

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)
	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 <https://zoom.us/>.

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.

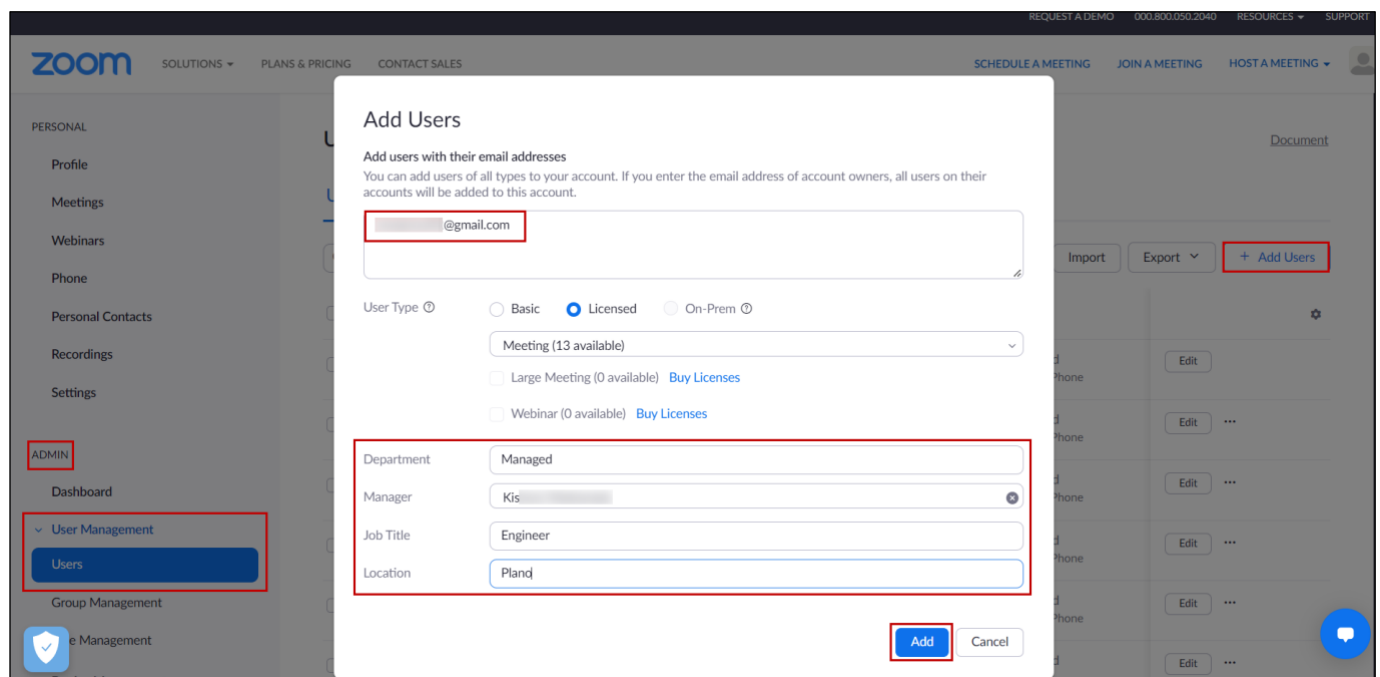


Figure 1 : Add Users

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

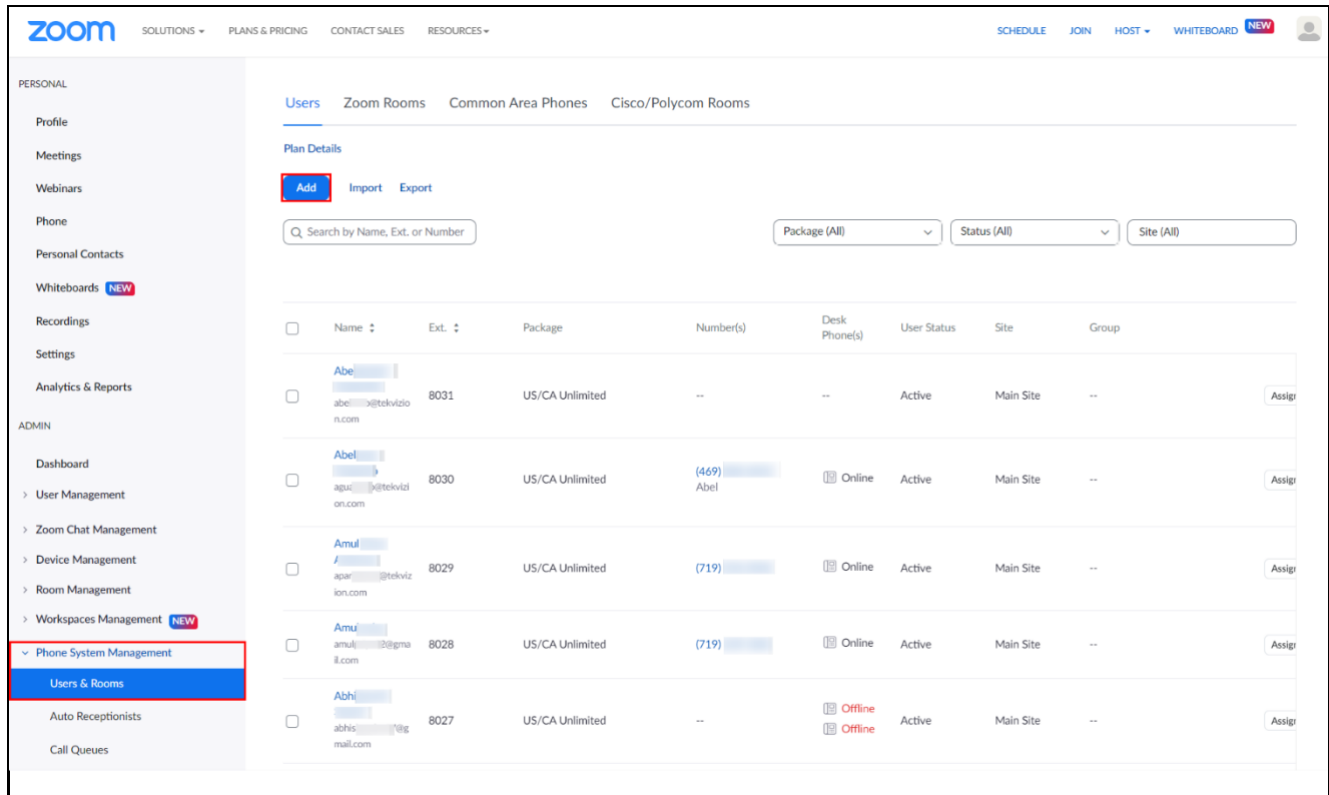


Figure 2 : Add Users and Rooms

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

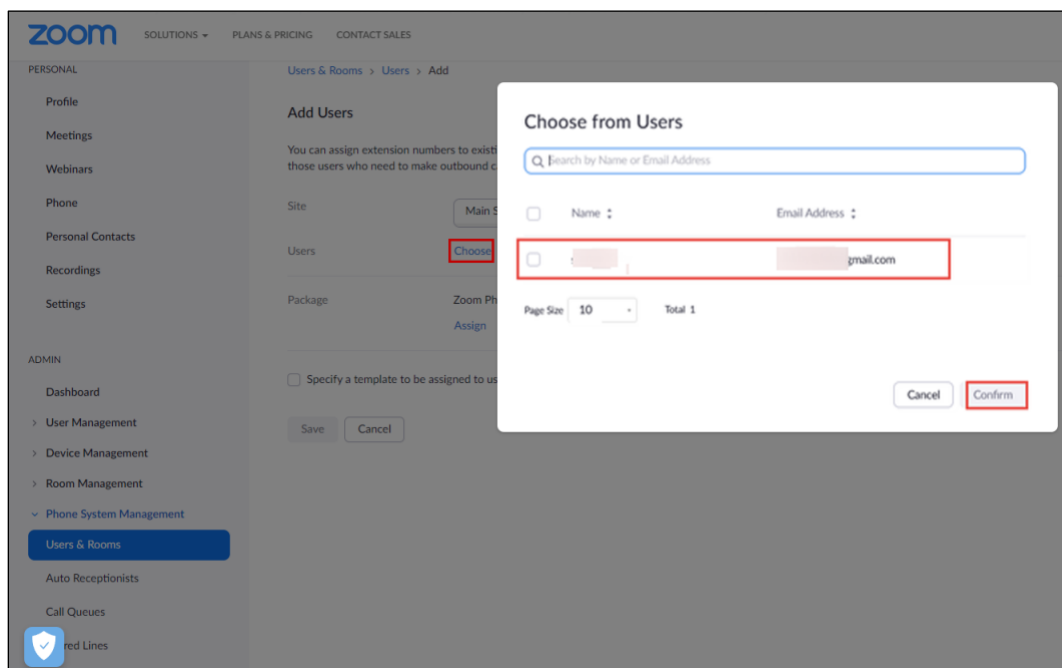


Figure 3 : Choose user

- 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.

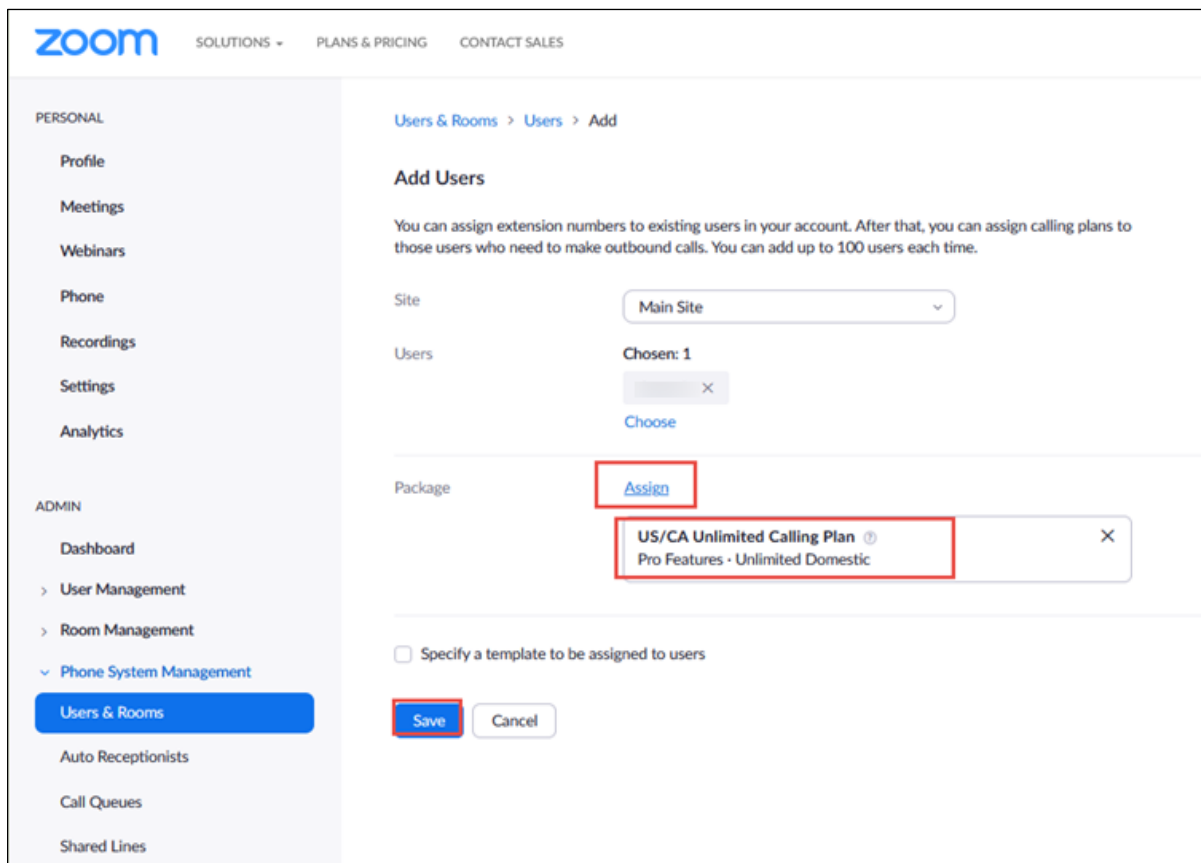


Figure 4 : Assign Calling Plan

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

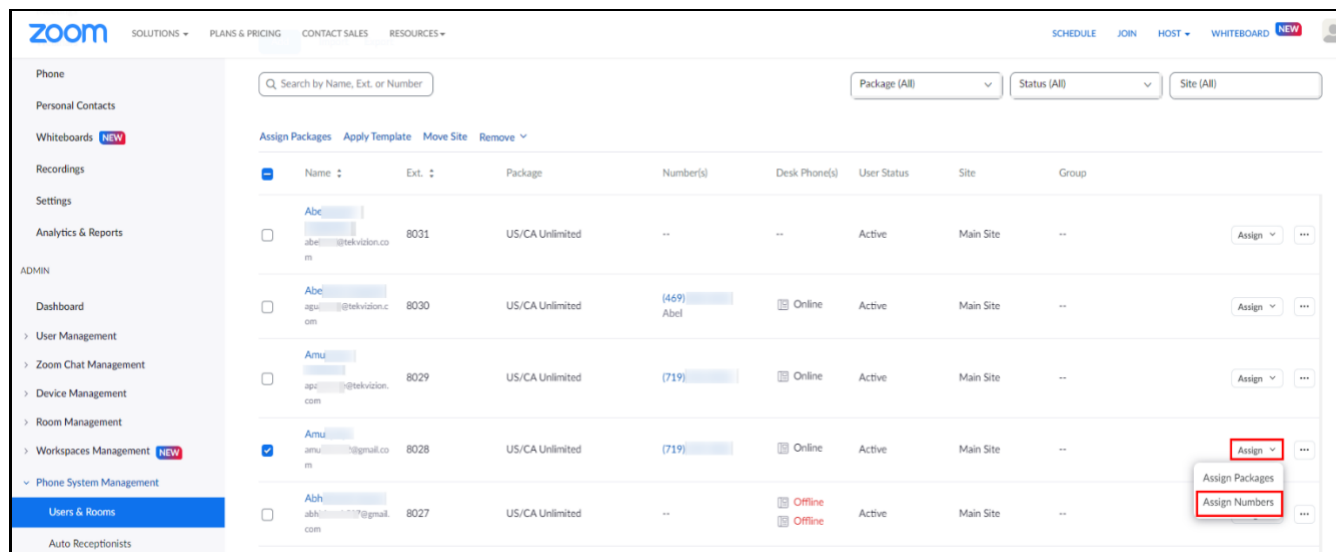


Figure 5 : Assign Numbers

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

Assign Numbers

Country/Region: United States

Search: Site (All) Number Type (All) Get Numbers

Number	Area	Number Type	Capability	Site
<input checked="" type="checkbox"/> (719)	Canon City, Colorado, United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site
<input type="checkbox"/>	United States	Toll Number	Incoming & Outgoing	Main Site

Page 1 of 2 Page Size 10 Total 12

Cancel Confirm

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**.

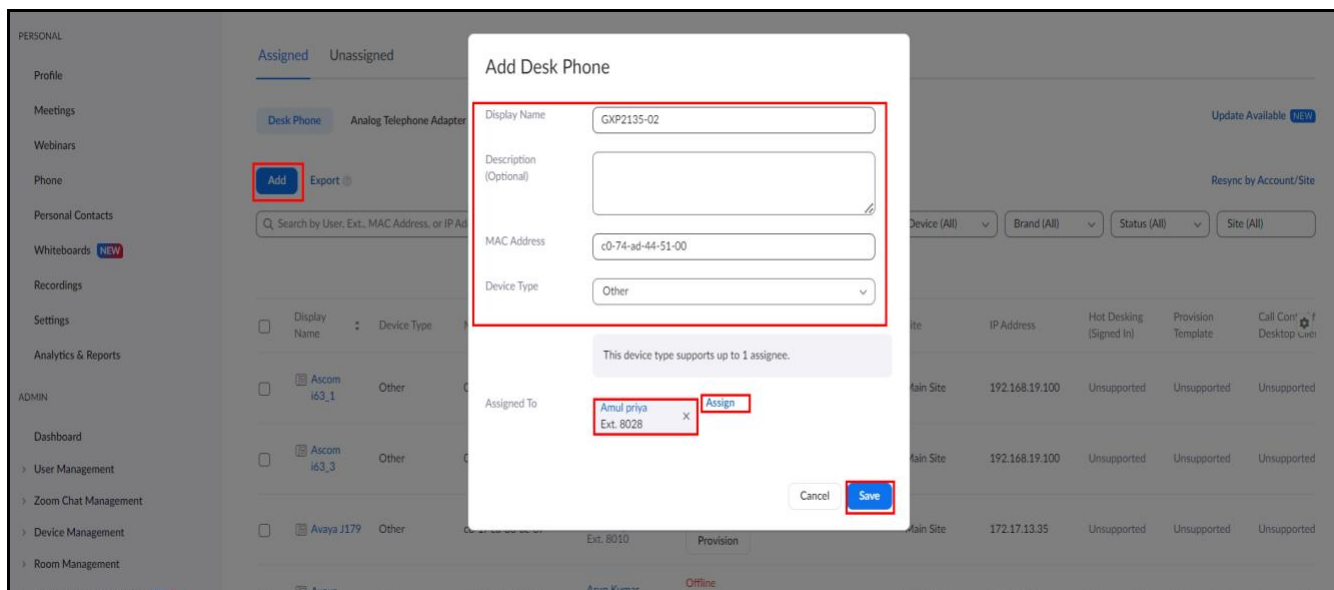


Figure 7 : Add Desk Phone

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](#))).

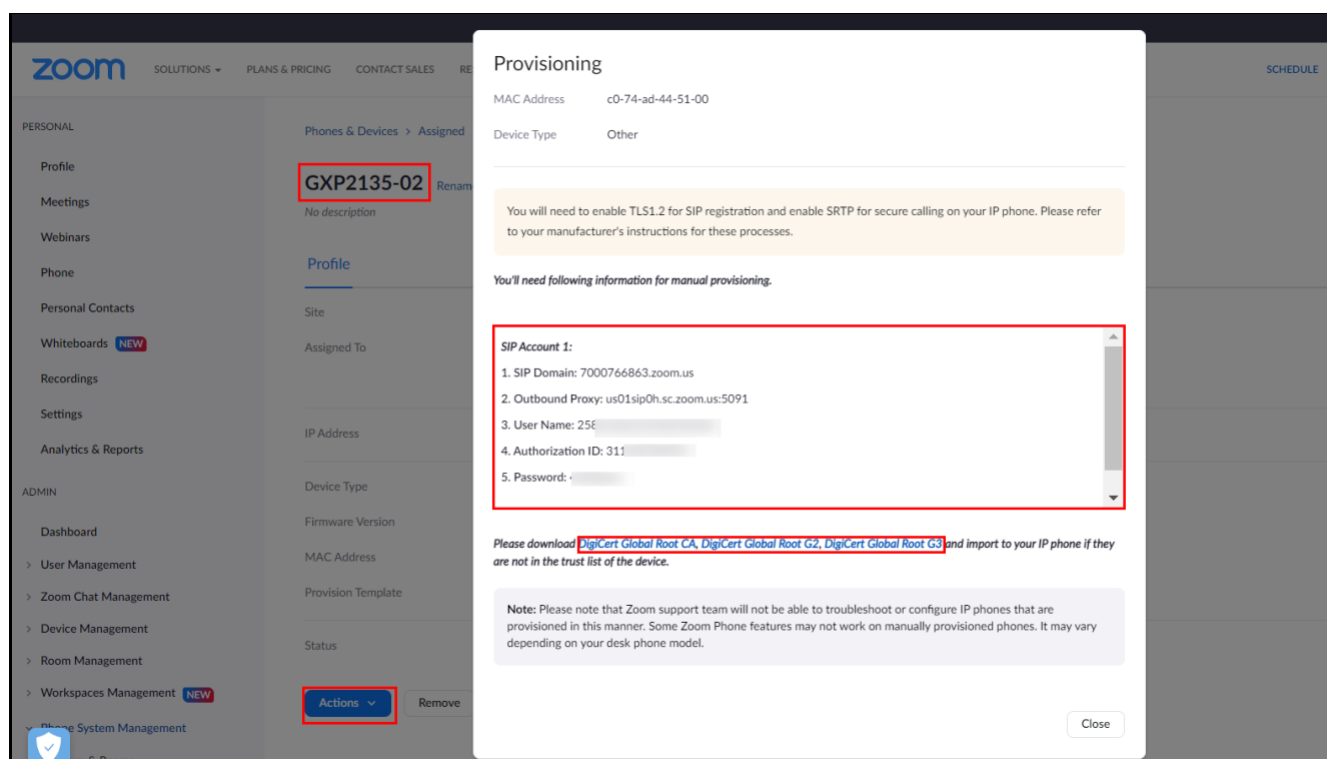


Figure 8 : Provisioning

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

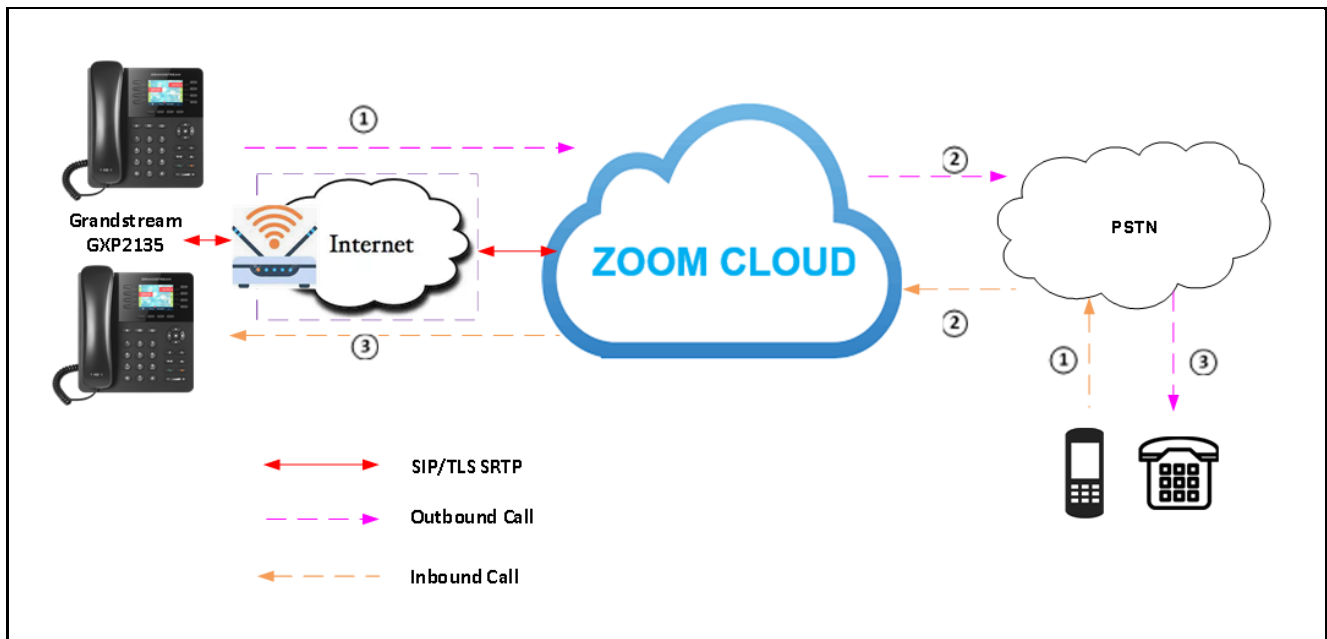


Figure 9 : Network Diagram

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**.

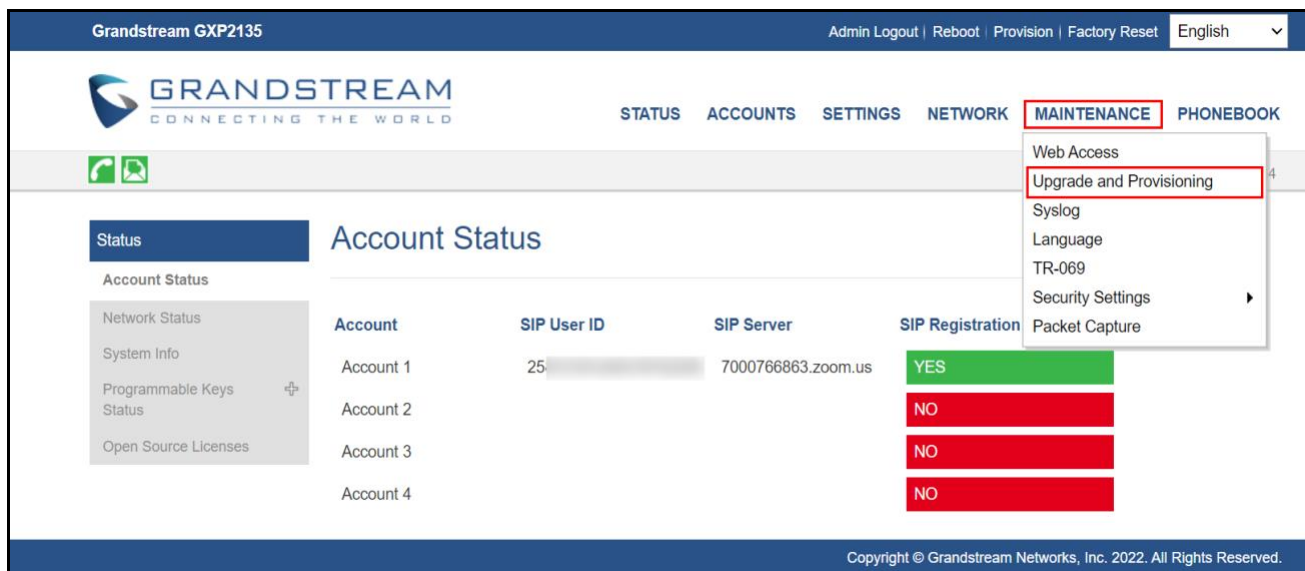


Figure 10 : Firmware Upgrade

- 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).

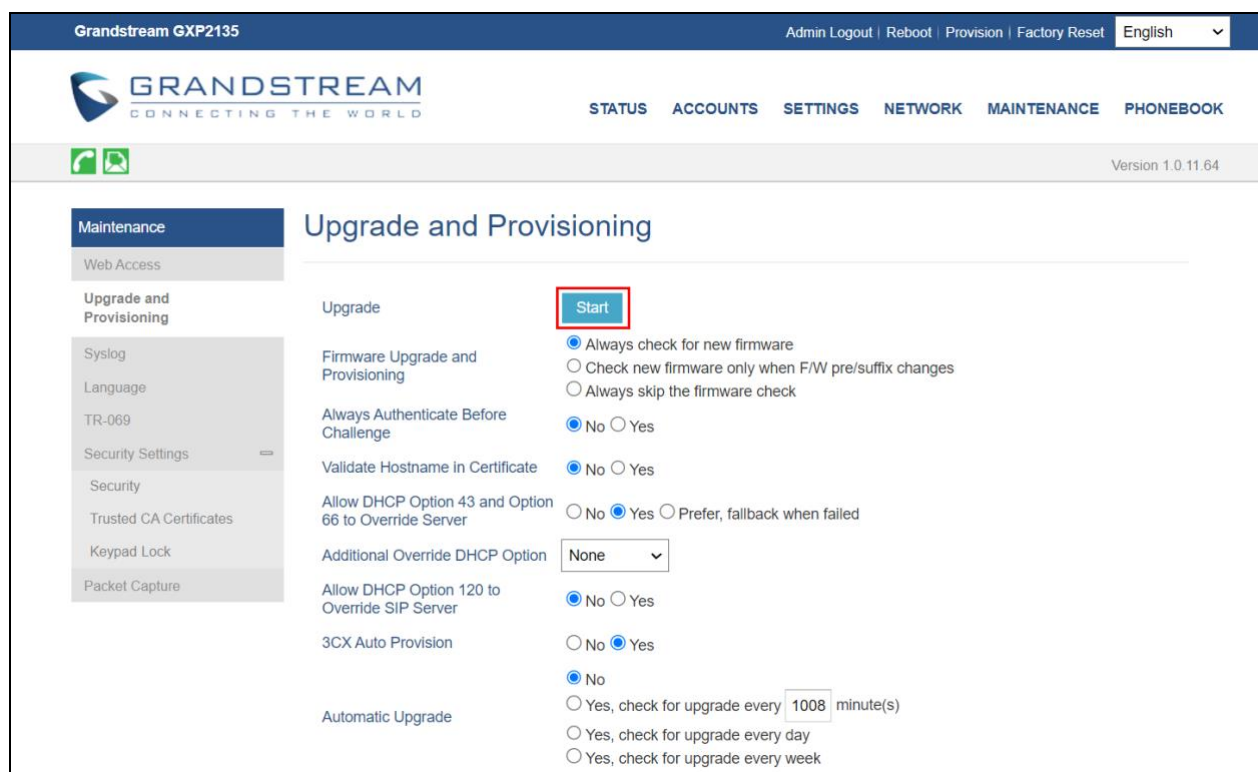


Figure 11 : Firmware Upgrade (Cont.)

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>25815XXXXXXXXXXXX258</P35>
      <!-- Authenticate ID -->
      <P36>311390XXXXX94</P36>
      <!-- Authenticate password -->
      <P34>4KXXXXXXU</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**.

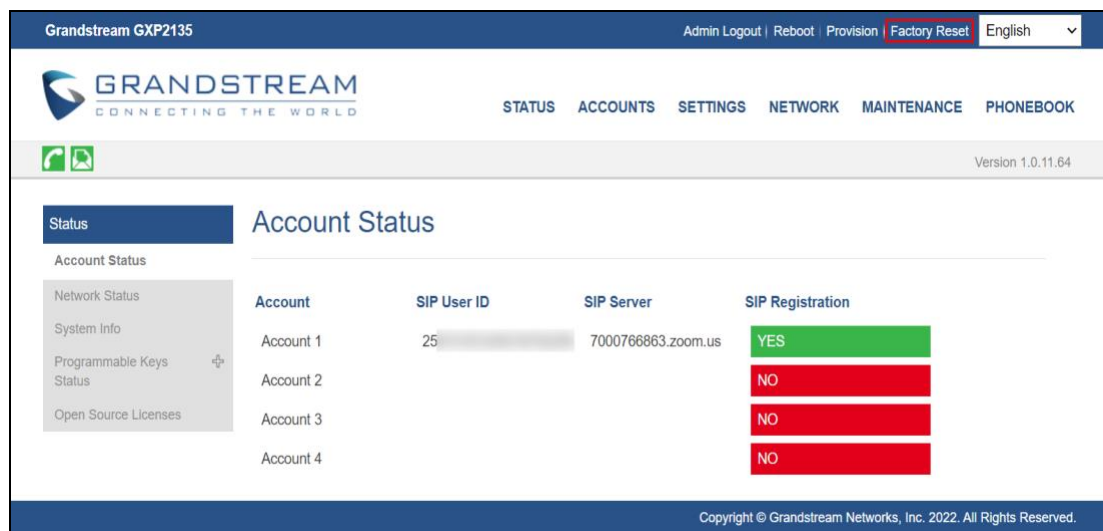


Figure 12 : Factory reset

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

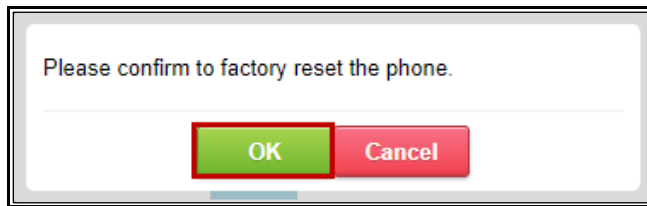


Figure 13 : Factory reset - (Cont.)

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**.

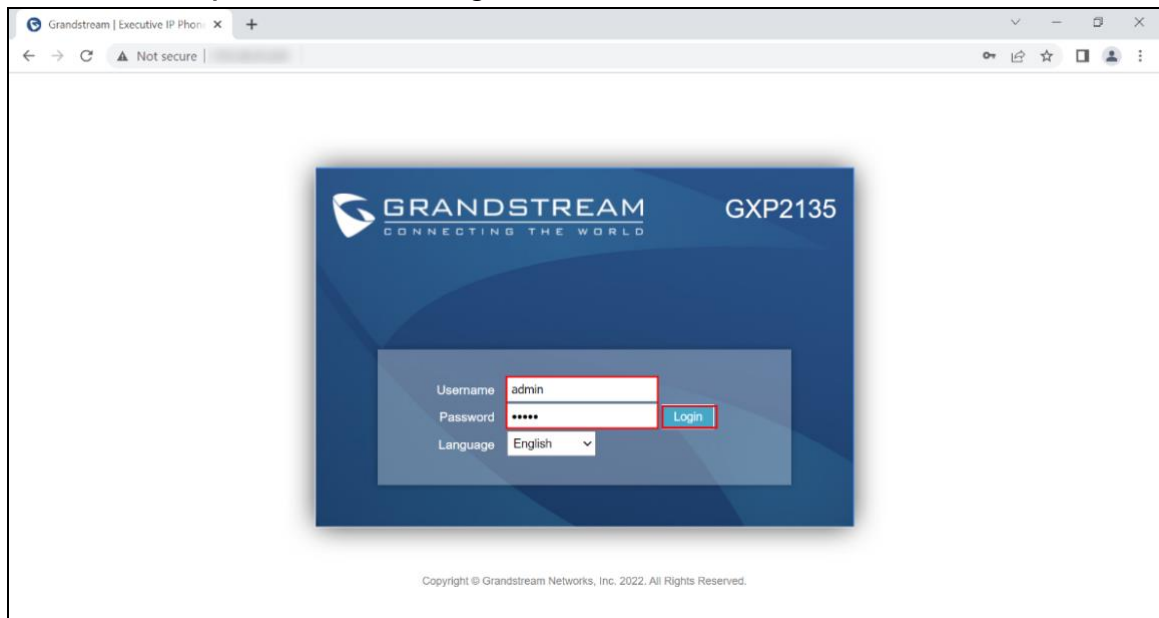


Figure 14 : Login details

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.

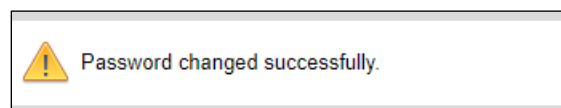


Figure 15 : Login details - (Cont.)

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

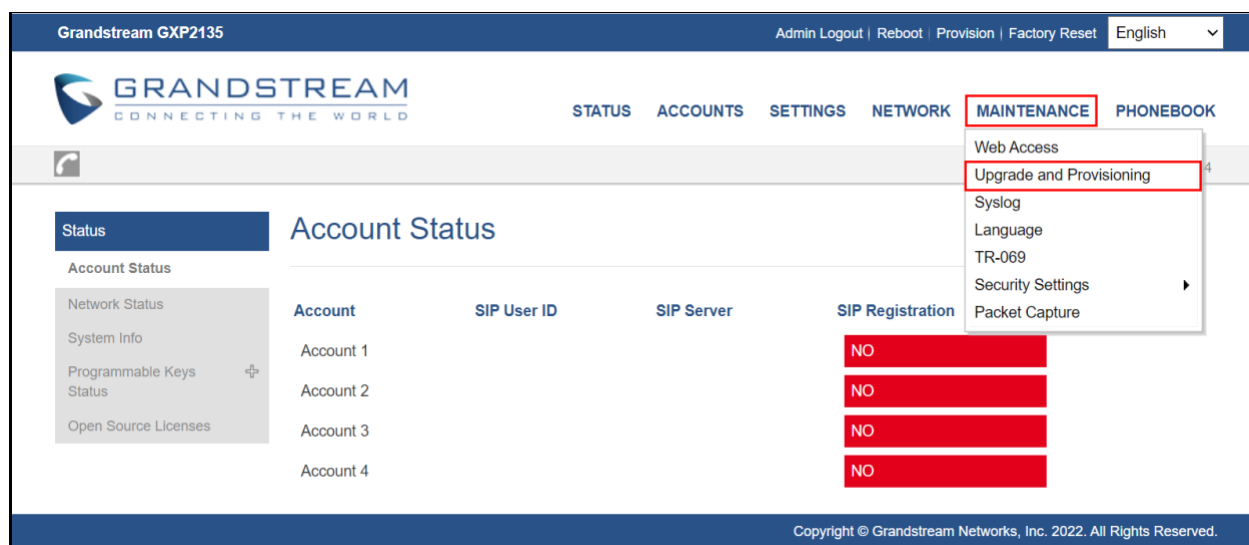


Figure 16 : Provisioning through a HTTP server

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

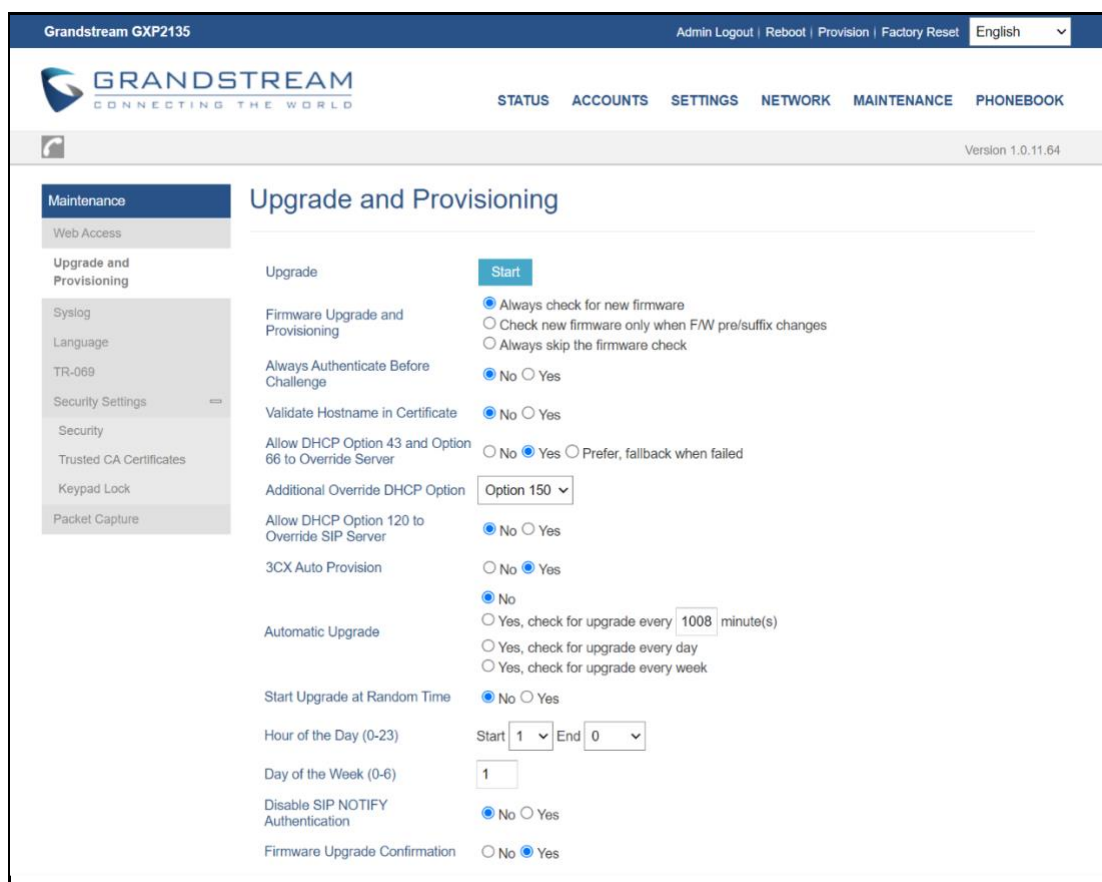


Figure 17 : Provisioning through a HTTP server - (Cont.)

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: ☐ TFTP ☒ HTTP ☐ HTTPS ☐ FTP ☐ FTPS

Config Server Path:

Config Server Username:

Config Server Password:

Config File Prefix:

Config File Postfix:

XML Config File Password:

Authenticate Config 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: ☐ TFTP ☒ HTTP ☐ HTTPS ☐ FTP ☐ FTPS

Firmware Server Path:

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 Logout | Reboot | Provision | Factory Reset | English

GRANDSTREAM
CONNECTING THE WORLD

STATUS ACCOUNTS SETTINGS NETWORK MAINTENANCE PHONEBOOK

Version 1.0.11.64

Status

Account Status

Account	SIP User ID	SIP Server	SIP Registration
Account 1	25	7000766863.zoom.us	YES
Account 2			NO
Account 3			NO
Account 4			NO

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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 [2. 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**.

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STATUS **ACCOUNTS** SETTINGS NETWORK MAINTENANCE PHONEBOOK

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Accounts

Account 1

General Settings

Dial Plan

Network Settings

SIP Settings

Audio Settings

Call Settings

Intercom Settings

Feature Codes

Account 2

Account 3

Account 4

Account Swap

General Settings

Account Active ☐ No ☒ Yes

Account Name C074

SIP Server 7000766863.zoom.us

Secondary SIP Server

Outbound Proxy us01sip0h.sc.zoom.us:5091

Secondary Outbound Proxy

BLF Server

SIP User ID 25

SIP Authentication ID 311

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**.

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Account 1

General Settings

Dial Plan

Network Settings

SIP Settings

Audio Settings

Call Settings

Intercom Settings

Feature Codes

Account 2

Account 3

Account 4

Account Swap

Network Settings

DNS Mode: SRV

DNS SRV Failover Mode: Saved one until no response

Register Before DNS SRV Failover: ☒ No ☐ Yes

Primary IP:

Backup IP 1:

Backup IP 2:

NAT Traversal: No

Proxy-Require:

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**.

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Basic Settings
Custom SIP Headers
Advanced Features
Session Timer
Security Settings
Audio Settings
Call Settings
Intercom Settings
Feature Codes
Account 2
Account 3
Account 4
Account Swap

Basic Settings

Tel URI ☒ Disabled ☐ User=phone ☐ Enabled

SIP Registration ☐ No ☒ Yes

UNREGISTER on Reboot ☒ No ☐ All ☐ Instance

Register Expiration 60

Subscribe Expiration 60

Reregister before Expiration 0

Enable OPTIONS Keep-Alive ☒ No ☐ Yes

OPTIONS Keep-Alive Interval 30

OPTIONS Keep-Alive Max Tries 3

Local SIP Port 5060

Registration Retry Wait Time 20

SIP T1 Timeout 0.5 sec

SIP T2 Timeout 4 sec

Switch Backup Proxy on No Response ☒ No ☐ Yes

SIP Transport ☐ UDP ☐ TCP ☒ TLS/TCP

SIP Listening Mode ☒ Transport Only ☐ Dual ☐ Dual (Secured)
☐ Dual (BLF Enforced)

SIP URI Scheme When Using TLS ☐ sip ☒ sips

Use Actual Ephemeral Port in Contact with TCP/TLS ☒ No ☐ Yes

Outbound Proxy Mode ☒ In route ☐ Not in route ☐ Always 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 ☐ Disabled ☐ To Header

Caller ID Display ☒ Auto ☐ Disabled ☐ From Header

Add Auth Header On Initial REGISTER ☒ No ☐ Yes

Allow SIP Reset ☒ No ☐ Yes

Ignore Alert-Info header ☒ No ☐ Yes

Save Save and Apply Reset

Figure 22 : SIP-Basic Settings

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

Grandstream GXP2135 Admin Logout | Reboot | Provision | Factory Reset English

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CONNECTING THE WORLD

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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

Session Timer

Enable Session Timer ☐ No ☒ Yes

Session Expiration	<input type="text" value="180"/>
Min-SE	<input type="text" value="90"/>
Caller Request Timer	<input checked="" type="radio"/> No <input type="radio"/> Yes
Callee Request Timer	<input checked="" type="radio"/> No <input type="radio"/> Yes
Force Timer	<input checked="" type="radio"/> No <input type="radio"/> Yes
UAC Specify Refresher	<input type="radio"/> UAC <input type="radio"/> UAS <input checked="" type="radio"/> Omit (Recommended)
UAS Specify Refresher	<input checked="" type="radio"/> UAC <input type="radio"/> UAS
Force INVITE	<input checked="" type="radio"/> No <input type="radio"/> Yes

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**.

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Audio Settings

Preferred Vocoder - choice 1
PCMU

Preferred Vocoder - choice 2
PCMA

Preferred Vocoder - choice 3
G.723.1

Preferred Vocoder - choice 4
G.729A/B

Preferred Vocoder - choice 5
G.722 (wide band)

Preferred Vocoder - choice 6
iLBC

Preferred Vocoder - choice 7
G.726-32

Preferred Vocoder - choice 8
OPUS

Use First Matching Vocoder in 200OK SDP
☒ No ☐ Yes

Codec Negotiation Priority
☐ Caller ☒ Callee

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 encoding rate

G.726-32 Packing Mode
☒ ITU ☐ IETF

iLBC Frame Size
☐ 20ms ☒ 30ms

iLBC Payload Type
97

Opus Payload Type
123

DTMF Payload Type
101

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

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.
 - Special Feature: Zoom.
 - Click **Save and Apply**.

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Intercom Settings

Feature Codes

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Account 3

Account 4

Account Swap

Advanced Features

Line-seize Timeout
15

Eventlist BLF URI

Auto Provision Eventlists
☒ Disabled ☐ BLF Eventlist

Conference URI

Music On Hold URI

BLF Call-pickup
☒ Auto ☐ Force BLF Call-pickup by prefix ☐ Disabled

BLF Call-pickup Prefix
**

Call Pickup Barge-in Code

PUBLISH for Presence
☒ Disabled ☐ Enabled

Omit charset=UTF-8 in MESSAGE
☒ Disabled ☐ Enabled

Allow Unsolicited REFER
☒ Disabled ☐ Enabled ☐ Enabled/Force Auth

Special Feature
Zoom

BroadSoft

BroadSoft Call Center
☒ Disabled ☐ Enabled

Hoteling Event
☒ Disabled ☐ Enabled

Call Center Status
☒ Disabled ☐ Enabled

BroadSoft Executive Assistant
☒ Disabled ☐ Enabled

Feature Key Synchronization
☒ Disabled ☐ Enabled

BroadSoft Call Park
☒ Disabled ☐ Enabled

Save
Save and Apply
Reset

Figure 25: SIP-Advanced Features

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

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Admin Logout | Reboot | Provision | Factory Reset
English

GRANDSTREAM
CONNECTING THE WORLD
STATUS ACCOUNTS SETTINGS NETWORK MAINTENANCE PHONEBOOK
Version 1.0.11.64

Accounts
Account 1
General Settings
Dial Plan
Network Settings
SIP Settings
Audio Settings
Call Settings
Intercom Settings
Feature Codes
Account 2
Account 3
Account 4
Account Swap

Feature Codes

Enable Local Call Features
☐ No ☒ Yes

Do Not Disturb (DND)

On
Off

Call Forward Always

On
Off
Target

Call Forward Busy

On
Off
Target

Call Forward No Answer

On
Off
Target

Call Forward No Answer Timeout (s)
20

Save Save 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**.

Settings

General Settings

BroadSoft

External Service

Call Features

Call History

Multicast Paging

Outbound Notification

Preferences

Programmable Keys

Web Service

XML Applications

E911 Service

General Settings

Local RTP Port: 5004

Local RTP Port Range: 200

Use Random Port: ☒ No ☐ Yes

Keep-Alive Interval: 20

Use NAT IP:

STUN server:

Delay Registration: 0

Test Password Strength: ☒ No ☐ Yes

Public Mode

Enable Public Mode: ☒ Disabled ☐ Enabled

Enable Fix For RTP Timestamp Jump: ☒ No ☐ Yes

Public Mode Username Prefix:

Public Mode Username Suffix:

Save Save 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.

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STATUS ACCOUNTS SETTINGS NETWORK **MAINTENANCE** PHONEBOOK

Version 1.0.11.64

Maintenance

Web Access

Upgrade and Provisioning

Syslog

Language

TR-069

Security Settings

Security

Trusted CA Certificates

Keypad Lock

Packet Capture

Trusted CA Certificates

Index ID	Issued By	Expiration	Upload	Delete
1	Blank	Blank	Upload	Delete
2	Blank	Blank	Upload	Delete
3	Blank	Blank	Upload	Delete
4			Upload	Delete
5			Upload	Delete
6			Upload	Delete

Load CA Certificates: All Certificates

Save Save and Apply Reset

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Figure 28: Trusted CA Certificates