

Configuration Guide For Grandstream WP810/822/825 series

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Revision History

Version	Date	Change
1.0	07/08/2022	Created document for WP810 Configurations

DUT and Zoom Software Versions

	Equipment	Software Version
Grandstream (Device Under Test)	WP810	1.0.11.16
7	Zoom app Desktop	5.11.1 (6602)
Zoom	Zoom app Mobile	5.11.1 (6880)

Features Supported by WP810/822/825 series

- Multiple Line Keys
- Multiple Users per Device
- Custom Time Format and Zone
- Sync time with NTP server
- Enable or disable phone web admin portal
- TLS and SRTP
- Make and Receive Calls
- Inbound and Outbound Call via Opus codec negotiation
- Call Hold and Resume
- Long Duration call
- SIP Session Timer
- Call Waiting
- DND
- Call Forward Always
- Call Forward No Answer
- Call Forward Busy
- Blind/Cold Transfer
- Consultative/Warm Transfer
- 3-party Conference
- VoiceMail
- Call History
- Company Directory
- Speed dial
- Call Monitoring
- Auto Receptionist IVR



- AES-256
- Call Park/Retrieve



1. Overview

This document outlines the configuration best practices for the Grandstream WP810/822/825 as Zoom generic SIP phone.

2. Configuration Steps - Zoom Web Portal

This section provides instructions on how to configure Grandstream WP810 in Zoom Web Portal.

This section is mainly for adding phone devices (WP810) and assign Zoom users to the devices.

Prerequisites:

- Zoom Phone account: a valid Zoom Phone subscription is required in order to assign an WP810 endpoint.
- Zoom approval for provisioning of WP810 as Generic SIP devices. Administrators should contact Zoom Account Executive to start an approval process.

Login to Zoom Web portal at <u>https://zoom.us/.</u>

The following Zoom SIP Device configurations are included in this section:

- 1. Create Zoom Users
- 2. Add Device

2.1 Create Zoom Users

Zoom Users are created in order to login to Zoom clients on desktop or mobile, it can also be assigned to SIP Device. The steps for creating a user are as follows:

1. Under Admin, Navigate to User Management -> Users. Click + Add Users to create new Zoom users as shown below.



			REQ	UEST A DEMO	000.800.050.2040	RESOURCES -	SUPPORT
ZOOM SOLUTIONS - PLANS & PRICING	CONTACT SALES	s	CHEDULE A M	IEETING	JOIN A MEETING	HOST A MEETING	-
PERSONAL L Profile Meetings	Add Users Add users with the You can add users of accounts will be ad	of all types to your account. If you enter the email address of account owners, all users on the	ir			Document	t
Webinars Phone	@gn	hail.com	le	Import	Export Y	+ Add Users]
Personal Contacts	User Type	OBasic OLicensed On-Prem ℗				٥	
Recordings Settings		Meeting (13 available) Large Meeting (0 available) Buy Licenses Webinar (0 available) Buy Licenses	~	d Phone	Edit		
ADMIN	Department	Managed		Phone			
Dashboard	Manager	Kis	0	d Phone	Edit		
Users	Job Title	Engineer		d Phone	Edit		
Group Management	Location	Pland		d Phone	Edit		
e Management		Add	Cancel	đ	Edit		

Figure 1 : Add Users

- 2. A Zoom activation email is sent to the email address while creating the user, follow the instruction to active the zoom account.
- 3. Navigate to Phone System Management -> Users & Rooms. Click Add.

									REQUEST A DEMO 1	888.799.0125	SUPPORT
ZOOM SOLUTIONS - PLANS	& PRICING	CONTACT SALES	RESOURCES ~				SCHEE	OULE JOIN	HOST - WHITE	BOARD NEW	
Profile	Users	Zoom Room	is Common	Area Phones Cisco/Poly	com Rooms						
Meetings	Plan De	tails									
Webinars	Add	Import Exp	ort								
Phone		arch by Name, Ext. o	- Number		Package	(610)	Status (All)		Site (All)		
Personal Contacts	CC Se	arch by Name, Ext. o	or Number		Раскаде	≥ (All) ~	Status (All)	~	Site (All)		
Whiteboards NEW											
Recordings	0	Name 🗘	Ext. ‡	Package	Number(s)	Desk Phone(s)	User Status	Site	Group		
Settings		Am				Phone(a)					
Analytics & Reports		apar @tekviz	8029	US/CA Unlimited	(719)	🗄 Online	Active	Main Site			
ADMIN											
Dashboard		Am am @gma iLcom	8028	US/CA Unlimited	(719)	🗄 Online	Active	Main Site			
> User Management											
> Zoom Chat Management	0	Abh abl @g	8027	US/CA Unlimited		Offline	Active	Main Site			
> Device Management > Room Management	0	abl @g mail.com				📳 Offline					
Phone System Management		Abh									
Users & Rooms		asa @tekvizion. com	8026	US/CA Unlimited			Active	Main Site			
Auto Receptionists		Sim									
Queues		du@tekvizion.co m	8008	US/CA Unlimited		Offline	Active	Main Site			0

Figure 2 : Add Users and Rooms



4. Click **Choose** beside Users and when the pop-up window opens, select the proper user and **Confirm.**

	NS & PRICING CONTACT SALES	
PERSONAL	Users & Rooms > Users > Add	
Profile Meetings Webinars	Add Users You can assign extension numbers to exist those users who need to make outbound c	Choose from Users Q. Fearch by Name or Email Address
Phone Personal Contacts Recordings	Site Main S Users Choose	Name : Email Address :
Settings	Package Zoom Ph Assign	Page Size 10 - Total 1
Dashboard	Specify a template to be assigned to us	Cancel
 Device Management Room Management 		
Phone System Management Users & Rooms		
Auto Receptionists Call Queues		

Figure 3 : Choose user

5. Click **Assign** beside Package and at new window, select proper Calling plan, **US/CA Unlimited Calling Plan** was picked up, click **Save** to complete adding users under phone system Management.

ZOOM SOLUTIONS - PLA	NS & PRICING CONTACT SALES
PERSONAL	Users & Rooms > Users > Add
Profile	Add Users
Meetings	You can assign extension numbers to existing users in your account. After that, you can assign calling plans to
Webinars	those users who need to make outbound calls. You can add up to 100 users each time.
Phone	Site Main Site ~
Recordings	Users Chosen: 1
Settings	×
Analytics	Choose
ADMIN	Package Assign
Dashboard	US/CA Unlimited Calling Plan ① × Pro Features - Unlimited Domestic
> User Management	
> Room Management	
 Phone System Management 	Specify a template to be assigned to users
Users & Rooms	Save
Auto Receptionists	
Call Queues	
Shared Lines	

Figure 4 : Assign Calling Plan



- zoom SOLUTIONS - PLANS & PRICING CONTACT SALES RESOURCES -SCHEDULE JOIN HOST - WHITEBOARD . Users Zoom Rooms Common Area Phones Cisco/Polycom Rooms Profile Meetings Plan Details Webinars Add Import Export Phone V Status (All) Site (All) Q. Search by Name, Ext. or Number Package (All) Personal Co Whiteboards NEW Recordings Ext. ‡ \Box Name 🛟 Package Number(s) User Status Site Group Settings Analytics & Reports \Box 8029 US/CA Unli (719) 🕒 Online Active Main Site Assign ~ ··· ADMIN Dashboard 🕒 Online \Box 8028 US/CA Unlimited (719) Active Main Site Assign ×. > User Management Zoom Chat Management Offline \Box Active Main Site 8027 US/CA Unlimited > Device Management Offline Room Management Phone System Manageme US/CA Unlimited \Box Active Main Site 8026 Assign Auto Receptionists 8008 Offline \Box US/CA Unlimited Active Main Site Assign Call Queues ¢ ed Lines Dar Offline \Box dar l@gma 8025 US/CA Unlimited Active Main Site Assign
- 6. Select the newly added user, click Assign and select Assign Numbers.

Figure 5 : Assign Number

7. Select the desired DID and click **confirm** to assign the DID to the user.



d States ~				
urch	_			
		Site (All)	Number Type (All) 🗸	Get Numbers
Number	Area	Number Type	Capability	Site
(719)	Canon City, Colorado, United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
	United States	Toll Number	Incoming & Outgoing	Main Site
1 of 2 < > Page	size 10 •	Total 12		
		(719) Colorado, United States United States United States	(719) Colorado, United States Toll Number United States Toll Number	(719) Colorado, United States Toll Number Incoming & Outgoing United States Toll Number Incoming & Outgoing

Figure 6 : Select DID Number

2.2 Add SIP Devices

- 1. Navigate to ADMIN -> Phone System Management -> Phones & Devices. Click Add.
 - Set **Display Name**: **WP810-2** is set as an example.
 - Set MAC Address: add the WP810-2 MAC Address here.
 - Set **Device Type**: select **Other** as the phone type is not certified yet.
 - Click Assign under Assigned To and select the newly created user in previous steps.
 - Click Save.



ZOOM SOLUTIONS - PLANS & PR	ICING CONT	ACT SALES RESOURCES			SCHEDU	JLE A MEETING JOI	N A MEETING	HOST A MEETING +
Phone	Add Ex	port 🛞						Resync Devices
Personal Contacts	Q. Search I	Add Desk Pho	one			- Status (A	10 ~ 1	Site (All)
Recordings								
Settings		Display Name	WP810-2					
Analytics & Reports	Disp Nan	Description (Optional)				mware Version	Site	IP Addre 🌣
ADMIN					10		Main Site	192.168.19.:
Dashboard		MAC Address	c0-74-ad-65-6e-2c					
> User Management	•	Device Type					Main Site	192.168.19.:
> Device Management	_	Device Type	Other		~			
Room Management	o ®`						Main Site	172.17.13.3!
 Phone System Management 			This device type suppor	ts up to 1 assignee.				
Users & Rooms	•	Assigned To	Amul priya	Assign			Main Site	192.168.1.6
Auto Receptionists	_		Ext. 8028 ×					
Call Queues	0 0:					.83.3.10	Main Site	192.168.1.3:
Shared Lines					Cancel Save			
Group Call Pickup							Main Site	172.17.17.1(
Phone Numbers					Online			
Phones & Devices		0ther	c0-74-ad-65-d2-dc	Am Ext. 8022	Provision		Main Site	172.17.17.1(
Monitoring		nftel800- Ext 8011 Other	c8-1f-ea-c9-ad-8b	pra Ext. 8011	Offline Provision		Main Site	99.8.59.243
mpany Info	OFR MA	-0-1000		Suresh kumar	Offline			

Figure 7 : Add Desk Phone

2. Select the Display Name of the newly created Desk Phone to navigate to its profile and click the **Provision** button. The SIP Account detail is displayed which will be used in the WP810-1 provisioning (section Provisioning through Phone's Web Interface).



No description		
Profile		
Site	Main Site (Main Site)	
Assigned To	Amul priya Ext. 8028 ×	
IP Address	172.16.31.209	
Device Type	Other	
Firmware Version		
MAC Address	c0-74-ad-65-6e-2c	
Provision Template	Unsupported (2)	
Status	Online	
Actions V Rem	ove	
Provision Resync		

Figure 8 : Provisioning

3. Download the Certificates and import to the device, so that device will be considered in the trust list. **Note:** By default, WP810 natively supports DigiCert CA. So, uploading certificates manually is not required.



Provisionin	g
MAC Address	c0-74-ad-65-6e-2c
Device Type	Other
	enable TLS1.2 for SIP registration and enable SRTP for secure calling on your IP phone. Please refer turer's instructions for these processes.
You'll need following	information for manual provisioning.
SIP Account 1:	
1. SIP Domain: 70	000766863.zoom.us
2. Outbound Prox	xy: us01sip0h.sc.zoom.us:5091
3. User Name: 32	23
4. Authorization I	D: 343
5. Password: A1	Wg
	•
Please download <mark>Di</mark> are not in the trust l	giCert Global Root CA, DigiCert Global Root G2, DigiCert Global Root G3 and import to your IP phone if they ist of the device.
provisioned in th	te that Zoom support team will not be able to troubleshoot or configure IP phones that are nis manner. Some Zoom Phone features may not work on manually provisioned phones. It may vary our desk phone model.
	Close

Figure 9 : Provisioning (Cont.,)

3. Grandstream WP810 Provisioning

This section provides instructions on how to configure Grandstream WP810 to register to Zoom Phone Services.



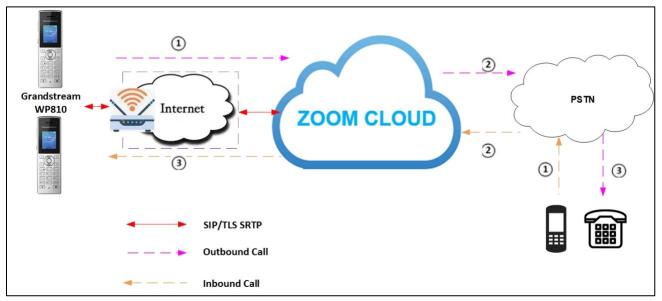


Figure 10 : Network Diagram

3.2 Network

By default, WP810 has DHCP mode enabled, if the router to which phone is connected does not support DHCP, you can configure static IP manually. You can find the IP address of WP810 by pressing the UP-arrow button from WP810.

3.3 Firmware Upgrade

This section ensures the phone is upgraded with the required firmware. The firmware used for this test is **1.0.11.16** From the phone's home page, Navigate to: **Maintenance -> Upgrade and Provisioning**.

Grandstream WP810						Ļ	Admin Logout	Reboot	English	~
	TATUS AC	COUNTS	SETTING	38 NETWORK	MAINTENA	ANCE	DIRECTO	DRY		
~ 💫							Web Acces		1 1	-1
Status	Account S	Status					Upgrade and Provisioning Syslog TR-069			
Account Status Network Status System Info	Account	SIP User ID		Server		SIP Registration	Security Se Packet Cap Tools	-		
	Account 1 3223 Account 2		634 7000766863.zoom.us			YES				
	Copyright © Grandstream Networks, Inc. 2022. All Rights Reserved.									

Figure 11 : Firmware Upgrade

- Click Start for Upgrade.
- Select and upload the firmware file from the system and then click **Start**.



• WP810 phone displays Upgrade Available. Enter **Yes** to continue (Phone may have to restart to get applied with the changes).

Grandstream WP810					A	dmin Logout Reboot	English	
		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTOR	
						V	ersion 1.0.11.16	
Maintenance	Upgrade and Provi	sioning						
Web Access Upgrade and Provisioning	Upgrade Firmware	Start						
Syslog TR-069	Firmware Upgrade and Provisioning	● Always Check for New Firmware ○ Check New Firmware Only When F/W pre/suffix Changes ○ Always Skip the Firmware Check						
Security Settings -	Always Authenticate Before Challenge	●No ○ Yes						
Security Trusted CA Certificates	Validate Hostname in Certificate	●No ○ Yes						
Packet Capture	Allow DHCP Option 43 and Option 66 to Override Server	O No 🖲 Yes (⊖ Prefer, fallback	when failed				
Tools	Additional Override DHCP Option	Option 150 V]					
	Allow DHCP Option 120 to Override SIP Server	● No ○ Yes						
	Automatic Upgrade	OYes, check f	for upgrade even for upgrade even for upgrade even	y day	e(s)			

Figure 12 : Firmware Upgrade (Cont.)

3.4 Provisioning

WP810 can be provisioned in two ways:

- 1. Provisioning through a HTTP Server
- 2. Provisioning through Web Interface

3.4.1 Provisioning through a HTTP server

1. In a HTTP Server, upload the below file in order for the phone to download the necessary configuration files and get provisioned. They are,

```
<?xml version="1.0" encoding="UTF-8" ?>
<!-- Zoom IOT Provisioning Template - 2 Accounts-->
<gs_provision version="1">
```

<config version="1">

<!-- Upgrading and Provisioning Settings -->

<!-- Firmware Upgrade Protocol. 0 - TFTP, 1 - HTTP, 2 - HTTPS --> <P6767>1</P6767> <!-- Config Upgrade Protocol. 0 - TFTP, 1 - HTTP, 2 - HTTPS --> <P212>1</P212> <!-- Firmware Server Path -->



```
<P192>http://172.XX.XX.XXX:90/Folder Path</P192>
       <!-- Config Server Path -->
       <P237>http://172. XX.XX.XXX:90/Folder Path</P237>
       <!-- Syslog Server -->
       <P207>172. XX.XX.XXX </P207>
       <!-- Syslog Level. 0 - NONE, 1 - DEBUG, 2 - INFO, 3 - WARNING, 4 - ERROR. Default is 0 -->
       <P208>1</P208>
       <!-- Send SIP Log. 0 - No, 1 - Yes. Default is 0 -->
       <P1387>1</P1387>
       <!-- Use Random Port. 0 - No, 1 - Yes. Default is 1 -->
       <P78>0</P78>
       <!-- Account Settings -->
       <!-- Account 1 -->
<!-- Account Active (In Use). 0 - No, 1 - Yes -->
<P271>1</P271>
<!-- Account Name. -->
<P270>6E2C</P270>
<!-- SIP User ID -->
<P35>32238XXXXXXXXXXX634</P35>
<!-- Authenticate ID -->
<P36>3436XXXX223</P36>
<!-- Authenticate password -->
<P34>A1XXXXg</P34>
<!-- Display Name (John Doe) -->
<P3>8028</P3>
<!-- SIP Server -->
<P47>7000766863.zoom.us</P47>
<!-- Outbound Proxy -->
<P48>us01sip0h.sc.zoom.us:5091</P48>
<!-- DNS Mode. 0 - A Record, 1 - SRV, 2 - NAPTR/SRV. -->
<P103>1</P103>
    <!-- DNS SRV Failover Mode. 0 - Default, 1 - Saved one until DNS TTL, 2 - Saved one until no
    response, 3 - Failback follows failback expiration timer. -->
    <P26040>2</P26040>
<!-- SIP Registration. 0 - No, 1 - Yes -->
<P31>1</P31>
<!-- Register Expiration (in minutes. default 1 hour, max 45 days) -->
<P32>60</P32>
    <!-- SIP Transport. 0 - UDP, 1 - TCP, 2 - TLS/TCP. Default is 0-->
   <P130>2</P130>
   <!-- SRTP Mode. 0 - Disabled, 1 - Enabled but not forced, 2 - Enabled and forced, 3 - Optional. Default
   is 0 -->
   <P183>2</P183>
    <!-- SRTP Key Length. 0 - AES 128&256 bit, 1 - AES 128 bit, 2 - AES 256 bit. Default is 0 -->
<P2383>0</P2383>
```



```
<!-- Enable Session Timer. 0 - No, 1 - Yes. Default is 0 -->
<P2395>1</P2395>
<!-- Caller ID Display. 0 - Auto, 1 - Disabled, 2 - From Header. Default is 2 -->
<P2324>0</P2324>
<!-- NAT Traversal. 0 - No, 1 - STUN, 2 - keep alive, 3 - UPnP, 4 - Auto, 5 - VPN. Default is 4 -->
<P52>0</P52>
<!-- Enable Local Call Features. 0 - No, 1 - Yes -->
<P191>1</P191>
<!-- Special Feature. 137 - Zoom -->
<P198>137</P198>
```

</config> </gs_provision>

Grandstream WP810						P	Admin Logout Reboot	English 🗸
			STATUS	ACCOUNTS	SETTIN	NGS NETWORK	MAINTENANCE	DIRECTORY
							Web Access	lalania.
Status	Account	Status					Upgrade and Prov Syslog TR-069	Isioning
Account Status							Security Settings	•
Network Status	Account	SIP User ID		SIP Server		SIP Registration	Packet Capture	
System Info	Account 1	3223	634	7000766863.z	oom.us	YES	10013	
	Account 2					UNKNOWN		
					Соруг	ight © Grandstream N	etworks, Inc. 2022. All	Rights Reserved.

2. From Web UI of phone, Navigate to Maintenance -> Tools.

- Figure 13 : Factory reset
- 3. Click Start to Factory Reset.



Grandstream WP810					A	dmin Logout Reboot	English 🗸
		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
						V	ersion 1.0.11.16
Maintenance Web Access	Tools						
Upgrade and Provisioning	Provision	Start					
Syslog	Factory Reset	Start					
TR-069	Ping	Start					
Security Settings =	Traceroute	Start					
Trusted CA Certificates							
Packet Capture							
Tools							
				Copyright ©	Grandstream Ne	etworks, Inc. 2022. All I	Rights Reserved.

Figure 14 : Factory reset - (Cont.)

4. Give **OK** to confirm to factory reset the phone.



5. Once the Phone reboots, enter the phone's IP address in the browser's address bar (https://ip-address) and enter. Input phone's username and password. The default administrator username is "admin", and the random password can be found on the sticker at the back of the unit.



Grandstream Executive	P Phone × +				\vee	-	×
\leftarrow \rightarrow C \triangle	Not secure https://			₽ ☆	* 🗆		(;
							*
_	_		_	_	_		
5	GRAND	STREAM		WP	810		
		G THE WORLD			010		
	Username	admin					
	Password	•••••	Login				
	Language	English 🗸					
					-		

Figure 16 : Login details

6. Once Logged in, Update with the New Password instead of Default password. Navigate to **Maintenance** -> Web Access to change the Password.

Grandstream WP810						A	dmin Logout Reboot	English 🗸
GRANDS			STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE Web Access	DIRECTORY
Status Account Status	Account S	status					Upgrade and Provi Syslog TR-069	sioning
Network Status System Info	Account Account 1	SIP User ID		SIP Server		Registration	Security Settings Packet Capture Tools	•
	Account 2				_	IKNOWN Grandstream N	etworks, Inc. 2022. All F	Rights Reserved.
					oopyngnte	Granasticallin	2022. All 1	agnis rescived.

Figure 17 : Login details - (Cont.)

7. Under the Admin Password, Enter the Current Password (i.e., found on the sticker at the back of the unit), Type in your new admin password in New Password field. Type in again same entered password



in **Confirm Password** field. Click **Save.** On saving, a notification appears saying that Password changed successfully.

Grandstream WP810					A	dmin Logout Reboot	English 🗸
		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
C						V	ersion 1.0.11.16
Maintenance Web Access	Web Access						
Upgrade and Provisioning	User Password						
Syslog	New Password						
TR-069	Confirm Password						
Security Settings = Security	Admin Password						
Trusted CA Certificates	Current Password]	
Packet Capture	New Password						
Tools	Confirm Password	•••••					
	-	Save					
				Copyright ©	Grandstream Ne	tworks, Inc. 2022. All I	Rights Reserved.

Figure 18 : Login details - (Cont.)

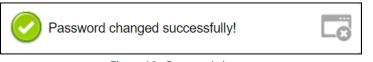


Figure 19 : Password change

8. From the Web UI of phone, Navigate to Maintenance -> Upgrade and Provisioning.

Grandstream WP810						A	dmin Logout Re	poot English	*
GRANDS			STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANO Web Access	E DIRECT	ORY
ſ							Upgrade and F	Provisioning	-1
Status	Account S	Status					Syslog TR-069	, constanting	
Account Status Network Status System Info	Account	SIP User ID		SIP Server	_	Registration	Security Settin Packet Captur Tools	•	•
-,	Account 1				NC)			_
	Account 2				UN	IKNOWN			
					Copyright ©	Grandstream N	etworks, Inc. 2022	. All Rights Rese	erved.

Figure 20 : Provisioning through a HTTP server

9. Scroll down and under **Config** section. Check **HTTP** in Config Upgrade via and enter (http://ipaddress:90/Folder Path) in Config Server Path.



10. Click Save and Apply.

Grandstream WP810		Admin Logout Reboot English 🗸
	STREAM	STATUS ACCOUNTS SETTINGS NETWORK MAINTENANCE DIRECTORY
C		Version 1.0.11.16
Maintenance	Upgrade and Provi	sioning
Web Access	·	
Upgrade and Provisioning	Upgrade Firmware	Start
Syslog TR-069	Firmware Upgrade and Provisioning	 Always Check for New Firmware Check New Firmware Only When F/W pre/suffix Changes Always Skip the Firmware Check
Security Settings	Always Authenticate Before Challenge	● No ○ Yes
Security Trusted CA Certificates	Validate Hostname in Certificate	● No ○ Yes
Packet Capture	Allow DHCP Option 43 and Option 66 to Override Server	○ No
Tools	Additional Override DHCP Option	Option 150 🗸
	Allow DHCP Option 120 to Override SIP Server	● No ○ Yes
	Automatic Upgrade	 No Yes, check for upgrade every 1008 minute(s) Yes, check for upgrade every day
	Randomized Automatic Upgrade	 ○ Yes, check for upgrade every week ● No ○ Yes
	Hour of the Day(0-23)	Start 1 V End 0 V
	Day of the Week (0-6)	1
	Disable SIP NOTIFY Authentication	● No ○ Yes

Figure 21 : Provisioning through a HTTP server - (Cont.)



Config	
Config Upgrade via	OTFTP OHTTPS OFTP OFTPS
Config Server Path	172. :90/amul
Config Server Username	
Config Server Password	
Config File Prefix	
Config File Postfix	
XML Config File Password	
Authenticate Conf File	● No ○ Yes
Download Device Configuration	Download
Download Device Configuration (XML)	Download
Download and Process All Available Config Files	● No ○ Yes
Download User Configuration	Download
Upload Device Configuration	Upload
Export Backup Package	Download
Restore from Backup Package	Upload
Firmware	
Firmware Upgrade via	○ TFTP ● HTTP ○ HTTPS ○ FTP ○ FTPS
Firmware Server Path	fm.grandstream.com/gs
Firmware Server Username	
Firmware Server Password	
Firmware File Prefix	
Firmware File Postfix	
	Save Save and Apply Reset
	Copyright @ Grandstream Networks, Inc. 2022. All Rights R

Figure 22 : Provisioning through a HTTP server - (Cont.)

- 11. After the phone restarts, the phone will start downloading the necessary configuration files from the HTTP server and get provisioned.
- 12. Navigate to **Status -> Account Status** to verify the provision status.



Grandstream WP810						A	dmin Logout Ret	poot English	~
	TREAM		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANC	E DIRECTO	RY
								Version 1.0.11.	.16
Status	Account S	Status							
Account Status Network Status	Account	SIP User ID		SIP Server	SIF	Registration			
System Info	Account 1	32238	634	7000766863.z	oom.us	ΈS			
	Account 2				L	INKNOWN			
					Copyright @	Grandstream Ne	etworks, Inc. 2022.	All Rights Reserv	ved.

Figure 23 : Provisioning through a HTTP server - (Cont.)

3.4.2 Provisioning through Phone's Web Interface

This section explains how the device can be registered in Zoom portal using SIP Account details that is populated in Zoom portal (explained earlier in 2. Add SIP Devices -> Provisioning).

- WP810 configuration is done via web interface, enter the phone's IP address in the browser's address bar (https://ip-address) and enter. Input phone's username and password and click Login.
- Navigate to Accounts -> Account 1.
- Under Account 1 -> General Settings. Ensure the below parameters are set.
 - 1. Account Active: Set to "Yes".
 - 2. Account Name: Enter Account Name of your choice. Here, **6E2C** is used.
 - 3. SIP Server: 7000766863.zoom.us (Provided by Zoom).
 - 4. Outbound Proxy: us01sip0h.sc.zoom.us:5091 (Provided by Zoom).
 - 5. SIP User ID: Provide the SIP User ID (from Zoom provisioning).
 - 6. Authenticate ID: Provide the Authenticate ID (from Zoom provisioning).
 - 7. Authenticate Password: Provide the Authenticate Password (from Zoom provisioning).
 - 8. Name: Enter the Name of your choice. Here, **8028** is used.
 - 9. Click Save and Apply.



Grandstream WP810				Adı	min Logout Reboot	English 🗸
		STATUS ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
5					V	ersion 1.0.11.16
Accounts	General Settings					
General Settings	Account Active	O No 🖲 Yes				
SIP Settings *	Account Name	6E2C				
Audio Settings	SIP Server	7000766863.zoom.us				
Call Settings	Secondary SIP Server				•	
Intercom Settings Feature Codes	Outbound Proxy	us01sip0h.sc.zoom.us:5091				
Account 2 👘	Backup Outbound Proxy					
Account Swap	SIP User ID	32				
	Authenticate ID	343				
	Authenticate Password	••••				
	Name	8028				
	Voice Mail Access Number				-	
	Account Display	● User Name 〇 User ID				
		Save Save and Apply	Reset			

Figure 24 : General Settings

- Under Account 1 -> Network Settings. Ensure the below parameters are set.
 - 1. DNS Mode: SRV
 - 2. DNS SRV Failover Mode: Saved one until no response
 - 3. NAT Traversal: No
 - 4. Click Save and Apply



Grandstream WP810					Ac	lmin Logout Reboot	English 🗸
GRANDS		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
ſ						Ve	ersion 1.0.11.16
Accounts Account 1 =	Network Settings						
General Settings	DNS Mode	SRV	~				
Network Settings	DNS SRV Fail-over Mode	Saved one unti	I no response 🗸				
SIP Settings 🚭	Register Before DNS SRV Failover	● No ○ Yes				1	
Call Settings	Primary IP						
Intercom Settings Feature Codes	Backup IP 1						
Account 2 🖶	Backup IP 2						
Account Swap	NAT Traversal	No 🗸					
	Proxy-Require					•	
		Save Sav	e and Apply	Reset			
				Copyright ©	Grandstream Ne	tworks, Inc. 2022. All F	Rights Reserved.



- Under Account 1 -> SIP Settings -> Basic Settings. Ensure the below parameters are set.
 - 1. SIP Registration: Set to "Yes"
 - 2. Register Expiration: 60
 - 3. SIP Transport: Set to "TLS/TCP"
 - 4. Caller ID Display: Set to "Auto"
 - 5. Click Save and Apply



Grandstream WP810					A	dmin Logout Reboot	English 🗸
	TREAM	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	
	THE WORLD						
<u> </u>						V	ersion 1.0.11.16
Accounts	Basic Settings						
Account 1 📼							
General Settings Network Settings	TEL URI	\odot Disabled \bigcirc	User=phone 〇) Enabled	,		
SIP Settings 😐	SIP Registration	🔿 No 🖲 Yes					
Basic Settings	Unregister on Reboot		Instance		_		
Custom SIP Headers Advanced Features	Register Expiration	60					
Session Timer	Subscribe Expiration	60					
Security Settings	Reregister before Expiration	0					
Audio Settings	Enable OPTIONS Keep Alive	● No ○ Yes					
Call Settings Intercom Settings	OPTIONS Keep Alive Interval	30					
Feature Codes	OPTIONS Keep Alive Max Lost	3					
Account 2	Enable TCP Keep Alive	O No 🔍 Yes					
Account Swap	Local SIP Port	5060					
	SIP Registration Failure Retry Wait Time	20					
	SIP T1 Timeout	0.5 sec 🗸					
	SIP T2 Timeout	4 sec ~					
	SIP Transport		P TLS/TCP			1	
	SIP Listening Mode	Transport Or Dual (BLF E		Dual (Secured)		•	
	SIP URI Scheme When Using TLS	⊖ sip					
	Use Actual Ephemeral Port in Contact with TCP/TLS	● No ○ Yes					
	Outbound Proxy Mode	lacksquare in route $igodot$ n	ot in route \bigcirc a	lways send to			
	Support SIP Instance ID	🔿 No 🖲 Yes					
	SUBSCRIBE for MWI	● No ○ Yes					
	SUBSCRIBE for Registration	● No ○ Yes					
	Enable 100rel	● No ○ Yes					
	Callee ID Display	● Auto ○ Disa	abled \bigcirc To Hea	ader			
	Caller ID Display	● Auto ○ Disa	abled O From H	leader			
	Add Auth Header On Initial REGISTER	● No ○ Yes					
	Allow SIP Reset	● No ○ Yes					
	Ignore Alert-Info header	● No ○ Yes					
			e and Apply	Reset			
		e 26 : SIP-B					

Figure 26 : SIP-Basic Settings



- Under Account 1 -> SIP Settings -> Session Timer. Ensure the below parameters are set.
 - 1. Enable Session Timer: Set to "Yes".
 - 2. Click Save and Apply.

Grandstream WP810					Ac	dmin Logout Reboot	English 🗸
		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
5						Ve	ersion 1.0.11.16
Accounts	Session Timer						
General Settings Network Settings	Enable Session Timer	🔿 No 🖲 Yes					
SIP Settings 📃	Session Expiration	180					
Basic Settings	Min-SE	90					
Custom SIP Headers Advanced Features	Caller Request Timer	● No ○ Yes					
Session Timer	Callee Request Timer	● No ○ Yes					
Security Settings	Force Timer	\odot No \bigcirc Yes					
Audio Settings Call Settings	UAC Specify Refresher	● UAC ○ UAS	S ○ Omit (Recon	nmended)			
Intercom Settings	UAS Specify Refresher	O UAC ○ UAS	5				
Feature Codes	Force INVITE	O No ○ Yes					
Account 2 📫 Account Swap		Save Save	e and Apply	Reset			

Figure 27 : SIP-Session Timer

- Under Account 1 -> Audio Settings. Ensure the below parameters are set.
 - 1. SRTP Mode: Enabled and forced
 - 2. SRTP Key Length: AES 128&256 bit
 - 3. Click Save and Apply



Grandstream WP810					A	dmin Logout Reboot	English 💊
	STREAM	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
٢						V	ersion 1.0.11.16
Accounts	Audio Settings						
General Settings	Preferred Vocoder - choice 1	PCMU	~				
Network Settings	Preferred Vocoder - choice 2	PCMA	~				
Audio Settings	Preferred Vocoder - choice 3	G.729A/B	~				
Call Settings	Preferred Vocoder - choice 4	G.722(wide bar	nd) 🗸				
Intercom Settings Feature Codes	Preferred Vocoder - choice 5	ilbc	~				
Account 2	Preferred Vocoder - choice 6	G.726-32	~				
Account Swap	Preferred Vocoder - choice 7	OPUS	~				
	Use First Matching Vocoder in 2000K SDP	● No ○ Yes					
	Codec Negotiation Priority	🔾 Caller 🔍 Cal	llee				
	Disable Multiple m line in SDP	● No ○ Yes					
	SRTP Mode	Enabled and Fo	orced 🗸			1	
	SRTP Key Length	AES 128&256	bit 🗸				
	Crypto Life Time	🔿 No 💿 Yes				-	
	Symmetric RTP	No ○ Yes					
	Silence Suppression	O No ○ Yes					
	Jitter Buffer Type	Adaptive 🗸					
	Jitter Buffer Length	300ms 🗸					
	Voice Frames per TX	2					
	G.726-32 Packing Mode						
	iLBC Frame Size	🔿 20ms 💿 30n	ns				
	iLBC Payload Type	97					
	OPUS Payload Type	123					
	DTMF Payload Type	101					
	Send DTMF		ia RTP (RFC283	3) 🗌 via SIP IN	NFO		
		_		254			
		Save Save	e and Apply	Reset			

Figure 28: Audio Settings

- Under Account 1 -> SIP Settings -> Advanced Features. Ensure the below parameters are set.
 - 1. Special Feature: Zoom
 - 2. Click Save and Apply



Grandstream WP810					Ac	lmin Logout Reboot	English 🗸
		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
ſ						V	ersion 1.0.11.16
Accounts	Advanced Feature	s					
Account 1 = General Settings Network Settings SIP Settings Basic Settings Custom SIP Headers Advanced Features Session Timer Security Settings Audio Settings Call Settings Intercom Settings Feature Codes	PUBLISH for Presence Omit charset=UTF-8 in MESSAGE Feature Key Synchronization Special Feature	Disabled Zoom	Enabled Enabled	Reset			
Account 2 🕁							

Figure 29: SIP-Advanced Features

- Under Account 1 -> Feature Codes. Ensure the below parameters are set.
 - 1. Enable Local Call Features: Set to "Yes"
 - 2. Click Save and Apply

Grandstream WP810					Ad	dmin Logout Reboot	English 🗸
		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	DIRECTORY
6						Ve	ersion 1.0.11.16
Accounts Account 1 =	Feature Codes						
General Settings Network Settings	Enable Local Call Features	🔿 No 🖲 Yes					
SIP Settings		Save Save	e and Apply	Reset			
Audio Settings							
Call Settings							
Intercom Settings							
Feature Codes							
Account 2 🖶							
Account Swap							
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Figure 30: Feature Codes



• Navigate to Settings -> General Settings. Under General Settings header: Use Random Port is set to "No" (By Default this would be set to Yes).

Grandstream WP810					Ad	Imin Logout Reboot	English 🗸
	TREAM	STATUS	ACCOUNTS	SETTING	S NETWORK	MAINTENANCE	DIRECTORY
C						V	ersion 1.0.11.16
Settings	General Settings						
General Settings Call Features Multicast Paging Preferences	Local RTP Port Local RTP Port Range	5004 200					
Date and Time	Use Random Port	● No ○ Yes					
Language Ringtone Voice Monitoring	Keep-Alive Interval Use NAT IP	20					
5	STUN server Delay Registration	0					
	Test Password Strength	● No ○ Yes					
	Allow Dial Through Popups	● No ○ Yes					
		Save Sav	e and Apply	Reset			
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Figure 31: Settings-General Settings

