

# Grandstream Networks, Inc.

# GXV3275 IP Multimedia Phone for Android<sup>™</sup>

# Wi-Fi User Guide





# GXV3275 Wi-Fi User Guide

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# **INTRODUCTION**

The GXV3275 has integrated Wi-Fi that supports 802.11b/g/n for network flexibility. This User Guide describes how to use the Wi-Fi function to connect the GXV3275 into your local network. To learn more about GXV3275's basic and advanced features, please visit link <u>http://www.grandstream.com/support</u> to download the latest "GXV3275 User Guide" and "GXV3275 Administration Guide".



# **CONNECT TO WI-FI**

Wi-Fi is supported and built-in on the GXV3275. GXV3275 can be connected to network if Wi-Fi is available within the area. By default, Wi-Fi is turned off on the GXV3275. Users can turn on Wi-Fi from web UI, LCD settings->system settings or provisioning.

### **TURN ON/OFF WI-FI**

- To turn on/off Wi-Fi from status bar
- 1. On the top of the LCD screen, slide down the status bar.
- 2. Select System Settings.
- 3. Tap on the Wi-Fi icon 🛜 to turn it on/off.

04/17/2014 THURSDAY					
(: Wi-Fi	<b>Bluetooth</b>		<b>V</b> oice	Screen Off	<b>Enabled</b>
	۰				
Media Ch	nannel: 🔿 3.	5mm Earp	hone O	RJ9 Heads	et
	Speaker O Handset				
Notification System Settings					

Figure 1: Turn On/Off Wi-Fi from Status Bar



### • To turn on/off Wi-Fi from system settings

- 1. On the GXV3275 idle screen, tap on the onscreen **Menu** icon in the bottom of the LCD to bring up the LCD menu.
- 2. Tap on **Settings**
- 3. Tap on Wireless & Network.
- 4. Tap on Wi-Fi turn it on/off.

Wireless & Network	⊾ 🖂 🎟 🛨	\$
Ethernet Settings Configure Ethernet device		
Wi-Fi	I	OFF
Wi-Fi settings Set up & manage wireless access points		
Bluetooth		ON
Bluetooth settings Manage connections, set device name and discoverability		
VPN		
OpenVPN		

### Figure 2: Turn On/Off Wi-Fi from Settings

### • To turn on/off Wi-Fi from web UI

- 1. Log in the GXV3275 web UI.
- 2. Go to Maintenance->Wi-Fi Settings: Wi-Fi Basics.
- 3. Click on "Enable" or "Disable" for "Wi-Fi Function".



	Status	Account	Advanced Settings	Maintenance
🔞 Network Settings				
( Wi-Fi Settings				
🔜 Time Settings			Wi-Fi Basics	
E C			Wi-Fi Function :	Enable Disable
Web/SSH Access			ESSID :	No Selected
🌀 Upgrade				
Syslog				
Logcat				
👼 Language				



### **ADD WI-FI NETWORKS**

- Add Wi-Fi networks from LCD
- 1. Once Wi-Fi is turned on, GXV3275 will automatically start the scanning within the range.
- 2. On GXV3275 idle screen, tap on the onscreen **MENU** icon an the bottom of the LCD.
- 3. Tap on Settings
- 4. Tap on Wireless & Network.
- 5. Tap on **Wi-Fi Settings**.



Wi-Fi settings	⊾ 🖂 🎫 🛨 🗆	🕱 12:21 PM
LA_Lab Saved, secured with WPA2		
AdminIT Secured with WPA/WPA2		
LA_Guest Secured with WPA2 (WPS available)		
chow 2G Not in range		

### Figure 4: GXV3275 Wi-Fi Settings

6. A list of Wi-Fi networks will be displayed as scanning result. Tap on the SSID and enter the correct password information to connect to the selected Wi-Fi network.

Saving screenshot			
AdminIT Secured with WPA/W	PA2		(î;
LA_Lab Secured with WPA2 (	LA_Guest		ŝ
LA_Guest Secured with WPA2 (	Signal strength	Good	(î;
chow 2G Not in range	Security	WPA2 PSK	
	Password	•••••	
		Show paseword	
	Cancel	Connect	

Figure 5: GXV3275 Connect to Wi-Fi



- 7. The phone will start connecting to the Wi-Fi. The status bar will show Wi-Fi signal strength.
- 8. Once authenticated, the phone will obtain IP address via DHCP and connect to the Wi-Fi network.
- 9. After successfully connected, the password will be remembered. When the GXV3275 has Wi-Fi turned on in the future, it will connect to this network automatically if the SSID is within the range.

### • Add Wi-Fi networks from web UI

- 1. Log in the GXV3275 web UI.
- 2. Go to Maintenance->Wi-Fi Settings. Click on "Enable" for "Wi-Fi Function".
- 3. Click on "Scan" to start searching for the Wi-Fi networks within the area. A list of available ESSIDs will be displayed.
- 4. Select the ESSID and click on "Select". The ESSID will be filled into the "ESSID" field under "Wi-Fi security".
- 5. Enter the password for the ESSID.
- 6. Save the change.
- 7. The phone will start connecting to the Wi-Fi network. Please check the phone's LCD.

	Status	Account	Advanced Settings	Maintenance	
🔞 Network Settings					
( Wi-Fi Settings					
🐻 Time Settings		V	/i-Fi Basics		
Wah/SSH Access			Wi-Fi Function :	• Enable O Disable	
in co/son Access			ESSID :	uGh	
🍥 Upgrade				GuGh(99)	Scan
Syslog				11FX06032347(59)	Select
Logcat					
Debug					
👼 Language					
🔜 TR-069		Wi	Fi Security		
<b>.</b>			ESSID :	uGh	
Contacts			Password :	••••••	
DAP Book					
🚱 Device Manager				Save	

Figure 6: GXV3275 Connect to Wi-Fi via Web UI



### **CONFIGURING WI-FI FROM PROVISIONING**

Users could configure the P value in the config file to provision the phone to connect to Wi-Fi network. The following are the P values for Wi-Fi configuration.

Option	P Value	Example	
Wi-Fi Function	P7800	P7800=0 - for "Enable" or P7800=1 - for "Disable" (default value)	
ESSID	P7812	P7812=OfficeWiFi1	
Password	P7830	P7830=officewifinetwork This is the WEP default key. The maximum length allowed is 64 characters.	

For more details about the GXV3275 configuration template and provisioning, please refer to the configuration tool, templates and documentation in the following link: http://www.grandstream.com/support/resources/?title=GXV3275.



# **WI-FI SETTINGS**

### ACCESS WI-FI SETTINGS

- 1. When the GXV3275 is on idle screen, tap on the onscreen **MENU** icon the bottom of the LCD.
- Tap on Settings 2.



- 3. Tap on Wireless & Networks.
- 4. Tap on Wi-Fi Settings. A list of available Wi-Fi network within the range will be displayed in "Wi-Fi Settings" menu. Users can set up to connect to Wi-Fi network and configure advanced settings for Wi-Fi connections here.

Wi-Fi settings	⊾ 🛃 🖂 🎫 🗆	家 2:56 PM
AdminIT Secured with WPA/WPA2		(î
LA_Lab Secured with WPA2 (WPS available)		
LA_Guest Secured with WPA2 (WPS available)		(î;

### Figure 7: GXV3275 Available Wi-Fi Network List

# ▲ Note:

"Wi-Fi Settings" is available only when Wi-Fi is turned on.



### **SCAN**

Under "Wi-Fi Settings" menu, tap on MENU button and select "Scan" to initate scan for the Wi-Fi networks within the range. The available Wi-Fi networks will be updated and displayed there.

Wi-Fi settings		⊾ 🛨 🖂 FTP	象 😨 2:57 PM
dd-wrt			(î:
AdminIT Secured with WPA/WPA2			
LA_Lab Secured with WPA2 (WPS	WPS Push Button		(;;
LA_Guest	Add network		
Secured with WPA2 (WPS	Scan		
	WPS Pin Entry		
	Wi-Fi Direct		
	Advanced		

Figure 8: GXV3275 Wi-Fi Settings: Scan

### ADD WI-FI NETWORK MANUALLY

If the Wi-Fi network SSID doesn't show up in the scan list, or users would like to set up advanced options for the Wi-Fi network, users could add the Wi-Fi network manually under "**Wi-Fi Settings**".

- 1. When the GXV3275 is on idle screen, tap on the onscreen **MENU** icon the bottom of the LCD.
- 2. Select Settings
- 3. Select Wireless & Networks.
- 4. Tap on Wi-Fi Settings.
- 5. On the Wi-Fi Settings screen, tap on MENU button = and select "Add Network".
- 6. In the prompt dialog, enter SSID, security type, password and set up address type (DHCP/Static IP/PPPoE).
- 7. Tap on "Save" to save the settings.



8. The phone will reboot with Wi-Fi network connected.

Wi-Fi settings		⊾ ± ∞	🎫 📽 💲 🕱 3:02 PM
LA_Lab Secured with WPA2 (	WPS available)		();
AdminIT Secured with WPA/W	Add network		((î;
LA_Guest Secured with WPA2 (	Network SSID		();;
dd-wrt	Security	WPA/WPA2 PSK	(î:
	Password		
		Show password	
	Cancel	Save	

Figure 9: GXV3275 Add Wi-Fi Network Manually

### WPS PUSH BUTTON

WiFi Protected Setup (WPS) is a network security standard that allows users to easily secure a wireless home network. WPS was introduced to relieve and remove all of the guesswork of securing a wireless network by typing a short PIN or pushing a button. On a new network, WPS will automatically configure a wireless network with a network name (SSID) and strong WPS data encryption and authentication.

Under "Wi-Fi Settings" menu, tap on MENU button and select "WPS Push Button" for an easy and secure Wi-Fi network setup.

- 1. When the GXV3275 is on idle screen, tap on the onscreen **MENU** icon the bottom of the LCD.
- 2. Tap on Settings
- 3. Tap on Wireless & Networks.
- 4. Tap on **Wi-Fi Settings**. In this page, users would view the available WiFi networks nearby. If the WiFi network support WPS feature, it would show in display **WPS available** with SSID.



Wi-Fi settings	⊾ < 🐼 16:27
GS_WiFi Secured with WPA2 (WPS available)	(în
LA_LAB_BACKUP Secured with WPA	((;*
AdminIT Secured with WPA/WPA2	(î:a
LA_Lab Secured with WPA2 (WPS available)	
LA_Guest Secured with WPA2 (WPS available)	
Handhelditems Secured with WPA2	((;
dsi@dlink Secured with WPA/WPA2 (WPS available)	

- Figure 10: GXV3275 WPS available network
- 5. On the Wi-Fi Settings screen, tap on MENU button = and select " WPS Push Button".



Figure 11: GXV3275 Wi-Fi WPS Push Button



6. Check your router and press the Wi-Fi Protected Setup (WPS) button on the router to make a connection automatically. The phone will display the connection to a network.

Wi-Fi settings	⊾ 🗣 🎅 16:29
GS_WiFi Connected	
GS_WiFi Saved, secured with WPA2	
LA_LAB_BACKUP Secured with WPA	
AdminIT Secured with WPA/WF	
LA_Lab Secured with WPA2 (WPS available)	
LA_Guest Secured with WPA2 (WPS available)	(;;
DSITIGER Secured with WEP (WPS available)	

Figure 12: GXV3275 Connect to a WPS Network

### **WPS PIN ENTRY**

Under "Wi-Fi Settings" menu, tap on MENU button = and select "WPS Pin Entry" for an easy and secure Wi-Fi network setup.

1. When the GXV3275 is on idle screen, tap on the onscreen **MENU** icon the bottom of the LCD.



- 3. Select Wireless & Networks.
- 4. Tap on **Wi-Fi Settings**.
- 5. On the Wi-Fi Settings screen, tap on MENU button and select "WPS Pin Entry".
- 6. A randomly generated PIN number will by displayed on the phone.



Wi-Fi settings		⊾ 🛋 🛠 😥 16:35
GS_WiFi Secured with WPA2 (WPS ava	ailable)	(îț
AdminIT Secured with WPA/WPA2		(îș
LA_LAB_BACKUP Secured with WPA	pin 65137673 on your Wi-Fi router. The setup ke up to two minutes to complete.	(î*
LA_Lab Secured with WPA2 (V	GD	(î*
LA_Guest Secured with WPA2 (Wno and	Cancel	(î:
dsi@dlink Secured with WPA/WPA2 (WP	PS available)	(î;



7. Users must typt the PIN numbers to the router and make a connection. After for a while, the phone will display the connection to a network.

Wi-Fi settings	⊾ < 穼 16:35
GS_WiFi Connected	(î)
GS_WiFi Saved, secured with WPA2	<u></u>
AdminIT Secured with WPA/WF	<u></u>
LA_LAB_BACKUP Secured with WPA	((î;
LA_Guest Secured with WPA2 (WPS available)	(fî:
LA_Lab Secured with WPA2 (WPS available)	(î;
Handhelditems Secured with WPA2	((îª





### **WI-FI DIRECT**

Wi-Fi Direct, initially called Wi-Fi P2P, is a Wi-Fi standard that enables devices to connect easily with each other without requiring a wireless access point and to communicate at typical Wi-Fi speeds for everything from file transfer to Internet connectivity. It can reach up to 250 Mbps of data transferring rate.

Under "**Wi-Fi Settings**" menu, tap on **MENU** button and select "**Wi-Fi Direct**". This can be used to set up peer-to-peer connection between two Wi-Fi Direct devices. To share data and sync files using Wi-Fi Direct, users must download and install sharing applications (3rd party application) to send/receive files.

To use Wi-Fi Direct:

1. When the GXV3275 is on idle screen, tap on the onscreen **MENU** icon the bottom of the LCD.



- 3. Select Wireless & Networks.
- 4. Tap on **Wi-Fi Settings**.
- 5. On the Wi-Fi Settings screen, tap on MENU button = and select "Wi-Fi Direct".
- 6. On the Wi-Fi direct screen, tap on **MENU** button and select "Searching for devices".
- 7. Tap on the available peer device to initiate connection.

Figure 15: GXV3275 Wi-Fi Direct: Search Available Device



8. After connecting to the peer device, the status of the peer device will be changed to "Connected".

Wi-Fi Direct	⊾ 🎟 🛨 🖂	🖞 😨 5:35 PM
Android_test		
Peer devices		
Android_b2b7 Connected		
Remembered groups		
DIRECT-DG-Android_b2b7		

Figure 16: GXV3275 Wi-Fi Direct: Connected

## **ADVANCED SETTINGS**

Under "Wi-Fi Settings" menu, tap on MENU button = and select "Advanced". Users will see the following advanced settings related to Wi-Fi connections.



Wi-Fi settings		⊾ 土 🔤 🕸 🛱 2	:57 PM
dd-wrt			((·
AdminIT Secured with WPA/WPA2			(îça
LA_Lab Secured with WPA2 (WPS	WPS Push Button		(;
LA_Guest	Add network		(;;
Secured with WPA2 (WPS	Scan		
	WPS Pin Entry		
	Wi-Fi Direct		
	Advanced		

### Figure 17: GXV3275 Wi-Fi Settings: Advanced

### • Network Notification.

If enabled, the phone will show notification on the top status bar indicating an open network is available. By default it's enabled.

### • Avoid Poor Connections.

If enabled, Wi-Fi network won't be used unless the connection is good. By default it's disabled.

### • MAC address.

This shows the MAC address of the phone.

### • IP address

This shows the IP address of the phone from Wi-Fi network.



# Advanced Wi-Fi Network notification Notify me when an open network is available Avoid poor connections Don't use a Wi-Fi network unless it has a good Internet connection MAC address 00:0b:82:5e:66:c8 IP address Unavailable

Figure 18: GXV3275 Wi-Fi Advanced Settings



# **PORTABLE HOTSPOT**

The GXV3275 can be served as a Wi-Fi access point for other devices to connect to wireless network if hotspot is turned on.

- 1. On the GXV3275 idle screen, tap on the onscreen **MENU** icon the bottom of the LCD.
- 2. Select "Settings" 🌣.
- 3. Select "Wireless & Network".
- 4. In the menu, tap on "Portable Wi-Fi hotspot" to select it.
- 5. Turn on hotpot by tapping on the checkbox of "**Portable Wi-Fi hotspot**". Icon 🐨 will show on the top status bar of the GXV3275.
- 6. Tap on "**Set up Wi-Fi hotspot**" to configure network SSID, security type and password. Please make sure the password has at least 8 characters. Otherwise, users won't be able to save the setting.
- 7. On the other device that needs Wi-Fi access, turn on Wi-Fi, look for the SSID of the GXV3275 hotspot and type authentication information to get connection.

Tethering & portable ho	otspot		ن 🖂 ⊾	L FTF 🗘	🕱 3:36 PM
Portable Wi-Fi hots	pot				
Set up Wi-Fi hotspo AndroidAP WPA2 PS	Set up Wi-Fi hotspot				
	Network SSID				
	AndroidAP				
	Security				
	WPA2 PSK				
	Password				
	•••••				
	Cancel	Save			

Figure 19: GXV3275 Wi-Fi Hotspot