

Grandstream Networks, Inc.

Connecting GDS3710 with GXV32XX Configuration Guide





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INTRODUCTION

GDS3710 HD IP Video Door System is a hemispheric IP video door phone and a high-definition IP surveillance. 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 and get real time audio/video stream.

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.

This guide describes needed configuration for both peering and using SIP server scenarios. In this guide, GXV3275 will be used as SIP phone and UCM6XXX as SIP server.





PEERING SCENARIO

We assume that the GDS3710 is installed on a small warehouse at front door and GXV3275 inside to monitor and control the access of the premise. Employees can swipe the RFID card to get in, while visitors need to press the Door Bell to initial video call and the related person at the GXV3275 side need to type the key PIN to open the door remotely to allow the visitors to get in as shown in the figure below.



Figure 1: GXV3275 peered with the GDS3710

- The IP address used by the GDS3710 is 192.168.5.123.
- The IP address used by the GXV3275 is 192.168.5.124.

Settings Configuration on the GDS3710 Side

The GDS3710 needs to be configured with the IP address of the GXV3275 and related SIP port, and remote PIN for door opening. (the second account will be used on the GXV3275 for this example, when using third or fourth... accounts, the port number associated to each port is needed 5064,5066...).

Access the GDS3710 webGUI and navigate to "**Door System Settings** \rightarrow **Basic Settings**" then set the following as shown on the figure below:





GDS3710			English ~ Logou
			2018-10-01 13:0
	Door System Settings		
	Delay before Unlock Action(s)	0	
Door System Settings ^	Unlock Action Holding Time(s)	5	
Basic Settings	Minimum Interval of Swiping Card(ms)	300	
Keep Door Open	Snapshot when Door Opened		
Card Management	Snapshot when Doorhall Pressed	via FTP via Fmail	
Group	Shapanot when boonbein ressed		
Schedule	Call Mode	SIP Number	
Holiday	Deerbell Made		
System Settings · · · · · · · · · · · · · · · · · · ·			J
sIP Settings	Door Bell Call Mode	Serial Hunting •	
🖴 Video & Audio Settings 🛛 🐇	Number Called When Door Bell Pressed	192.168.5.124:5060	
👃 Alarm Settings	Maximum Number of Dialed Digits	0	
Email & ETP Settings	Press Doorbell Schedule	All Day 🔻	Edit Schedule
Maintananaa	Remote PIN to Open Door		•
• maintenance •	Local PIN Type	Unified PIN T]
• Status ·	Local PIN to Open Door		•

Figure 2: Door System Settings

1. 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".

- 2. The option "Door Bell Call Mode" can be used when multiple phones are configured to be called when pressing the doorbell button. Users can set this option to:
 - Serial Hunting: the configured extensions and/or IP addresses will ring one after one by order.
 - **Parallel Hunting:** The configured extensions and/or IP addresses will ring simultaneously (up to 4 simultaneous SIP calls).
- 3. Enter the IP address and port number of the GXV3275 which is 192.168.5.124:5062 for the second account on the GXV3275.
- 4. Enter the "Remote PIN to Open the Door" in order to open the door by sending a SIP message from the phone while in active call with the GDS3710.

5. Click Save in order to apply changes.

Make sure that the Direct IP Call feature is active from the GDS3710 WebGUI under "SIP Settings \rightarrow SIP Advanced Settings" then click on "Enable Direct IP Call".





SIP Settings	^			
SIP Basic Settings		SIP TLS Certificate		
SIP Advanced Settings				
White List		SID TI S Drivete Key		
🛎 Video & Audio Settings	~	SIP TES Private Key		
🜲 Alarm Settings	~	SIP TLS Private Key Password	·····	•
Email & FTP Settings	~	Enable DTMF	RFC2833 SIP INFO	
A Maintenance	~	Enable Keep Alive		
 Status 	~	Enable Direct IP Call		
		Enable two-way SIP Calling		
		SIP Proxy Compatibility Mode		
		Unregister On Reboot		

Figure 3: Enable Direct IP Call

Settings Configuration on the GXV3275 Side

The GXV3275 related Account need to be set as "Active", and correct "Local SIP Port" need to be configured at the GDS3710 side. These are the basic settings to make the peering scenario work.

1. On the GXV3275 webGUI navigate under "Account → General Settings" and set "Account

Active" to Yes, then click	s on Save	and	in order to apply new changes.	

	Status	Acco	ount	Advanced	Settings	Maintena	nce		
Original Settings		Accou	nt 1	Account 2	Account 3	Accoun	t 4	Account 5	Account 6
log Network Settings									
SIP Settings				Account Activ	/e :				
Codec Settings				Account Nan	ne :				
🛜 Call Settings				SIP Serv	er :				
				SIP User	ID :				

Figure 4: GXV3275 General Settings

Navigate to "Account → SIP Settings" and verify that the "Local SIP Port" set on the GXV3275 side is the same as the one on the GDS3710.

	Status	Account	Advanced	Settings	Maintenance		
General Settings		Account 1	Account 2	Account 3	Account 4	Account 5	Account 6
🔞 Network Settings							
SIP Settings			SIP Registratio	n:			
Codec Settings	Unre	gister Before I	New Registratio	n :	Instance		
🔞 Call Settings		Regist	er Expiration (m	n):	60		
	R	e-register befo	ore Expiration (s):	0		
	R	Registration Re	try Wait Time (s	s):	20		
			Local SIP Po	rt :	5062		
		SUB	SCRIBE for MV	VI :	• Yes		







CONNECTION USING SIP SERVER

In case of multiple GDS3710 and GVX32XX are available, a SIP server needs to be set in order to communicate between different devices.

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

The following shows a sample setup.



Figure 6: GXV32XX Connected to GDS3710 through UCM6XXX

Settings Configuration on the GDS3710 Side

A SIP account needs to be registered on the GDS3710 to interact with other devices.

This can be done by entering the GDS3710 WebGUI under "SIP Settings \rightarrow SIP Basic Settings", then type the SIP account related information and click on Save





S GDS3710			
	SIP Basic Settings		
LiveView ~	SIP Registration Status	Online	
Door System Settings ~	Account Name	GDS	
System Settings ~	SIP Server	192.168.5.125	
SIP Settings	Outbound Proxy		
SIP Basic Settings	Backup Outbound Proxy		
SIP Advanced Settings	DNS Mode	A Record	
White List	SIP User ID	1000	
💾 Video & Audio Settings 🛛 🗸	Authentication ID	1000	
Alarm Settings	Password	· · · · · · · · · · · · · · · · · · ·	ີ
Email & FTP Settings ~	TEL URI	Disabled T	
🔧 Maintenance 🛛 🗸 🗸			

Figure 7: SIP Basic Settings

Go to "Door System Settings \rightarrow Basic Settings" then set the following:

- 1. Doorbell Mode set to "Call Doorbell Number".
- 2. Number Called When Door Bell Pressed (assuming 1001 is the GXV3275 number).
- 3. Remote PIN to Open the Door.

The following figure shows an example of the configuration done.

S GDS3710			
▶ LiveView ×	Door System Settings		
Door System Settings	Delay before Unlock Action(s)	0	
Basic Settings	Unlock Action Holding Time(s) Minimum Interval of Swiping Card(ms)	300	
Keep Door Open Card Management	Snapshot when Door Opened	 Image: A start of the start of	
Group	Snapshot when Doorbell Pressed	📄 via FTP 📄 via Email	
Schedule Holiday	Call Mode	SIP Number •	
• System Settings	Doorbell Mode	Call Doorbell Number	
SIP Settings	Door Bell Call Mode Number Called When Door Bell Pressed	Serial Hunting •	e.
 Video & Audio Settings Alarm Settings 	Maximum Number of Dialed Digits	0	
Email & FTP Settings	Press Doorbell Schedule	All Day	Edit Schedule
A Maintenance ·	Local PIN Type	Unified PIN T	۲
③ Status v	Local PIN to Open Door		۲







White List Settings

Any number calling the GDS3710 extension will have its call auto answered. To restrict allowed numbers to call the GDS3710, user needs to navigate under "SIP Settings \rightarrow White List".

- 1. Check Enable White Number List.
- 2. Click on Add to add numbers allowed to dial the GDS3710.
- 3. Click Save to apply the settings.

S GDS3710			English ~
D Live//iew	White List		2018-10-0
Door System Settings ^	Enable White Number List		
System Settings ^	No.	Phone Number	•
SIP Settings	1	1001 📞	
SIP Basic Settings			
SIP Advanced Settings			
White List			
🖴 Video & Audio Settings 🛛 ~			
		Figure 9: White List	

The example above shows that only phone number 1001 is allowed to call the GDS3710.

Settings Configuration on the GXV32XX Side

A SIP account needs to be registered on the GXV3275 side as well to interact with other devices available on the local network.

This can be done by entering the GXV3275 Web GUI under "Account → General Settings", then type the

	Save		VlggA	
SIP account relater information and click on		and		to apply new changes.

	Status	Account	Advanced	l Settings	Maintenance		
Or General Settings		Account 1	Account 2	Account 3	Account 4	Account 5	Account 6
🔞 Network Settings							
SIP Settings			Account Acti	/e :			
Codec Settings			Account Nan	ne :	GXV3275		
R Call Settings			SIP Serv	er :	192.168.5.125		
			SIP User	ID :	1001		
		SIP A	uthentication	ID :	1001		
		SIP Authentic	ation Passwo	rd :			
		Voice Mail	Access Numb	er :			
			Nan	ne :			
		Show Acco	ount Name Or	ily :	Yes		
			Tel U	RI :	Disable		

Figure 10: General Settings





Users could configure "Remote PIN to Open the Door" on the GXV32XX WebGUI to open the door with a single click.

This can be done from the GXV32XX web UI \rightarrow Advanced Settings \rightarrow GDS Settings and set the following:

- 1. Click on "Add New Item" (The GXV32XX supports up to 10 GDS3710 devices).
- 2. Enter the "GDS Name", it can be any name to identify the GDS3710, in our case its "open".
- 3. Enter the "GDS Number", in our case its "1000".
- 4. Enter the "GDS Password" which is the password set on "Remote PIN to Open the Door" on the GDS3710.

	Status	Account	Advanced Settings	Maintenance	
Or General Settings			_		0
🄏 Call Features					
Video Settings	No.	GDS Name	e GE	S Number	
Tone Generator	□ 1 		e A	dd New Item	
Multicast Paging	2		••• •	dd New Item	×
GDS Settings	3		GDS Name:	open	
MPK General Settings	4		GDS Number:	1000	
MPK LCD Settings	5		GDS Password	•••••	
	6				
	7		Save	Cancel	
	8			do new item	

Figure 11: GDS Settings

Once the user presses the ring button on the GDS3710, an INVITE will be sent to the GXV32xx phone and the GDS3710 stream will be played on the GVX phone with a button that appears on the left side panel named "open" which is the "GDS Name". If users press the "open" button, a SIP message will be sent to the GDS3710 in order to open the door as shown below.



Figure 12: Open Door from GVX32xx

