zoomphone

Configuration Guide For Grandstream GXP21xx series

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Revision History

Version	Date	Change
1.0	09/15/2022	Created document for GXP2135 Configurations

DUT and Zoom Software Versions

	Equipment	Software Version
Grandstream (Device Under Test)	GXP2135	1.0.11.64
Zoom	Zoom app Desktop	5.11.9 (8040)
20011	Zoom app Mobile	5.11.9 (7938)

Features Supported by GXP21xx 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
- Busy Lamp Field
- 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 Flip



- Shared Line Call Delegation
- Call Monitoring
- Auto Receptionist IVR
- AES-256
- Call Park/Retrieve



1. Overview

This document outlines the configuration best practices for the Grandstream GXP21xx as Zoom generic SIP phone.

2. Configuration Steps - Zoom Web Portal

This section provides instructions on how to configure Grandstream GXP2135 in Zoom Web Portal.

This section is mainly for adding phone devices (GXP2135) and assign Zoom users to the devices.

Prerequisites:

- Zoom Phone account: a valid Zoom Phone subscription is required in order to assign an GXP2135 endpoint.
- Zoom approval for provisioning of GXP2135 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 log in 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. Navigate to User Management > Users. Click + Add Users to create new Zoom users.

	PLANS & PRICING CONTACT SA	ES	SCHEDULE A ME	ETING J	JOIN A MEETING	HOST A MEETING 👻	0
PERSONAL Profile Meetings Webinars	Add Use Add users with You can add us accounts will b	"S their email addresses ers of all types to your account. If you enter the email address of account owners, all users on t e added to this account. Bgmail.com	heir			Document	
Phone Personal Contacts Recordings	User Type 💿	Basic Licensed On-Prem () Meeting (13 available) Large Meeting (0 available) Buy Licenses	*	Import 1 Phone	Export V	+ Add Users	
ADMIN	Department	Webinar (0 available) Buy Licenses		i 'hone	Edit		
Dashboard	Manager	Kis	0	i 'hone	Edit		
 User Management Users 	Job Title Location	Engineer Pland		i 'hone	Edit		
Group Management		Add	Cancel	i 'hone i	Edit		

Figure 1 : Add Users



2. A Zoom activation email is sent to the email address used in creating the user, follow the instruction to active the zoom account.

ZOOM SOLUTIONS - PLANS & P	PRICING	CONTACT SALES	RESOURCES ¥						SCHEDULE	JOIN H	iost 🕶	WHITEBOARD	NEW	
PERSONAL	Users	Zoom Room	s Common	Area Phones Cisco/Polyo	com Rooms									
Profile														
Meetings	Plan De	tails												
Webinars	Add	Import Exp	ort											
Phone	0.50	arch by Name Ext. o	Number			Package	(AII)		atus (AII)		Site //	AID.		_
Personal Contacts	C4 36	aren by Hame, EXL 0	- Humber			- Pockage	v- ur/	(areas (rai)	~	Site	wiy		J
Whiteboards NEW														
Recordings		Name ‡	Ext. \$	Package	Number(s)	0	Desk Phone(s)	User Status	Site	Group				
Settings							none(s)							
Analytics & Reports		abe >@tekvizio	8031	US/CA Unlimited			-	Active	Main Site				Assig	gr
ADMIN		n.com												
Dashboard		Abel			(469)									
> User Management		agu: v@tekvizi on.com	8030	US/CA Unlimited	Abel		Online	Active	Main Site				Assig	ĝi.
> Zoom Chat Management		Amul												
> Device Management		/ Oteloir	8029	US/CA Unlimited	(719)	(Online	Active	Main Site				Assig	gı
> Room Management		ion.com												
> Workspaces Management NEW		Amu												
 Phone System Management 		amulj 2@gma il.com	8028	US/CA Unlimited	(719)	l	Online	Active	Main Site				Assig	gr
Users & Rooms		Abhi												
Auto Receptionists		abhis '@g	8027	US/CA Unlimited		(OfflineOffline	Active	Main Site				Assig	gı
Call Queues														

3. Navigate to Phone System Management > Users & Rooms. Click Add.

Figure 2 : Add Users and Rooms

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



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.

	NS & PRICING CONTACT SALES							
PERSONAL	Users & Rooms > Users > Add	Users & Rooms > Users > Add						
Profile	Add Users							
Meetings	You can assign extension number	s to evicting users in your account. After that you can assign calling plans to						
Webinars	those users who need to make ou	tbound 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 Pro Features - Unlimited Domestic						
> User Management		·						
> Room Management	 Coosify a template to be assist 	and to user						
 Phone System Management 	 Specify a template to be assigned 	neu to users						
Users & Rooms	Save							
Auto Receptionists								
Call Queues								
Shared Lines								

Figure 4 : Assign Calling Plan

6. Select the newly added user, click Assign and select Assign Numbers.

ZOOM SOLUTIONS - PLANS	S & PRICING	CONTACT SALES	ESOURCES v						SCHEDULE J	DIN HOST v W		<u> </u>
Phone Personal Contacts	Q Sea	arch by Name, Ext. or N	umber				Package (All)	~) (St	atus (All)	V Site (All)		
Whiteboards NEW	Assign F	Packages Apply Temp	late Move Site Re	move Y								
Recordings		Name 🛟	Ext. ‡	Package	Number(s)	Desk Phone(s)	User Status	Site	Group			
Settings Analytics & Reports		Abc abe @tekvizion.co	8031	US/CA Unlimited			Active	Main Site			Assign ~	
ADMIN		Aba										
Dashboard		agu @tekvizion.c	8030	US/CA Unlimited	(469) Abel	Online	Active	Main Site			Assign ~	•••
> User Management		Amu										
> Zoom Chat Management		ans viltabrition	8029	US/CA Unlimited	(719)	Online	Active	Main Site			Assign 🖌	
> Device Management		com										
Room Management		Amu	8028	US/CA I Inlimited	(719)	[3] Online	Active	Main Site			Assim V	
> Workspaces Management		m	0020	03/CA Onlimited	(7 17)	Chance .	Active	Main Site		Assi	assign 👻	
Users & Rooms		Abh abhi 1900 agmail.	8027	US/CA Unlimited		Offline Offline	Active	Main Site		Assi	gn Numbers	
Auto Receptionists		com										

Figure 5 : Assign Numbers



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

Count	try/Region ited States	~				
Qs	Search		(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
Page	1 of 2	< > Page	Size 10 •	Total 12		
						Cancel

Figure 6 : Select DID Number

2.2 Add SIP Devices

- 1. Navigate to ADMIN -> Phone System Management -> Phones & Devices. Click Add.
 - Set Display Name: GXP2135-02 is set as an example.
 - Set MAC Address: add the GXP2135-02 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.



DERSONAL	2004							
- substitue	Assigned Unassigned		one					
Profile		Add Desk I II	one					
Meetings	Desk Phone Analog Telephone Adapter	Display Name	GXP2135-02				Update	Available NEW
Webinars		Description						
Phone	Add Export ()	(Optional)					Resync	by Account/Site
Personal Contacts	Q Search by User, Ext., MAC Address, or IP Ad		L	Device (All)	Brand (All)	V Status (Al	i) v Site	(All)
Whiteboards		MAC Address	c0-74-ad-44-51-00					
Recordings		Device Type	Other v					
Settings	Display : Device Type 1			ite	IP Address	Hot Desking (Signed In)	Provision Template	Call Cont 🙀 f Desktop Calei
Analytics & Reports			This device type supports up to 1 assignee.					
ADMIN	Ascom 0ther (Assigned To	Amul priya	4ain Site	192.168.19.100	Unsupported	Unsupported	Unsupported
Dashboard	TTR Assessed		Ext. 8028					
User Management	iti Ascom 163_3 Other (fain Site	192.168.19.100		Unsupported	Unsupported
> Zoom Chat Management			Cancel					
Device Management	🗍 📓 Avaya J179 Other 🛛		Ext. 8010 Provision	Main Site	172.17.13.35	Unsupported	Unsupported	Unsupported
Room Management								
Worksnaces Management	Avaya		Arun Kumar Offline	1997 - EN		144 194	- 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990	74 N.M.

Figure 7 : Add Desk Phone

- 2. Select the Display Name of the newly created Desk Phone to navigate to its profile and click the **Actions** and select **Provision** button. The SIP Account detail is displayed which will be used in the GXP2135-02 provisioning (section Provisioning through Phone's Web Interface).
- 3. Download the Certificates and import to the device, so that device will be considered in the trust list. (Importing the certificates to the phone is described later in (section 3.4.3 Apply trusted certificates)).

ZOOM SOLUTIONS - PLANS & PLANS	RICING CONTACT SALES RE	rovisioning	SCHEDULE
		AC Address c0-74-ad-44-51-00	
PERSONAL	Phones & Devices > Assigned	evice Type Other	
Profile			
Meetings	GXP2135-02 Renam		allian an unu ID abara Diana arfar
Webinars	No description	to your manufacturer's instructions for these processes.	calling on your IP phone. Please refer
Dhone	Profile		
Phone		u'll need following information for manual provisioning.	
Personal Contacts	Site		
Whiteboards NEW	Assigned To	SIP Account 1:	<u>^</u>
Recordings		I. SIP Domain: 7000766863.zoom.us	
Settings		2. Outbound Proxy: us01sip0h.sc.zoom.us:5091	
Analytics & Reports	IP Address	4. Authorization ID: 311	
	Device Type	5. Password: -	
ADMIN	Firmunan Varian		
Dashboard	Pirmware version	ease download DigiCert Global Root CA, DigiCert Global Root G2, DigiCert Global R	oot G3 and import to your IP phone if they
> User Management	MAC Address	e not in the trust list of the device.	_
> Zoom Chat Management	Provision Template	Note: Please note that Zoom support team will not be able to troubleshoot or	configure IP phones that are
> Device Management	Chabura	provisioned in this manner. Some Zoom Phone features may not work on man	ally provisioned phones. It may vary
> Room Management	Status	acpending on your desk prone model.	
> Workspaces Management NEW	Actions ~ Remove		
v Phone System Management			Close
ers & Rooms			

Figure 8 : Provisioning



3. Grandstream GXP2135 Provisioning

This section provides instructions on how to configure Grandstream GXP2135 to register to Zoom Phone Services.



3.1 Deployment Topology Diagram

Figure 9 : Network Diagram

3.2 Network

By default, GXP2135 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 GXP2135 by navigating the physical phone: **Menu -> Status -> Network Status**.

3.3 Firmware Upgrade

This section ensures the phone is upgraded with the required firmware. The firmware used for this test is **1.0.11.64** From the phone's home page, Navigate to: **Maintenance** -> **Upgrade and Provisioning.**



Grandstream GXP2135				Admin Logou	ut Reboot Prov	ision Factory Reset	English	~
	TREAM	STA	TUS ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK	<
~ 💫						Web Access	sioning	ŀ
Status	Account S	Status				Syslog Language TR-069		
Network Status	Account	SIP User ID	SIP Server	s	IP Registration	Security Settings Packet Capture	•	
System Info Programmable Keys 🕀 Status	Account 1 Account 2	25	7000766863	.zoom.us	YES NO			
Open Source Licenses	Account 3				NO			
	Account 4			I	NO			
				Copyright	© Grandstream N	letworks, Inc. 2022. Al	Rights Reserved	d.

- Figure 10 : Firmware Upgrade
- Click **Start** for Upgrade.
- Please select and upload the firmware file from the system and then click **Start** (Phone may have to restart to get applied with the changes).

Grandstream GXP2135				Admin Logou	t Reboot Prov	vision Factory Reset	English 🗸				
	GRANDSTREAM			SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK				
							Version 1.0.11.64				
Maintenance	Upgrade and Provi	sioning									
Web Access											
Upgrade and Provisioning	Upgrade	Start									
Syslog Language TR-069	Syslog Firmware Upgrade and Provisioning Language Always Authenticate Before Challenge				 Always check for new firmware Check new firmware only when F/W pre/suffix changes Always skip the firmware check No \ Yes 						
Security Trusted CA Certificates	Validate Hostname in Certificate Allow DHCP Option 43 and Option 66 to Override Server	 No O Yes No O Yes 	◯ Prefer, fallbac	k when failed							
Packet Capture	Additional Override DHCP Option Allow DHCP Option 120 to Override SIP Server	None Ves									
	3CX Auto Provision	O No 🔍 Yes									
	Automatic Upgrade	 No Yes, check Yes, check Yes, check 	for upgrade even for upgrade even for upgrade even	ry 1008 minu ry day ry week	te(s)						

Figure 11 : Firmware Upgrade (Cont.)

3.4 Provisioning

The GXP2135 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>C074</P270>
       <!-- SIP User ID -->
       <P35>25815XXXXXXXXXXX258</P35>
       <!-- Authenticate ID -->
       <P36>311390XXXX94</P36>
       <!-- Authenticate password -->
       <P34>4KXXXXXU</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>
```

2. From Web UI of phone, Click Factory Reset.

Grandstream GXP2135					Admin Log	jout Reboot Pro	vision Factory Reset	English 🗸
	TREAM		STATUS	ACCOUNTS	SETTINGS	8 NETWORK	MAINTENANCE	PHONEBOOK
~								Version 1.0.11.64
Status Account Status	Account S	Status						
Network Status	Account	SIP User ID		SIP Server		SIP Registration		
System Info	Account 1	25		7000766863	.zoom.us	YES		
Programmable Keys 🚭 Status	Account 2					NO		
Open Source Licenses	Account 3					NO		
	Account 4					NO		
					Copyrig	ht © Grandstream	Networks, Inc. 2022. A	Il Rights Reserved.

Figure 12 : Factory reset



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



Figure 13 : Factory reset - (Cont.)

4. Once the Phone reboots, enter the phone's IP address in the browser's address bar (https://ip-address) and enter. The default administrator username and password are admin. Input phone's username and enter the default password and click Login.

_									
J	Grandstream Executive IP Phone ×	+			\sim	-	ć	3	×
	← → C ▲ Not secure			07	Ê	☆		٠	:
			Contraction of the works Username Username Inguage English						

Figure 14 : Login details

5. Phone prompts to update with the **New Password** instead of Default password. Enter the **Current Password**, **New Password** and **Confirm Password**. Click **Save.** On saving, a notification appears saying that Password has been changed successfully.

Admin Password								
D Pleas	efault password is in us e update the login pas	se. sword.						
Current Password	•••••							
New Password	•••••							
Confirm Password	•••••							
	Save							
Password cha	Password changed successfully.							

Figure 15 : Login details - (Cont.)



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

Grandstream GXP2135				Admin Logout Reboot Pr	ovision Factory Reset English ~
	TREAM	STATUS	ACCOUNTS	SETTINGS NETWORK	MAINTENANCE PHONEBOOK Web Access
Status Account Status	Account S	Status			Syslog Language TR-069
Network Status System Info	Account	SIP User ID	SIP Server	SIP Registration	Security Settings Packet Capture
Programmable Keys - 5 Status	Account 1 Account 2			NO	
Open Source Licenses	Account 3 Account 4			NO NO	
				Copyright © Grandstream	Networks, Inc. 2022. All Rights Reserved.

Figure 16 : Provisioning through a HTTP server

7. Scroll down and look for **Config** header.

Grandstream GXP2135				Admin Logou	it Reboot Pro	vision Factory Reset	English	~
GRANDS	TREAM	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOO	ок
ſ							Version 1.0.11.	64
Maintenance Web Access	Upgrade and Provi	sioning						
Upgrade and Provisioning	Upgrade	Start						
Syslog Language	Firmware Upgrade and Provisioning	 Always ch Check nev Always ski 	eck for new firm v firmware only v ip the firmware c	ware when F/W pre/s theck	uffix changes			
TR-069	Always Authenticate Before	● No ○ Yes						
Security Settings 🛛 👄	Validate Hostname in Certificate	● No ○ Yes						
Security Trusted CA Certificates	Allow DHCP Option 43 and Option 66 to Override Server	O No 🖲 Yes	O Prefer, fallba	ck when failed				
Keypad Lock	Additional Override DHCP Option	Option 150	~					
Packet Capture	Allow DHCP Option 120 to Override SIP Server	● No ○ Yes						
	3CX Auto Provision	O No 🔍 Yes						
	Automatic Upgrade	 No Yes, check Yes, check Yes, check 	t for upgrade events t for upgrade events t for upgrade events	ery 1008 minu ery day ery week	ite(s)			
	Start Upgrade at Random Time	● No ○ Yes						
	Hour of the Day (0-23)	Start 1 🗸 E	End 0 🗸					
	Day of the Week (0-6)	1						
	Disable SIP NOTIFY Authentication	● No ○ Yes						
	Firmware Upgrade Confirmation	O No 🖲 Yes						

Figure 17 : Provisioning through a HTTP server - (Cont.)



- 8. Set HTTP in Config Upgrade via and enter (http://ipaddress:90/Folder Path) in Config Server Path.
- 9. Click Save and Apply.

Config	
Config Upgrade via	
Config Server Path	172 /lekha/
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
User Protection	● Off ○ On
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	
Firmware Server Path	fm.grandstream.com/gs
Firmware Server Username	
Firmware Server Password	
Firmware File Prefix	
Firmware File Postfix	
	Save Save and Apply Reset

Figure 18 : Provisioning through a HTTP server - (Cont.)

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

Grandstream GXP2135					Admin Logo	ut Reboot Pro	vision Factory Reset	English V
	TREAM		STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK
								Version 1.0.11.64
Status	Account S	Status						
Account Status								
Network Status	Account	SIP User ID		SIP Server		SIP Registration		
System Info	Account 1	25		7000766863	.zoom.us	YES		
Programmable Keys 🕀 Status	Account 2					NO		
Open Source Licenses	Account 3					NO		
	Account 4					NO		
					Copyrigh	t © Grandstream	Networks, Inc. 2022. A	Il Rights Reserved.

Figure 19 : Account Status



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 <u>2</u>. Add SIP Devices -> Provisioning).

- GXP2135 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, C074 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. SIP Authentication ID: Provide the SIP Authentication ID (from Zoom provisioning).
 - 7. SIP Authentication Password: **Provide the SIP Authentication Password** (from Zoom provisioning).
 - 8. Name: Enter the Name of your choice. Here, **8028** is used.
 - 9. Click Save and Apply.

Grandstream GXP2135				Admin Logou	t Reboot Prov	ision Factory Reset	English V
	D5 NG T	HE WORLD	STATUS ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK
C							Version 1.0.11.64
Accounts		General Settings					
Account 1	-						
General Settings		Account Active	🔿 No 🖲 Yes			7	
Dial Plan Network Settings		Account Name	C074				
SIP Settings	\$	SIP Server	7000766863.zoom.us				
Audio Settings		Secondary SIP Server				-	
Call Settings		Outbound Proxy	us01sip0b.sc.zoom.us:5091				
Intercom Settings		Gubband Hoxy	03013100113022001110313031				
Feature Codes		Secondary Outbound Proxy					
Account 2	4	BLF Server					
Account 3	÷	SIP User ID	25				
Account 4 Account Swap	ę	SIP Authentication ID	311			1	
		SIP Authentication Password	•••••				
		Name	8028				
		Voicemail Access Number					
		Picture	Select				
		Account Display	● Username ◯ User ID				
			Save Save and Apply	Reset			

Figure 20 : 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 GXP2135			Admin Logout Reboot	Provision Factory Reset	English V
	THE WORLD	STATUS ACCOUNTS	S SETTINGS NETWO	RK MAINTENANCE	PHONEBOOK
ſ					Version 1.0.11.64
Accounts	Network Settings				
General Settings Dial Plan	DNS Mode	SRV v			
Network Settings	DNS SRV Failover Mode	Saved one until no response	se ~		
SIP Settings 🕂	Register Before DNS SRV Failover	● No ○ Yes			
Audio Settings	Primary IP				
Call Settings Intercom Settings	Backup IP 1]		
Feature Codes	Backup IP 2				
Account 2 🕀	NAT Traversal	No 🗸]		
Account 3 🖶	Proxy-Require		-		
Account 4 🚭	Use SBC	● No ○ Yes			
		Save Save and Apply	Reset		

Figure 21 : Network Settings

- 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 GXP2135				Admin Logou	t Reboot Prov	ision Factory Reset	English ~	
GRANDS	TREAM	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK	
٢							Version 1.0.11.64	
Accounts Account 1 =	Basic Settings							
General Settings	Tel URI	Oisabled (User=phone	Enabled				
Network Settings	SIP Registration	O No 💿 Yes						
SIP Settings 🛛 👄	UNREGISTER on Reboot	● No ○ All	O Instance					
Basic Settings	Register Expiration	60						
Custom SIP Headers Advanced Features	Subscribe Expiration	60						
Session Timer	Reregister before Expiration	0						
Security Settings	Enable OPTIONS Keep-Alive	● No ○ Yes						
Audio Settings	OPTIONS Keep-Alive Interval	30						
Intercom Settings	OPTIONS Keep-Alive Max Tries	3						
Feature Codes	Local SIP Port	5060						
Account 2	Registration Retry Wait Time	20						
Account 3	SIP T1 Timeout	0.5 sec 🗸						
Account Swap	SIP T2 Timeout	4 sec v						
	Switch Backup Proxy on No	● No ○ Yes						
	SIP Transport							
	SIP Listening Mode	● Transport Only ◯ Dual ◯ Dual (Secured) ◯ Dual (BLF Enforced)						
	SIP URI Scheme When Using TLS	S Sip ● sips						
	Use Actual Ephemeral Port in Contact with TCP/TLS	No ○ Yes	(
	Outbound Proxy Mode	In route ⊂	Not in route O	Always send to				
	Support SIP Instance ID	🔿 No 💿 Yes						
	SUBSCRIBE for MWI	● No ○ Yes	(
	SUBSCRIBE for Registration	No ○ Yes	ſ.					
	Enable 100rel	No ○ Yes	í.					
	Callee ID Display	● Auto ○ D	isabled O To He	ader				
	Caller ID Display	● Auto ○ D	isabled O From	Header				
	Add Auth Header On Initial REGISTER	● No ○ Yes						
	Allow SIP Reset	● No ○ Yes	(
	Ignore Alert-Info header	● No ○ Yes						
		Save S	ave and Apply	Reset				

Figure 22 : 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 GXP2135			Admin Logou	it Reboot Prov	vision Factory Reset	English 🗸	
	TREAM	STATUS ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK	
C						Version 1.0.11.64	
Accounts Account 1	Session Timer						
General Settings	Enable Session Timer	🔿 No 🖲 Yes					
Dial Plan Network Settings	Session Expiration	180					
SIP Settings 📃	Min-SE	90					
Basic Settings	Caller Request Timer	● No ○ Yes					
Custom SIP Headers Advanced Features	Callee Request Timer	● No ○ Yes					
Session Timer	Force Timer	● No ○ Yes					
Security Settings	UAC Specify Refresher	◯ UAC ◯ UAS	ommended)				
Audio Settings Call Settings	UAS Specify Refresher	● UAC ○ UAS					
Intercom Settings	Force INVITE	● No ○ Yes					
Feature Codes		Save Save and Apply	Reset				

Figure 23 : SIP-Session Ti

- 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 GXP2135			Admin Logou	it Reboot Prov	vision Factory Reset	English 🗸	
	THE WORLD	STATUS ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK	
						Version 1.0.11.64	
Accounts Account 1 =	Audio Settings						
General Settings Dial Plan	Preferred Vocoder - choice 1	PCMU ~					
Network Settings	Preferred Vocoder - choice 2	PCMA ~					
SIP Settings	Preferred Vocoder - choice 3	G.723.1 ~					
Call Settings	Preferred Vocoder - choice 4	G.729A/B 🗸					
Intercom Settings	Preferred Vocoder - choice 5	G.722 (wide band) 🗸					
Feature Codes	Preferred Vocoder - choice 6	iLBC 🗸					
Account 2 👘	Preferred Vocoder - choice 7	G.726-32 🗸					
Account 3 👘	Preferred Vocoder - choice 8	OPUS ~					
Account 4	Use First Matching Vocoder in 2000K SDP	● No ○ Yes					
	Codec Negotiation Priority	◯ Caller					
	Hide Vocoder	● No ○ Yes					
	Configures to enable or disable multiple m lines in SDP.	● No ○ Yes					
	SRTP Mode	Enabled and Forced 🗸 🗸					
	SRTP Key Length	AES 128&256 bit 🗸					
	Crypto Life Time	🔿 No 🖲 Yes					
	Symmetric RTP	● No ○ Yes					
	Silence Suppression	● No ○ Yes					
	Jitter Buffer Type	Adaptive ~					
	Jitter Buffer Length	300ms 🗸					
	Voice Frames per TX	2					
	G723 Rate	○ 6.3kbps encoding rate	5.3kbps encodi	ng rate			
	G.726-32 Packing Mode	ITU ○ IETF					
	iLBC Frame Size	○ 20ms					
	iLBC Payload Type	97					
	Opus Payload Type	123					
	DTMF Payload Type	101					
	Send DTMF	🗆 in-audio 🗹 via RTP (RFC2	2833) 🗆 via SIF	PINFO			
	DTMF Delay	250					
		Save Save and Apply	Reset				

Figure 24: 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 GXP2135		Admin Logout Reboot Provision Factory Re					English 🗸
GRANDS	TREAM	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK
C							Version 1.0.11.64
Accounts Account 1 =	Advanced Features	5					
General Settings Dial Plan Network Settings SIP Settings Basic Settings Custom SIP Headers Advanced Features Session Timer Security Settings Audio Settings Call Settings Intercom Settings Feature Codes Account 2	Line-seize Timeout Eventlist BLF URI Auto Provision Eventlists Conference URI Music On Hold URI BLF Call-pickup BLF Call-pickup Prefix Call Pickup Barge-in Code PUBLISH for Presence Omit charset=UTF-8 in MESSAGE	15 Disabled O BLF Eventlist BLF Eventlist Disabled O Force BLF Call-pickup by prefix O Disabled Auto O Force BLF Call-pickup by prefix O Disabled ** Disabled O Enabled Disabled O Enabled 					
Account 3 👘	Anow Onsolicited REFER			habled/Force Al	utn		
Account 4	Special Feature	Zoom	~				
Account Swap	BroadSoft Call Center Hoteling Event Call Center Status BroadSoft Executive Assistant Feature Key Synchronization BroadSoft Call Park	 Disabled (Save Save Save Save Save Save Save Save	C Enabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled Automatic	Reset			

Figure 25: 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 GXP2135				Admin Logou	ut Reboot Prov	vision Factory Reset	English	~
	TREAM	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOO	ж
<u>r</u>							Version 1.0.11.6	64
Accounts Account 1 =	Feature Codes							
General Settings	Enable Local Call Features	🔿 No 💿 Yes		7				
Dial Plan Network Settings	Do Not Disturb (DND)							
SIP Settings	On							
Audio Settings Call Settings	Off							
Intercom Settings	Call Forward Always							
Feature Codes	On							
Account 2 🖓	Off							
Account 3 🖶	Taraat							
Account Swap								
	Call Forward Busy							
	On							
	Off							
	Target							
	Call Forward No Answe	r						
	On							
	Off							
	Target							
	Call Forward No Answer Timeout (s)	20						
		Save Sa	ive and Apply	Reset				

Figure 26: Feature Codes

- Navigate to Settings -> General Settings. Under General Settings header: Use Random Port is set to "No".
- Click Save and Apply.



		TREAM	STATUS	ACCOUNTS	SETTINGS	NETWORK	MAINTENANCE	PHONEBOOK
ſ								Version 1.0.11.64
Settings		General Settings						
BroadSoft External Service Call Features	÷	Local RTP Port Local RTP Port Range	5004 200					
Call History Multicast Paging		Use Random Port	● No ○ Yes					
Outbound Notification Preferences	ф ф	Use NAT IP	20					
Programmable Keys Web Service	el]a	STUN server Delay Registration	0					
XML Applications E911 Service		Test Password Strength	● No ○ Yes					
		Public Mode						
		Enable Public Mode Enable Fix For RTP Timestamp Jump	 Disabled C No O Yes) Enabled				
		Public Mode Username Prefix						
		Public mode osemanie Sullix	Save Sa	ave and Apply	Reset			

Figure 27: Settings-General Settings

3.4.3 Apply trusted certificates

In order to register the phone to zoom portal, ensure that the following certificates are uploaded in the phone successfully.

- From phone's Web UI, Click Maintenance.
- From the left side of window, Navigate to Security Settings -> Trusted CA Certificates.
- Click **Upload** and upload the following certificates: DigiCertGlobalRootCA.crt.pem, DigiCertGlobalRootG2.crt.pem, DigiCertGlobalRootG3.crt.pem, sbc_ca.pem.

Grandstream GXP2135					Admin Logo	ut Reboot Pro	vision Factory Reset	English	~
GRANDS			STAT	TUS ACCOUNT	S SETTINGS	NETWORK	MAINTENANCE	PHONEBOOI	к
C								Version 1.0.11.64	4
Maintenance Web Access	Trusteo	d CA Ce	rtificates						
Upgrade and	Index ID	Issued By	Expiration						
Provisioning	1	Blank	Blank	Upload	Delete				
Syslog	2	Blank	Blank	Upload	Delete				
Language	3	Blank	Blank	Upload	Delete				
TR-069	4			Upload	Delete				
Security Settings 📼	5			Upload	Delete				
Security	6			Upload	Delete				
Trusted CA Certificates	Lood CA C	artificates	All Core	tifaataa					
Keypad Lock	LOAD CA C	eruncates	All Cer						
Packet Capture			Save	Save and App	y Reset				
					Copyrigh	t © Grandstream	Networks, Inc. 2022. A	II Rights Reserve	d.

Figure 28: Trusted CA Certificates

