

# Grandstream Networks, Inc.

GRP2612/GRP2612P/GRP2612W | GRP2613

GRP2614 | GRP2615 | GRP2616

Carrier-Grade IP Phones

## **User Guide**















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http://www.grandstream.com/support

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#### **CAUTION**

Changes or modifications to this product not expressly approved by Grandstream, or operation of this product in any way other than as detailed by this guide, could void your manufacturer warranty.

#### **WARNING**

Please do not use a different power adaptor with devices as it may cause damage to the products and void the manufacturer warranty.





U.S. FCC Part 68 Regulatory Information

This equipment complies with Part 68 of the FCC rules. Located on the equipment is a label that contains,

among other information, the ACTA registration number and ringer equivalence number (REN). If requested,

this information must be provided to the telephone company.

The REN is used to determine the quantity of devices which may be connected to the telephone line.

Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming

call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the

number of devices that may be connected to the line, as determined by the total REN's contact the

telephone company to determine the maximum REN for the calling area.

This equipment cannot be used on the telephone company-provided coin service. Connection to Party Line

Service is subject to State Tariffs.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance

that temporary discontinuance of service may be required. If advance notice isn't practical, the telephone

company will notify the customer as soon as possible. Also, you will be advised of your right the file a

complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could

affect the operation of the equipment. If this happens, the telephone company will provide advance notice

in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact (Agent in the US):

Company Name: Grandstream Networks, Inc.

Address: 126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

**Tel:** 1-617-5669300

Fax: 1-617-2491987

If the trouble is causing harm to the telephone network, the telephone company may request you to remove the

equipment from the network until the problem is resolved.

This equipment uses the following USOC jacks: RJ45C.

It is recommended that the customer install an AC surge arrester in the AC outlet to which this device is

connected. This is to avoid damaging the equipment caused by local lightning strikes and other electrical

surges.

Since this device has the HAC function, the earpiece is easy to absorb small, please take care to avoid

scratching.



Page | 2



### **U.S. FCC Part 15 Regulatory Information**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference

received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.





## **Directive 2014/53/EU Regulatory Information**

### This applies to GRP2612W/GRP2614/GRP2615/GRP2616 only

Operating Frequency Band (RF)	Max Power		
2402-2480MHz (TX&RX)	BT-EDR 8.15dBm		
2402-2480MHz (TX&RX)	BT-BLE	7.21dBm	
	802.11b	18.15dBm	
2412-2472MHz (TX&RX)	802.11g	18.42dBm	
	802.11n-20	19.06dBm	
	802.11a	19.28dBm	
	802.11n-20	18.78dBm	
5450 5050MU- (TV0 DV)	802.11n-40	19.10dBm	
5150-5250MHz (TX&RX)	802.11ac20	18.89dBm	
	802.11ac40	18.66dBm	
	802.11ac80	15.80dBm	
	802.11a	18.63dBm	
	802.11n-20	18.60dBm	
ESEN ESENMU- (TVODV)	802.11n-40	18.93dBm	
5250-5350MHz (TX&RX)	802.11ac20	18.59dBm	
	802.11ac40	18.38dBm	
	802.11ac80	15.85dBm	
	802.11a	18.19dBm	
	802.11n-20	18.32dBm	
5470-5725MHz (TX&RX)	802.11n-40	18.34dBm	
341 0-31 23IVIΠ2 ( Ι ΛαΓΛ)	802.11ac20	18.44dBm	
	802.11ac40	17.72dBm	
	802.11ac80	15.45dBm	





## **Caution: Exposure to Radio Frequency Radiation**

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

#### **CE Authentication**



BE	BG	CZ	DK	DE	EE	IE	EL
ES	FR	HR	ΙT	CY	LV	LT	LU
HU	МТ	ΝL	AT	PL	PT	RO	SI
SK	FI	SE	NO	IS	LI	СН	TR

In all EU member states, operation of 5150-5350 MHz is restricted to indoor use only.

Hereby, Grandstream Networks, Inc. declares that the radio equipment GRP2612W, GRP2614, GRP2615 and GRP2616 are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <a href="http://www.grandstream.com/support/resources/">http://www.grandstream.com/support/resources/</a>





## **GNU GPL INFORMATION**

GRP261X firmware contains third-party software licensed under the GNU General Public License (GPL). Grandstream uses software under the specific terms of the GPL. Please see the GNU General Public License (GPL) for the exact terms and conditions of the license.

Grandstream GNU GPL related source code can be downloaded from Grandstream web site from: <a href="http://www.grandstream.com/sites/default/files/Resources/grp261x\_gnu\_gpl.zip">http://www.grandstream.com/sites/default/files/Resources/grp261x\_gnu\_gpl.zip</a>





## **Table of Content**

D	OCUMENT PURPOSE	13
С	HANGE LOG	14
	Firmware Version 1.0.5.45	14
	Firmware Version 1.0.5.44	14
	Firmware Version 1.0.5.36	14
	Firmware Version 1.0.5.33	14
	Firmware Version 1.0.5.15	14
	Firmware Version 1.0.3.6	14
	Firmware Version 1.0.1.23	14
	Firmware Version 1.0.1.17	14
	Firmware Version 1.0.1.7	14
	Firmware Version 1.0.0.31	15
	Firmware Version 1.0.0.16	15
W	/ELCOME	16
P	RODUCT OVERVIEW	17
	Feature Highlights	17
	Technical Specifications	19
G	ETTING STARTED	26
	Equipment Packaging	26
	Connecting and Setting Up the GRP261X	27
	Using the Phone Stand	27
	Using the Slots for Wall Mounting	27
	Connecting the GRP261X	28
G	ETTING TO KNOW GRP261X	29
	Idle Screen	29
	Using the Keypad	33





Configuration via Keypad	35
Characters Input	43
MPK LCD (Available on GRP2614 & GRP2616 only)	43
TELEPHONY FEATURES	45
Make Phone Calls	45
Handset, Speaker and Headset Mode	45
Multiple SIP Accounts and Lines	
Completing Calls	
Making Calls Using IP Addresses	
Answering Phone Calls	50
Receiving Calls	
Do Not Disturb	51
Call Hold	53
Call Transfer	54
Conference Call	57
3-way conferencing	57
Easy Conference Mode	59
UCM Conference	60
Participate in UCM Conference Room	60
Conference Call Menu (CCM)	61
Conference Call Operations	61
Call Forwarding	63
Voice Mail	65
Virtual Voice Mail	65
Instant Messages	65
Call Features	66
ADVANCED FEATURES	69
Virtual Multi-Purpose Keys	69
Predictive Dialing	75
Search in Call History	75
Search in Broadsoft Directories	76
VPK Paging Support inside the LCD Call Screen	78





Active VPK Page	78
Line Switching in Call Screen	79
Shared Call Appearance (SCA)	79
Configuring Eventlist BLF	80
Screenshots	80
Diagnosis	80
CONTACTS	82
Local Contacts	82
Add a single Contact	82
Phonebook	82
XML Phonebook syntax	
Download/Upload XML Phonebook from Web UI  Dialed Numbers Filtering	
Contact search mode	
Quick Match	
Exact Matching	
LDAP	87
Broadsoft Directories	87
CALL HISTORY	89
Local Call History	89
Missed Calls Indication	90
CONNECTING TO DEVICES	91
EHS Headset	91
Bluetooth (GRP2614, GRP2615 & GRP2616 only)	91
Wi-Fi (GRP2612W/GRP2614/GRP2615 & GRP2616 only)	94
RESTORE FACTORY DEFAULT SETTINGS	97
Restore factory settings using LCD menu	97
FXPERIENCING GRP261X	98





## **Table of Figures**

Figure 1: GRP261X Package Content	26
Figure 2: phone Stand and Mounting Slots on the GRP261X	27
Figure 3: Tab on the Handset Cradle	27
Figure 4: GRP261X Back / Side View	28
Figure 5: GRP261X Idle Screen	29
Figure 6: GRP2612/GRP2612P/GRP2612W Keyboard	33
Figure 7: GRP2613 Keyboard	33
Figure 8: GRP2614 Keyboard	33
Figure 9: GRP2615 Keyboard	34
Figure 10: GRP2616 Keyboard	34
Figure 11: GRP2600 Menu	42
Figure 12: GRP2614 MPK LCD	43
Figure 13: Phone LCD Configuration (MPK1)	44
Figure 14: MPK LCD Configuration (MPK1)	44
Figure 15: On hook dialing	46
Figure 16: Off hook dialing	46
Figure 17: Call using Paging/Intercom	48
Figure 18: Direct IP Call	50
Figure 19: Multiple incoming calls	51
Figure 20: Do Not Disturb	52
Figure 21: Call Muted	52
Figure 22: Black/White List from Web GUI	53
Figure 23: Black/White List from LCD	53
Figure 24: On hold duration	54
Figure 25: Dynamic Attended Transfer	55
Figure 26: "Split" softkey	55
Figure 27: "Target" softkey under Transfer Action Page	56
Figure 28: Target - Local Call Log Page	56
Figure 29: Transfer from Information While Ringing and During Incoming Call	57
Figure 30: Established Conference	57
Figure 31 : Establish a Conference Call on the GRP2613	58
Figure 32 : Split conference	59
Figure 33: Join UCM Conference	60
Figure 34: List of Conference Room Users	61
Figure 35: UCM Conference Menu - Invite User	61
Figure 36 : UCM Conference room - Kick user	62
Figure 37 : UCM Conference room – Mute/ Unmute user	62
Figure 38: UCM Conference Menu - Bridge Conference	63
Figure 39 : UCM Conference Menu - More	63





Figure 40: Disabled Call Forward	64
Figure 41: Enable Call Forward	64
Figure 42: Diversion Information	64
Figure 43: Instant Messages sub-menu	65
Figure 44: Sending an Instant Message	66
Figure 45: IM Sent Successfully	66
Figure 46 : Feature Codes List	68
Figure 47: VPK Page	69
Figure 48: Edit VPK - Fixed VPK	69
Figure 49: Edit VPK - Dynamic VPK	70
Figure 50: Line Key as Transfer Mode	72
Figure 51: VPK - LCD Indication	72
Figure 52: toggle between screens in call screen	75
Figure 53: Predictive Dialing	76
Figure 54: Broadsoft XSI web configuration	77
Figure 55: Predictive Dialing from BS XSI Directories	78
Figure 56: VPK Paging	78
Figure 57: Active VPK Page	79
Figure 58: Line Switching	79
Figure 59: Screenshots	80
Figure 60: Factory Functions	81
Figure 61: New contact	82
Figure 62 : Download/Upload XML Phonebook	83
Figure 63: Local Phonebook - Contact Information	84
Figure 64: Local Phonebook - Company/Title/Job Fields	84
Figure 65: Contact Numbers with Special Characters	
Figure 66: Call with Filtered Characters	85
Figure 67: Before Search	86
Figure 68: QuickMatch	86
Figure 69: ExactMatch	87
Figure 70: LDAP search	87
Figure 71: Search in Broadsoft Directories	88
Figure 72: Call History Screen Page	89
Figure 73: Missed Calls	90
Figure 74: Headset enabled	91
Figure 75: Bluetooth feature	92
Figure 76: Bluetooth Scan	92
Figure 77: GRP2615/GRP2614/GRP2616 Pairing Process	92
Figure 78: Successful Bluetooth pairing	93
Figure 79: Bluetooth Status	93
Figure 80: Pairing Request	93
Figure 81: Wi-Fi feature	94
Figure 82; Enable Wi-Fi	94





Figure 83: Wi-Fi Scanning	95
Figure 84: Nearby Wi-Fi networks	
Figure 85: Wi-Fi password required	
Figure 86: Failed/Successful Wi-Fi connection	
Figure 87: Wi-Fi Status	
Figure 88 : Current connection	
Figure 89: Factory Reset using LCD Menu	

## **Table of Tables**

Table 1: GRP261X Features in a glance	17
Table 2: GRP261X Comparison Guide	18
Table 3: GRP2612/GRP2612P/GRP2612W Technical Specifications	19
Table 4: GRP2613 Technical Specifications	20
Table 5: GRP2614 Technical Specifications	21
Table 6: GRP2615 Technical Specifications	23
Table 7: GRP2616 Technical Specifications	24
Table 8: Equipment Packaging	26
Table 9: LCD Display Definitions	29
Table 10: GRP261X LCD icons	31
Table 11: GRP261X Keypad Buttons	34
Table 12: Configuration Menu	
Table 13: Call Features	66
Table 14: VPK Modes in String Format	70
Table 15: VPK Modes Icon Indications	73





## **DOCUMENT PURPOSE**

This document describes how to configure the GRP261X via phone's LCD menu and web UI menu to fully manipulate phone's features. To learn advanced functions of GRP261X, please visit <a href="http://www.grandstream.com/support">http://www.grandstream.com/support</a> to download the latest "GRP261X Administration Guide".

This guide covers following topics:

- Product Overview
- Getting started
- Getting to know GRP261X
- Telephony features
- Advanced features
- Contacts
- Call History
- Connecting to devices
- Restore to factory default settings





### **CHANGE LOG**

This section documents significant changes from previous versions of user manuals for GRP261X. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

#### Firmware Version 1.0.5.45

No major changes.

#### Firmware Version 1.0.5.44

No major changes.

#### Firmware Version 1.0.5.36

- Added support for a power-saving feature of turning off the LCD display automatically according to a configurable schedule. [Office Hours]
- Added support for a power-saving feature of turning off the LCD display automatically according to a timer when not during office hours. [Power Saving Timeout]

#### Firmware Version 1.0.5.33

- Extended the amount of text that can be displayed on the Extension label.
- Added support for disabling the feature of selecting an account from LCD. [Multiple SIP Accounts and Lines]

#### Firmware Version 1.0.5.15

• Added ability to configure Headset TX/RX gain on LCD. [Audio]

#### Firmware Version 1.0.3.6

No major change.

#### Firmware Version 1.0.1.23

No major change.

#### Firmware Version 1.0.1.17

No major change.

#### Firmware Version 1.0.1.7

• Added support for GRP2616.





- Added support for GRP2615.
- Added support of Bluetooth handsfree feature. [Bluetooth]
- Improved Feature of blacklist and whitelist in Contact. [Black/White Listing]

#### Firmware Version 1.0.0.31

- Added support for more MPK/VPK modes [VIRTUAL MULTI-PURPOSE KEYS]
- UCM conference room updates [UCM CONFERENCE]

#### Firmware Version 1.0.0.16

This is the initial version for GRP261X.





#### WELCOME

Thank you for purchasing Grandstream GRP261X Carrier-Grade IP Phones.

GRP2612/GRP2612P/GRP2612W is featuring 4 dual-color line keys (can be digitally programmed as up to 16 provisionable BLF/fast-dial keys), 2.4" (320x240) TFT color LCD, 4 programmable context-sensitive soft keys, 100M network ports, integrated PoE (GRP2612P & GRP2612W only), integrated dual-band Wi-Fi (GRP2612W only), 3-way conference, and Electronic Hook Switch (EHS).

GRP2613 is featuring 6 dual-color line keys (can be digitally programmed as up to 24 provisionable BLF/fast-dial keys), 2.8" (320x240) TFT color LCD, 4 programmable context-sensitive soft keys, 1000M network ports, integrated PoE, 3-way conference, and Electronic Hook Switch (EHS).

GRP2614 is featuring 4 dual-color line keys (can be digitally programmed as up to 16 provisionable BLF/fast-dial keys), 2.8" (320x240) TFT color LCD, 4 programmable context-sensitive soft keys, 2.4" (320x240) additional screen dedicated to up to 24 multi-purpose keys, 1000M network ports, integrated PoE, Wi-Fi and Bluetooth support, 3-way conference and Electronic Hook Switch (EHS).

GRP2615 is featuring 10 dual-color line keys (can be digitally programmed as up to 40 provisionable BLF/fast-dial keys), 4.3" (480x272) TFT color LCD, 5 programmable context-sensitive soft keys, 1000M network ports, integrated PoE, Wi-Fi and Bluetooth support, 3-way conference and Electronic Hook Switch (EHS).

GRP2616 is a next generation enterprise IP Phone featuring 6 dual-color line keys (can be digitally programmed as up to 24 provisionable BLF/fast-dial keys), 4.3" (480x272) TFT color LCD, 5 programmable context-sensitive soft keys, 2.4" (320x240) additional screen dedicated to up to 24 multi-purpose keys, USB port, 1000M network ports, integrated PoE, Wi-Fi and Bluetooth sup-port, 3-way conference and Electronic Hook Switch (EHS).

The GRP261X series deliver superior HD audio quality, rich and leading-edge telephony features, protection for privacy, and broad interoperability with most 3<sup>rd</sup> party SIP devices and leading SIP/NGN/IMS platforms. GRP261X series is the perfect choice for enterprise users looking for a high quality, feature rich multi-line executive IP phone with advanced functionalities and performance.





## **PRODUCT OVERVIEW**

## **Feature Highlights**

The following tables contain the major features of the GRP261X:

Table 1: GRP261X Features in a glance

	GRP2612 GRP2612P GRP2612W	<ul> <li>4 dual-color line keys (can be digitally programmed as up to 16 provisionable BLF/fast-dial keys).</li> <li>2.4" (320x240) TFT color LCD.</li> <li>4 programmable context-sensitive soft keys.</li> <li>100M network ports.</li> <li>Integrated PoE (GRP2612P &amp; GRP2612W only).</li> <li>3-way conference.</li> <li>Electronic Hook Switch (EHS).</li> <li>Wi-Fi support (GRP2612W only).</li> </ul>
HD COMPONENT TO THE PARTY OF TH	GRP2613	<ul> <li>6 dual-color line keys (can be digitally programmed as up to 24 provisionable BLF/fast-dial keys).</li> <li>2.8" (320x240) TFT color LCD.</li> <li>4 programmable context-sensitive soft keys.</li> <li>1000M network ports.</li> <li>integrated PoE.</li> <li>3-way conference.</li> <li>Electronic Hook Switch (EHS).</li> </ul>
HD STATE OF THE ST	GRP2614	<ul> <li>4 dual-color line keys (can be digitally programmed as up to 16 provisionable BLF/fast-dial keys).</li> <li>2.8" (320x240) TFT color LCD.</li> <li>4 programmable context-sensitive soft keys.</li> <li>2.4" (320x240) additional screen dedicated to up to 24 multi-purpose keys.</li> <li>1000M network ports.</li> <li>Integrated PoE.</li> <li>Wi-Fi and Bluetooth support.</li> <li>3-way conference.</li> <li>Electronic Hook Switch (EHS).</li> </ul>







#### **GRP2615**

**GRP2616** 

- 10 dual-color line keys (can be digitally programmed as up to 40 provisionable BLF/fast-dial keys).
- 4.3" (480x272) TFT color LCD.
- 5 programmable context-sensitive soft keys.
- 1000M network ports.
- Integrated PoE.
- Wi-Fi and Bluetooth support.
- 3-way conference.
- Electronic Hook Switch (EHS).
- 6 dual-color line keys (can be digitally programmed as up to 24 provisionable BLF/fast-dial keys).
- 4.3" (480x272) TFT color LCD.
- 5 programmable context-sensitive soft keys.
- 2.4" (320x240) additional screen dedicated to up to 24 multi-purpose keys.
- 1000M network ports.
- Integrated PoE.
- Wi-Fi and Bluetooth support.
- 3-way conference.
- Electronic Hook Switch (EHS).



Table 2: GRP261X Comparison Guide

Table 2: GRP261X Companison Guide								
Features	GRP2612 GRP2612P GRP2612W	GRP2613	GRP2614	GRP2615	GRP2616			
LCD Display	320x240	320x240	320x240	480x272	480x272			
LCD Backlight	Yes	Yes	Yes	Yes	Yes			
Electronic Hook Switch	Yes	Yes	Yes	Yes	Yes			
Number of Lines	4	6	4	5	6			
Programmable Hard Keys	16	24	16	40	24			
Programmable Soft Keys	4	4	4	5	5			
MPK LCD	No	No	Yes	No	Yes			
PoE	GRP2612P only	Yes	Yes	Yes	Yes			





Network ports	100M	1000M	1000M	1000M	1000M
Conference	3-way	3-way	3-way	3-way	3-way
Bluetooth	No	No	Yes	Yes	Yes
Wi-Fi	GRP2612W only	No	Yes	Yes	Yes

## **Technical Specifications**

The following table resumes all the technical specifications including the protocols / standards supported, voice codecs, telephony features, languages and upgrade/provisioning settings for the GRP261X series.

Table 3: GRP2612/GRP2612P/GRP2612W Technical Specifications

	· · · · · · · · · · · · · · · · · · ·
Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP/RTCP-XR, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, FTP/FTPS, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
Network Interfaces	Dual switched auto-sensing 10/100 Mbps Ethernet ports, with integrated PoE (only GRP2612P/GRP2612W)
<b>Graphic Display</b>	2.4 inch (320x240) TFT color LCD
Feature Keys	4 line keys with up to 2 SIP accounts, 4 programmable contexts sensitive Softkeys, 5 navigation/menu keys, 9 dedicated function keys for: MESSAGE (with LED indicator), TRANSFER, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME-
Voice Codec	Support for G.729A/B, G723.1, G.711µ/a-law, G.726, G.722 (wide-band), ILBC, OPUS and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
<b>Auxiliary Ports</b>	RJ9 headset jack (allowing EHS with Plantronics headsets)
Telephony Features	Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA), bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 1000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones and music on hold, server redundancy and fail-over
HD audio	Yes, both on handset and full-duplex handsfree speakerphone
Base Stand	Yes, allow 2 angle positions
Wall Mountable	Yes
QoS	Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew,





	Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish
Upgrade/Provisioning	Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240 VAC; Output: +5VDC, 0.5A; Integrated Power-over-Ethernet (802.3af)
Physical	Dimension : 203mm x 193mm x 52.1mm Unit weight:554g Package weight:936g
Temperature and Humidity	32-104°F / 0~40°C, 10-90% (non- condensing)
Package Content	GRP2612/GRP2612P/GRP2612W phone, handset with cord, base stand, universal power supply (except GRP2612P), network cable, Quick Installation Guide
Compliance	GRP2612/GRP2612P: FCC: FCC Part 15B, Class B; FCC Part 68 HAC. CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1. RCM: AS/NZS CISPR 32; AS/NZS 62368.1; AS/CA S004. GRP2612W: FCC: FCC Part 15B, Class B; FCC Part 15 Subpart C; FCC Part 15 Subpart E; FCC Part 68 HAC. CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1; EN 301 489-1/-17; EN 300 328; EN 301 893; EN 62311; RCM: AS/NZS CISPR 32; AS/NZS 62368.1; AS/NZS 4268; AS/CA S004.

#### Table 4: GRP2613 Technical Specifications

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP/RTCP-XR, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, FTP/FTPS NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Ethernet ports with integrated PoE
<b>Graphic Display</b>	2.8 inch (320x240) TFT color LCD
Feature Keys	6 line keys with up to 3 SIP accounts, 5 navigation/menu keys, 9 dedicated function keys for: MESSAGE (with LED indicator), TRANSFER, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME-
Voice Codec	Support for G.723.1, G.729A/B, G.711 $\mu$ /a-law, G.726, G.722 (wide-band), OPUS, iLBC and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
<b>Auxiliary Ports</b>	RJ9 headset jack (allowing EHS with Plantronics headsets).
Telephony Features	Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-





	appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook
	(XML, LDAP, up to 1000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial
	plan, hot desking, personalized music ringtones and music on hold, server redundancy and fail-over
HD audio	Yes, both on handset and full-duplex handsfree speakerphone
Base Stand	Yes, allow 2 angle positions
Wall Mountable	Yes
QoS	Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 and MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish
Upgrade/Provisioning	Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240 VAC; Output: +5VDC, 0.5A; Integrated Power-over-Ethernet (802.3af)  Max power consumption 6W.
Physical	Dimension: 203mm x 193mm x 52.1mm Unit weight:554g Package weight:936g
Temperature and Humidity	32-104°F / 0~40°C, 10-90% (non- condensing)
Package Content	GRP2613 phone, handset with cord, base stand, universal power supply, network cable, Quick Installation Guide
Compliance	FCC: FCC Part 15B, Class B; FCC Part 68 HAC. CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1. RCM: AS/NZS CISPR 32; AS/NZS 62368.1; AS/CA S004.

#### Table 5: GRP2614 Technical Specifications

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP/RTCP-XR, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, FTP/FTPS, NTP,
	STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Ethernet ports with integrated PoE
<b>Graphic Display</b>	2.8 inch (320x240) TFT color LCD – 2.4 inch MPK color LCD
Bluetooth	Yes, Bluetooth 5
Wi-Fi	Yes, dual-band





Feature Keys	4 line keys with up to 4 SIP accounts, 24 speed-dial/BLF extension keys with dual-color LED, 4 programmable contexts sensitive Softkeys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME-
Voice Codec	Support for G.729A/B, G.711 $\mu$ /a-law, G.726, G.722 (wide-band), OPUS, iLBC and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
<b>Auxiliary Ports</b>	RJ9 headset jack (allowing EHS with Plantronics headsets).
Telephony Features	Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over
HD audio	Yes, both on handset and full-duplex handsfree speakerphone
Base Stand	Yes, allow 2 angle positions
Wall Mountable	Yes
QoS	Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control
Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish
Upgrade/Provisioning	Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Max power consumption: 6W
Physical	Dimension: 234mm x 213mm x 82.2mm Unit weight: 950g Package weight: 1460g
Temperature and Humidity	32-104°F / 0~40°C, 10-90% (non- condensing)
Package Content	GRP2614 phone, handset with cord, base stand, universal power supply, network cable, Quick Installation Guide
Compliance	FCC: FCC Part 15B, Class B; FCC Part 15 Subpart C; FCC Part 15 Subpart E; FCC Part 68 HAC.  CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1; EN 301 489-1/-17; EN 300 328; EN 301 893; EN 62311;  RCM: AS/NZS CISPR 32; AS/NZS 60950.1; AS/NZS 4268; AS/CA S004.





#### Table 6: GRP2615 Technical Specifications

Protocols/Standards DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, FTP/FTPS, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802 1x, TLS, SRTP, IPv6 Dual switched auto-sensing 10/100/1000 Mbps Ethernet ports with integrated PoE Graphic Display 4.3 inch (480x272) TFT color LCD Bluetooth Yes, Bluetooth version 5 Wi-Fi Ves, dual-band 10 line keys with up to 5 SIP accounts, 40 speed-dial/BLF extension keys with dual-color LED, 5 programmable contexts sensitive Softkeys, 5 navigation/menu keys, 9 dedicated function keys for: MESSAGE (with LED indicator), TRANSFER, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME- Volco Codec Support for G.729A/B, G.711µ/a-law, G.726, G.722 (wide-band), OPUS, iLBC and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO) Auxiliary Ports RJ9 headset jack (allowing EHS with Plantronics headsets), USB port. Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over HD audio Yes, both on handset and full-duplex handsfree speakerphone Yes, can power up to 4 GBX20 modules which features 4.3° Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand Yes, allow 2 angle positions Wall Mountable Yes QoS Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS Security Legrated Provisioning Fimware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file Power & Green Energy Efficiency Dimensions: 243mm x 210mm x 82.3mm Unit weight:970g		SIP RFC3261, TCP/IP/UDP, RTP/RTCP/RTCP-XR, HTTP/HTTPS, ARP, ICMP,
Dual switched auto-sensing 10/100/1000 Mbps Ethernet ports with integrated PoE	Protocols/Standards	DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, FTP/FTPS, NTP,
PoE		STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
PoE	Network Interfaces	
Peature Keys   Yes, Bluetooth version 5		
Yes, dual-band		
Tolephony Features  Tolephony Features  Tolephony Features  HD audio  Extension Module  Extension Module  Extension Module  Extension Module  Extension Module  Tolephony Features  Wes, allow 2 angle positions  Wall Mountable  Yes, allow 2 angle positions  Wall Mountable  Tolephory Fores  Wall Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Dimensions: 243mm x 210mm x 82.3mm  Dimensions: 243mm x 210mm x 82.3mm  Ves, Calm x 29.0m x 20.0m x 82.3mm  Dimensions: 243mm x 210mm x 82.3mm		
dual-color LED, 5 programmable contexts sensitive Softkeys, 5 navigation/menu keys, 9 dedicated function keys for: MESSAGE (with LED indicator), TRANSFER, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME- VOLUME- VoluME- Support for G.729A/B, G.711µ/a-law, G.726, G.722 (wide-band), OPUS, iLBC and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)  RJ9 headset jack (allowing EHS with Plantronics headsets), USB port.  Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  HD audio  Extension Module Extension Module  Extension Module  Base Stand  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Yes, allow 2 angle positions  Wall Mountable  Yes  QoS  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  Security  Base Stand  Ves and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	Wi-Fi	
keys, 9 dedicated function keys for: MESSAGE (with LED indicator), TRANSFER, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME-  Voice Codec  Auxiliary Ports  By headset jack (allowing EHS with Plantronics headsets), USB port.  Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  HD audio  Extension Module  Extension Module  Extension Module  Extension Module  Extension Module  Extension Module  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Yes, allow 2 angle positions  Yes  Qos  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  Security  Multi-language  Multi-language  Multi-language  Upgrade/Provisioning  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm		
VOLUME-  Voice Codec  Support for G.729A/B, G.711µ/a-law, G.726, G.722 (wide-band), OPUS, iLBC and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)  RJ9 headset jack (allowing EHS with Plantronics headsets), USB port.  Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  HD audio  Extension Module  Extension Module  Extension Module  Extension Module  Age Stand  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, allow 2 angle positions  Yes  Qos  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Power & Green  Energy Efficiency  Physical  Dimensions: 243mm x 210mm x 82.3mm	Feature Keys	
Auxiliary Ports  RJ9 headset jack (allowing EHS with Plantronics headsets), USB port.  Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  HD audio  Extension Module  Extension Module  Extension Module  Power & Green Energy Efficiency  and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)  RJ9 headset jack (allowing EHS with Plantronics headsets), USB port.  Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  Yes, both on handset and full-duplex handsfree speakerphone  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Yes, allow 2 angle positions  Yes  QoS  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm		
Telephony Features  Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  HD audio  Extension Module  Extension Module  Extension Module  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, allow 2 angle positions  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, allow 2 angle positions  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 Quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 Quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand	Voice Codec	
appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  HD audio  Extension Module  Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Power & Green  English Arabic, Robert Sample Positions  Wall Mountable  Yes  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Upgrade/Provisioning  Firmware upgrade via TFTP/FTP/FTTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	<b>Auxiliary Ports</b>	RJ9 headset jack (allowing EHS with Plantronics headsets), USB port.
customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over  Wes, both on handset and full-duplex handsfree speakerphone  Extension Module  Extension Module  Pes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Wall Mountable  QoS  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Power & Green  Energy Efficiency  Physical  Customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundance in hold, server redundance in hold, server redundance in hold, server redundance sand music on hold, server redundance in hold, server redundance in hold, server redundance in hold, server redundance sand music on hold, server redundance in hold, server redundance sand music on hold		appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook
redundancy and fail-over  HD audio Yes, both on handset and full-duplex handsfree speakerphone Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand Yes, allow 2 angle positions  Wall Mountable Yes  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  Security User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Upgrade/Provisioning Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	Telephony Features	, , , , , , , , , , , , , , , , , , , ,
Yes, can power up to 4 GBX20 modules which features 4.3" Color LCD, 20 quick-dial/BLF keys which dual-color LED, 2 navigation keys.  Base Stand  Yes, allow 2 angle positions  Yes  QoS  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Upgrade/Provisioning  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Power & Green  Energy Efficiency  Dimensions: 243mm x 210mm x 82.3mm		
Base Stand  Yes, allow 2 angle positions  Yes  QoS  Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Upgrade/Provisioning  Power & Green Energy Efficiency  Dimensions: 243mm x 210mm x 82.3mm	HD audio	Yes, both on handset and full-duplex handsfree speakerphone
Wall Mountable  QoS Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Upgrade/Provisioning  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Power & Green Energy Efficiency  Dimensions: 243mm x 210mm x 82.3mm	Extension Module	
Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS  User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Upgrade/Provisioning  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Power & Green Energy Efficiency  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	Base Stand	Yes, allow 2 angle positions
User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Upgrade/Provisioning  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Power & Green Energy Efficiency  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	Wall Mountable	Yes
AES based secure configuration file, SRTP, TLS, 802.1x media access control  English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Power & Green Energy Efficiency  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	QoS	Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Multi-language  Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish  Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file  Power & Green Energy Efficiency  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	Security	•
Power & Green Energy Efficiency  TR-069 or encrypted XML configuration file  Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)  Dimensions: 243mm x 210mm x 82.3mm	Multi-language	Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia,
Energy Efficiency Integrated Power-over-Ethernet (802.3af)  Physical Dimensions: 243mm x 210mm x 82.3mm	Upgrade/Provisioning	
Physical		
	Physical	





	Package weight:1480g
Temperature and Humidity	32-104°F / 0~40°C, 10-90% (non- condensing)
Package Content	GRP2615 phone, handset with cord, base stand, universal power supply, network cable, Quick Installation Guide
Compliance	FCC: FCC Part 15B, Class B; FCC Part 15 Subpart C; FCC Part 15 Subpart E; FCC Part 68 HAC.  CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1; EN 301 489-1/-17; EN 300 328; EN 301 893; EN 62311; RCM: AS/NZS CISPR 32; AS/NZS 60950.1; AS/NZS 4268; AS/CA S004.

#### Table 7: GRP2616 Technical Specifications

Protocols/Standards	SIP RFC3261, TCP/IP/UDP, RTP/RTCP/RTCP-XR, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, FTP/FTPS, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6
Network Interfaces	Dual switched auto-sensing 10/100/1000 Mbps Ethernet ports with integrated PoE
<b>Graphic Display</b>	4.3 inch (480x272) TFT color LCD - 2.4 inch MPK color LCD
Bluetooth	Yes, Bluetooth version 5
Wi-Fi	Yes, dual-band
Feature Keys	6 line keys with up to 6 SIP accounts, 24 speed-dial/BLF extension keys with dual-color LED, 5 programmable contexts sensitive Softkeys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOLUME+, VOLUME-
Voice Codec	Support for G.729A/B, G.711 $\mu$ /a-law, G.726, G.722 (wide-band), OPUS, iLBC and in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)
Auxiliary Ports	RJ9 headset jack (allowing EHS with Plantronics headsets), USB port.
Telephony Features	Hold, transfer, forward, 3-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 2000 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, Hot Desking, personalized music ringtones and music on hold, server redundancy and fail-over
HD audio	Yes, both on handset and full-duplex handsfree speakerphone
Base Stand	Yes, allow 2 angle positions
Wall Mountable	Yes
QoS	Layer 2 (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS
Security	User and administrator level passwords, MD5 & MD5-sess based authentication, AES based secure configuration file, SRTP, TLS, 802.1x media access control





Multi-language	English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenia, Spanish, Turkish
Upgrade/Provisioning	Firmware upgrade via TFTP/FTP/FTPS/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file
Power & Green Energy Efficiency	Universal power adapter included: Input:100-240V; Output: +12V, 0.5A; Integrated Power-over-Ethernet (802.3af)
Temperature and Humidity	32-104°F / 0~40°C, 10-90% (non- condensing)
Package Content	GRP2616 phone, handset with cord, base stand, universal power supply, network cable, Quick Installation Guide
Compliance	FCC: FCC Part 15B, Class B; FCC Part 15 Subpart C; FCC Part 15 Subpart E; FCC Part 68 HAC.  CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1; EN 301 489-1/-17; EN 300 328; EN 301 893; EN 62311; RCM: AS/NZS CISPR 32; AS/NZS 60950.1; AS/NZS 4268; AS/CA S004.





## **GETTING STARTED**

This chapter provides basic installation instructions including the list of the packaging contents and also information for obtaining the best performance with the GRP261X phone.

### **Equipment Packaging**

**Table 8: Equipment Packaging** 

#### GRP261X

- 1 x GRP261X Main Case.
- 1 x Handset.
- 1 x Phone Stand.
- 1 x Ethernet Cable.
- 1 x Power Adapter.
- 1 x Phone cord.
- 1 x Quick Installation Guide.
- 1 x GPL License.

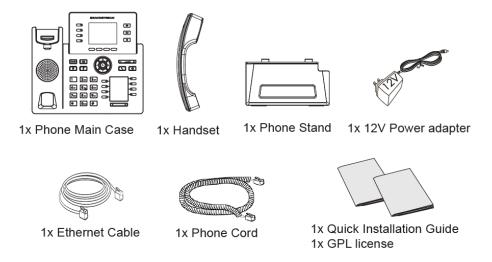


Figure 1: GRP261X Package Content

#### Note:

Check the package before installation. If you find anything missing, contact your system administrator.





#### **Connecting and Setting Up the GRP261X**

The GRP261X phones can be installed on the desktop using the phone stand or attached on the wall using the slots for wall mounting.

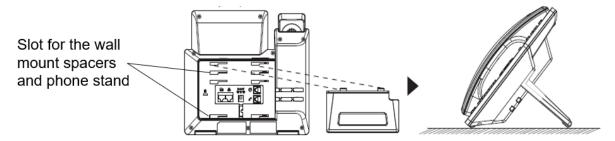


Figure 2: phone Stand and Mounting Slots on the GRP261X

#### **Using the Phone Stand**

To install the phone on the table with the phone stand, attach the phone stand to the bottom of the phone through the phone stand slot. (Upper half, bottom part).

#### **Using the Slots for Wall Mounting**

- 1. Attach the wall mount spacers to the slot for wall mount spacers on the back of the phone.
- 2. Attach the phone to the wall via the wall mount hole.
- 3. Pull out the tab from the handset cradle (See figure below).
- 4. Rotate the tab and plug it back into the slot with the extension up to hold the handset while the phone is mounted on the wall (See figure below).

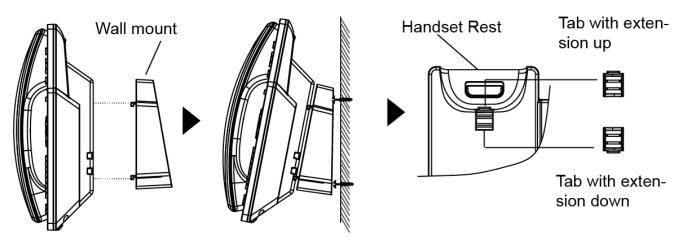


Figure 3: Tab on the Handset Cradle





### **Connecting the GRP261X**

To setup the GRP261X, follow the steps below:

- 1. Connect the handset and main phone case with the phone cord.
- 2. Connect the LAN port of the phone to the RJ-45 socket of a hub/switch or a router (LAN side of the router) using the Ethernet cable.
- 3. Connect the PSU output plug to the power jack on the phone; plug the power adapter into an electrical outlet. If PoE switch is used in step 2, this step could be skipped.
- 4. The LCD will display provisioning or firmware upgrade information. Before continuing, please wait for the date/time display to show up.
- 5. Using the phone embedded web server or keypad configuration menu, you can further configure the phone using either a static IP or DHCP.

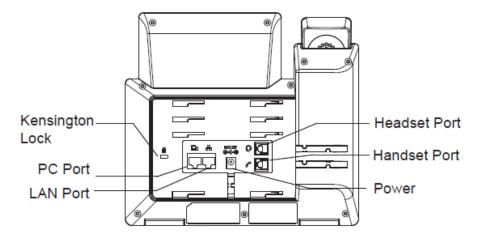


Figure 4: GRP261X Back / Side View





## **GETTING TO KNOW GRP261X**

#### **Idle Screen**

GRP261X screen displays differently depending on whether the phone is idle or in use (active). The following figures show the idle screen of GRP2612/GRP2612P/GRP2612W/GRP2613/GRP2614 /GRP2615/GRP2616.



Figure 5: GRP261X Idle Screen

The following table describes the items displayed on the GRP261X idle screen:

**Table 9: LCD Display Definitions** 

Date and Time	Displays the current date and time. It can be synchronized with Internet time servers.
Network icon	Shows the status of network. It will indicate whether the network is down or starting.
Status icon	Shows the status of the phone for registration status, call features and etc, using icons as shown in the next table.
Line status indicator	Displays the name of the account that is in use.
Softkeys in idle screen	The softkeys are context sensitive and will change depending on the status of the phone. Typical functions assigned to softkeys are:  • SwitchSCR/NEXTSCR  Toggles between different idle screens: Press the most left softkey (or RIGHT/LEFT arrow buttons) to switch screens.





#### ForwardAll

Unconditionally forwards the phone line (account 1) to another phone.

#### MissedCalls

Shows up unanswered calls to this phone.

#### Redial

Redials the last dialed number

The softkeys are context sensitive and will change depending on the call status of the phone. Here are the main softkeys in call screen.

#### Redial

Redials the last dialed number after off hook when there is existed call log.

#### Dial

Dials the call out after off hook and entering the number.

#### AnswerCall

Answers the incoming call when the phone is ringing.

#### RejectCall

Rejects the incoming call when the phone is ringing.

# Softkeys in call screen

#### EndCall

Ends the active call.

#### Transfer

Transfer softkey will show up after pressing TRAN button and entering transfer target number. Press Transfer softkey to do blind transfer.

#### • Split

In attended transfer mode, after establishing the second call, press Split to quit transfer and go back to normal talking status.

#### ConfCall

Conferences the active calls.

#### ReConf

Re-establish the conference among the calls on hold.





#### Table 10: GRP261X LCD icons

	Network Status.  OFF - Network connection is up  ON - Network connection is down
•	DND Status.  OFF - Do Not Disturb disabled  ON - Do Not Disturb enabled
(+	Call Forward All Status.  OFF - Call Forward All feature disabled  ON - Call Forward All feature enabled
(0)	Call Forward Busy Status.  OFF - Call Forward Busy feature disabled  ON - Call Forward Busy feature enabled
(¢	Call Forward No Answer Status.  OFF - Call Forward No Answer feature disabled  ON - Call Forward No Answer feature enabled
(¢	Call Forward Busy and Call Forward No Answer Status.  OFF - Call Forward All and Call Forward No Answer feature disabled  ON - Call Forward All and Call Forward No Answer feature enabled
Ç×	Missed Call Status.  OFF - No missed call  ON - New missed call
(	Handset Status.  OFF - Handset is not in use  ON - Handset is in use
Ω	Headset Status.  OFF - Headset is not in use  ON - Headset is in use
<b>₽</b>	Microphone MUTE Status.  OFF - No muted  ON - Muted





*	Bluetooth Status. (GRP2614/GRP2615/GRP2616 only)  OFF - Bluetooth icon disappears  ON - Bluetooth icon appears  Paired - Bluetooth icon turns bright
<b>Y</b>	Incoming Call. The current call is an incoming call
٧	Outgoing Call. The current call is an outgoing call
<b>©</b>	Call On Hold.  OFF - No call on hold  ON - Call on hold
2	Call Connect.  OFF - No call  ON - Call connected
<u>u</u>	IP Call Status The current call is an IP call.
٠	SIP Call  Enter number for initiate call. The current call is a SIP call.
	Ringtone Volume Call screen icon.
<b>%</b>	Ringtone Volume mute  Call screen icon. The volume of ringtone is mute





#### **Using the Keypad**

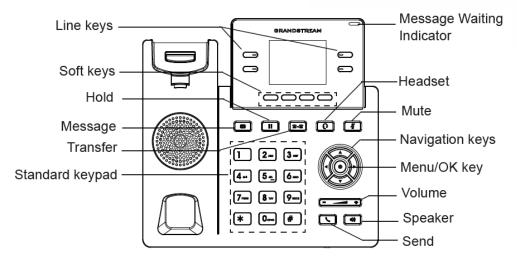


Figure 6: GRP2612/GRP2612P/GRP2612W Keyboard

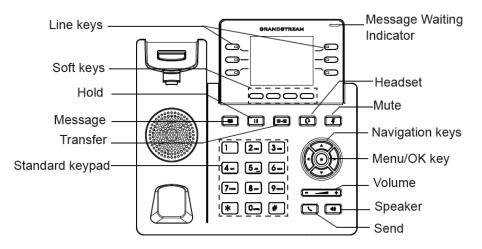


Figure 7: GRP2613 Keyboard

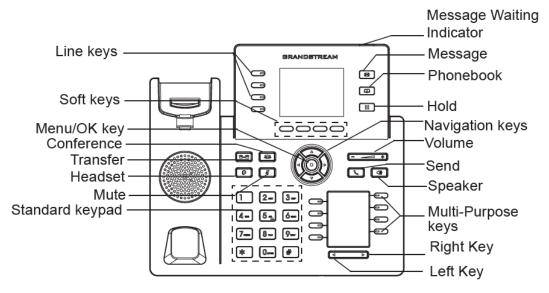


Figure 8: GRP2614 Keyboard





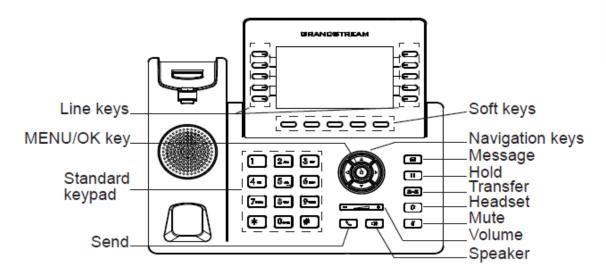


Figure 9: GRP2615 Keyboard

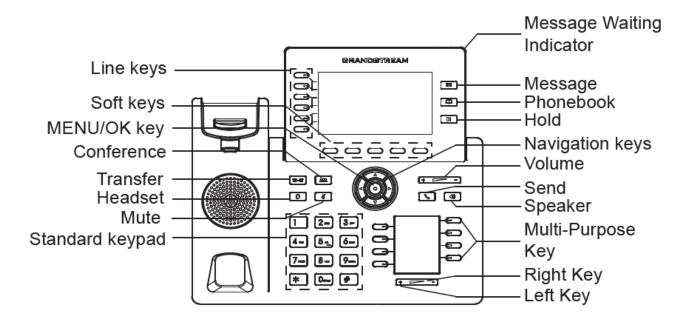
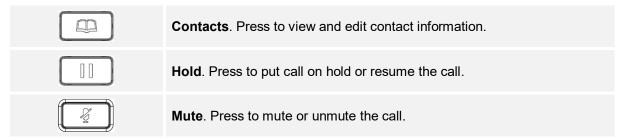


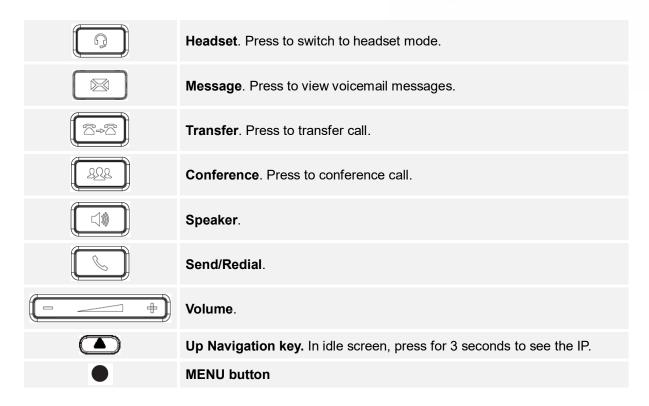
Figure 10: GRP2616 Keyboard

Table 11: GRP261X Keypad Buttons









#### **Configuration via Keypad**

To configure the LCD menu using the phone's keypad, follow the instructions below:

- Enter MENU options. When the phone is in idle, press the round MENU button to enter the configuration menu.
- Navigate in the menu options. Press the arrow keys up/down/left/right to navigate in the menu options.
- Enter/Confirm selection. Press the round MENU button or "Select" Softkey to enter the selected option.
- **Exit**. Press "Exit" Softkey to exit to the previous menu.
- Return to Home page.

In the Main menu, press Home Softkey to return home screen.

In sub menu, press and hold "Exit" Softkey until Exit Softkey changes to Home Softkey, then release the Softkey.

- The phone automatically exits MENU mode with an incoming call, when the phone is off hook or the MENU mode if left idle for more than 60 seconds.
- When the phone is in idle, pressing and holding the UP-navigation key for 3 seconds to see the phone's IP address, IP setting, MAC address and software address.

The MENU options are listed in the following table.





Table 12: Configuration Menu

Call History	Displays Local call logs:  All Calls/Answered Calls/Dialed Calls/Missed Calls/Transferred Calls	
Status	<ul> <li>Displays account status, network status, software version number and Hardware</li> <li>Account status.</li> <li>Network status.</li> <li>Press to enter the sub menu for MAC address, IP setting information (DHCP/Static IP/PPPoE), Ipv4 address, Ipv6 address, Subnet Mask, Gateway and DNS server.</li> <li>System Information</li> <li>Press to enter the sub menu for Hardware version, P/N number. Boot, Core, Base, Prog version and IP Geographic Information.</li> <li>Provider Status</li> <li>Shows the provider's status based on the Special Feature set on each account. It provides also functions related to that specific provider.</li> </ul>	
Contacts	Contacts sub menu includes the following options:  • Local Phonebook  • Local Group  • LDAP Directory  Contacts sub menu is for Local Phonebook, Local Group, LDAP Directory and Broadsoft Phonebooks. User could configure phonebooks/groups/LDAP options here, download phonebook XML to the phone and search phonebook/LDAP directory.	
Messages	Message sub menu include the following options:  Instant Message  Displays received instant messages;  Voice Mails  Displays voicemail message information in the format below: new messages/all messages (urgent messages/all urgent messages).	
Preference	Preference sub menu includes the following options:  Do Not Disturb  Enables/disables Do Not Disturb on the phone.  Keypad Lock  Turns on/off keypad lock feature and configures keypad lock password. The default keypad lock password is null. If user enabled Star Key lock without configuring password, user can unlock keypad by holding * key 4 seconds and	





pressing "OK" button.

#### Sounds

### o Ring Tone

Configures different ring tones for incoming call.

### o Ring Volume

Adjusts ring volume by pressing left/right arrow key.

#### Audio

### Headset TX gain

Configures the transmission gain of the headset.

### Headset RX gain

Configures the receiving gain of the headset.

### Appearance

### o Active LCD Brightness

Adjusts active LCD brightness by pressing left/right arrow key

### o Idle LCD Brightness

Adjusts idle LCD brightness by pressing left/right arrow key

#### o Active LCD Timeout

Adjusts the minute of active backlight timeout.

### Power Saving Timeout

Configures how long to wait before turning off the LCD automatically during non-office hours. Valid range is 0 to 90.

#### o Screensaver

Enables/Disables Screensaver

#### Screensaver Timeout

Configures the minutes of idle before the screensaver activates. Valid range is 3 to 60.

#### MPK LCD Settings (Available on GRP2614 only)

#### MPK LCD Display Order

Choose MPK LCD Display Order whether to be Sequential or Alternating

# Display Contact on MPK LCD

Enable / Disable Display Contact on MPK Order

# • Language and Input

# Display Language

Selects the language to be displayed on the phone's LCD. Users could select Automatic for local language based on IP location if available.





	By default, it is Auto.				
	Default Input Selection				
	•				
	Selects the Input mode from <b>Multi-Tap</b> and <b>Shiftable</b> . By default <b>Multi-Tap</b> .				
	<ul> <li>Multi-Tap: User may tap the same key multiple times to switch to the desired character.</li> </ul>				
	<ul> <li>Shiftable: After pressing the number button, user will see the IDs of the characters that matching to the button. User can select the desired character by entering the corresponding ID on keypad.</li> </ul>				
	Date Time				
	<ul> <li>Allow DHCP Option 42 to override NTP server</li> </ul>				
	<ul> <li>Allow DHCP Option 2 to override Time Zone setting</li> </ul>				
	o Time Settings				
	It is used to configure date and time on the phone.				
	Office Hours				
	It is used to configure the office hours for each day.				
	Search Mode				
	Specifies the phonebook search mode to <b>QuickMatch</b> or <b>ExactMatch</b> . By default, it is <b>QuickMatch</b> .				
	Phone sub menu includes the following options:				
	• SIP				
Phone	Configures SIP Proxy, Outbound Proxy, SIP User ID, SIP Auth ID, SIP Password, SIP Transport and Audio information to register SIP account on the phone.  • Call Features				
	Configures call forward features for Forward All, Forward Busy, Forward No Answer and No Answer Timeout.				
	System sub menu includes the following options:  Network				
	1.4 AB 4 A				
	<ul> <li>Internet Protocol</li> <li>Selects Prefer IPv4 / Prefer IPv6 / IPv4 only or IPv6 only. The default</li> </ul>				
	setting is "IPv4 only".				
System	○ IP Setting				
	Selects IP mode (DHCP/Static IP/PPPoE); Configures PPPoE account ID and password; Configures static IP address, Netmask, Gateway, DNS Server 1 and DNS Server 2.				





#### o 802.1X

Enables/Disables 802.1X mode; Configures 802.1x identity and MD5 password.

### Layer 2 QoS

Configures 802.1Q/VLAN Tag and priority value. Select "Reset VLAN Config" to reset VLAN configuration.

### Wi-Fi Settings (GRP2612W & GRP2614 & GRP2615 & GRP2616 only)

### o Enable/disable

Enables/disables Wi-Fi.

#### Scan

Scan available Wi-Fi networks.

### • Bluetooth Settings (GRP2614/GRP2615 & GRP2616 only)

### o Bluetooth Status

Displays the status of Bluetooth

#### Bluetooth MAC

Displays the GRP phone's Bluetooth MAC address.

(Bluetooth MAC address is GRP phone's MAC address plus 1)

#### Power

Turns on/off the Bluetooth feature.

### o Handsfree Mode

Enables/Disables Handsfree mode

### Bluetooth Name

Specifies GRP phone name when discovered by other Bluetooth devices.

#### Start Scan

Starts to scan other Bluetooth devices around the phone. If found, user could press "Pair" Softkey, and enter Pin code to pair to other devices.

#### Web Access

- Web Access Mode
- HTTP web port
- HTTPs web port

### Upgrade

### o Firmware Server

Configures firmware server for upgrading the phone.





# Config Server

Configures config server for provisioning the phone.

### Upgrade Via

Specifies upgrade/provisioning via TFTP/FTPS/HTTP/HTTPS.

#### o Start Provision

Starts Provision immediately.

### Language Download

- Auto Language Download
- Language Download

## Factory Functions

#### o Diagnostic Mode

All LEDs will light up. All keys' name will display in red on LCD screen before diagnosing. Press any key on the keypad to diagnose the key's function. When done, the key's name will display in blue on LCD. Lift and put back the handset to exit diagnostic mode.

#### Audio Loopback

Speak to the phone using speaker/handset/headset. If you can hear your voice, your audio is working fine. Press "Exit" Softkey to exit audio loopback mode.

#### LCD on/off

Selects this option to turn off LCD. Press any button to turn on LCD.

#### LCD Diagnostic

Enters this option and press Left/Right Navigation key to do LCD Diagnostic. Press "Exit" Softkey to quit.

#### Certificate Verification

This is used to validate certificate chain for the server's certificate.

#### UCM Detect

Detect/connect UCM server to process auto-provision. Manually input the IP and port of the UCM server phone wants to bind with; Or select from the available UCM server in network.

#### Authentication

Admin Password





This is used to change the admin password for Web UI access.

#### o End User Password

This is used to change end user password for Web UI access.

### Settings

Turns on/off Test Password Strength feature. This will allow only passwords with some constraints to ensure better security.

### Operations

### o Factory Reset

It is used to restore the phone to factory default settings.

### o Ping and Traceroute

It is used to show the route taken by packets across to an URL.

### o Alternative firmware

It is used to show current and alternative firmware versions available on the phone. Users can "rollback" to alternative firmware from this menu.

Reboot

Reboots the phone.





The following picture shows the keypad MENU configuration flow:

### **MENU**

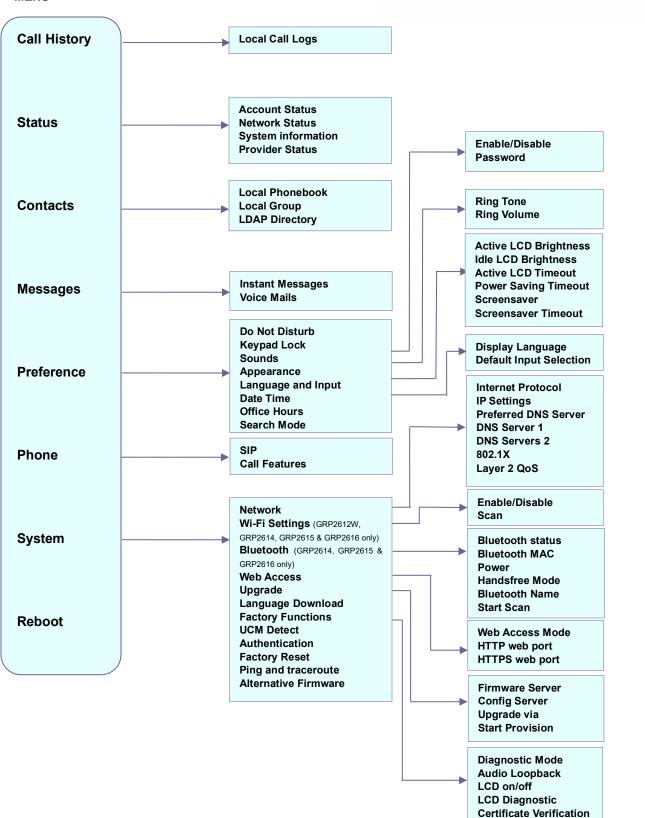


Figure 11: GRP2600 Menu





# **Characters Input**

The GRP261x keypad can be used by tapping on an input field. GRP261x keypad has 4 modes "123", "ABC", "abc" and "1Bc". Default mode is "1Bc". Note: If the input field is accepting only digits, only "123" mode will be available.

- "123" Mode: This mode allows to enter digits and . only.
- "ABC" Mode: This mode allows to enter capital letters, digits and symbolic characters.
- "abc" Mode: This mode allows to enter small letters, digits and symbolic characters.
- "1Bc" Mode: This mode allows to enter capital letters, small letters, digits and symbolic characters.

Following table describes allowed characters for each key.

Key	Description	Key	Description	Key	Description
	1 <b>Space</b> . : / ' ` @ * + - = ,	2	2 A B C a b c	3	3 D E F d e f
	& ?! % ( ) ~ _ < > { } [ ] ^				
4	4 G H I g h i	5	5 J K L j k I	6	6 M N O m n o
7	7 P Q R S p q r s	8	8 T U V t u v	9	9 W X Y Z w x y z
*	*	0	0	#	#

# MPK LCD (Available on GRP2614 & GRP2616 only)

The GRP2614 supports MPK LCD with 8 physical MPKs and 3 pages, allowing to configure up to 24 fully programmable phone extensions to the phone.

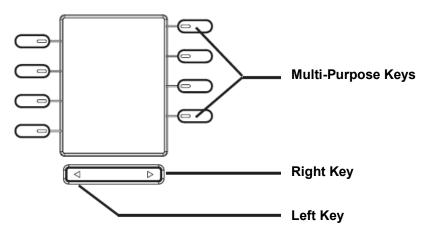


Figure 12: GRP2614 MPK LCD

The MPKs can be configured via:

- Web GUI Settings → Programmable Keys → Physical Multi-Purpose Keys.
- Or from phone directly; by pressing and holding for 5 seconds the MPK button to configure. The phone





LCD and MPK LCD will display related settings as shown below:



Figure 13: Phone LCD Configuration (MPK1)

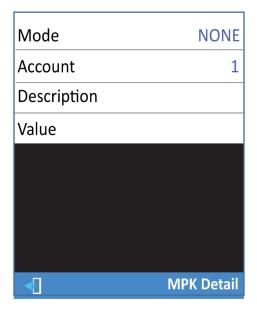


Figure 14: MPK LCD Configuration (MPK1)

After finishing the configuration, press Left or Right button at the bottom to browse all the MPK's status in the different pages.

For more information, please refer to the admin guide:

http://www.grandstream.com/sites/default/files/Resources/GRP261X administration guide.pdf





# **TELEPHONY FEATURES**

#### **Make Phone Calls**

# Handset, Speaker and Headset Mode

The GRP261X allows users to switch among handset, speaker or headset when making calls. Press the Hook Switch to switch to handset; press the Headset button to switch to headset; or press the Speaker button to switch to speaker.

### **Multiple SIP Accounts and Lines**

GRP2612/GRP2612P/GRP2612W support up to 2 SIP accounts with 4 line keys; GRP2613 supports up to 3 SIP accounts with 6 line keys and GRP2614 supports up to 4 SIP accounts with 4 line keys. GRP2615 supports up to 5 SIP accounts with 10 line keys. GRP2616 supports up to 6 SIP accounts with 6 line keys. Each account is capable of independent SIP server, user and NAT settings. Each of the line buttons is "virtually" mapped to an individual SIP account. In off hook state, select an idle line and the dial tone will be heard.

To make a call, select the line you wish to use. The corresponding LINE LED will light up in green. The user can switch lines before dialing any number by pressing the LINE buttons.

**For example**: If 2 independent accounts are registered on GRP261X, when LINE 1 is pressed, the LINE 1 LED will light up in green. If LINE 2 is pressed, the LINE 2 LED will light up in green and the subsequent call will be made through SIP account 2.

Incoming calls to a specific account will attempt to use its corresponding LINE if it is not in use. When the "virtually" mapped line is in use, the phone will flash the other available LINE in red. A line is ACTIVE when it is in use and the corresponding LED is red.

Note: Support added for disabling the feature of selecting an account from LCD.

### **Completing Calls**

There are several ways to complete a call.

- On hook dialing. Enter the number when the phone is on hook and then send out.
  - 1. When the phone is in idle, enter the number to be dialed out;
  - 2. Take handset off hook, or Press Speaker button, or Press Headset button with headset plugged in,





or Select an available LINE key.

3. The call will be dialed out.



Figure 15: On hook dialing

- Off hook and dial. Off hook the phone, enter the number and send out.
  - 1. Take handset off hook; or
    - · Press Speaker button; or
    - · Press Headset button with headset plugged in; or
    - Press an available LINE key to activate speaker;
  - 2. You shall hear dial tone after off hook;
  - 3. Enter the number;
  - 4. Press SEND, \* or # keys to dial out.



Figure 16: Off hook dialing





Predictive dialing. When dialing numbers, based on the entered digit or digits, the phone will predict
and list the candidates of target number.

If the target number is already saved in phonebook, when entering the first several digits, the phone will display a list of matching numbers. If the target number appears on the list, user could select the number using Up/Down key and dial out. GRP261X has predefined call feature code (the first digit is \*). When user enters \* as the first digit of the target number, the phone will list all the available feature codes.

- Redial. Redial the last dialed number.
  - 1. Take handset off hook; or
    - Press Speaker button; or
    - Press Headset button with headset plugged in; or
    - Press an available LINE key to activate speaker; or
    - When the phone is in idle state;
  - 2. Press SEND key, or the REDIAL softkey.
- Via Call History. Dial the number logged in phone's call history.
  - 1. Press MENU button to bring up the main menu then enter Call History; or
  - 2. Press "**History**" soft key when the phone is in idle state;
  - 3. Select the entry you would like to call using the navigation arrow keys;
  - 4. Press SEND button to dial out.
- **Via Phonebook.** Dial the number from the phonebook.
  - Press MENU button to bring up the main menu then enter Contacts; or Press Contacts button;
  - Enter Local Phonebook/ Broadsoft Phonebook using the navigation arrow keys;
  - 3. Select the contact you would like to call
    - **Note**: Pressing the **MENU** button, users can edit the phone number and choose which account to dial that number by clicking "**Edit / Dial**" soft key.
  - 4. Press SEND button to dial the selected contact.





- Speed Dial from Line Key. Dial the number configured as Speed Dial on Line Key.
  - Go to phone's Web GUI → Settings → Programmable Keys, configure the Line Key Mode as Speed
    Dial. Select the account to dial from, enter the extension number to be dialed out in Value. Click on
    "Save VPK" at the bottom of the Web GUI page;
  - 2. Off hook the phone, or directly press the Speed Dial key to dial out.
- Call Return. Dial the last answered call.
  - Go to phone's Web GUI→Settings→Programmable Keys, configure the Line Mode as Call Return.
     Select the account to dial from, no Value must be set for Call Return;
  - 2. Off hook the phone, or directly press the Call Return key to dial out.

### Via Paging/Intercom.

- 1. Take handset off hook; or
  - Press Speaker button; or
  - Press Headset button with headset plugged in; or
     Press an available LINE key to activate speaker;
- 2. You shall hear dial tone after off hook;
- 3. Press MENU button to switch from "Dialing" to "Paging" (top left of the LCD screen);
- 4. Enter the number;
- 5. Press SEND, \* or # keys to dial out.

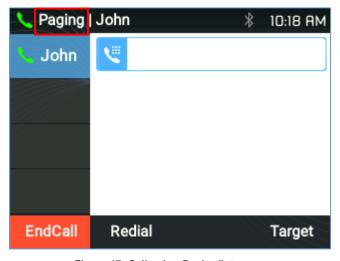


Figure 17: Call using Paging/Intercom





#### Notes:

- After entering the number, the phone waits for the No Key Entry Timeout (Default timeout is 4 seconds, configurable via Web GUI) before dialing out. Press SEND or # key to override the No Key Entry Timeout;
- If digits have been entered after taking the handset off hook, the SEND key will works as SEND instead
  of showing the history of Dialed extensions;
- By default, # can be used as SEND. Users could disable it by setting "User # as Dial Key" to "No" from Web GUI→Account X→Call Settings.
- For Paging/Intercom, if the SIP Server/PBX supports the feature and has Paging/Intercom feature code set up already, users do not necessarily need to switch to paging mode in the call screen. Simply dial the feature code with extension as a normal call.
- When a call is dialed out via paging, users can see the "call-info" header contains "answer-after=0" and "the "alert-info" header contains "info=alert-autoanswer; delay=0" in the outgoing INVITE.
- During an active call, users can see the call info on LCD:
  - The call lasting time
  - Contact information if the number is already saved in phonebook.
  - When dialing DTMF, user can press round Menu button to switch to call info page.
- It is possible to mute the call at dialing stage by composing a number, dialing the call and pressing the mute button before the call is answered.

#### **Making Calls Using IP Addresses**

Direct IP Call allows two phones to talk to each other in an ad-hoc fashion without a SIP proxy. VoIP calls can be made between two phones if:

- · Both phones have public IP addresses; or
- Both phones are on the same LAN/VPN using private or public IP addresses; or
- Both phones can be connected through a router using public or private IP addresses (with necessary port forwarding or DMZ).

To make a direct IP call, please follow the steps below:

- 1. When phone is at idle state, press any number key or \* key to bring up "Onhook Dialing" page;
- 2. Press round MENU key or "DirectIP" softkey
- 3. Input the target IP address (Please see example below);
- 4. Press "Dial" softkey to dial.

Note: When completing direct IP call, "Use Random Port" option should be set to "No".





### For example:

If the target IP address is 192.168.1.60 and the port is 5062 (i.e., 192.168.1.60:5062), input the following: 192\*168\*1\*60#5062. The \* key represents the dot (.), the # key represents colon (:).

When only dialing the IP address (example: 192\*168\*1\*60) the call will automatically go through the default port 5060.



Figure 18: Direct IP Call

# **Answering Phone Calls**

### **Receiving Calls**

□ Single incoming call.

Phone rings with the selected ring tone. The corresponding LINE key will flash in red. Answer call by taking handset off hook, or using Speaker/Headset, or pressing flashing LINE key;

#### Note:

Users can choose when receiving a call to either ring from their headset, ring from both headset and the speaker, or only ring from the speaker. This option can be enabled from the Web GUI under Settings → Preferences → Audio Control and configure "Always Ring Speaker".

■ Multiple incoming calls.

When another call comes in while having an active call, the phone will produce a Call Waiting tone (stutter tone). The other LINE key will flash in red. Answer the incoming call by pressing the flashing LINE key. The current active call will be put on hold automatically.





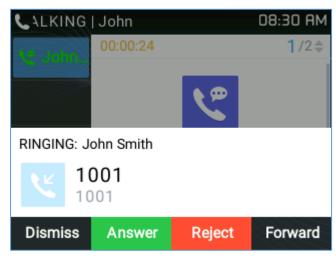


Figure 19: Multiple incoming calls

#### Notes:

- When there is an ongoing call, users can disable incoming call notification pop up. This way users will
  not get disrupted by unexpected popup call but still get notified by the flashing LED. This option can
  be enabled from the Web GUI under Settings → Call Features.
- For further information, please refer to the admin guide.

### □ Ring Group Call

If the phone is member of a Ring Group, when the SIP server receives a call to the Ring Group extension, all the phones will start ringing, once a phone answers the call, a missed call notification will be showing on all the other phones. The GRP261X Series support reason header, which allows the phones not to log a missed call if it is answered elsewhere. The following message will be included in the CANCEL SIP message received by the phone for notifying it that another user answers the call.

Reason: SIP; cause=200;text="Call completed elsewhere"

#### **Do Not Disturb**

Do Not Disturb can be enabled/disabled from phone's LCD by following the steps below:

- 1. Press the Menu button and select "Preference" using navigation keys;
- 2. Press Menu button again to get into Preference options;
- 3. When "Do Not Disturb" is highlighted, press Left/Right key to disable/enable DND;
- 4. Press "Save" softkey to save the change

Users could also enabled/disable DND quickly by pressing the Mute button









Figure 20: Do Not Disturb

#### Notes:

- The mute button function can be set also to idle Mute, or be disabled under the web GUI option Settings → Call features → Mute Key Function While Idle.
- During an active call, press the MUTE button to mute/unmute the microphone. The LCD will show the Mute icon on the top of screen, when the call is muted.

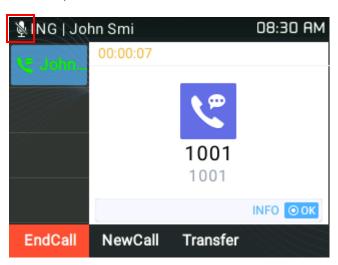


Figure 21: Call Muted

 Black/White listing: If the contact number belongs to Blacklist group, the call from that number will always be blocked. If the contact number belongs to Whitelist group, the call will be allowed even in DND mode.

This can be configured from the web GUI, under "**Directory** → **Contacts**" by adding a user into either the "Blacklist" or "whitelist" group as shown below:





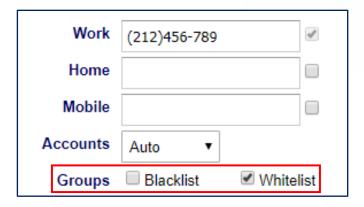


Figure 22: Black/White List from Web GUI

Or from the phone's LCD under **Menu > Contacts > Local Phonebook** as shown below:

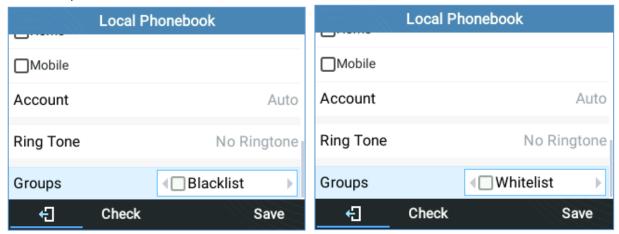


Figure 23: Black/White List from LCD

## **Call Hold**

Place a call on hold by pressing the HOLD button . The active LINE key will blink in green.

### Notes:

- If "On Hold Reminder Tone" is Enabled under web GUI "Account X→ Call Settings then a reminder tone will be played to notify the user that he has a call on hold.
- Resume. Resume call by pressing the blinking LINE key.
- **Multiple calls**. Automatically place active call on hold or switch between calls by pressing the LINE key. Call waiting tone (stutter tone) will be audible on new incoming call during the active call.
- Call hold duration. The phone will show the call hold duration as shown on figure below. The hold duration will be displayed only if there are two calls on hold or more and user can use the up/down arrows to check the hold duration of each call.





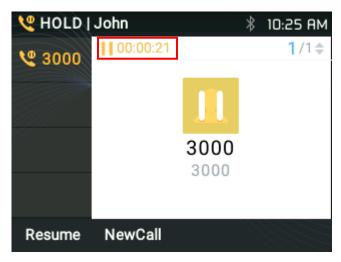


Figure 24: On hold duration

### **Call Transfer**

GRP261X series support Blind Transfer and Attended Transfer. This feature can be disabled from the web GUI menu under "Settings -> Call features -> Disable Transfer".

#### □ Blind Transfer:

- 1. During the first active call, press TRANSFER and dial the number to transfer to;
- 2. Press SEND key or # to complete transfer of active call.

#### ☐ Attended Transfer:

- When set to "Static"
- 1. During the first active call, open a new LINE

The first call will be automatically put on hold

- 2. Enter the number for the second call in the new line and establish the call;
- 3. Press TRANSFER;
- 4. Press the other LINE key, which is on hold to transfer the call.
- When set to "Dynamic"
- 1. During the first active call, press TRANSFER.
- 2. A new line will be brought up and the first call will be automatically placed on hold;
- 3. Dial the number and press "AttTrnf" soft key to make a second call.
- **4.** Press TRANSFER again. The call will be transferred.







Figure 25: Dynamic Attended Transfer

#### Note:

 When attended transfer is initiated during the transfer process, after dialing out the number for the second call. If the second call is not established yet (ringing), pressing "Cancel" will hang up the second call. If the second call is established (answered), pressing "Split" will resume the second call and keep the first call on hold.

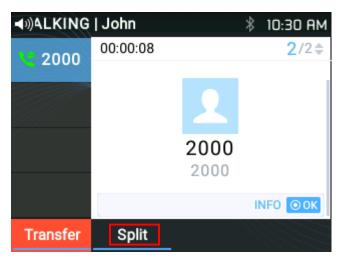


Figure 26: "Split" softkey

Clicking the Red highlighted "Transfer" Key would force a Blind Transfer.

### **Target Selection**

Using the target selection feature, users can use the following function:

- 1) Add a new softkey "Target" under transfer/conference LCD action screen.
- When click on the softkey, it will take user to a target selection page in which user can choose other
  possible transfer/conference targets (e.g. Local/BS Phonebook, Local/BS Call Logs, LDAP...)
- 3) When accessing Local/BS Phonebook and Local/BS Call History page, the softkey will show limited options (e.g. Dial) if the phone is under busy state to make it easier for users to perform the dialing task.





- 4) When accessing Smart VPK List, the phone will display the list of the VPK targets which are allowed to be used as the transfer/conference target based on the current account.
- 5) When accessing Line, the phone will list the lines which are available for transfer/conference.

### **Example:**

Under Transfer screen:

A new softkey "Target" is added under transfer/conference action page.

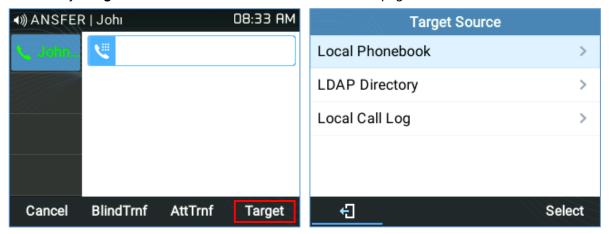


Figure 27: "Target" softkey under Transfer Action Page

Users can use navigation keys to select a target from the list and use Menu button or "**Select**" softkey to dial out. By selecting Local/Broadsoft Phonebook, Local/Broadsoft Call Log or LDAP Directory, LCD will display the according screen page with limited options (e.g. Dial) to make it easier for users to perform the dialing task.

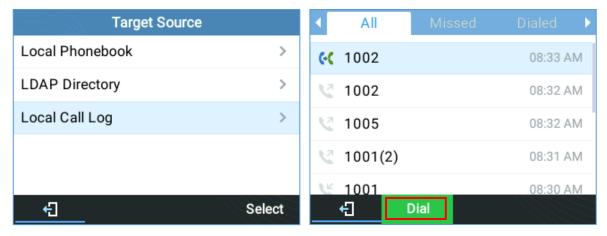


Figure 28: Target - Local Call Log Page

#### **Transfer Information:**

The phone displays Transfer information so users can see who transferred the call...







Figure 29: Transfer from Information While Ringing and During Incoming Call

### **Conference Call**

### 3-way conferencing

GRP2612/GRP2612P/GRP2613W/GRP2613/GRP2614/GRP2615/GRP2616 can host a 3-way conference call with other parties (PCMU/PCMA). Users can disable/enable conference call feature from the phone's web GUI under menu **Settings**  $\rightarrow$  **Call features**  $\rightarrow$  **Disable Conference**.

#### ☐ Initiate a conference call:

- 1. Establish calls with 1 or 2 parties respectively;
- 2. While 1 call is active, the other call will be put on hold with its LINE key blinking in green;
- 3. Press CONF key;
- On the **GRP2613**: Click on "**ConfCall**" SoftKey
- 4. The conference will be established after pressing the desired LINE key on hold;
- On the GRP2613: Press the "UP arrow" key. Then, click on "ConfCall" SoftKey.

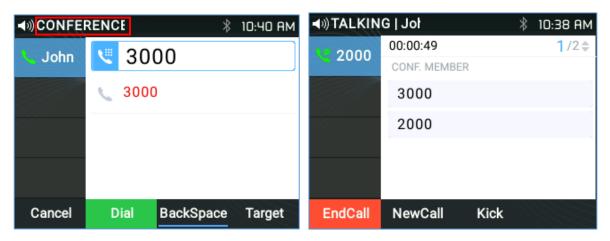


Figure 30: Established Conference





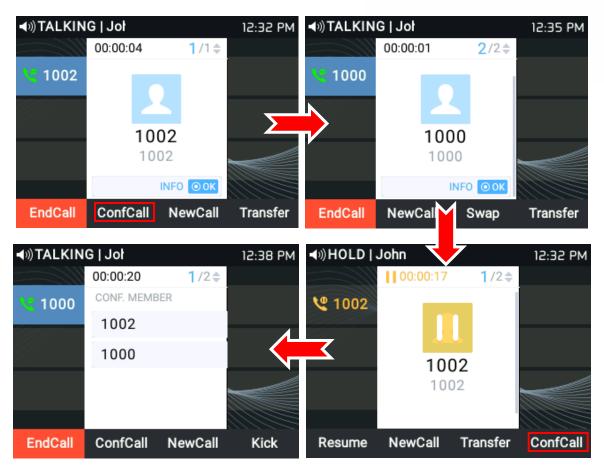


Figure 31: Establish a Conference Call on the GRP2613

NOTE: Users may click the "Swap" Softkey to toggle between active calls.

#### □ Cancel Conference:

- If after pressing the CONF key, the user decides to cancel the conference, press "Cancel" softkey
  or the current active LINE key (LED in solid green);
- 2. This will resume the 2-way conversation with the current line.

### ☐ Kick:

Users can remove an extension from the ongoing conference by pressing "Kick" soft key, specifying which extension/number to be kicked out then clicking on "Submit" soft key.

### □ Split and Re-conference:

- During the conference, press HOLD key. The conference call will be split, and the calls will be put on hold separately with the LINE keys blinking in green;
- 2. Press a LINE key to resume the 2-way conversation;





3. If users would like to re-establish conference call. Press the "ReConf" softkey right after the conference call is split

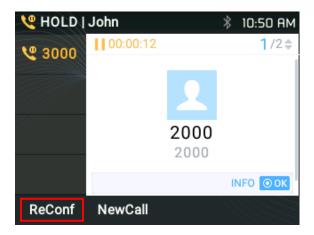


Figure 32: Split conference

### □ End Conference:

- Press HOLD key to split the conference call. The conference call will be ended with both calls on hold; Or
- 2. Users could press the "EndCall" softkey or simply hang up to terminate the conference call.

### **Easy Conference Mode**

GRP2612/GRP2612P/GRP2612W/GRP2613/GRP2614/GRP2615/GRP2616 supports **Easy Conference Mode**, which can be used combined with the traditional way to establish the conference.

### ☐ Initiate a conference call.

- 1. Establish 1 call;
- 2. Press CONF key and a new line will be brought up using the same account;
- 3. Dial the number and press SEND key to establish the second call;
- 4. Press CONF key or press the "ConfCall" softkey to establish the conference.

### Split and Re-conference.

- 1. During the conference, press HOLD key. The conference call will be split and both calls will be put on hold separately with 2 LINE keys blinking in green;
- 2. Press a LINE key to resume the 2-way conversation;
- 3. If users would like to re-establish conference call, before 1 separate LINE is selected, press the "ReConf" softkey right after the conference call is split.





#### □ Cancel Conference.

- 1. If user decides to cancel the conference after establishing the second call, press "EndCall" softkey instead of the "ConfCall" softkey/CONF key;
- 2. This will end the second call and the screen will show the first call on hold.

#### □ End Conference.

- Press HOLD key to split the conference call. The conference call will be ended with both calls on hold; Or
- 2. Users could press the "EndCall" softkey or simply hang up to terminate the conference call.

#### Notes:

- The party that starts the conference call must remain in the conference for its entire duration, you can put the party on mute, but it must remain in the conversation. In addition, this is not applicable when the feature "Transfer on Conference Hang-up" is turned on. Under Web GUI → Accounts → AccountX → Call settings
- The option "Disable Conference" must be set to "No" **Web UI → Settings → Call Features** to establish a conference call.
- Users can limit the ability for the phone to cross conferencing different accounts. This option can be found under device web UI → Settings → Call Features.

For more information, please refer to admin guide.

http://www.grandstream.com/sites/default/files/Resources/GRP261X administration guide.pdf

### **UCM Conference**

#### **Participate in UCM Conference Room**

Users could dial the UCM conference room extension to join the conference. If password is required, enter the password to join the conference either as a normal user, or as an administrator.



Figure 33: Join UCM Conference





• Follow the Interactive Voice Response (IVR) instructions.

### **Conference Call Menu (CCM)**

During a UCM conference, only conference Administrators can press on the **ConfRoom** softkey to view/invite members, bridge conference, remove bridge, mute, unmute and lock the conference.



Figure 34: List of Conference Room Users

### **Conference Call Operations**

#### Invite User:

Press the **Invite** softkey, specify the target extension number then click **OK**. The phone will note the operation by displaying [**Join User\_Extension**] on the conference home screen.

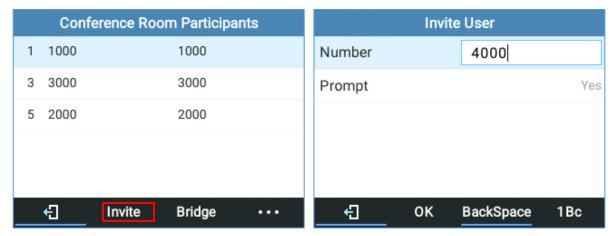


Figure 35: UCM Conference Menu - Invite User

### Kick User:

Select the user's extension then press **Kick.** The phone will note the operation by displaying [**Exit User\_Extension**] on the conference home screen. Then the user won't be available among the Conference Room Participants List.





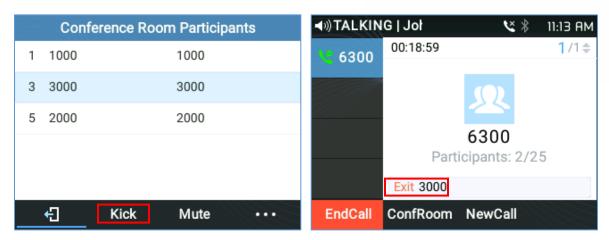


Figure 36: UCM Conference room - Kick user

#### Mute/Unmute User:

Select the user's extension then press **Mute.** The phone will note the operation by displaying [**Exit User\_Extension**] on the conference home screen. But the user will still be available on the Conference Room Participants List.

An **Unmute** softkey will show to cancel the operation.

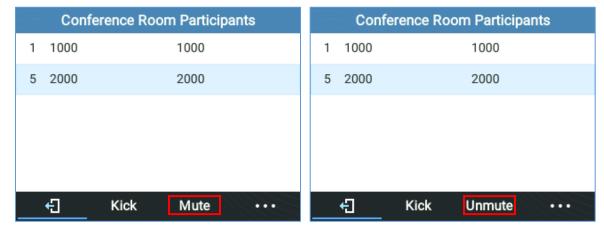


Figure 37: UCM Conference room - Mute/ Unmute user

### • Conference Bridge:

To bridge another conference, enter the conference number and password and Bridge request will be sent.





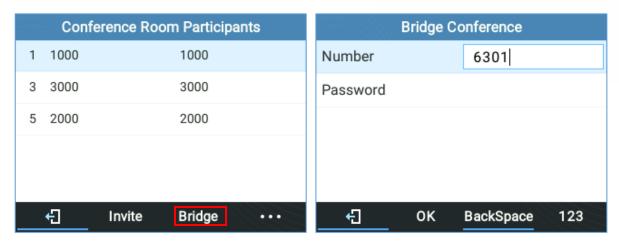


Figure 38: UCM Conference Menu - Bridge Conference

#### More:

Press [...] for more conference room operations. Users can choose to **Lock/ Unlock** the conference, **Kick All** or **Mute/ Unmute All** participants.

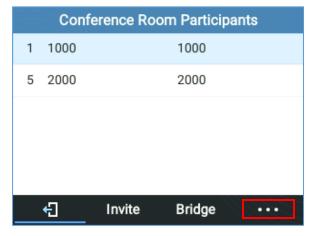


Figure 39 : UCM Conference Menu - More

# **Call Forwarding**

Under Menu (OK) → Phone → Call Features → Account X.

When disabled the LCD screen will look like the following figure:





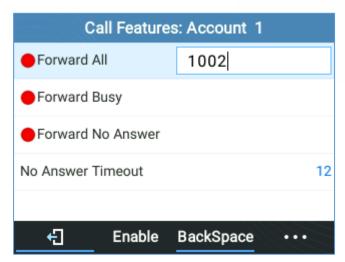


Figure 40: Disabled Call Forward

• When the feature is enabled, the phone's LCD screen will show the following figure.

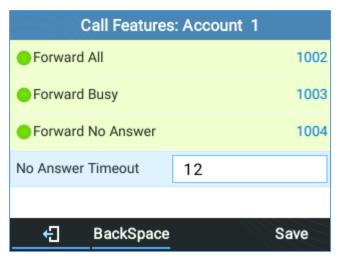


Figure 41: Enable Call Forward

• When forwarding a call, the recipient will display a "diverted from" message.

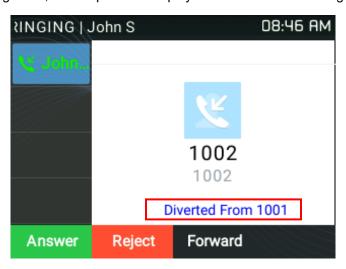


Figure 42: Diversion Information





A Call Forward using BLF can also be performed by pressing the BLF key set on VPK/MPK as
forward destination. You only need to Subscribe to a valid BLF and press Forward Key then the
BLF key to perform the call forward.

#### Voice Mail

A blinking red MWI (Message Waiting Indicator) on the top right corner of the phone indicates a message is waiting. Check the voicemail box to retrieve the message by entering the voice mail number of the server; Or by pressing the Voicemail button; or from the Phone's **Menu > Messages > Voice Mails** 

#### Notes:

- Voice Mail User ID and the voice mail number must be properly configured:
   under Web GUI→Account X→General Settings.
- An IVR will prompt the user through the process of message retrieval.

#### **Virtual Voice Mail**

With this feature, phone downloads the voicemail into a .wav file and stores it. Users don't have to dial feature codes and go to the BroadSoft server to listen to their voice mails. Also, they can pause/resume their voicemail messages at any time they want.

For more information, please refer to admin guide.

http://www.grandstream.com/sites/default/files/Resources/GRP261X administration guide.pdf

### **Instant Messages**

The GRP2612/GRP2612P/GRP2612W/GRP2613/GRP2614/GRP2615/GRP2616 allows users to send instant messages through the phone's LCD. Under **MENU (OK)**  $\rightarrow$  **Messages**  $\rightarrow$  **Instant Messages** 

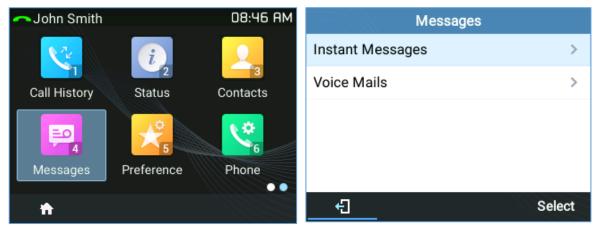


Figure 43: Instant Messages sub-menu

Users can press "New" soft key, then specify the Account, the recipient and the contents of the IM.





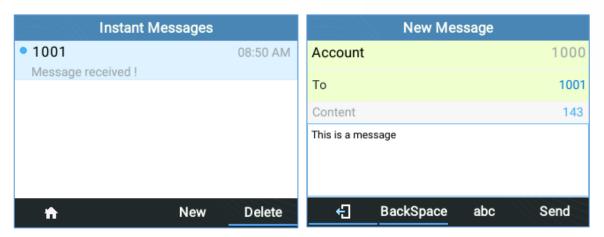


Figure 44: Sending an Instant Message

After pressing "Send" soft key, a "Sent successfully" message will pop up to indicate that the operation was successful.

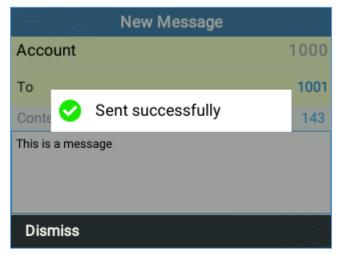
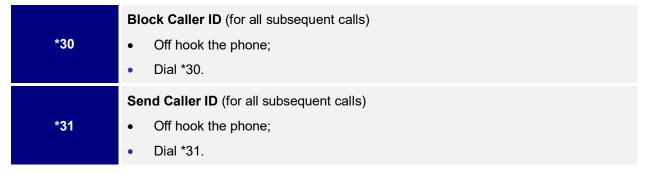


Figure 45: IM Sent Successfully

#### **Call Features**

The GRP261X supports traditional and advanced telephony features including caller ID, caller ID with caller Name, call forward etc.

**Table 13: Call Features** 







*50	<ul> <li>Disable Call Waiting</li> <li>Off hook the phone;</li> <li>Dial *50.</li> </ul>
*51	<ul> <li>Enable Call Waiting</li> <li>Off hook the phone;</li> <li>Dial *51.</li> </ul>
*67	<ul> <li>Call with Caller ID Blocked (per call)</li> <li>Off hook the phone;</li> <li>Dial *67 and then enter the number to dial out.</li> </ul>
*82	<ul> <li>Call with Caller ID Enabled (per call)</li> <li>Off hook the phone;</li> <li>Dial *82 and then enter the number to dial out.</li> </ul>
*70	<ul> <li>Call with Call Waiting Disable (per call)</li> <li>Off hook the phone;</li> <li>Dial *70 and then enter the number to dial out.</li> </ul>
*71	<ul> <li>Call with Call Waiting Enabled (per call)</li> <li>Off hook the phone;</li> <li>Dial *71 and then enter the number to dial out.</li> </ul>
*72	Unconditional Call Forward.  To set up unconditional call forward:  Off hook the phone;  Dial *72 and then enter the number to forward the call;  Press OK softkey or SEND key.
*73	<ul> <li>Cancel Unconditional Call Forward. To cancel the unconditional call forward:</li> <li>Off hook the phone;</li> <li>Dial *73;</li> <li>Hang up the call.</li> </ul>
*90	<ul> <li>Busy Call Forward. To set up busy call forward:</li> <li>Off hook the phone;</li> <li>Dial *90 and then enter the number to forward the call;</li> <li>Press OK softkey or SEND key.</li> </ul>





*91	<ul> <li>Cancel Busy Call Forward. To cancel the busy call forward:</li> <li>Off hook the phone;</li> <li>Dial *91;</li> <li>Hang up the call.</li> </ul>
*92	<ul> <li>Delayed Call Forward. To set up delayed call forward:</li> <li>Off hook the phone;</li> <li>Dial *92 and then enter the number to forward the call;</li> <li>Press OK softkey or SEND key.</li> </ul>
*93	<ul> <li>Cancel Delayed Call Forward. To cancel the delayed call forward:</li> <li>Off hook the phone;</li> <li>Dial *93;</li> <li>Hang up the call.</li> </ul>

### User may proceed as below:

- 1. Dial Star key (\*): A list of all available feature codes will be displayed on the screen
- 2. Browse the codes using the UP/Down arrow keys
- 3. Select an option by pressing the MENU key; Or, Click "Dial" Softkey.



Figure 46 : Feature Codes List





# ADVANCED FEATURES

# **Virtual Multi-Purpose Keys**

### Web UI Configuration

Users can find Virtual Multi-Purpose Keys (VPK) configuration under phone's web UI→Settings→Programmable Keys→Virtual Multi-Purpose Keys tab. It is recommended to select "Reset" on this page before configuring VPK here. By default, all fixed VPKs are listed.



Figure 47: VPK Page

Click on "**Edit VPK**" for the line (fixed VPK) you would like to configure. A new window will pop up for VPK configuration. Users can configure Mode, Account, Description and Value for the VPK. Up to 33 mode options can be selected for the VPK. Once done, press "**Save**" on this window and press "**Save VPK**" on the bottom of the Virtual Multi-Purpose Keys page again to apply the changes.

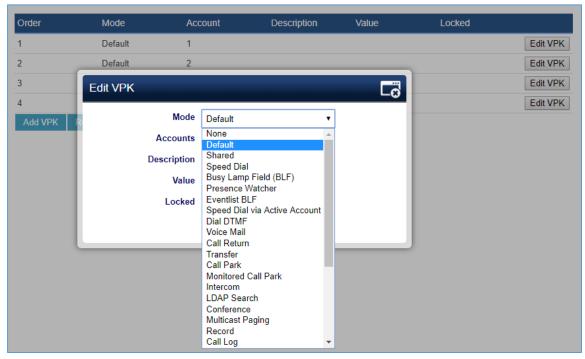


Figure 48: Edit VPK - Fixed VPK





If users would like to configure more VPKs than the ones displayed on the page, they can click on "**Add VPK**" to configure dynamic VPK. The dynamic VPK supports up to 30 mode options.

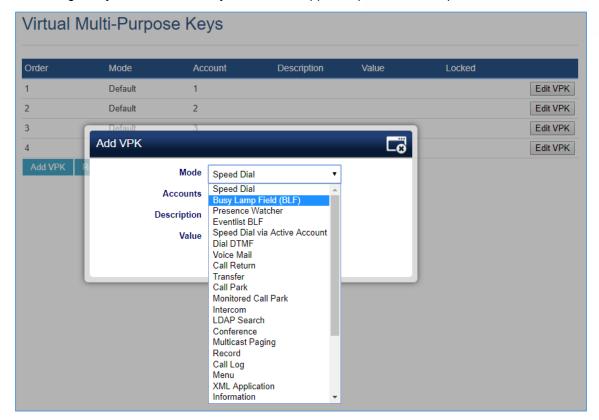


Figure 49: Edit VPK - Dynamic VPK

#### Please note:

- **1.** Dynamic VPK does not support "Default" and "Shared" mode. These two mode options are only available for fixed VPKs.
- 2. Dynamic VPK does not support NONE mode. If users do not need this VPK, click on "Edit VPK" for it and select "Delete" to remove it..
- **3.** All settings require user to click on "Save" on the prompted window and "Save VPK" button on the bottom of Virtual Multi-Purpose Keys page to take effect.
- **4.** It's recommended to have at least two lines in **Default** mode, to be able to bring up another line during a call and perform whether a call pickup, an attended transfer or a conference call.

### P-Value for VPK Mode in String Format:

Table 14: VPK Modes in String Format

Mode Name	Mode String	Mode P-Value
None	None	-1
Default	Line	31
Shared	Shared line	32
Speed Dial	Speed dial	0
Busy Lamp Field	BLF	1





Presence Watcher	presencewatcher	2
Eventlist BLF	eventlistblf	3
Speed Dial via Active Account	speeddialaa	4
Dial DTMF	dialdtmf	5
Voice Mail	voicemail	6
Call Return	callreturn	7
Transfer	transfer	8
Call Park	callpark	9
Monitored Call Park	Monitoredcp	16
Intercom	Intercom	10
LDAP search	Ldap Search	11
Conference	Conference	12
Multicast Paging	Multicast paging	13
Record	Record	14
Call Log	Call log	15
Menu	Menu	17
XML Application	Xmlapp	18
Information	Information	19
Message	message	20
Forward	forward	21
DND	DND	22
Redial	redial	23
Instant Messages	instant messages	24
Multicast Listen Address	multicast listen address	25
Keypad Lock	keypad lock	26
GDS OpenDoor	gds opendoor	27
Presence EventList	presence eventList	28
Provision	provision	29

The string could be capital or lower-case letters, but there must be no "space" in between. For example, in the cfg.xml, "Transfer" or "transfer" is the same as "8", it will configure Virtual Multi-Purpose Key 3 as transfer mode.





Figure 50: Line Key as Transfer Mode

#### **LCD Indication and Configuration:**

The configured fixed VPKs are displayed next to the corresponding line. If dynamic VPKs are configured, the users can see a page number shown on the bottom left corner of the LCD.

The following figures show page 1 and page 2 of the VPKs on LCD. Pressing "RIGHT" arrow key will switch to the next page; pressing "LEFT" arrow key will switch back to the previous page.



Figure 51: VPK - LCD Indication

The users could also edit and add VPK from LCD.

- 1. To edit (fixed) VPK, press and hold the line key for about 4 seconds, a configuration window will pop up for the user to configure.
- 2. To add (dynamic) VPK, press and hold the RIGHT arrow key for about 4 seconds, a configuration window will pop up for the user to configure.

Up to 33 modes can be supported on fixed VPK and up to 30 modes can be supported on dynamic VPK. Each mode is indicated by a different icon on the LCD and the icon will be different when in different status. Please find the icon indications below for different mode of VPK:





**Table 15: VPK Modes Icon Indications** 

VPK Mode	Description	Default	Reverse
LINE	Unregistered	4	
	Registered	_	
	Call Forward	٧.	
	Dial_1_open_voicemail	<b>~</b>	
	Dial_2_open_voicemail	~	
	Account_1_open_voicemail	<u></u>	
	Account_2_open_voicemail	~~	
SCA	Connect	8	8
	Hold	<u>\$</u>	<u>\$</u>
	Idle	5	5
	Ringing	2	2
	Seized	2	
	Error	£0	€0
	Invalid	27	27
	Unknown	20	20
BLF	Away	26	20
	Available	1	1
	Unavailable	2	1
	Busy	1	1
	Chat	<u> </u>	2,
	Connect	₹.	<b>.</b> ₹e
	DND	2	26
	Ringing	<b>%</b>	<b>₽</b>

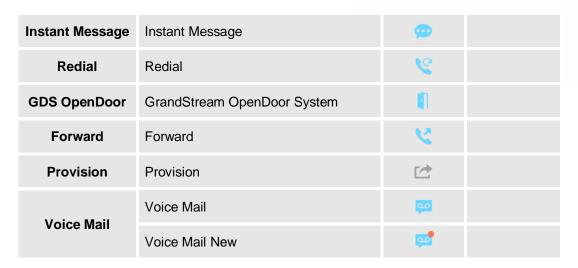




	Unknown	20	20
	User def	<b>.2</b> <sub>R</sub>	2, 2,
Speed Dial	Speed Dial	٧	
Dial DTMF	Dial DTMF	<b>U</b>	
Call Return	Call Return	6	
Transfer	Call transfer	60	
Call Park	Call Park	<b>U</b> E	
	Call Park Busy	<b>U</b> P	ષ
	Call Park Online	ષ્	٧
	Call Park Offline	C.	٣
Intercom	Intercom	<b>a</b>	
	Multicast Intercom		
	Paging Call	韫	
LDAP Search	LDAP Search	mon,	
Multicast Paging	Multicast Listen Address	<b>.</b>	
Record	Recording	•	
Menu	Menu		
Message	Message	<del>-</del>	
Conference	Conference	11	
Information	Information	0	
Keypad Lock	Keypad Lock	<b>₽</b>	
DND	Do Not Disturb		
XML	XML	<b></b>	
Phonebook	Phonebook	1	
Call History	Call History	<u> </u>	







When the user is in call screen (during a call), he can press Right/Left arrow key to toggle between screens and choose which VPK to use.

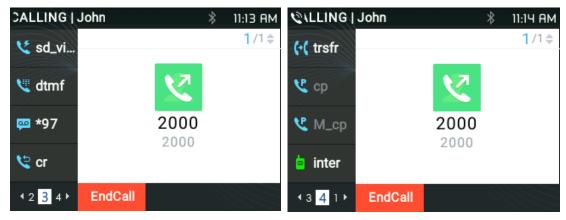


Figure 52: toggle between screens in call screen

#### Notes:

- If a call is parked via VPK call park, the display on the VPK will change between CID of the active call and the parking number.
- When changing the VPK information that requires subscription, the phone will perform unsubscribe
  first, then perform a new subscription. This way server will know that previous subscription has
  been void.

# **Predictive Dialing**

#### **Search in Call History**

# **Functionality**

If the user dials digits matching some call history entries, a list of entries should be displayed with corresponding names.





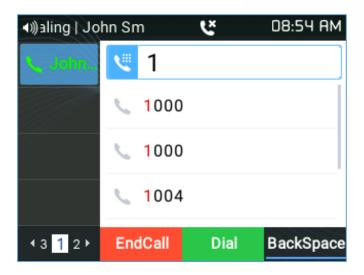


Figure 53: Predictive Dialing

# Note:

Users can Disable the Predictive Dialing Feature from Web GUI under **Settings** → **Call Features**.

#### **Search in Broadsoft Directories**

# Web configuration

Users can configure Broadsoft XSI directories correctly from Web GUI under **Settings**  $\rightarrow$  **Broadsoft**  $\rightarrow$  **Broadsoft Directories**.





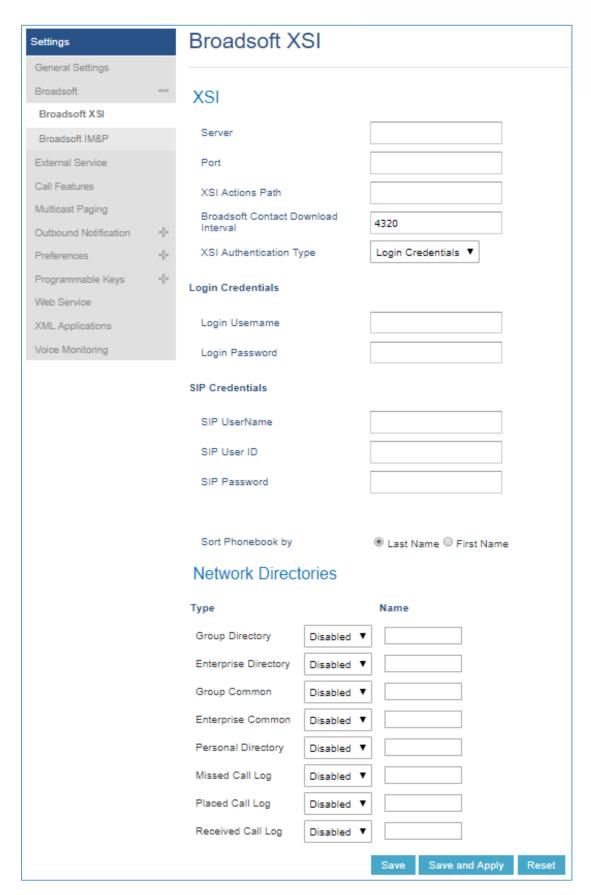


Figure 54: Broadsoft XSI web configuration





## **Functionality**

Phone can predict possible contacts information from Broadsoft XSI directories when users dials a number. Users can select from the list of predicted numbers that will show if Broadsoft XSI directory information is loaded after pressing the related number



Figure 55: Predictive Dialing from BS XSI Directories

# **VPK Paging Support inside the LCD Call Screen**

Users can use their preconfigured VPK mode while in call screen. Such as Speed Dial, BLF..., as shown in the figure below:

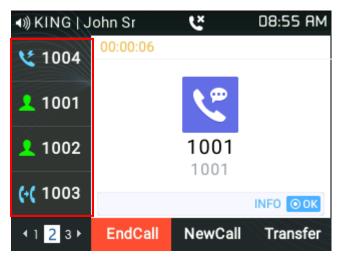


Figure 56: VPK Paging

# **Active VPK Page**

If "Active VPK page" is enabled, when a monitored BLF number is called, the LCD screen will indicate the VPK Page that contains the VPK key as below







Figure 57: Active VPK Page

You can see the page number blinking in red, which means that this page is an active VPK page. Users can Enable/Disable this option under device web UI -> Settings -> Call Features

# **Line Switching in Call Screen**

When having two lines (or more) active users will be able to switch between the calls by pressing up/down, arrow keys, this will allow users to manipulate calls through the phones arrow keys as shown below:

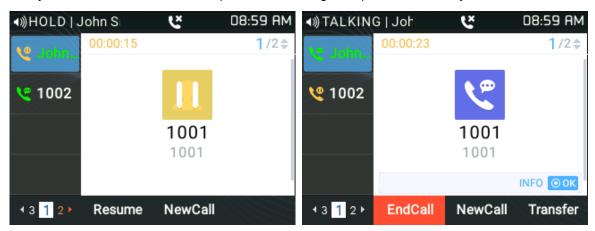


Figure 58: Line Switching

# **Shared Call Appearance (SCA)**

The GRP2612/GRP2612P/GRP2612W/GRP2613/GRP2614/GRP2615/GRP2616 phone supports shared call appearance by Broadsoft standard. This feature allows members of the SCA group to shared SIP lines and provides status monitoring (idle, active, progressing, hold) of the shared line.

To enable shared call appearance, the user needs to register the shared line account on the phone. In addition to configuring the SCA parameters under **Settings** → **Programmable Keys** on the web UI and setting the line key mode as "Shared Line".

For more information please refer to the SCA guide:

http://www.grandstream.com/sites/default/files/Resources/SCA\_guide.pdf





# **Configuring Eventlist BLF**

Grandstream GRP261X Carrier-Grade IP Phones support both Grandstream UCM Busy Lamp Filed and Event List BLF features and allows end users, such as attendant, to monitor the call status of users in the list. GRP261X supports this feature by sending out the subscription request to the UCM and changing the indicator status of the Line keys, MPKs, or virtual MPKs that associated with the monitored users.

Additionally, the phone is also able to display the original caller's call ID and to pick up the calls to the monitored extensions by using a pre-defined feature code called BLF- Call-pickup Prefix.

For more details on Eventlist BLF configuration guide, please refer to:

http://www.grandstream.com/sites/default/files/Resources/GRP261X\_Eventlist\_BLF\_Guide.pdf

#### **Screenshots**

Users can take screenshots of the GRP261X Screen, by pressing and holding the "**HOLD**" key and then the "**MENU**" key, the output will be shown on the phone's Web GUI under "Status → System Info" as shown in the figure below:

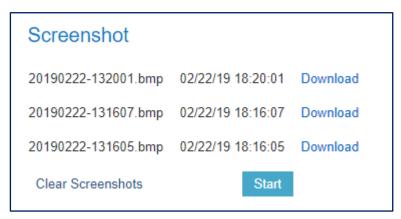


Figure 59: Screenshots

- Users can "Download" then view the screenshot.
- Users can clear the available Screenshots by pressing "Start"

## **Diagnosis**

Users could access factory functions menu in order to diagnosis the phone's hardware/software. To do so please access to LCD menu under  $System \rightarrow Factory Functions$  or use the shortcut by pressing the "HOLD" Key and the "Up-arrow" key at the same time.





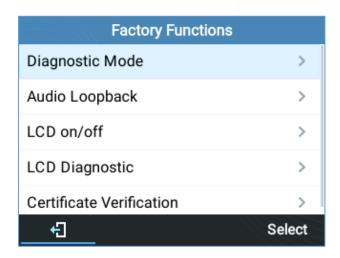


Figure 60: Factory Functions

These tools can be used to check the hardware and software status of the phone like verifying the LED, keypad buttons, LCD and certificates verification ...etc.





# **CONTACTS**

#### **Local Contacts**

The local contacts can save up to 1000 entries. Users can manage contacts by adding, deleting and modifying single contacts, downloading contacts from HTTP/TFTP server, importing contacts from external storage and exporting contacts to external storage.

For more details please refer to the admin Guide:

http://www.grandstream.com/sites/default/files/Resources/GRP261X administration guide.pdf

# **Add a single Contact**

On the Local Contacts menu, select Local Phonebook then press "New" soft key. The phone will display the following:

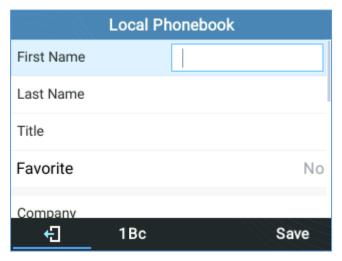


Figure 61: New contact

Input the contact details then press "Save" soft key. The new contact will be added to your local phonebook.

#### **Phonebook**

# XML Phonebook syntax

User can add contacts using the below syntax in phonebook.xml file:

```
<AddressBook>
<Contact>
<id>1</id>
<firstName>abc</FirstName>
<LastName>def</LastName>
<JobTitle>jobtitle</JobTitle>
<Frequent>0</Frequent>
<Phone type="Work">
<phonenumber>1111</phonenumber>
```





```
<accountindex>0</accountindex>
</Phone>
<Phone type="Home">
<phonenumber>2222</phonenumber>
<accountindex>0</accountindex>
</Phone>
<Phone type="Mobile">
<phonenumber>3333</phonenumber>
<accountindex>0</accountindex>
</Phone>
<Primary>1</Primary>
<Department>department
<Job>job</Job>
<Title>title</Title>
<Company>company</Company>
</Contact>
</AddressBook>
```

#### Download/Upload XML Phonebook from Web UI

From the phone's web interface under Directory  $\rightarrow$  Phonebook Management, Use the button "Download" to retrieve the XML phonebook currently configured on the phone. Press the button "Upload" to choose your XML phonebook to upload to the phone.

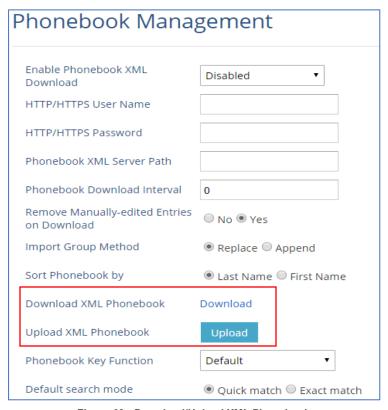


Figure 62 : Download/Upload XML Phonebook





On the LCD screen, under Contacts. The phone will display the following:

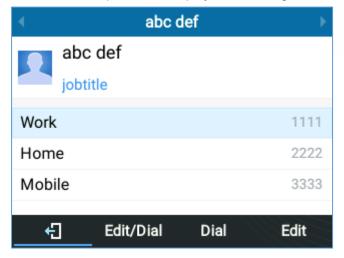


Figure 63: Local Phonebook - Contact Information

User can also input the "Company", "Title", "Job" fields on the phonebook.xml like the previous example or through the phone's LCD by pressing the "Edit" soft key, as below:

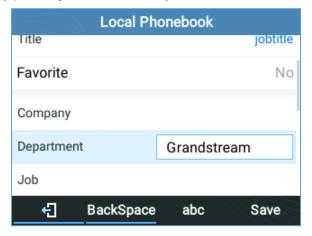


Figure 64: Local Phonebook - Company/Title/Job Fields

#### **Dialed Numbers Filtering**

After downloading phonebook, when dialing a number from the contacts, the number may include special characters such as "()", "- ", or space in between numbers.







Figure 65: Contact Numbers with Special Characters

When pressing Dial softkey, the phone will filter the special characters and make the calls send out properly.



Figure 66: Call with Filtered Characters

# **Contact search mode**

#### **Quick Match**

The quick search feature allows users to search parts and strings of the entries. For instance, if users only remember the first name, last name or parts of the name / phone number, they can use the string in the search bar as displayed on the following screenshots:





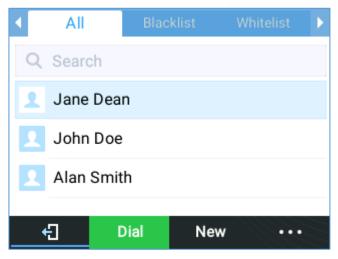


Figure 67: Before Search

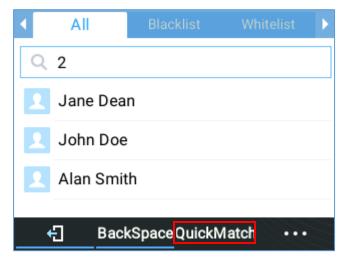


Figure 68: QuickMatch

# **Exact Matching**

Users can search their contacts using alphabets in the exact mode which allows them to find their contacts even if they forget the numbers. To perform this type of search, make sure that search type is set to "ExactMatch" as shown on the following figure, then you can enter the exact name of the contact for lookup.





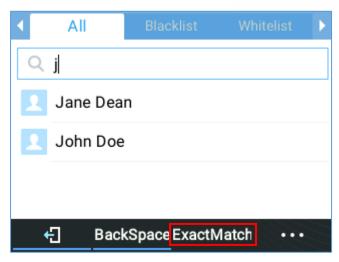


Figure 69: ExactMatch

# **LDAP**

# **Functionality**

Users can search contacts on the LDAP server from Contacts Menu, under LDAP Directory. This option can be configured under device **web UI**  $\rightarrow$  **Phonebook**  $\rightarrow$  **LDAP**. For further information, please refer to the admin guide.

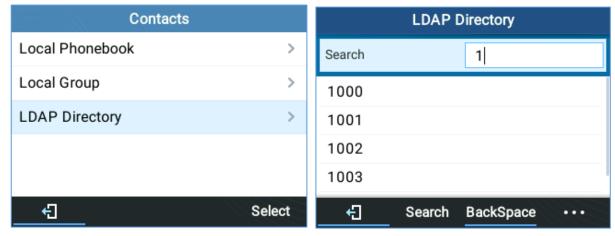


Figure 70: LDAP search

#### **Broadsoft Directories**

#### **Functionality**

Users can also search from the Broadsoft directories by entering target content in the search form. This option can be configured under device **web UI > Settings > Broadsoft.** For further information, please refer to the admin guide.





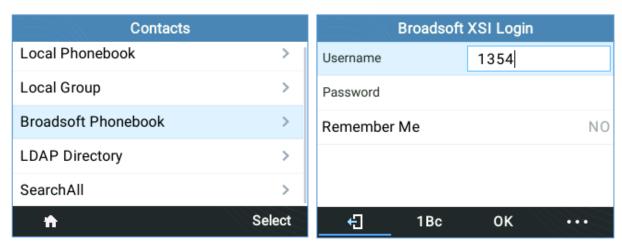


Figure 71: Search in Broadsoft Directories





# **CALL HISTORY**

# **Local Call History**

There are five different categories in the local call history. Users could use the navigation keys to browse call logs:

- All : 🛂
- Missed : 🖔
- Dialed :
- Answered :
- Transferred :

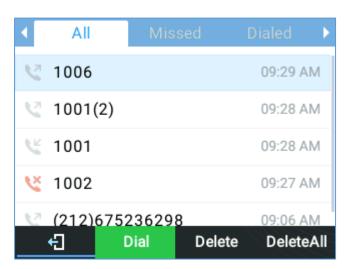


Figure 72: Call History Screen Page

- **Dial**: Tap on one of the call history entry to call this number directly. The phone will use the same account as the call log when dialing out.
- Delete: Select an entry then press "Delete" soft key
- **DeleteAll**: Clear the call history





#### **Missed Calls Indication**

When users miss a call, the GRP261X will show the notification on the LCD screen as shown below:

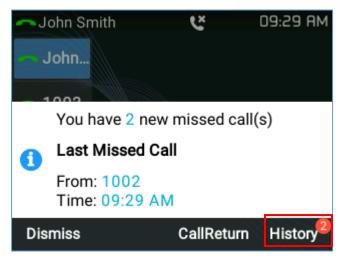


Figure 73: Missed Calls

Users have the option to return the call immediately by clicking the "CallReturn" Softkey.

#### Note:

Users can set the phone to turn off LCD backlight while having a missed call. This option can be found under device web UI  $\rightarrow$  Settings  $\rightarrow$  Preferences  $\rightarrow$  LCD Display  $\rightarrow$  disable missed call backlight. If users want to have missed call notification, select yes, bug flash MWI LED.





# **CONNECTING TO DEVICES**

#### **EHS Headset**

The GRP261X supports normal RJ11 headset and Plantronics EHS headset.

To use Plantronics EHS headset, go to the web GUI→Settings→Audio Control: Headset Type. Select "Plantronics EHS" then reboot the phone.

- 1. Connect EHS Headset (Plantronics) to the phone. Insert headset connector into the RJ11 headset port on the back of GRP261X.
- 2. To use headset mode, press headset button . A headset icon will show on the LCD.

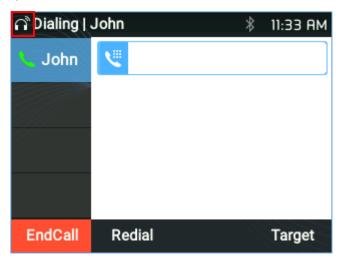


Figure 74: Headset enabled

## Bluetooth (GRP2614, GRP2615 & GRP2616 only)

GRP2614/GRP2615 & GRP2616 is also capable to connect to Bluetooth devices. supporting Bluetooth version 5. Users could connect to cellphones (supporting Bluetooth) via hands free mode or use Bluetooth headset for making calls.

To connect to a Bluetooth device, turn on the Bluetooth radio first. The first time when using a new Bluetooth device with the GRP2614/GRP2615 & GRP2616, "pair" the device with the phone so that both devices know how to connect securely to each other. After that, users could simply connect to a paired device. Bluetooth related settings are under Phone's LCD Menu → System → Bluetooth.





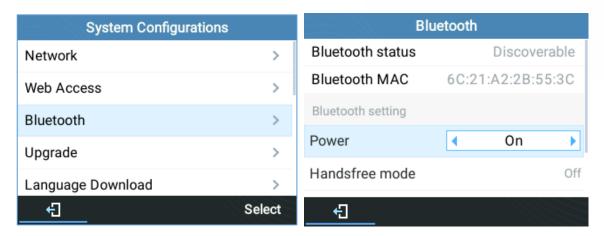


Figure 75: Bluetooth feature

There are two ways to pair the GRP2614/GRP2615/GRP2616 using the Bluetooth feature:

#### ☐ From the GRP2615/GRP2614/GRP2616

1. Select "Start Scan" to search nearby Bluetooth devices

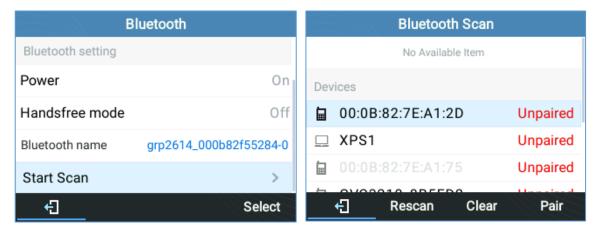


Figure 76: Bluetooth Scan

2. Choose a device then select "Pair". The phone will then start the paring process

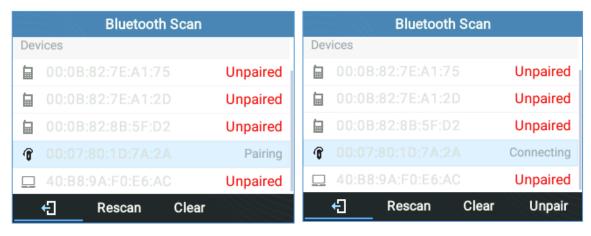


Figure 77: GRP2615/GRP2614/GRP2616 Pairing Process





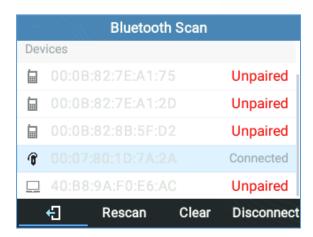


Figure 78: Successful Bluetooth pairing

3. If the pairing succeeds, users will see "Connected" next to the name of the Bluetooth device.

# ☐ From a Bluetooth different device:

1. Make sure the Bluetooth is powered on and shows "Discoverable" under "Bluetooth status"

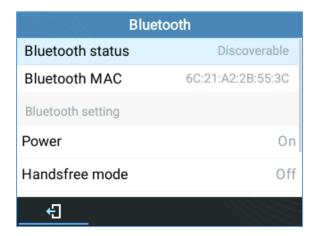


Figure 79: Bluetooth Status

2. Press "YES" to accept the pairing request

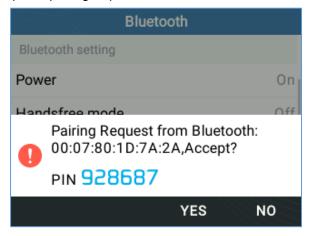


Figure 80: Pairing Request





#### Notes:

- Turn off Bluetooth if it is not used.
- For more details on the Bluetooth features, please refer to:

http://www.grandstream.com/sites/default/files/Resources/GRP261X Bluetooth Guide.pdf

# Wi-Fi (GRP2612W/GRP2614/GRP2615 & GRP2616 only)

To connect the GRP2612W/GRP2614/GRP2615 & GRP2616 to a Wi-Fi Network through the keypad menu. Please follow the below steps:

1. On LCD **MENU**, navigate to **System** → **Wi-Fi settings**.

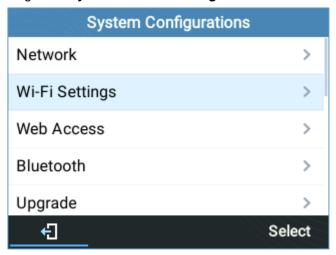


Figure 81: Wi-Fi feature

2. Set Wi-Fi to "Enabled" and press "Save" button.

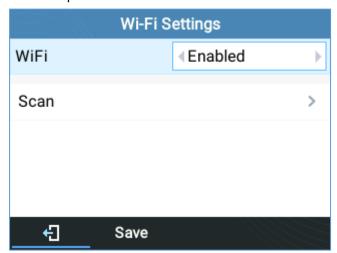


Figure 82; Enable Wi-Fi

3. Select "Scan".

The device will automatically start scanning for Wi-Fi access points within the range





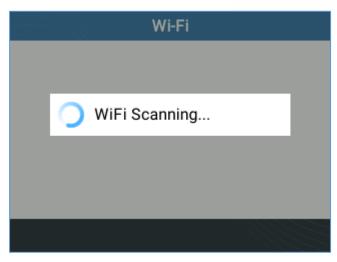


Figure 83: Wi-Fi Scanning

4. A list of available Wi-Fi networks will be displayed. Select the desired network,



Figure 84: Nearby Wi-Fi networks

5. If required, enter the password to connect.

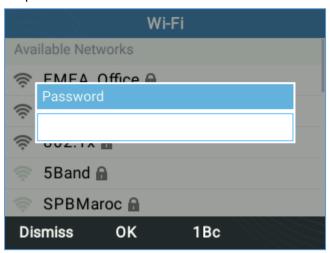


Figure 85: Wi-Fi password required

6. An incorrect password will trigger an error message "Cannot connect to the selected network".





- If the connection is successful a "Wi-Fi NetWork Connected" message will display on screen

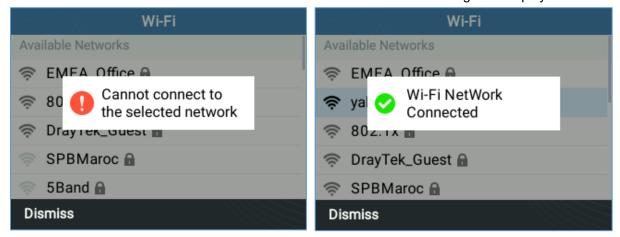


Figure 86: Failed/Successful Wi-Fi connection

7. Check the Wi-Fi icon on idle screen to verify if the Wi-Fi network is properly connected

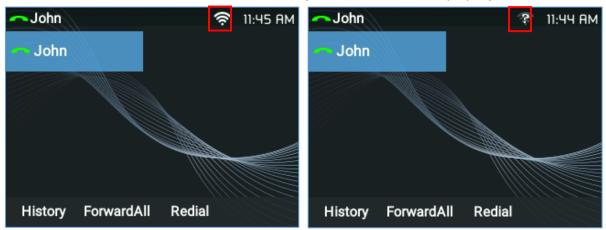


Figure 87: Wi-Fi Status

8. A new section "Current Connection" will show under **System** → **Wi-Fi settings**.

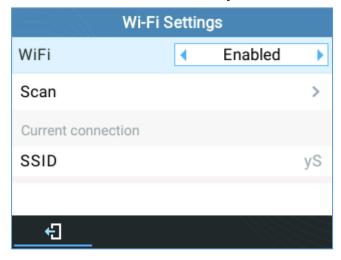


Figure 88 : Current connection

9. Selecting "Scan", Users may choose to "Forget" the current connection and establish a new one.





# RESTORE FACTORY DEFAULT SETTINGS



# **Warning:**

Restoring the Factory Default Settings will delete all configuration information on the phone. Please backup or print all the settings before you restore to the factory default settings. Grandstream is not responsible for restoring lost parameters and cannot connect your device to your VoIP service provider.

# Restore factory settings using LCD menu

Please follow the instructions below to reset the phone:

- 1. Press MENU button to bring up the keypad configuration menu.
- 2. Select "System" and enter.
- 3. Select "Operations Factory Reset".
- **4.** A warning window will pop out to make sure a reset is requested and confirmed.

Press the "Yes" Softkey to confirm and the phone will reboot, or "No" Softkey to cancel the Reset.

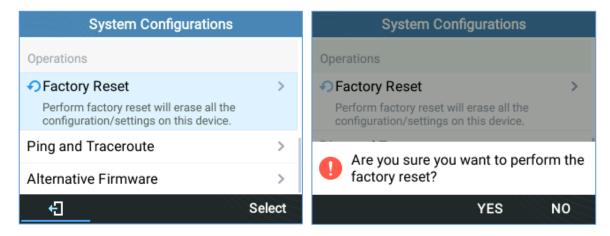


Figure 89: Factory Reset using LCD Menu





# **EXPERIENCING GRP261X**

Please visit our website: <a href="http://www.grandstream.com">http://www.grandstream.com</a> to receive the most up- to-date updates on firmware releases, additional features, FAQs, documentation and news on new products.

We encourage you to browse our <u>product related documentation</u>, <u>FAQs</u> and <u>User and Developer Forum</u> for answers to your general questions. If you have purchased our products through a Grandstream Certified Partner or Reseller, please contact them directly for immediate support.

Our technical support staff is trained and ready to answer all your questions. Contact a technical support member or <u>submit a trouble ticket online</u> to receive in-depth support.

Thank you again for purchasing Grandstream IP phone, it will be sure to bring convenience and color to both your business and personal life.

