



Configuration Guide
for SIPconnect service from



www.cbeyond.net
1-866-424-5100

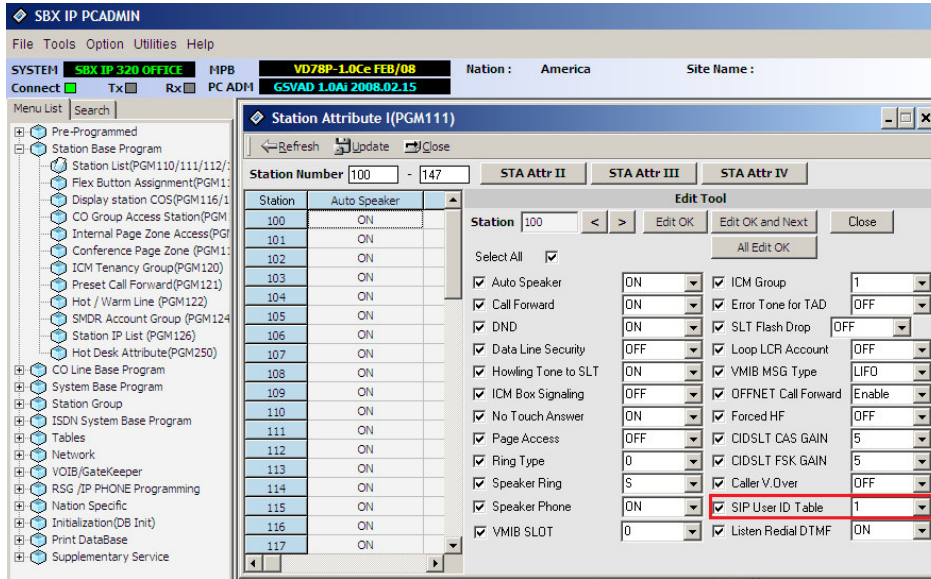
The information contained in this document is specific to setting up SIPconnect between Vertical SBX IP 320 and Cbeyond. If you require assistance with this application, please contact Vertical Technical Support at 877-837-8422 or <http://www.vertical.com/support-login.html>.

Ceyond SIPconnect Trunk Configuration

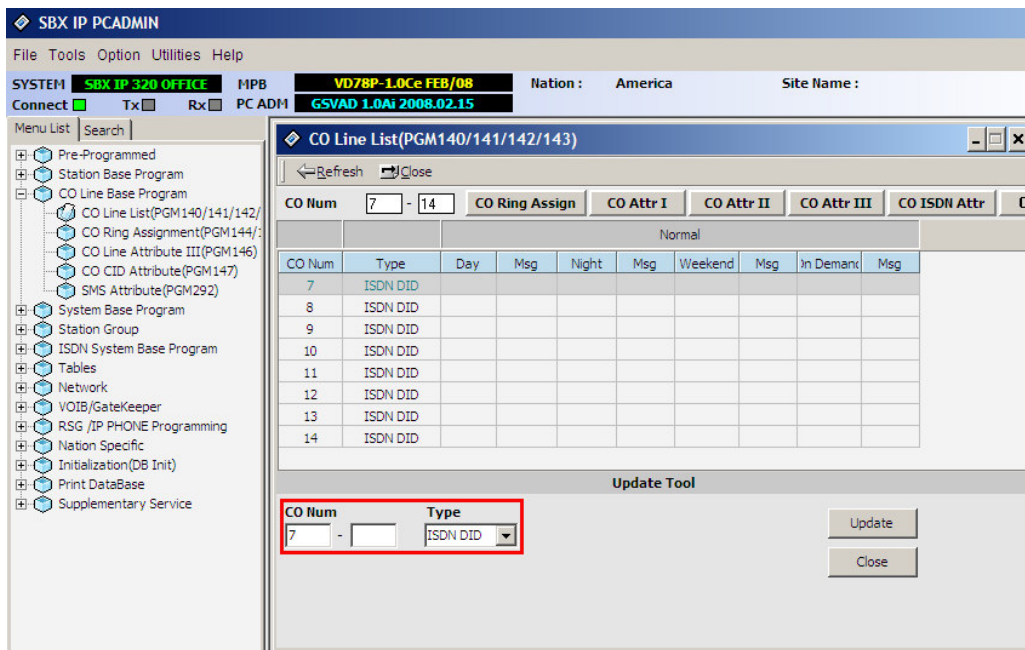
Minimum System Requirements for SIP Trunk Setup

- SBX IP 320 system with a VOIP card (VOIB) installed
- PC Admin is required for programming SIP trunking attributes. After starting the PC Admin program, select the program settings from the Menu List tab as indicated in Steps 1-9.

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)** – Program the VoIB trunks used for SIP integration as ISDN DID. Ceyond provides DID (Direct Inward Dialing) trunks.



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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.

The screenshot shows the 'CO Line ISDN Attributes (PGM143)' configuration window. The table below shows the current configuration for CO Lines 7, 8, and 9.

CO Num	OLP Table Id	LIP Table Id	Call Type	DID Conv type	Remove Num	ISDN ENBLK Send	CLI Transit	in for	Num Plan for Calls
7	0	0	Subscriber	2	7	ON	ORI	KNOV	UNKNOWN
8	0	0	Subscriber	2	7	ON	ORI	KNOV	UNKNOWN
9	0	0	Subscriber	2	7	ON	ORI	KNOV	UNKNOWN

The 'Update Tool' section contains the following fields and checkboxes:

- 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.

The screenshot shows the 'COLP Table (PGM201)' configuration window. The table below shows the current configuration for COLP Digits.

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

The 'Update Tool' section contains the following fields and buttons:

- Update/Delete and next
- Index: 0
- COLP Digits: 1111111111
- Buttons: Update, Delete, Close

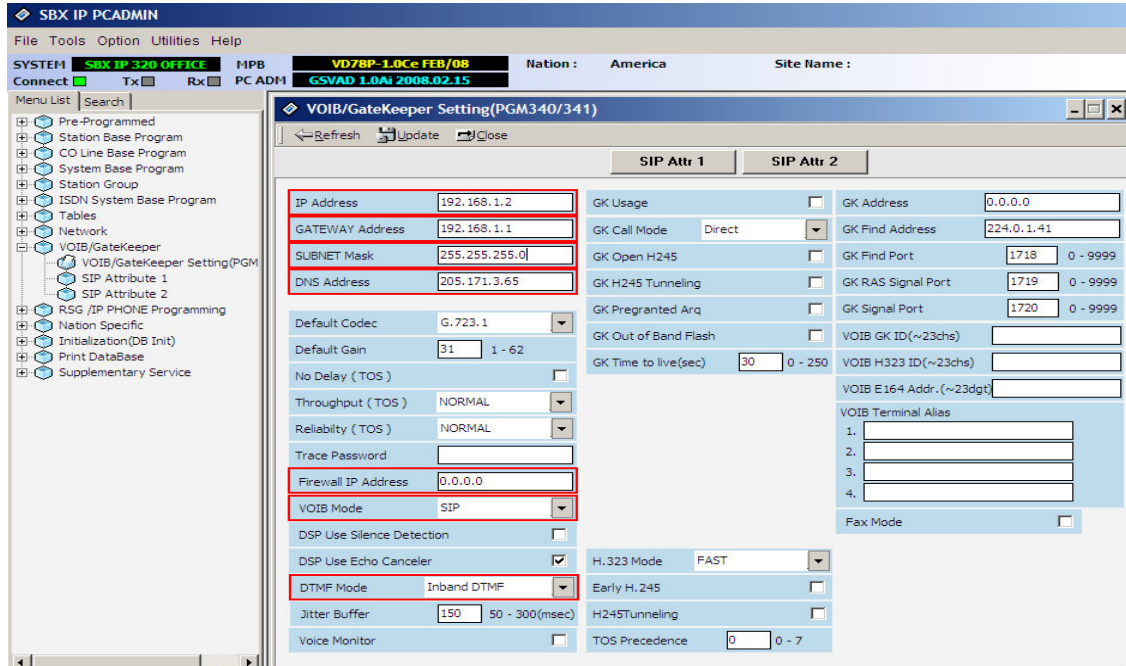
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- 5.) **Flexible DID Table (PGM 231)** – Program the ring assignments for the DID routes in this area. Use the last 3 digits of the inbound numbers that the SIP carrier provides as the table numbers.

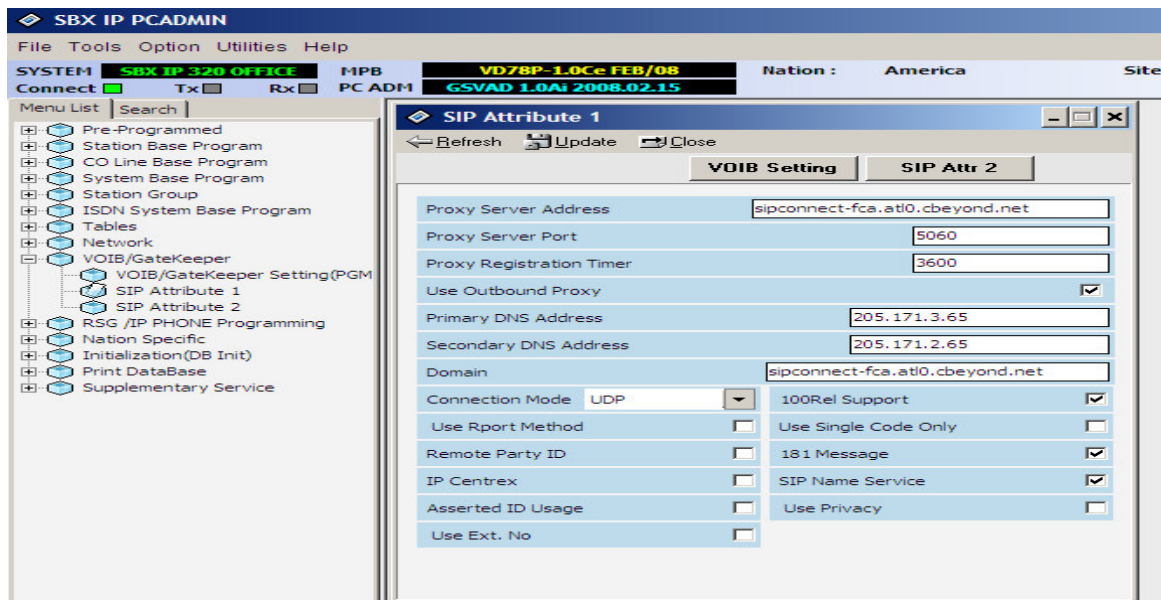
- 6.) **Networking CO Line Attribute (PGM 322)** – Enter the VoIB trunks used for the SIP integration. Set the Networking CO Group to 0, the Networking CO Line Type to PSTN, Gatekeeper Usage to Off, VoIP mode to SIP, and program DTMF Mode to Inband DTMF, unless the carrier requires 2833.

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- 7.) **VoIB/Gatekeeper Setting (PGM 340)** – Program the IP Address, Gateway Address, Subnet Mask and DNS address. Program the firewall address field only if you are using a one-to-one NAT through firewall/router for the VoIB card. Set the VoIB mode to SIP unless the system is networked with another system. If networked, set the VoIB to 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, Proxy Registration Timer, Use Outbound Proxy check box, Primary and Secondary DNS Addresses, and Domain provided by Ceyond. Enable the remaining checkboxes (Remote Party ID, 181 message and SIP name service) if required by the Ceyond activation technician.



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- 9.) **SIP Attributes 2** – Select the index number you used in **Station Attributes 1 (PGM 111)**. Enter the User ID, Authentication User Name, Authentication User Password, and Authentication User Password which is listed in the SIPconnect Settings section of the Install Profile provided by your Cbeyond Service coordinator. Set User ID Registration to register.

The screenshot shows the SBX IP PCADMIN software interface. The main window displays the 'SIP Attribute 2' configuration screen. The interface includes a menu list on the left, a main data table, and an update tool at the bottom.

Menu List:

- Pre-Programmed
- Station Base Program
- CO Line Base Program
- System Base Program
- Station Group
- ISDN System Base Program
- Tables
- Network
- VOIB/GateKeeper
 - VOIB/GateKeeper Setting(PGM)
 - SIP Attribute 1
 - SIP Attribute 2
- RSG/IP PHONE Programming
- Nation Specific
- Initialization(DB Init)
- Print DataBase
- Supplementary Service

SIP Attribute 2 Table:

Index	User ID	Authentication User Name	Authentication User Password	Contact Number	User ID Re
1	1111111111@sipconnect-fca.atl0.cbeyo	1111111111	111111	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: 1111111111@sipconnect-fca.atl0.cbeyond.net Authentication User Name: 1111111111

Authentication User Password: 111111 Authentication User Password Repeat: 111111

This completes the SIP Trunk configuration process.
If you need assistance please contact Vertical Technical Support
at 877-837-8422 or <http://www.vertical.com/support-login.html>.

For the latest product documentation on SBX IP 320, go to <http://vconnect.vertical.com/>