

# Grandstream Networks, Inc.

Connecting GDS3710 with GRP261x IP Phones Configuration Guide





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## **SUPPORTED DEVICES**

Following table shows GRP261x products supporting GDS3710 integration:

Model	Supported		Firmware
Model	Audio	Video (JPEG)	riffiware
GRP2612 / GRP2612P / GRP2612W / GRP2613	Yes	No	1.0.1.23 or higher
GRP2614 / GRP2615 / GRP2616	Yes	Yes	1.0.1.23 or higher





## **INTRODUCTION**

GDS3710 HD is an IP video door system with a built-in hemispheric camera and some high-definition video capabilities. GDS3710 is ideal for monitoring from wall to wall without blind spots. Powered by an advanced Image Sensor Processor (ISP) and state of the art image algorithms, it delivers exceptional performance in all lighting conditions. It contains integrated PoE, LEDs, HD loudspeaker, RFID card reader, motion detector, lighting control switch, Alarm Input/output and more.

The GDS3710 IP video door system features industry-leading SIP/VoIP for 2-way audio and video streaming to smart phones and SIP phones, allowing to receive calls from GDS3710 on associated SIP phones when doorbell is pressed, opening door from the SIP phone, initiate calls from the phone to GDS3710 to get real time Video/Audio stream with GRP2614/GRP2615/GRP16. and only Audio stream with GRP2612/GRP2613 series.

The GDS3710 can be connected with a SIP phone in 2 different ways, either using peering mode (without a SIP server) or through a SIP server/registrar.

This guide illustrates needed configuration for integrating the GDS3710 with GRP261x Series for both peering and using SIP server scenarios.





#### PEERING SCENARIO

In this scenario, we assume that the GDS3710 is installed on a small warehouse at front door and GRP261x IP Phone inside to monitor and control the access of the premise. Visitors need to press the doorbell button on the GDS3710 to initiate a video/audio call, and the related person at the GRP261x IP Phone side can open the door remotely to allow the visitors to get in as shown in the figure below.

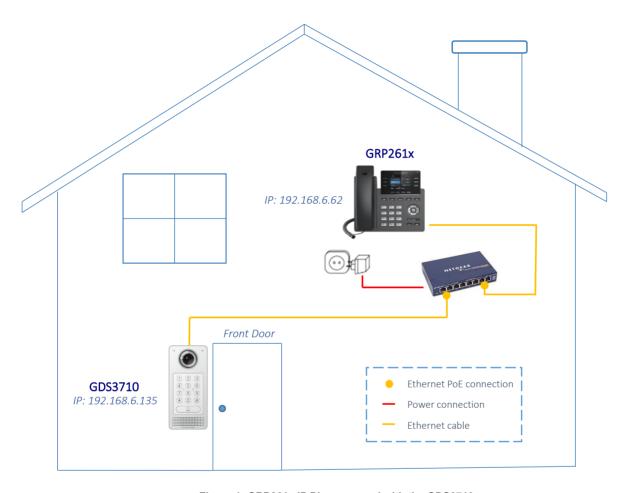


Figure 1: GRP261x IP Phone peered with the GDS3710

- The IP address used by the GDS3710 is 192.168.6.135.
- The IP address used by the GRP261x IP Phone is 192.168.6.62.

#### **GDS3710 Configuration Settings**

The GDS3710 needs to be configured with the IP address of the GRP261x IP Phone, the related SIP port, and remote PIN for door opening. Please refer to following configuration steps:

Access the GDS3710 Web GUI and navigate to "Door System Settings".





- 2. Choose the action to be taken when the doorbell is pressed, three options are available:
  - Call Doorbell Number: when Doorbell is pressed, a call will be made to the "Number Called When Door Bell Pressed"
  - Control Doorbell Output (Digital Output 1): when Door Bell is pressed electronic lock for Output 1 is opened.
  - **Both of Above**: When selected, both Call Doorbell Number and Control Doorbell Output options are enabled. In our case we will choose "Call Doorbell Number".
- 3. Under **Number Called When Door Bell Pressed** field, enter the GRP261x IP address and port number which is **192.168.6.62:5060** in our example.
- 4. Enter the "Remote PIN to Open the Door" in order to open the door via DTMF while in active call with the GDS3710, the remote PIN used in our example is "123456".
- 5. Click Save button to apply changes.

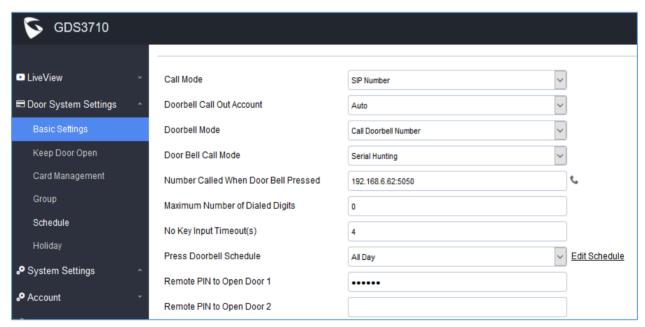


Figure 2: Door System Settings

6. You need to make sure that the Direct IP Call feature is enabled from the GDS3710 Web GUI under Phone Settings → Enable Direct IP Call.





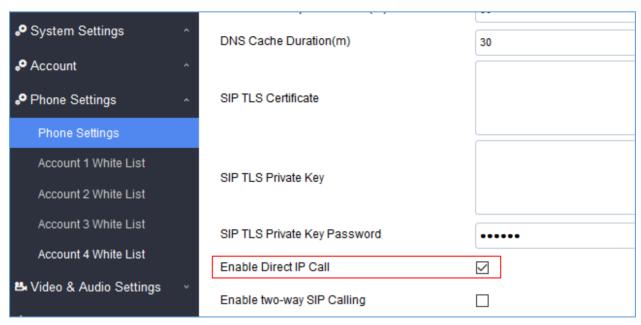


Figure 3: Enable Direct IP Call

#### **GRP261x IP Phone Configuration**

The GRP261x IP Phone related account needs to be set as "Active", and the "Local SIP Port" needs to match the port configured on GDS3710. Please refer to following steps for configuring the GRP261x IP Phone in order to interconnect with the GDS3710.

1. Access GRP261x IP Phone Web GUI  $\rightarrow$  Account  $\rightarrow$  General Settings and set "Account Active" to

Yes, then click on Save and Apply button to apply the new changes.

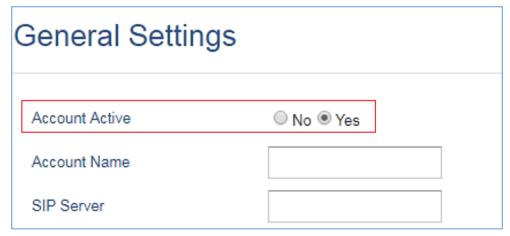
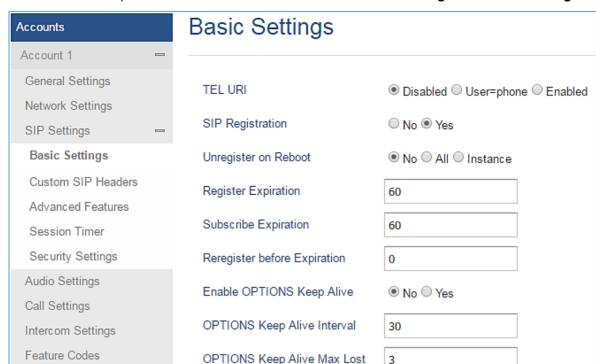


Figure 4: GRP261x Account(x) Settings

2. Navigate to **Account→SIP Settings** and verify that the **Local SIP Port** configured on the GRP261x IP Phone is the same as the one on the GDS3710.







Note: Make sure the option "Use Random Port" is set to "No" under Settings → General Settings

Figure 5: Account(x) SIP Settings

3

5060

- Navigate to Settings→External Service to configure GDS settings as explained on the following:
  - Set the Service Type to GDS.

4

Select the related account, in our example, the account used is **Account 1**.

Local SIP Port

- Specifies the System Identification, to identify the GDS3710, in our example its "GDS3710\_Front\_Door".
- Specifies the System Number which is the GDS3710 number, the system number used in our example is 192.168.6.135.
- Configures the Access Password for opening the door remotely and it should match the password configured under "Remote PIN to Open the Door" on the GDS3710 Web GUI settings. The password used in our example is "123456".



Account 2

Account 3



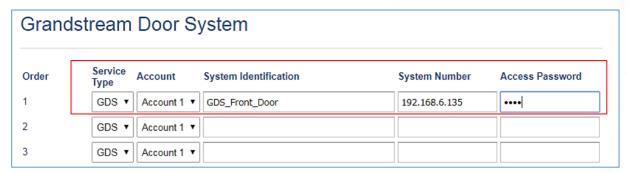


Figure 6: GDS3710 Configuration Settings on GRP261x IP Phone

4. Press Save and Apply button to apply the new settings.

Note: The GRP261x IP Phones support up to 10 GDS3710 items.





## **CONNECTION USING SIP SERVER**

In this scenario, we assume that the GDS3710 is configured with a SIP account and the GRP261x IP Phone is also configured with a SIP account under the same SIP server.

**Note:** We recommend using Stateless SIP server in this type of installations, Stateful SIP servers may not work.

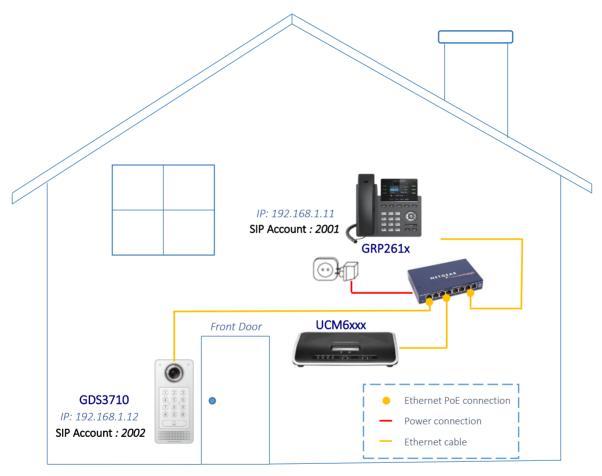


Figure 7: GRP261x Connected to GDS3710 through UCM6XXX

- The IP address used by the GDS3710 is 192.168.1.12 and it is configured with SIP account **2002**.
- The IP address used by the GRP261x IP Phone is 192.168.1.11 and it is configured with SIP account **2001**.
- The SIP server has the IP address 192.168.1.10.





#### **GDS3710 Configuration Settings**

As mentioned on the previous diagram, the GDS3710 should be registered with a SIP account in order to interact with the GRP261x IP Phone through the SIP server.

The GDS3710 SIP settings are available under the Web GUI→SIP Settings→SIP Basic Settings.

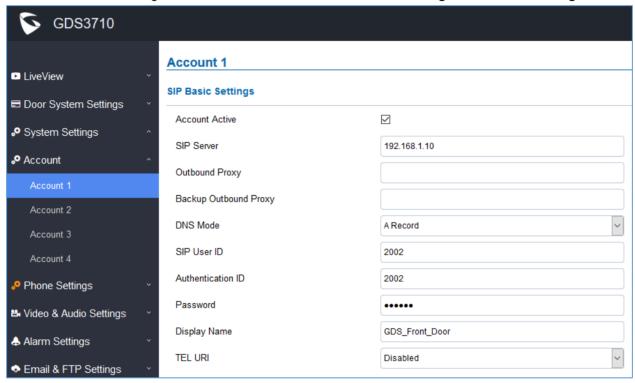


Figure 8: SIP Basic Settings

After configuring the SIP account correctly, user needs to configure the door system settings as detailed on the following steps:

- 1. Navigate to **Door System Settings → Basic Settings** then set the following:
  - Doorbell Mode: Call Doorbell Number.
  - Number Called When Door Bell Pressed: the GRP IP Phone number which is 2001 in our example.
  - Remote PIN to Open the Door: the remote PIN used in our example is "123456".

Note: Please make sure to check "Enable DTMF Open Door"

2. Click Save button to apply changes.





The following figure shows an example of the configuration.

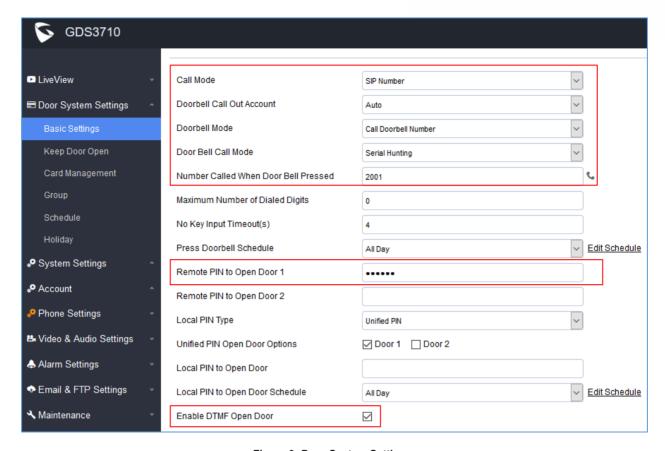


Figure 9: Door System Settings

## **GRP261x IP Phone Configuration Settings**

A SIP account needs to be registered on the GRP261x IP Phone side as well to interact with the GDS3710 trough the same SIP server.

The GRP261x SIP settings are available under the Web  $GUI \rightarrow Account(x) \rightarrow General Settings$ .





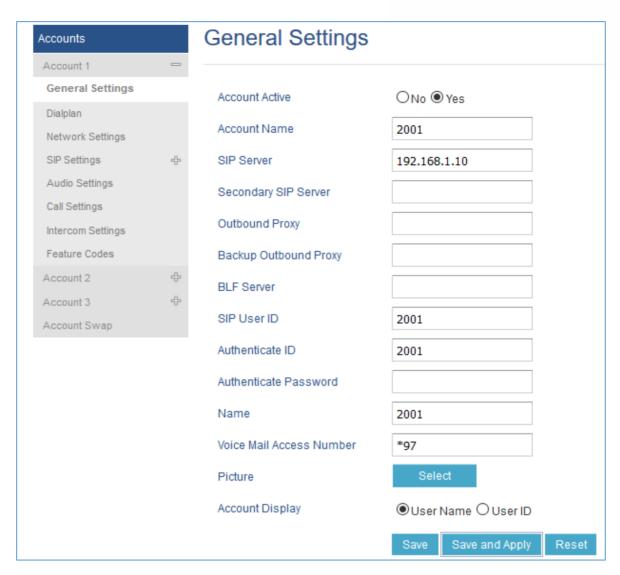


Figure 10: General Settings

After configuring the SIP account correctly, users need to configure the door system settings as detailed on the following steps:

- 1. Navigate to **Settings**→**External Service** and set the following:
  - Set the Service Type to GDS.
  - Select the related account, in our example, the account used is **Account 1**.
  - Specifies the **System Identification**, to identify the GDS3710, in our example its "GDS3710\_Front\_Door".
  - Specifies the System Number which is the GDS3710 number, the system number used in our example is 2002.
  - Configures the Access Password which is the "Remote PIN to Open the Door" configured on the GDS3710 Web GUI settings. The password used in our example is "123456".





2. Press Save and Apply button to apply the new settings.

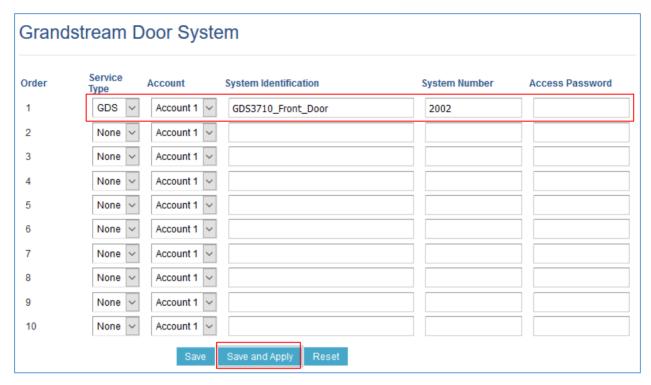


Figure 11: GDS Settings

#### Notes:

- The GRP261x IP Phones support up to 10 GDS3710 items.
- GRP2612 and GRP2613 series support audio only.
- GRP2614/GRP2615/GRP2616 series support audio and video (JPEG) when integrated with GDS3710.





#### **OPEN DOOR FEATURE**

GRP261x IP Phones offer a powerful integration with GDS3710 Door System and allow users to remotely open the door, initiate calls to the GDS3710 and get real time audio/video or only audio stream.

Once someone presses the ring button on the GDS3710, the door system will initiate automatically a call to the configured destination. In both cases, the users will have the ability to either answer the call, reject it or press the **OpenDoor** softkey.

Users can open the door using the following methods:

#### 1. Pressing the "OpenDoor" Softkey without answering the call:

Once the users press the "OpenDoor" softkey, a SIP Message containing the code for "Remote PIN for Open the Door" will be sent to the GDS3710 to remotely open the door.

#### 2. OpenDoor after answering the call:

- Press the "OpenDoor" Softkey, then a SIP Message containing the code for "Remote PIN for Open the Door" will be sent to the GDS3710 to remotely open the door.
- Dial the code for "Remote PIN for Open the Door" followed by "#" (for example "123456#"), and then DTMF codes will be sent to open the door.

Note: Pressing the "Reject" Softkey will reject the call received from the GDS3710.

#### **GRP2614/GRP2615/GRP2616 IP Phones**



Figure 12: GDS3710 Video/Audio Call on GRP2614/GRP2615/GRP2616





## **GRP2612/GRP2613 IP Phones**

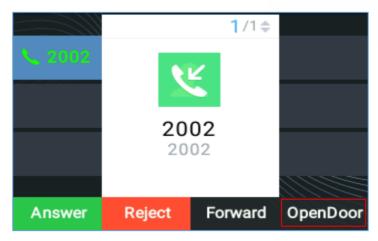


Figure 13: GDS3710 Audio Call on GRP2612/GRP2613

