



SIP Trunk Configuration Guide

using



www.CommPartners.com

1-800-274-9390

The information contained in this document is specific to setting up SIP connections between Vertical SBX IP 320 and CommPartners. If you require assistance with this application, please contact Vertical Customer Support.

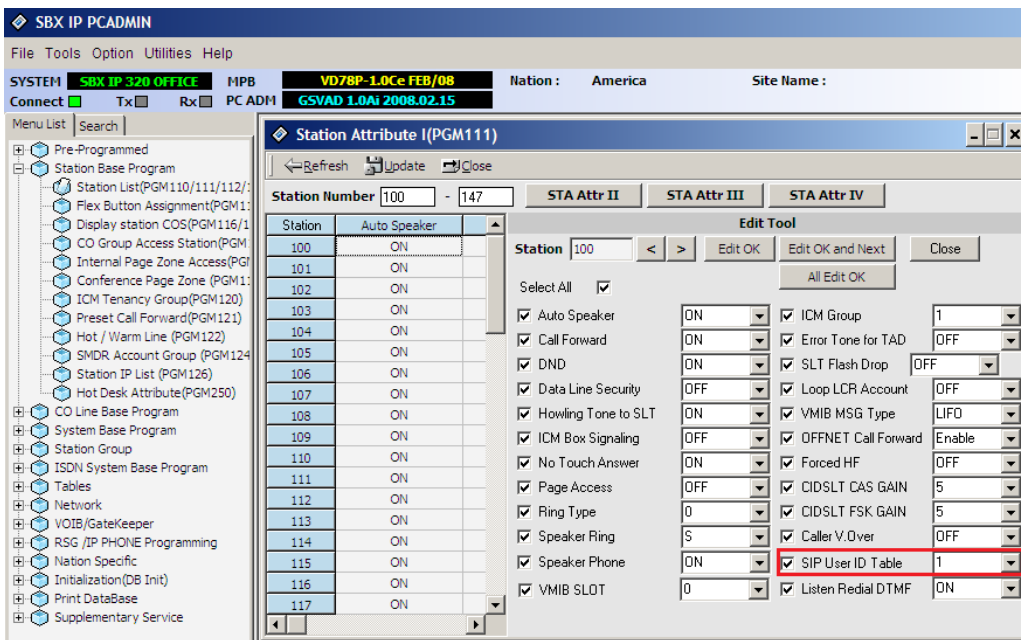
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SIP Trunk Setup

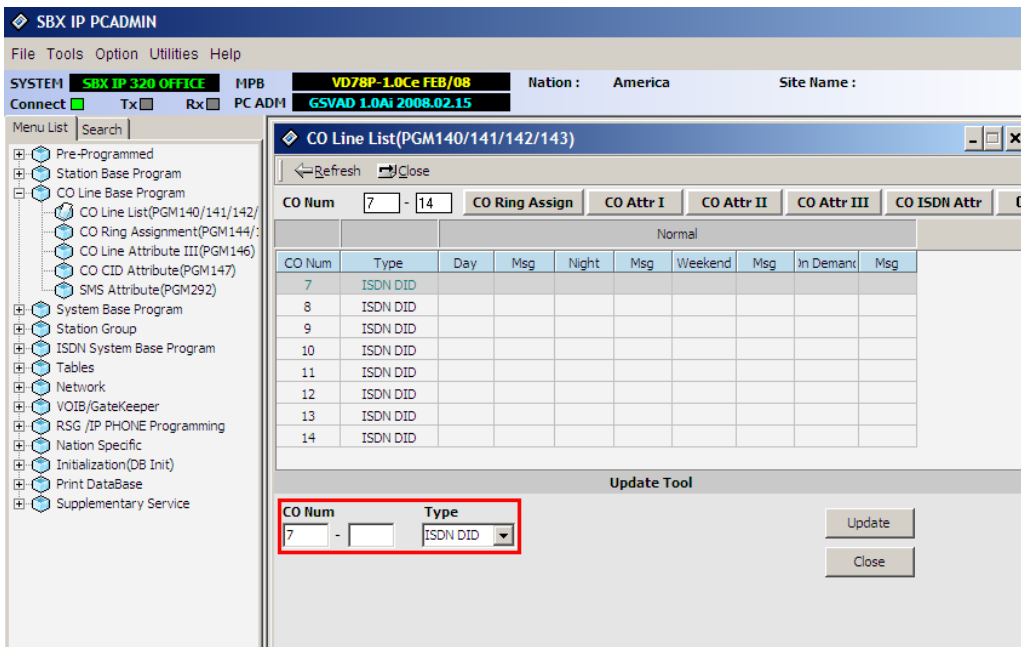
> PC Admin is needed to completely integrate SIP trunking with the SBX system.

After starting the PC Admin program, select the program settings from the Menu List tab as indicated in Steps 1-9 for the SBX system to work with the *CommPartners* SIP trunks.

- 1.) **Station Attribute 1 (PGM 111)** – Program the SIP User ID Table that will correspond with the SIP account (programmed later in SIP Attributes 2).



- 2.) **CO Line List (PGM 140)** – If the SIP carrier will be providing DID (direct inward dialing) trunks, program the VoIB trunks used for SIP integration as ISDN DID.



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- 3.) **CO Line ISDN Attributes (PGM 143)** – Set the COLP and CLIP Table Idx fields to 0, set the Call Type to Subscriber, the DID Conv Type to 2 (for integration with Flexible DID Table, PGM 231), set the DID Remove Num to 7 (or other entry if the carrier is sending more than 10 digits), and turn ISDN ENBLK Send to On.

CO Line ISDN Attributes (PGM143)

CO Num	OLP Table Id	LIP Table Id	Call Type	DID Conv type	Remove Num	SDN ENBLK Send	CLI Transit	Num Plan for Calling	Num Plan for Called	ISDN SS CD	ISDN 1 Digit Remove	ISDN CP Inband	CLI Type(0~2)	Screening Indicator
7	0	0	Subscriber	2	7	ON	ORI	KNOW	UNKNOWN	NO Service	OFF	OFF	NORMAL	0
8	0	0	Subscriber	2	7	ON	ORI	KNOW	UNKNOWN	NO Service	OFF	OFF	NORMAL	0
9	0	0	Subscriber	2	7	ON	ORI	KNOW	UNKNOWN	NO Service	OFF	OFF	NORMAL	0

Update Tool

CO Num: 7
 COLP Table Idx: 0
 CLIP Table Idx: 0
 Call Type: Subscriber
 DID Conv type: 2
 DID Remove Num: 7
 ISDN ENBLK Send: ON
 CLI Transit: ORI
 Num Plan for Calling: UNKNOWN
 Num Plan for Called: UNKNOWN
 ISDN SS CD: NO Service
 ISDN 1 Digit Remove: OFF
 ISDN CP Inband: OFF
 CLI Type(0~2): NORMAL
 Screening Indicator: 0

- 4.) **COLP Table (PGM 201)** – Enter the COLP digits in Index 0 (this will correspond with PGM 143 buttons 1 and 2). The COLP digits will most likely be the same as the Authorization User Name in SIP Attributes 2.

COLP Table (PGM201)

Index	COLP Digits
0	1111111111
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

Update Tool

Update/Delete and next

Index: 0
 COLP Digits: 1111111111

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- 5.) **Flexible DID Table (PGM 231)** – Program the ring assignments for the DID routes in this area. Use the last 3 digits of the inbound numbers that the SIP carrier provides as the table numbers.

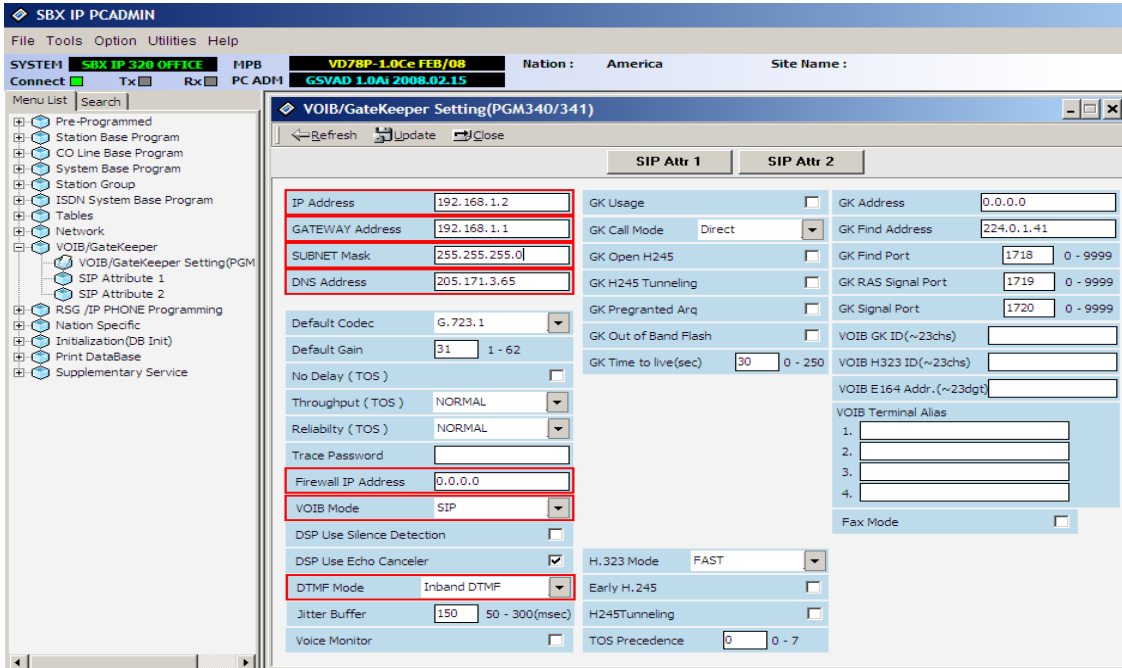
The screenshot shows the 'Flexible DID Table (PGM231)' configuration window. At the top, there are fields for 'Enter Table Range' (100 - 100) and buttons for 'Refresh All Range' and 'Refresh'. Below this is a table with columns: Index, Name, Day Type, Day Dest., Night Type, Night Dest., Weekend Type, Weekend Dest., Reroute Type, and Reroute Dest. The first row shows Index 100, Name Station, Day Type Station, Day Dest. 100, Night Type Station, Night Dest. 100, Weekend Type Station, Weekend Dest. 100, Reroute Type Not Assigned, and Reroute Dest. Below the table is an 'Update Tool' section with fields for Index (100) and Name, and buttons for Update, Delete, All Initial, All Delete, and Close. At the bottom, there is an 'Edit with Range' section with dropdown menus for Day Type, Night Type, Weekend Type, and Reroute Type, and corresponding destination fields (Day Dest., Night Dest., Weekend Dest., Reroute Dest.).

- 6.) **Networking CO Line Attribute (PGM 322)** – Enter the VoIB trunks used for the SIP integration. Set the Networking CO Group to 0, the Networking CO Line Type to PSTN, Gatekeeper Usage to Off, VoIP mode to SIP, and program DTMF Mode to Inband DTMF, unless the carrier requires 2833.

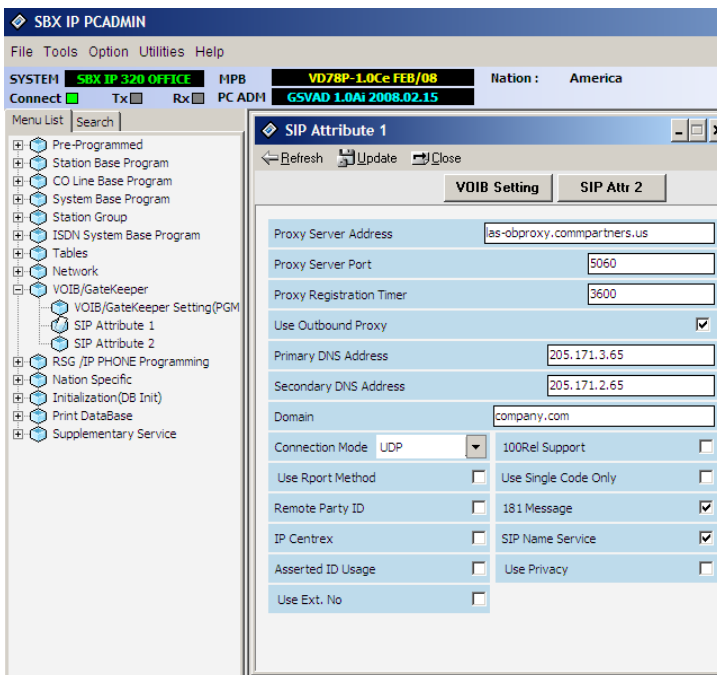
The screenshot shows the 'Networking CO Line Attribute (PGM322)' configuration window. At the top, there are fields for 'CO Num' (7 - 14) and a 'CO ISDN Attr' button. Below this is a table with columns: CO Num, Networking CO Group, Networking CO Line Type, Gatekeeper Usage, VOIP Mode, and DTMF Mode. The table contains 8 rows of data for CO Num 7 through 14. Below the table is an 'Update Tool' section with a 'CO Num' field (7 - 14) and a 'Select All' checkbox (checked). There are four rows of configuration options, each with a checked checkbox and a dropdown menu: 'Networking CO Group' (0), 'Networking CO Line Type' (PSTN), 'Gatekeeper Usage' (OFF), 'VOIP Mode' (SIP), and 'DTMF Mode' (Inband DTMF). Buttons for 'Update' and 'Close' are at the bottom.

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- 7.) **VoIB/Gatekeeper Setting (PGM 340)** – Program the IP Address, Gateway Address, Subnet Mask, DNS address and Firewall address if you are using a one to one NAT through firewall/router for the VoB card. Set the VoB mode to SIP unless the system is networked with another system, if so, use the DUAL option. Program the DTMF Mode so it matches the same field in PGM 322.



- 8.) **SIP Attribute 1** – Program the Proxy Server Address (will be provided by carrier), Proxy Registration Timer, Use Outbound Proxy check box, Primary and Secondary DNS Addresses, and Domain (provided by the SIP carrier). Enable the remaining checkboxes (Remote Party ID, 181 message and SIP name service) if the SIP carrier requires them.



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- 9.) **SIP Attributes 2** – Select the index number you used in *Station Attributes 1 (PGM 111)* Enter the User ID (*phone number@domainname.com*, Authentication User Name, Authentication User Password, and repeat the Authentication User Password which is provided by your Commpartners setup letter. The contact number might have to be added depending on what the carrier expects.

The screenshot shows the SBX IP PCADMIN software interface. The main window displays the configuration for SIP Attribute 2. The interface includes a menu on the left, a main configuration area with a table of SIP attributes, and an update tool at the bottom.

Index	User ID	Authentication User Name	Authentication User Password	Contact Number	User ID Re
1	111111111@company.com	1111111111	1111111111	1111111111	Register
2					Provision
3					Provision
4					Provision
5					Provision
6					Provision
7					Provision
8					Provision
9					Provision
10					Provision
11					Provision
12					Provision

Update Tool

Index: 1 Contact Number: 11111111 User ID Registration: Register User ID Usage Asc Stn. Update

User ID: 111111111@company.com Authentication User Name: 1111111111

Authentication User Password: 1111111111 Authentication User Password Repeat: 1111111111

This completes the SIP Trunk configuration process. If you have any other questions, please contact Vertical Customer Support for assistance.