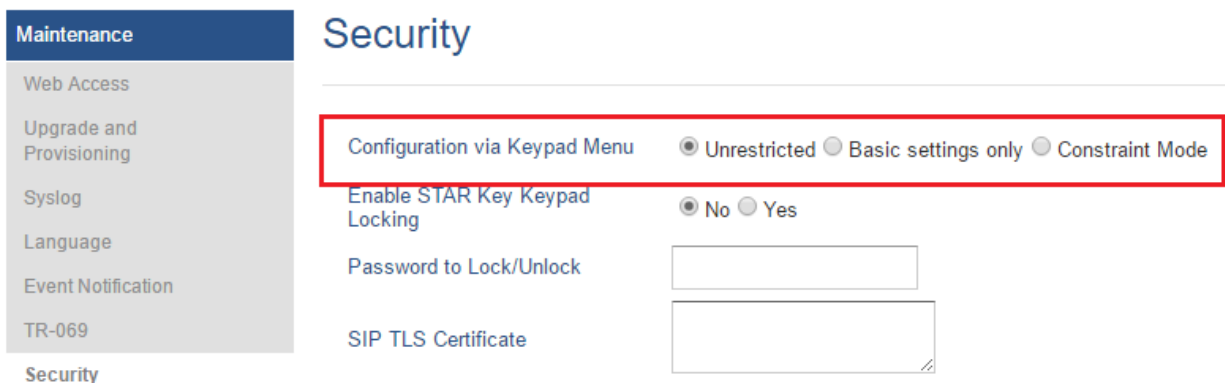
This option can be found under device web UI->Maintenance->Language.



HIDING “WEB ACCESS MODE” AND “DISABLE SSH” FROM LCD MENU UNDER CONSTRAINT MODE

- **Web Configuration**

This option can be found under web UI->Maintenance->Security.



In Constraint mode, options for configuration, factory functions and network cannot be display on LCD configuration through keypad.

- **Modified P Values**

P value	Description	Value range	Default
P1357	<New P value> P value to set which mode to be configured for Keypad Menu.	0, Unrestricted 1, Basic setting only 2, Consrtraint Mode	0

FIRMWARE VERSION 1.0.4.6

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628 and GXP1630

DATE

07/06/2016

ENHANCEMENT

- Added ability to customize the system softkey
- Added ability to hide system softkey on main screen
- Added supports of IEEE-48-addr and IEEE-EUI-64 in PEI header
- Added supports of WAN access node in SIP:PANI header
- Added supports of configurable User Agent field

BUG FIX

- Fixed Broadsoft directory could not display on LCD.
- Fixed GUI module crashed after downloading config file.
- Fixed Download local phonebook should not affect downloading Broadsoft phonebook.
- Fixed Local phonebook/call logs disappear.
- Fixed Mirrored PC port mode works abnormally
- Fixed DUT cannot establish a call after sent SUBSCRIBE REGISTER without response.
- Fixed cannot resume HOLD when pressing HOLD button

NEW FEATURES OVERVIEW

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

CUSTOMIZING SOFTKEY WITH MULTI-PURPOSE FUNCTION ON MAIN SCREEN

- **Web/LCD Configuration**

Users can configure softkeys from web UI->Settings->Programmable Keys.

Settings

General Settings

Call Features

Multicast Paging

Ring Tone

Audio Control

LCD Display

Date and Time

Web Service

XML Applications

Programmable Keys

Broadsoft XSI

Programmable Keys

Line Keys

	Mode	Account	Description	Value
LINE 1	LINE	Account 1	Description	Value
LINE 2	LINE	Account 1	Description	Value

Softkeys

	Mode	Account	Description	Value
SOFTKEY 1	<ul style="list-style-type: none"> Default Speed Dial Speed Dial via Active Account Voice Mail Call Return Intercom LDAP Search 	Account 1	Description	Value

Copyright © Grandstream Networks, Inc. 2016. All Rights Reserved.

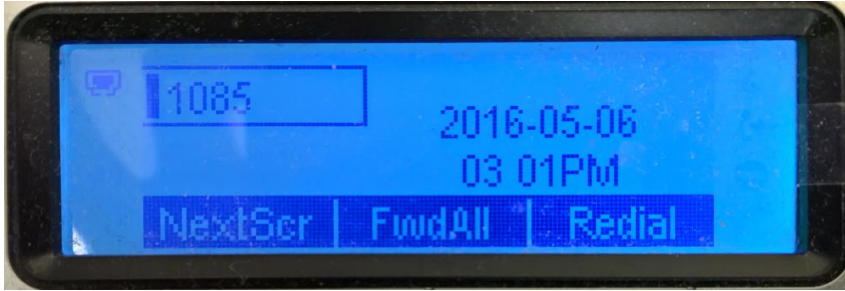
- **Functionality**

Added supports for customizing the main screen softkey by assigning a multi-purpose function.

All Grandstream IP Phone softkey design keep the **FIRST** and **LAST** softkeys for special usage. For the first softkey, it is mainly used for main pages switching on idle screen or switching between idle screen and call screen. For the last softkey, it could be used as softkey switching key if the phone couldn't show all available softkeys in one screen. Therefore, available softkey slots for users to customize should not include the first and last softkeys.

For example, the Phone model with 3 softkeys, ex. GXP1630, provide 1 programmable softkey.





New P Values

P value	Description	Value range	Default
P2987	Mode	0: Default 10: Speed Dial 14: Speed Dial with Active Account 16: Voice Mail 17: Call Return 20: Intercom 21: LDAP Search	0
P2988	Account	0: SIP account 1 1: SIP account 2 2: SIP account 3	0
P2989	Description	String	None
P2990	Value	String	None

HIDE SYSTEM SOFTKEYS ON MAIN SCREEN

- **Web UI/LCD Configuration**

Users can configure softkeys from web UI->Settings->LCD Display.

Settings

- General Settings
- Call Features
- Multicast Paging
- Ring Tone
- Audio Control
- LCD Display**
- Date and Time
- Web Service
- XML Applications
- Programmable Keys
- Broadsoft XSI

LCD Display

- Backlight Brightness: Active
- Backlight Brightness: Idle
- LCD Contrast
- Disable Missed Call Backlight No Yes

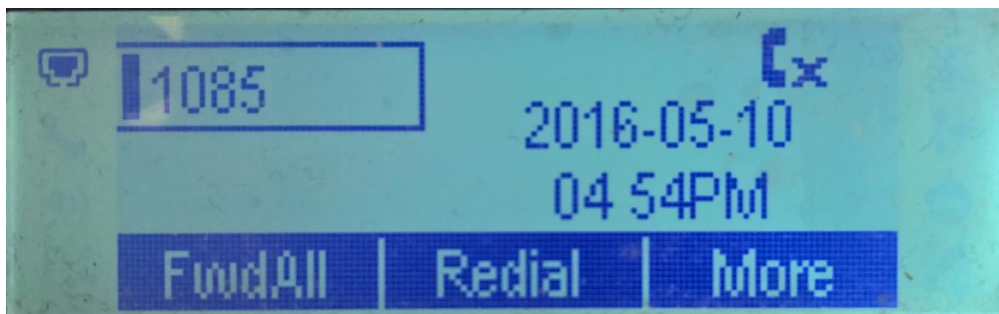
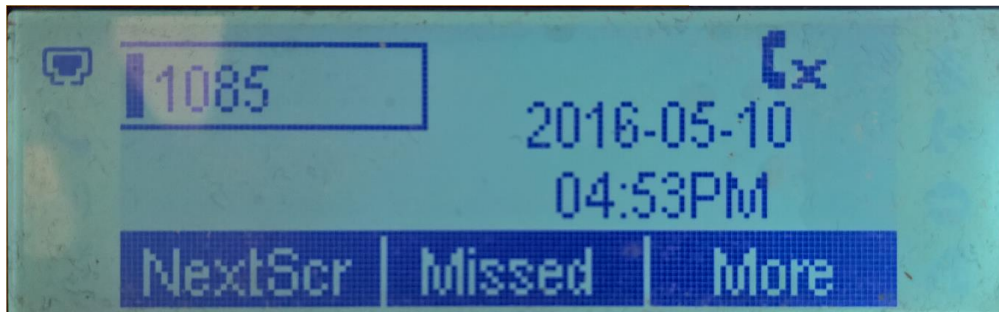
Softkeys

- Hide System Softkey on Main Page
 - Missed
 - ForwardAll
 - Redial

- Functionality**

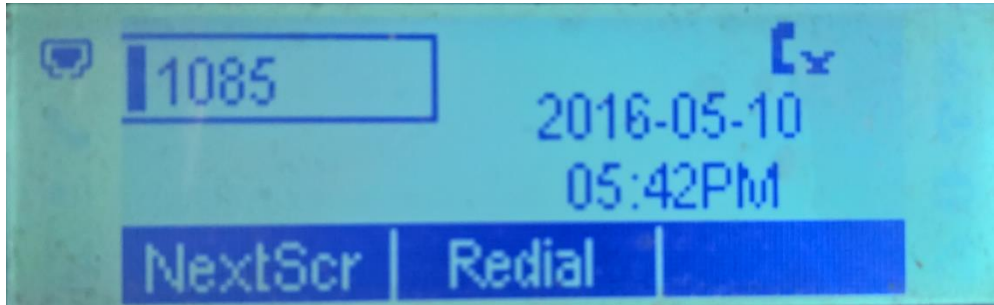
Added support function for user to hide an unnecessary softkeys to make softkey list on the phone less redundant.

Example:



After the configuring the phone to hide Missed and ForwardAll softkeys, phone will only show Redial softkey

on idle screen.



- **New P Values**

P value	Description	Value range		Default
		Option	String	
P8348	Hide System Softkey on Main Page	Missed	Missed	None
		ForwardAll	ForwardAll	
		Redial	Redial	

FIRMWARE VERSION 1.0.3.28

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628, GXP1630

DATE

05/20/2016

ENHANCEMENT

- Added search feature on Broadsoft directories
- Added specific model configuration file
- Added supports for Configure Broadsoft XSI SIP Authentication method by selecting the account

BUG FIX

- Fixed phone module crashed after registering account and monitoring BLF
- Fixed phone replies with 486 busy here to incoming INVITE during sending subscribe requests
- Fixed LCD screen displays abnormal when dialing an unmatched dialing rule numbers in idle screen
- Fixed the Event Duration in RFC2833 DTMF is unstable which leads failure to check voice mail
- Fixed phone stuck in transferring screen when the blind transfer fails
- Fixed no ring tone in headset when enabling toggle mode and “Always Ring Speaker” option
- Fixed phone cannot hang-up after performing blind transfer in speaker mode
- Fixed Broadsoft n-ways conference call not working
- Fixed “New” contact softkey for local phonebook appeared in Broadsoft phonebook
- Fixed AoC information keep blinking

NEW FEATURES OVERVIEW

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

BROADSOFT DIRECTORIES SEARCH FEATURE

- **Functionality**

Added supports for searching Broadsoft XSI directories through phone’s LCD. Users can search the name or number of the phonebook.



SPECIFIC MODEL CONFIGURATION FILE

- Functionality**

Add model specific configuration file to be requested during the provisioning process. For example: When GXP1625 request the provisioning files it need to also request the following file: cfggxp1625.xml.

```

+ Frame 7446: 213 bytes on wire (1704 bits), 213 bytes captured (1704 bits) on interface 0
+ Ethernet II, Src: Grandstr_8f:16:f8 (00:0b:82:8f:16:f8), Dst: All-HSRP-routers_01 (00:00:0c:07:ac:01)
+ Internet Protocol Version 4, Src: 192.168.40.149 (192.168.40.149), Dst: 54.169.67.73 (54.169.67.73)
+ Transmission Control Protocol, Src Port: 54270 (54270), Dst Port: 80 (80), Seq: 1, Ack: 1, Len: 147
+ Hypertext Transfer Protocol
  GET /gs/cfggxp1625.xml HTTP/1.1\r\n
  User-Agent: Grandstream Model HW GXP1625 SW 1.0.3.26 DevId 000b828f16f8\r\n
  Host: fm.grandstream.com\r\n
  Accept: */*\r\n
\r\n
[Full request URI: http://fm.grandstream.com/gs/cfggxp1625.xml]
[HTTP request 1/1]
[Response in frame: 7453]

```


0040	fc	73	47	45	54	20	2f	67	73	2f	63	66	67	67	78	70	.sGET /g	s/cfggxp
0050	31	36	32	35	2e	78	6d	6c	20	48	54	54	50	2f	31	2e	1625.xml	HTTP/1.
0060	31	0d	0a	55	73	65	72	2d	41	67	65	6e	74	3a	20	47	1..User-	Agent: G
0070	72	61	6e	64	73	74	72	65	61	6d	20	4d	6f	64	65	6c	randstre	am Model
0080	20	48	57	20	47	58	50	31	36	32	35	20	53	57	20	31	Hw GXP1	625 sw 1
0090	2e	30	2e	33	2e	32	36	20	44	65	76	49	64	20	30	30	.0.3.26	DevId 00
00a0	30	62	38	32	38	66	31	36	66	38	0d	0a	48	6f	73	74	0b828f16	f8..Host
00b0	3a	20	66	6d	2e	67	72	61	6e	64	73	74	72	65	61	6d	: fm.gra	ndstream
00c0	2e	63	6f	6d	0d	0a	41	63	63	65	70	74	3a	20	2a	2f	.com..Ac	cept: */
00d0	2a	0d	0a	0d	0a												*..	

AUTHENTICATION OPTIONS FOR BROADSOFT XSI

- Web/LCD Configuration**

This option is under web UI->Broadsoft->Broadsoft XSI.

Broadsoft XSI

XSI

Server	<input type="text" value="xsp1.iop1.broadworks.net"/>
Port	<input type="text" value="80"/>
XSI Authentication Type	<input type="text" value="SIP Credentials"/>
Login Credentials	
Login Username	<input type="text"/>
Login Password	<input type="password"/>
SIP Credentials	
SIP UserName	<input type="text" value="1354"/>
SIP User ID	<input type="text" value="1354@as.iop1.broadwor"/>
SIP Password	<input type="password" value="*****"/>

- Functionality**

Provide SIP Authentication option for Broadsoft XSI.

Configure the SIP Credentials and select SIP Credentials as XSI Authentication Type. Phone will offer SIP Credentials when connecting to Broadsoft XSI.

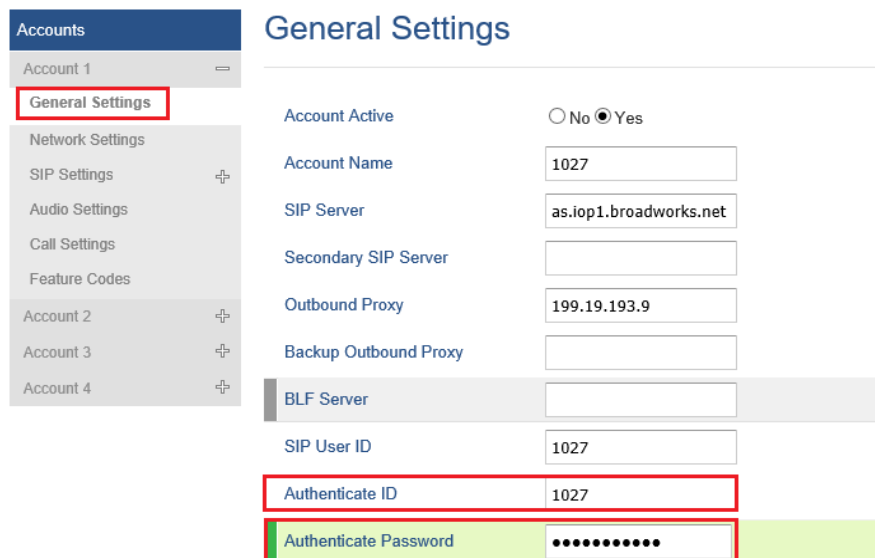
- **New P values**

Pvalue	Description	Value range	Default
P6772	<New Pvalue> Pvalue to set SIP UserName for Broadsoft XSI	String	None
P22034	<New Pvalue> Pvalue to set SIP User ID for Broadsoft XSI	String	None
P6773	<New Pvalue> Pvalue to set SIP Password for Broadsoft XSI	String	None
P22054	<New Pvalue> Pvalue to set XSI Authentication Type for Broadsoft XSI	0 for Login Credentials 1 for SIP Credentials 2 to 4 for SIP Credentials of account 1 to 3.	0

CONFIGURE BROADSOFT XSI SIP AUTHENTICATION METHOD BY SELECTING THE ACCOUNT

- **Web Configuration**

User can use Authenticate ID and Authenticate Password as SIP Username and SIP Password respectively for SIP account. This feature can be found in web UI->Accounts->Account #->General Settings.



The screenshot shows the 'General Settings' page for 'Account 1'. The left sidebar lists various settings categories, with 'General Settings' highlighted. The main content area includes the following fields:

- Account Active: No Yes
- Account Name: 1027
- SIP Server: as.iop1.broadworks.net
- Secondary SIP Server: (empty)
- Outbound Proxy: 199.19.193.9
- Backup Outbound Proxy: (empty)
- BLF Server: (disabled)
- SIP User ID: 1027
- Authenticate ID: 1027 (highlighted with a red box)
- Authenticate Password: (masked with dots) (highlighted with a red box)

Authenticate ID and Authenticate Password must be configured if a user selects that account for accessing Broadsoft XSI Directory and Call Log. In Settings Tab -> Broadsoft -> Broadsoft XSI Settings, users need to configure Server Path, Port, account number, SIP User ID and enable the XSI directories they would like to access.

Settings

- General Settings
- Call Features
- Multicast Paging
- Ring Tone
- Audio Control
- LCD Display
- LED Control
- Date and Time
- Web Service
- XML Applications
- Programmable Keys +
- Extension Boards +
- Broadsoft -
- Broadsoft XSI**
- Broadsoft IM&P
- Outbound Notification +

Broadsoft XSI

XSI

Server	xsp1.iop1.broadworks.net
Port	80
XSI Authentication Type	<div style="border: 1px solid #ccc; padding: 2px;"> v Account 1 </div> <div style="border: 1px solid red; padding: 2px; margin-top: 2px;"> Login Credentials SIP Credentials Account 1 Account 2 Account 3 Account 4 </div>
Login Credentials	
Login Username	<input type="text"/>
Login Password	<input type="password"/>
SIP Credentials	
SIP UserName	<input type="text"/>
SIP User ID	1027@as.iop1.broadwork:
SIP Password	<input type="password"/>

Network Directories

Type	Name
Group Directory	<div style="border: 1px solid #ccc; padding: 2px;"> Enabled v <input style="width: 80%;" type="text"/> </div>
Enterprise Directory	<div style="border: 1px solid #ccc; padding: 2px;"> Enabled v <input style="width: 80%;" type="text"/> </div>
Group Common	<div style="border: 1px solid #ccc; padding: 2px;"> Enabled v <input style="width: 80%;" type="text"/> </div>
Enterprise Common	<div style="border: 1px solid #ccc; padding: 2px;"> Enabled v <input style="width: 80%;" type="text"/> </div>
Personal Directory	<div style="border: 1px solid #ccc; padding: 2px;"> Enabled v <input style="width: 80%;" type="text"/> </div>

- **Functionality**

This new method for Broadsoft XSI authentication is selecting SIP account instead of manually input SIP Username and SIP Password. By this way, users can save time on configuration. Phone can retrieve Authenticate ID and Authenticate password information from the selected account and use them as SIP

credentials for accessing Broadsoft XSI Directory and Call Log information. Check functionality under Menu Screen: when all required information are set, Broadsoft Phonebook option will appear in Contacts menu, Broadsoft Call Log option will appear in Call History tab.

- **Changed P values**

P Value	Description	Value Range	Default
P22054	<Changed P value> P value to set XSI Authentication Type for Broadsoft XSI	2 to 4 for SIP Credentials of account 1 to 3.	0

FIRMWARE VERSION 1.0.3.14

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628, GXP1630

DATE

04/21/2016

ENHANCEMENT

- Added ability to configure the Broadsoft XSI SIP Authentication method by selecting the account
- Added BLF call pickup with Barge-In option
- Added ability to upload configuration file through web GUI
- Added predictive dialing feature
- Added contact XML exporter
- Added Spanish input and T9 conversion for Spanish and Russian
- Added ability to only hide the incoming User ID option in web page
- Added ActionURL feature support on GXP1610
- Added ability to prevent the phone from sending DNS then HTTPS requests to ipvideotalk media service
- Added support for iLBC and G723.1 vocoder
- Added ability for both headset and handset model can be heard voice in a calling
- Added callee user id hiding option in web page
- Added DHCP Option 125 for TR-111
- Added ability to show agent status of Broadsoft call center on idle screen
- Added support for Broadsoft XSI authentication type
- Updated new Grandstream web theme
- Added the Broadsoft AoC information can be displayed without blinking on the phone's LCD
- Added DHCP option 150 support

BUG FIX

- Fixed GXP16XX : BLF is not updated correctly
- Fixed Local group name displayed abnormally when contains special character @.
- Fixed [ITSP Voice2Net] NA-E: Phone Locks Up due to SUBSCRIBE sent to IP instead of domain
- Attempt Fixed Gui module crash in dialing page
- Fixed GUI crashed after uploading wrong phonebook file
- Fixed Device could hear loopback audio after far end holding talk
- Fixed Provision module crashed when Firmware Upgrade Path as UCM detect address
- Fixed Gui module crash in dialing page
- Fixed Open LLDP on version 0.12.4.46, Upgrade failed under PingAn's network

- Fixed Phone crash when configuring MUTE key in Broadsoft server
- Fixed BLF key press has no effect during active call
- Fixed Plantronics EHS compatibility issue with GXP1628
- Fixed DUT sends SIP instance ID when set to No, unless if DUT is rebooted
- Fixed GUI crashed after pressing softkey via HTTP API.
- Fixed Back softkey in local group is invalid.
- Fixed LCD should add iLBC and G723 codec
- Fixed Account bar display abnormally when configure line key as MPK.
- Fixed Redial/Call return worked abnormally.
- Fixed Call history out of range.
- Fixed Contacts disappear after hard rebooting
- Fixed device upgrade failed and stopped at "Recovery Incomplete" page.
- Fixed cannot use dial softkey to dial from Broadsoft phonebook
- Fixed Broadsoft XSI search only exact match
- Fixed GXP1630 LCD display abnormally after participant end call in conference.
- Fixed phone responds with SIP 180 when INVITE contains REPLACES header
- Fixed LCD display abnormally after receive 488 then having coming call
- Fixed 1600C_GUI crash when enter into phone option from LCD
- Fixed EHS Headset configuration was not used on the new menu
- Fixed Phone can't receive incoming calls
- Fixed GXP1600C GUI crash after on-hook
- Fixed phone module crash after standby 3 days with configuring 7 BLF MPKs.
- Fixed device display abnormal when press multicast paging MPK in the dial screen
- Fixed GXP1630 LCD display abnormally in phonebook
- Fixed LCD warning window display abnormally when establish 3WC with G729
- Fixed GXP1630 transfer on conference hang-up is valid in 4WC.
- Fixed GXP1630 device didn't clear previous digits when press line key back to conference
- Fixed LCD didn't popped up reboot window after modify network configuration
- Fixed Press EHS key can't send out when dialing in idle status.
- Fixed phone plays DTMF tone first then starts to record.
- Fixed LCD didn't display number in ringing page
- Fixed Back softkey in voice mail page worked abnormally
- Fixed the hidden remote user id appear after the remote hold the call
- Fixed device didn't exit conference after far end reject call
- Fixed speed dial from "Audio Loopback" page would result in sound lost
- Fixed LCD display abnormally after dial unmatched dial rule numbers
- Fixed LDAP search detail function works abnormal
- Fixed The "Edit and Dial" and "Save to Phonebook" function work abnormal
- Fixed Mute Feature work abnormally in dialing page
- Fixed LCD display null in Broadsoft phonebook
- Fixed LCD skipping issue after configure DHCP Option43/66 Override FW option

- Fixed GXP1625 when both accounts have a line assigned and a conference call is in progress if the user presses the Voice Message hard key then Soft Key back device will freeze.
- Fixed DUT crash when adjusting volume and brightness on LCD
- Fixed Back softkey and Clear All function in Messages don't work
- Fixed GXP1630 device dialing two calls at the same time in conference
- Fixed Call history display abnormally
- Fixed LCD jump error when press Back softkey on the UCM Detect page
- Fixed Gui go to the wrong page at the last element of LDAP search result
- Fixed Device crash when check LDAP return search result
- Fixed only encrypt signal but not RTP which under the CBCOM model.
- Fixed softkey is abnormal on LCD after pressing blank softkey when enabling Auto-Attended Transfer
- Fixed GXP1600C GUI crash when add new entry in phonebook.
- Fixed GXP1630 device work abnormally after far end on hook in conference page
- Fixed GXP1630 audio of Account 3 display abnormally on web page
- Fixed GXP1630 softkey display wrong in dialing page
- Fixed GXP16XX DTMF not recognized by Cisco Gateway.
- Fixed GXP1600C there is no Back softkey in LCD
- Fixed no account direct IP call display issue
- Fixed LCD contrast option is invalid in web page.
- Fixed device upgrade failed from build 0.9.21.45 to 1.0.0.34.
- Fixed LCD display unfriendly after disabling account1.
- Fixed DUT not provisioned using HTTPS server with gs-ca.crt
- Fixed LCD didn't display coming call number in talk.
- Fixed device played loopback audio on idle screen
- Fixed GUI crash after pressing arrow keys and phonebook key in talk.
- Fixed GUI crash after dial timeout
- Fixed GUI crash when check phonebook contact entry
- Fixed Dial softkey in phonebook is invalid.
- Fixed LCD didn't display Predictive Dialing number when dialing in idle status.
- Fixed MPK should be invalid when account didn't registered.
- Fixed DUT could not factory reset if do it as soon as it boot up
- Fixed "Enable OPTIONS Keep Alive" function is abnormal
- Fixed LCD didn't displayed instant message content
- Fixed Device should remove "EndCall" softkey in ringing page
- Fixed softkeys display abnormally after delete phonebook entry.
- Fixed softkeys in phonebook is invalid
- Fixed GXP1630 idle/call screen is different than other models
- Fixed LCD display abnormally after recovery conference.
- Fixed LCD should have text prompt when over voltage.
- Fixed device work abnormally when using wrong password to login web page.
- Fixed LCD display abnormally when phonebook contains Russian characters.

- Fixed Click-To-Dial icon display wrong in web page.
- Fixed uploading phonebook file from web page is invalid
- Fixed web page display abnormally when phonebook group contains special characters.
- Fixed LCD should giving a warning window in LDAP when searching null value.
- Fixed LCD didn't have EndCall softkey in talk.
- Fixed device download screen file failed when configure path with protocol head.
- Fixed device should limit the number of groups from web page.
- Fixed switch language is invalid.
- Fixed device can't add new group from LCD after deleting all groups.
- Fixed MPK should be invalid when account didn't registered.
- Fixed down arrow key doesn't work after pressing it in conference interface
- Fixed BLF keys not showing correct status for monitored extension with multiple registration
- Fixed LCD displays name wrong when phonebook number contains "(" and "-" character
- Fixed no account displays on LCD when it is dialing
- Fixed contact displays abnormally on LCD when number is too long
- Fixed Holdcall command is invalid via HTTP API.
- Fixed GUI crashed after pressing up arrow key in hold page.
- Fixed stutter tone didn't work
- Fixed BkSp key doesn't work when filling in one number in dialing interface
- Fixed some options don't display on Audio Settings web page of Account 3
- Fixed phone didn't display account status in web page.
- Fixed phone didn't have default value for core dump option.
- Fixed web page display abnormally when language with Russian.
- Fixed phonebook is abnormal on web page
- Fixed web display extra content in Programmable Keys page.
- Fixed gxp16xx - core download behavior is inconsistent
- Fixed LCD display abnormally in transfer page.
- Fixed GXP1600C_Web page displayed Preferred Vocoder - choice options wrong.
- Fixed there is no LDAP softkey in dialing page
- Fixed devices upgrade in cycle
- Fixed Device freeze when delete instant messages.
- Fixed GXP1630 line 3 key doesn't work
- Fixed MPK work abnormally when setting it as Busy Lamp Field
- Fixed LEDs didn't lights up in Diagnostic Mode.
- Fixed device failed to adjust the volume
- Fixed Upload phonebook file from web page is invalid. Add support for app side export
- Fixed LCD didn't display favorite contact after clearing digits in dial page
- Fixed Device could not dial favorite contact in page mode
- Fixed Setup completed option in Event Notification worked abnormally
- Fixed GXP1625 not honoring DHCP option 66

- Fixed DUT can't enter dialing interface after pressing EHS headset when headset type is "Plantronics EHS"
- Fixed device upgrade failed, stopped at "Recovery Incomplete" page
- Fixed programmable keys can't be set on web page

NEW FEATURES OVERVIEW

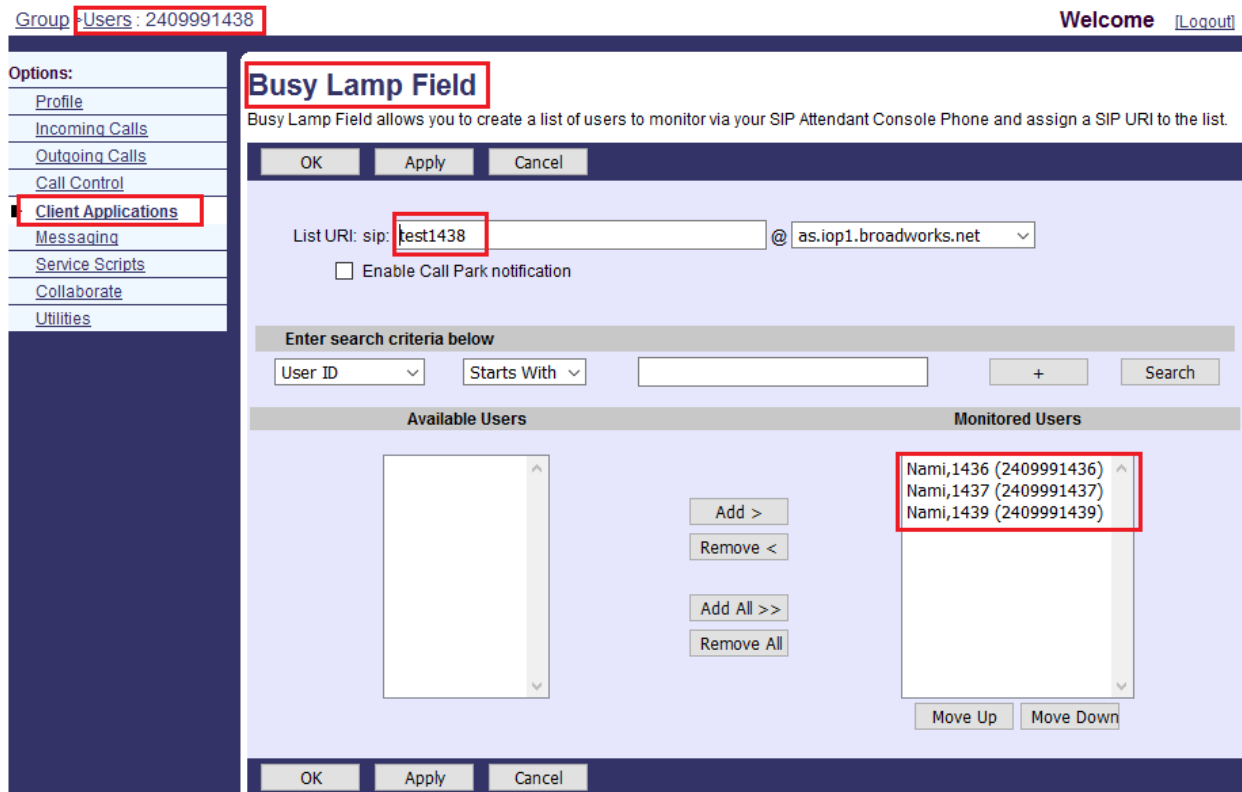
This section lists major new features and describes how to use it from the user's point of view.

BLF CALL PICKUP BARGE-IN OPTION

- **Web Configuration**

Take Broadsoft service server configuration for example:

Enable BLF Eventlist function from Broadsoft server web UI->Group->Users->Client Applications->Busy Lamp Field.



The screenshot shows the 'Busy Lamp Field' configuration page in a web browser. The breadcrumb navigation at the top reads 'Group Users: 2409991438'. The left sidebar menu has 'Client Applications' highlighted. The main content area is titled 'Busy Lamp Field' and includes a description: 'Busy Lamp Field allows you to create a list of users to monitor via your SIP Attendant Console Phone and assign a SIP URI to the list.' Below this are 'OK', 'Apply', and 'Cancel' buttons. The 'List URI' field is set to 'sip: test1438 @ as.iop1.broadworks.net'. There is an unchecked checkbox for 'Enable Call Park notification'. A search section titled 'Enter search criteria below' has dropdowns for 'User ID' and 'Starts With', followed by a search button. The interface is divided into two columns: 'Available Users' (empty) and 'Monitored Users' (containing 'Nami,1436 (2409991436)', 'Nami,1437 (2409991437)', and 'Nami,1439 (2409991439)'). Between the columns are buttons for 'Add >', 'Remove <', 'Add All >>', and 'Remove All'. Below the monitored users list are 'Move Up' and 'Move Down' buttons. At the bottom of the form are 'OK', 'Apply', and 'Cancel' buttons.

The information List URI sip and Monitored Users field will be configured in Grandstream phone. Check Call Pickup with Barge-in code from Broadsoft server->Group->User->Utilities->Feature Access Codes.

Group: Users : 2409991438 Welcome [Logout](#)

Options:

- [Profile](#)
- [Incoming Calls](#)
- [Outgoing Calls](#)
- [Call Control](#)
- [Client Applications](#)
- [Messaging](#)
- [Service Scripts](#)
- [Collaborate](#)
- [Utilities](#)

Feature Access Codes

Feature Access Codes list the star codes for services that you have. To activate a service, hit the * key and the number followed by the # key. Some require additional information such as a phone number, but you are prompted for that information. You cannot change your feature access codes.

OK Apply Cancel

Enable	Feature Access Code Name	Main (Required)	Alternate (Optional)
<input checked="" type="checkbox"/>	Advice Of Charge Activation	*34	*A*A*
<input checked="" type="checkbox"/>	Anonymous Call Rejection Activation	*77	
<input checked="" type="checkbox"/>	Anonymous Call Rejection Deactivation	*87	
<input checked="" type="checkbox"/>	Anonymous Call Rejection Interrogation	*52*	
<input checked="" type="checkbox"/>	BroadWorks Anywhere E.164 Dialing	*14	
<input checked="" type="checkbox"/>	Call Bridge	*15	
<input checked="" type="checkbox"/>	Cancel Call Waiting	*70	
<input checked="" type="checkbox"/>	Clear Voice Message Waiting Indicator	*99	
<input checked="" type="checkbox"/>	Connected Line Identification Restriction Interrogation	*56*	
<input checked="" type="checkbox"/>	Customer Originated Trace	*57	
<input checked="" type="checkbox"/>	Directed Call Pickup	*97	
<input checked="" type="checkbox"/>	Directed Call Pickup with Barge-in	*33	
<input checked="" type="checkbox"/>	Direct Voice Mail Transfer	*55	

Based on Broadsoft Service server, the default Feature Access Code for Directed Call Pickup With Barge-in is *33. This information will be configured in Web Setting-> Accounts -> Account # -> SIP Settings -> Advanced Features.

Accounts

- Account 1
- General Settings
- Network Settings
- SIP Settings
- Basic Settings
- Advanced Features
- Session Timer
- Security Settings
- Audio Settings
- Call Settings
- Feature Codes
- Account 2

Advanced Features

Line-seize Timeout

Eventlist BLF URI

Auto Provision Eventlist BLFs Disabled Enabled

Conference URI

Music On Hold URI

Force BLF Call-pickup by prefix Disabled Enabled

BLF Call-pickup Prefix

Call Pickup Barge-In Code

Configure Eventlist BLF for one of the monitored extension in Multi-Purpose Keys.

Programmable Keys

Line Keys

	Mode	Account	Description	Value
LINE 1	LINE ▼	Account 1 ▼	Description	Value
LINE 2	LINE ▼	Account 1 ▼	Description	Value

Multi-Purpose Keys

	Mode	Account	Description	Value
MPK 1	Eventlist BLF ▼	Account 1 ▼	Description	2409991439
MPK 2	Speed Dial ▼	Account 1 ▼	Description	Value
MPK 3	Speed Dial ▼	Account 1 ▼	Description	Value
MPK 4	Speed Dial ▼	Account 1 ▼	Description	Value
MPK 5	Speed Dial ▼	Account 1 ▼	Description	Value
MPK 6	Speed Dial ▼	Account 1 ▼	Description	Value
MPK 7	Speed Dial ▼	Account 1 ▼	Description	Value
MPK 8	Speed Dial ▼	Account 1 ▼	Description	Value

- **Functionality**

This new feature will provide the following functionality:

Allow users to dial a feature access code (FAC) followed by an extension number to pick up or barge-in a call to the monitored extension. If the monitored extension is ringing state (LED indicator is flashing red), a user can pick up that call before the call is answered by monitored side.

If the monitored extension is in talk (LED indicator is solid red), a user can barge-in that existing call. That is, monitored side will release the call, the barge-in user become the controller of this call. When a barge-in occurs and the user's warning tone is enabled on server side, a user would hear barge-in warning tone.

Monitored Extension 2409991429 is Call Ringing State, MPK's LED will be red blinking or monitored extension 2409991429 LED is solid red, which is on talk state. In the above two states, User can use Call Pickup with Barge-in by pressing the MPK, which is configured as Eventlist BLF function key.

When the phone performs Call Pickup with Barge-in, the called number be added *33 Call Pickup Barge-in code and the user might hear the warning tone if the function is enabled.

UPLOAD CONFIGURATION FILE THROUGH WEB INTERFACE

- **Web Configuration**

User can find this feature on web UI->Maintenance->Upgrade and Provisioning->Config.



- **Functionality**

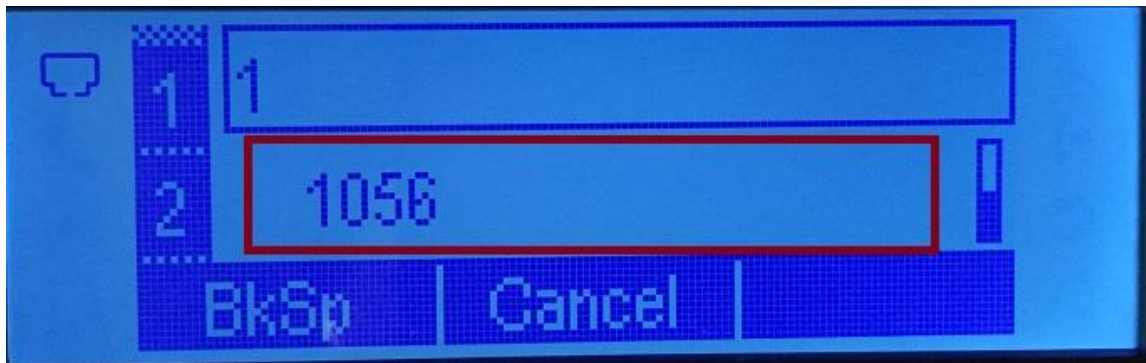
User can upload the config.txt file which can be downloaded from the “Download Device Configuration” link.

Note: the uploaded file must be a text format file.

PREDICTIVE DIALING FEATURE

- **Functionality**

User can will see the predictive number that might be matched with the number which has been pressed. The numbers in call history and phone book will be matched. User can press up and down Key to see all the matched list.



EXPORT CONTACT XML

- **Web Configuration**

User can find this feature on web UI->Phonebook->Phonebook->Management->Download XML Phonebook link.

Phonebook Management

Enable Phonebook XML Download

Phonebook XML Server Path

Phonebook Download Interval

Remove Manually-edited Entries on Download No Yes

Sort Phonebook by Last Name First Name

Download XML Phonebook [Download](#)

Upload XML Phonebook [Upload](#)

Phonebook Key Function

[Save](#) [Save and Apply](#) [Reset](#)

- Functionality**

User can use Download XML Phonebook link to download the current stored phonebook, a phonebook.xml file will be downloaded to local computer.

HIDE REMOTE USER ID VIA WEB PAGE

- Web Configuration**

User can find this feature on web UI->Accounts->Account #->Call Settings.



- Functionality**

Allows users to hide the number and display name of remote user ID more than the specific length in an incoming/outgoing call. LCD should display user id as **** when remote user id matched the condition.

ACTION URL FEATURE SUPPORT ON GXP1610

- Web Configuration**

User can find this new feature in web UI->Maintenance->Event Notification.

Event Notification

Setup Completed	<input type="text"/>
Registered	<input type="text"/>
Unregistered	<input type="text"/>
Off Hook	<input type="text"/>
On Hook	<input type="text"/>
Incoming Call	<input type="text"/>
Outgoing Call	<input type="text"/>
Missed Call	<input type="text"/>
Established Call	<input type="text"/>
Terminated Call	<input type="text"/>
Open DND	<input type="text"/>
Close DND	<input type="text"/>
Open Forward	<input type="text"/>
Close Forward	<input type="text"/>
Blind Transfer	<input type="text"/>
Attended Transfer	<input type="text"/>
Hold Call	<input type="text"/>
UnHold Call	<input type="text"/>
Open Syslog	<input type="text"/>
Close Syslog	<input type="text"/>

- **Functionality**

Send the Action URL when the IP phone finishes the assigned action.

ABILITY TO PREVENT THE PHONE FROM SENDING DNS THEN HTTPS REQUESTS TO IPVIDEOTALK MEDIA SERVICE

- **Web Configuration**

User can find this new feature in Settings->Web service->Enable IPVideoTalk.

- **Functionality**

User can enable or disable Grandstream IPVideoTalk services on the phone. Reboot is required. After disabling this feature, the phone doesn't send DNS queries to IPVideoTalk media service.

- **New P values**

P value	Description	Value range	Default
P8338	<New P-value> P-value to enable or disable Grandstream IPVdeioTalk services on the phone.	0, No 1, Yes	1

SUPPORT ILBC AND G723.1 VOCODER

- **Web Configuration**

User can find this new feature in web UI->Accounts->Account Number->Audio Settings.

Audio Settings

Send DTMF in-audio via RTP (RFC2833) via SIP INFO

DTMF Payload Type

Preferred Vocoder - choice 1

Preferred Vocoder - choice 2

Preferred Vocoder - choice 3

Preferred Vocoder - choice 4

Preferred Vocoder - choice 5

Preferred Vocoder - choice 6

Preferred Vocoder - choice 7

- **Functionality**

Configure vocoders iLBC and G723 in a preference list that is included with the same preference order in SDP message.

- **New/Changed P values**

P value	Description	Value range	Default
P57 P451 P551	<New P value range > P value to set Preferred Vocoder – choice 1	4: G.723.1 <New added> 18: G.729A/B 0: PCMU 8: PCMA 2: G.726-32 9: G.722(wide band) 98: iLBC <New added>	0
P58 P452 P552	<New P value range > P value to set Preferred Vocoder – choice 2	4: G.723.1 <New added> 18: G.729A/B 0: PCMU 8: PCMA 2: G.726-32 9: G.722(wide band) 98: iLBC <New added>	8
P59 P453 P553	<New P value range /Default P value changed> P value to set Preferred Vocoder – choice 3	4: G.723.1 <New added> 18: G.729A/B 0: PCMU 8: PCMA 2: G.726-32 9: G.722(wide band) 98: iLBC <New added>	Changed to 4
P60 P454 P554	<New P value range> P value to set Preferred Vocoder – choice 4	4: G.723.1 <New added> 18: G.729A/B 0: PCMU 8: PCMA 2: G.726-32 9: G.722(wide band) 98: iLBC <New added>	18

P61 P455 P555	<New P value range> P value to set Preferred Vocoder – choice 5	4: G.723.1 <New added> 18: G.729A/B 0: PCMU 8: PCMA 2: G.726-32 9: G.722(wide band) 98: iLBC <New added>	9
P62 P456 P556	<New P value added> P value to set Preferred Vocoder – choice 6	4: G.723.1 18: G.729A/B 0: PCMU 8: PCMA 2: G.726-32 9: G.722(wide band) 98: iLBC	98
P63 P457 P557	<New P value added> P value to set Preferred Vocoder – choice 7	4: G.723.1 18: G.729A/B 0: PCMU 8: PCMA 2: G.726-32 9: G.722(wide band) 98: iLBC	2

FIRMWARE VERSION 1.0.2.27

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628, GXP1630

DATE

11/19/2015

BUG FIX

- Fixed Adjusted Hebrew Font to a smaller size
- Fixed Hebrew strings update

FIRMWARE VERSION 1.0.2.26

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628, GXP1630

DATE

10/28/2015

ENHANCEMENT

- Added ability to filter characters from dialed numbers

BUG FIX

- Fixed LCD doesn't have reconf softkey after answer incoming call in conference in certain scenario
- Fixed LCD display abnormal after receiving 488 then having incoming call
- Fixed EndCall softkey is invalid when establishing conference using soft pause on MPK speed dial number
- Fixed There is no ring tone in incoming call when adjusting volume
- Fixed Click-To-Dial first available account feature works abnormally
- Fixed BLF keys not showing correct status for monitored extension with multiple registrations

FIRMWARE VERSION 1.0.2.25

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628, GXP1630

DATE

10/14/2015

ENHANCEMENT

- Updated logo for web UI

BUG FIX

- Fixed DUT not provisioned using HTTPS server with gs-ca.crt

FIRMWARE VERSION 1.0.2.22

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628

DATE

09/03/2015

ENHANCEMENT

- Added DHCP Option 125 support

BUG FIX

- Fixed DTMF not recognized by Cisco Gateway
- Fixed Inverted LCD Hebrew Strings in Account Name and Incoming Calls
- Fixed Phone plays DTMF tone first then starts to record
- Fixed LCD warning "File Exists" when no 802.1x CA Certificate file uploaded
- Fixed Pressing EHS key can't send out when dialing in idle status
- Fixed LCD doesn't prompt reboot window after modifying network configuration
- Fixed Device displays abnormal when pressing multicast paging MPK in the dial screen

FIRMWARE VERSION 1.0.2.21

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628

DATE

08/21/2015

ENHANCEMENT

- Split upgrading method, username and password settings for firmware upgrading and Provisioning
- Improved security by hiding password from command line
- Added option to disable SUBSCRIBE message for x-broadworks-callpark event when it's not supported or enabled for the Broadsoft server

BUG FIX

- Fixed "Back" softkey doesn't work
- Fixed Downloading idle screen file abnormally
- Fixed LCD language should be Chinese after factory reset if device obtains IP address from China location
- Fixed Phone could not hear multicast paging sender if the multicast paging call is answered on audio loopback interface
- Fixed Audio channel is incorrect if switching audio channel on conference number input interface
- Fixed Audio channel is incorrect after answering incoming call
- Fixed Audio channel is incorrect if pressing MUTE key in transfer number input interface
- Fixed Audio channel is incorrect after pressing ReConf key to recover conference
- Fixed Multicast paging call will be saved into call history if making the call in ForwardAll interface
- Fixed Language display abnormal on LCD when using Czech
- Fixed Phone cannot send HTTP request to download idle screen file when it receives NOTIFY

FIRMWARE VERSION 1.0.2.4

PRODUCT NAME

GXP1610, GXP1620, GXP1625, GXP1628

DATE

05/19/2015

ENHANCEMENT

- Added option to bypass dial plan
- Added configuration option to ignore Alert-Info header when used for distinctive ringtone
- Updated French, Spanish and Hebrew language strings

BUG FIX

- Fixed The Event Duration in RFC2833 DTMF is unstable which leads failure to check voice mail
- Fixed Device crashes after enabling SIP OPTIONS and staying in idle for a long time
- Fixed IP display error when phone is plugged into LLDP environment that has VLAN configured
- Fixed New Zealand time zone needs update
- Fixed LCD displays network and icon in upgrading
- Fixed Missed calls display abnormally
- Fixed Phone behaves abnormally if entering audio loopback when enable HEADSET Key Mode
- Fixed Rejecting a call in "Audio Loopback" interface would result in audio lost
- Fixed The volume is wrong if adjusting it under headset mode
- Fixed Wrong display when trying to get and set static IP, netmask, gateway in SSH access.
- Fixed Handset may play ring back tone when off-hook during volume adjustment
- Fixed LCD freezes on "Downloading firmware file" page in upgrade via TFTP
- Fixed LED on EHS headset won't turn off automatically
- Fixed Provider_lock doesn't apply to protected P values of account 4 – account 6

FIRMWARE VERSION 1.0.1.14

PRODUCT NAME

GXP1610, GXP1620, GXP1625

DATE

05/06/2015

ENHANCEMENT

- Added LCD prompt support for HTTP digest challenge for provisioning request
- Added support of sending SIP options messages to verify connectivity to the SIP server
- Added dual outbound SIP proxy support
- Added Broadsoft support: outbound proxy failover and failback feature

BUG FIX

- Fixed Phone freezes on conference interface after long time PCMU conference
- Fixed Phone couldn't hear each other talking when the SSRC is 0

FIRMWARE VERSION 1.0.1.12

PRODUCT NAME

GXP1610, GXP1620, GXP1625

DATE

04/14/2015

ENHANCEMENT

- Added support of DHCP OPTION 160 on Metaswitch FW

BUG FIX

- Fixed handset may play ring back tone when off-hook during adjusting volume
- Fixed LCD freezes on "Downloading firmware file" page in upgrade via TFTP
- Fixed New Zealand time zone need update
- Fixed DNS-SRV connection failed if first option is unavailable using TCP
- Fixed phone could not end call after holding a conference