

PEERING ONE GXW42xx WITH MULTIPLE GXW410x

A common scenario which involves a GXW42xx (FXS gateway) and multiple GXW410x (FXO gateway) but doesn't involve any SIP server. This scenario allows organization with remote location to access FXO trunks through IP network.

CONFIGURATION OF THE GXW42xx & MULTIPLE GXW410xx SCENARIO

GXW42xx CONFIGURATION

Maintenance -> Network Settings

- STUN Server – Blank

Profiles -> Profile 1

General Settings:

- SIP server – Set to IP address of 1st GXW 410x

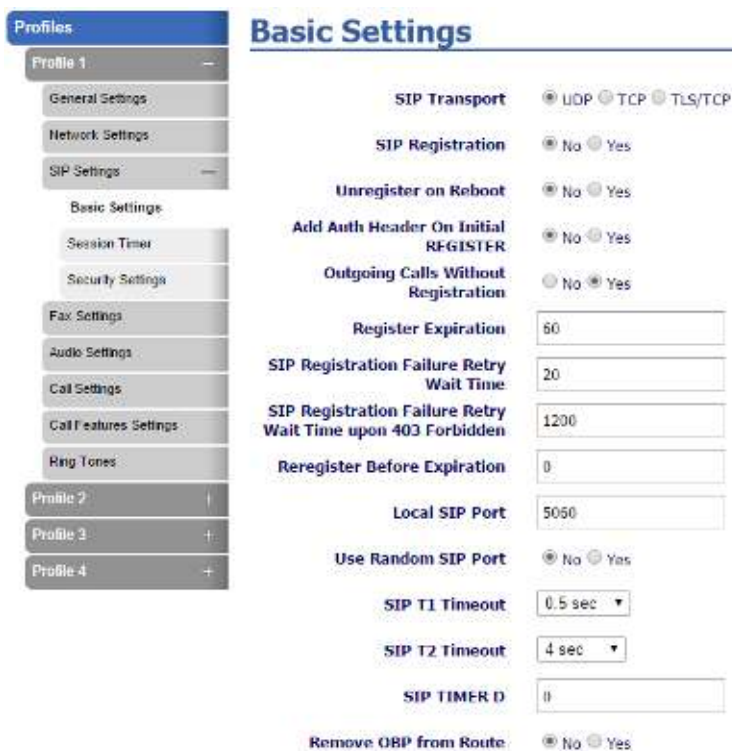
Network Setting

- NAT traversal – No

SIP Settings -> Basic Settings:

- SIP registration - No
- Outgoing Call without Registration – NO
- Local SIP Port - 5060

Maintenance -> Network Settings



The screenshot displays the 'Basic Settings' configuration page for 'Profile 1' in the Grandstream management interface. On the left, a sidebar lists various configuration categories: Profiles, General Settings, Network Settings, SIP Settings, Basic Settings (selected), Session Timer, Security Settings, Fax Settings, Audio Settings, Call Settings, Call Features Settings, Ring Tones, and Profile 2, 3, 4. The main content area is titled 'Basic Settings' and contains the following configuration options:

- SIP Transport:** Radio buttons for UDP (selected), TCP, and TLS/TCP.
- SIP Registration:** Radio buttons for No (selected) and Yes.
- Unregister on Reboot:** Radio buttons for No (selected) and Yes.
- Add Auth Header On Initial REGISTER:** Radio buttons for No (selected) and Yes.
- Outgoing Calls Without Registration:** Radio buttons for No (selected) and Yes.
- Register Expiration:** Text input field with the value 60.
- SIP Registration Failure Retry Wait Time:** Text input field with the value 20.
- SIP Registration Failure Retry Wait Time upon 403 Forbidden:** Text input field with the value 1200.
- Reregister Before Expiration:** Text input field with the value 0.
- Local SIP Port:** Text input field with the value 5060.
- Use Random SIP Port:** Radio buttons for No (selected) and Yes.
- SIP T1 Timeout:** Dropdown menu set to 0.5 sec.
- SIP T2 Timeout:** Dropdown menu set to 4 sec.
- SIP TIMER D:** Text input field with the value 0.
- Remove ORP from Route:** Radio buttons for No (selected) and Yes.

Profiles -> Profile 2

General Settings:

- SIP server – Set to IP address of 2nd GXW 410x

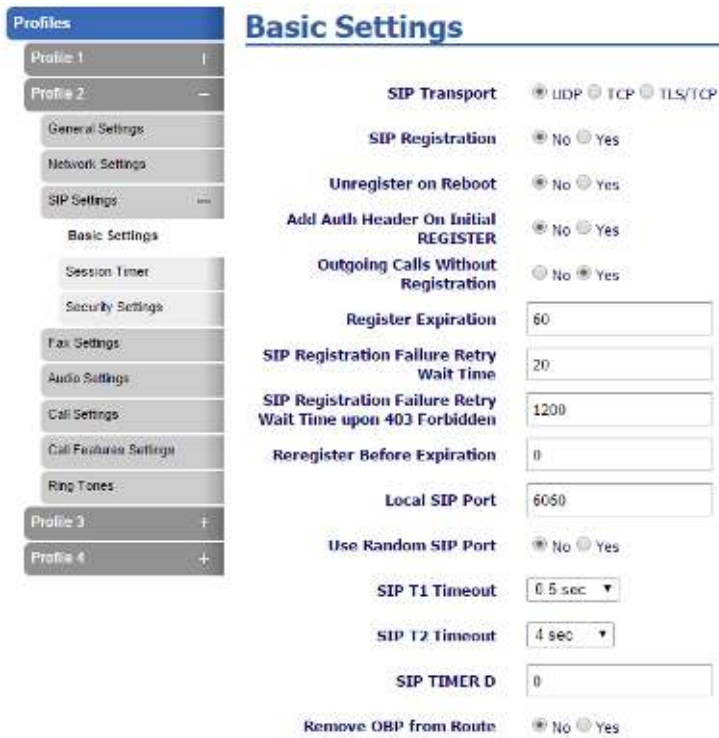
Network Setting

- NAT traversal – No

SIP Settings -> Basic Settings:

- SIP registration - No
- Outgoing Call without Registration – NO
- Local SIP Port - 6060

Maintenance -> Network Settings



The screenshot shows the 'Basic Settings' page for Profile 2 in the Grandstream configuration interface. On the left is a sidebar with a 'Profiles' menu and a list of settings categories: General Settings, Network Settings, SIP Settings (selected), Basic Settings, Session Timer, Security Settings, Fax Settings, Audio Settings, Call Settings, Call Feature Settings, Ring Tones, Profile 3, and Profile 4. The main content area is titled 'Basic Settings' and contains the following configuration options:

Setting	Value
SIP Transport	☒ UDP ☐ TCP ☐ TLS/TCP
SIP Registration	☐ No ☒ Yes
Unregister on Reboot	☐ No ☒ Yes
Add Auth Header On Initial REGISTER	☐ No ☒ Yes
Outgoing Calls Without Registration	☐ No ☒ Yes
Register Expiration	60
SIP Registration Failure Retry Wait Time	20
SIP Registration Failure Retry Wait Time upon 403 Forbidden	1200
Reregister Before Expiration	0
Local SIP Port	6060
Use Random SIP Port	☐ No ☒ Yes
SIP T1 Timeout	0.5 sec
SIP T2 Timeout	4 sec
SIP TIMER D	0
Remove OBP from Route	☒ No ☐ Yes

FXS Ports:

Port Settings:

- Port 1 - 8 -> User ID: 123
- Port 1 - 8 -> Profile 1
- Port 1 - 8 -> Enable FXS - Yes
- Port 9 - 16 -> User ID: 123
- Port 9 - 16 -> Profile 2
- Port 9 - 16 -> Enable FXS - Yes

FXS Ports

Port Settings

Port Settings

Advanced Port Settings

FXS Mapping

Port	SIP User ID	Authenticate ID	Password	Name	Profile	Enable FXS (TR-069)
FXS 1	123				Profile 1	☐ No ☒ Yes
FXS 2	123				Profile 1	☐ No ☒ Yes
FXS 3	123				Profile 1	☐ No ☒ Yes
FXS 4	123				Profile 1	☐ No ☒ Yes
FXS 5	123				Profile 1	☐ No ☒ Yes
FXS 6	123				Profile 1	☐ No ☒ Yes
FXS 7	123				Profile 1	☐ No ☒ Yes
FXS 8	123				Profile 1	☐ No ☒ Yes
FXS 9	123				Profile 2	☐ No ☒ Yes
FXS 10	123				Profile 2	☐ No ☒ Yes
FXS 11	123				Profile 2	☐ No ☒ Yes
FXS 12	123				Profile 2	☐ No ☒ Yes
FXS 13	123				Profile 2	☐ No ☒ Yes
FXS 14	123				Profile 2	☐ No ☒ Yes
FXS 15	123				Profile 2	☐ No ☒ Yes
FXS 16	123				Profile 2	☐ No ☒ Yes

Save
Save and Apply
Reset

1ST GXW 410x CONFIGURATION:

Settings -> General Settings:

- STUN server – Blank

FXO lines -> Dialing:

Dialing to PSTN:

- Wait for dial tone – Y or N (whichever suits your FXO lines)
- Stage Method – 1

Settings -> Channels Settings

Calling to VoIP:

- User ID: ch1-8:123;
- Sip Server: ch1-8; p1;
- Sip Destination Port: 5060++

FXO lines -> Settings:

Port Caller ID Setting:

- Number of Rings Before Pickup: ch1-8:4;

Accounts -> Account 1:

General Settings:

- SIP Server: Set it to IP address of GXW42xx

SIP Settings:

- SIP registration – No

Network Settings:

- NAT traversal – No

Dialing to PSTN

Wait for Dial-Tone(Y/N): (default No)

Stage Method(1/2): (default 2 stage dialing)

Min Delay Before Dialing Out: (default 500ms, 50 ~ 65000ms)

Calling to VoIP

Unconditional Call Forward to Following:

User ID: (i.e ch1-2:223;ch3:224)

SIP Server: (ch1-2:p1;ch3:p2)

SIP Destination Port: (ch1-2:5060;ch2:7080)

Port Caller ID Setting

Number of Rings Before Pickup: (1-50, default 4)

Caller ID Scheme: (1-11, default 1)

- 1 - Bellcore/Telcordia
- 2 - ETSI-FSK during ringing
- 3 - ETSI-FSK prior to ringing with DTAS
- 4 - ETSI-FSK prior to ringing with LR
- 5 - ETSI-FSK prior to ringing with RP
- 6 - ETSI-DTMF during ringing
- 7 - ETSI-DTMF prior to ringing with DTAS
- 8 - ETSI-DTMF prior to ringing with LR
- 9 - ETSI-DTMF prior to ringing with RP
- 10 - SIN 227 - BT
- 11 - NTT - Japan

2ND GXW 410X CONFIGURATION:

Settings -> General Settings:

- STUN server – Blank

FXO lines -> Dialing:

Dialing to PSTN:

- Wait for dial tone – Y or N (whichever suits your FXO lines)
- Stage Method – 1

Settings -> Channels Settings

Calling to VoIP:

- User ID: ch1-8:123;
- Sip Server: ch1-8;p1;
- Sip Destination Port: 6076++

FXO lines -> Settings:

Port Caller ID Setting:

- Number of Rings Before Pickup: ch1-8:4;

Accounts -> Account 1:

General Settings:

- SIP Server: Set it to IP address of GXW42xx

SIP Settings:

- SIP registration – No

Network Settings:

- NAT traversal – No

Dialing to PSTN

Wait for Dial-Tone(Y/N): (default No)

Stage Method(1/2): (default 2 stage dialing)

Min Delay Before Dialing Out: (default 500ms, 50 ~ 65000ms)

Calling to VoIP

Unconditional Call Forward to Following:

User ID: (i.e ch1-2:223;ch3:224)

SIP Server: (ch1-2:p1;ch3:p2)

SIP Destination Port: (ch1-2:5060;ch2:7080)

Port Caller ID Setting

Number of Rings Before Pickup: (1-50, default 4)

Caller ID Scheme: (1-11, default 1)

- 1 - Bellcore/Telcordia
- 2 - ETSI-FSK during ringing
- 3 - ETSI-FSK prior to ringing with DTAS
- 4 - ETSI-FSK prior to ringing with LR
- 5 - ETSI-FSK prior to ringing with RP
- 6 - ETSI-DTMF during ringing
- 7 - ETSI-DTMF prior to ringing with DTAS
- 8 - ETSI-DTMF prior to ringing with LR
- 9 - ETSI-DTMF prior to ringing with RP
- 10 - SIN 227 - BT
- 11 - NTT - Japan