

## Configure SIP trunking on Panasonic KX-KDE/NCP systems

### About this task:

**Note:** This guide assumes that the reader is comfortable with configuring a Panasonic BTS system. As it only entails registering the KDE/NCP device to ThinkTel to receive calls and ensure proper call handoff. Any other PBX configurations – such as licensing and routing decisions (hunt groups, schedules, etc.), would need to be configured separately by the reader. It also assumes that the reader has contacted Customer Support and has been provided the SIP credentials that are required to register and connect with ThinkTel.

### First, connect to the PBX.

1. Start the Panasonic Unified Maintenance Console.

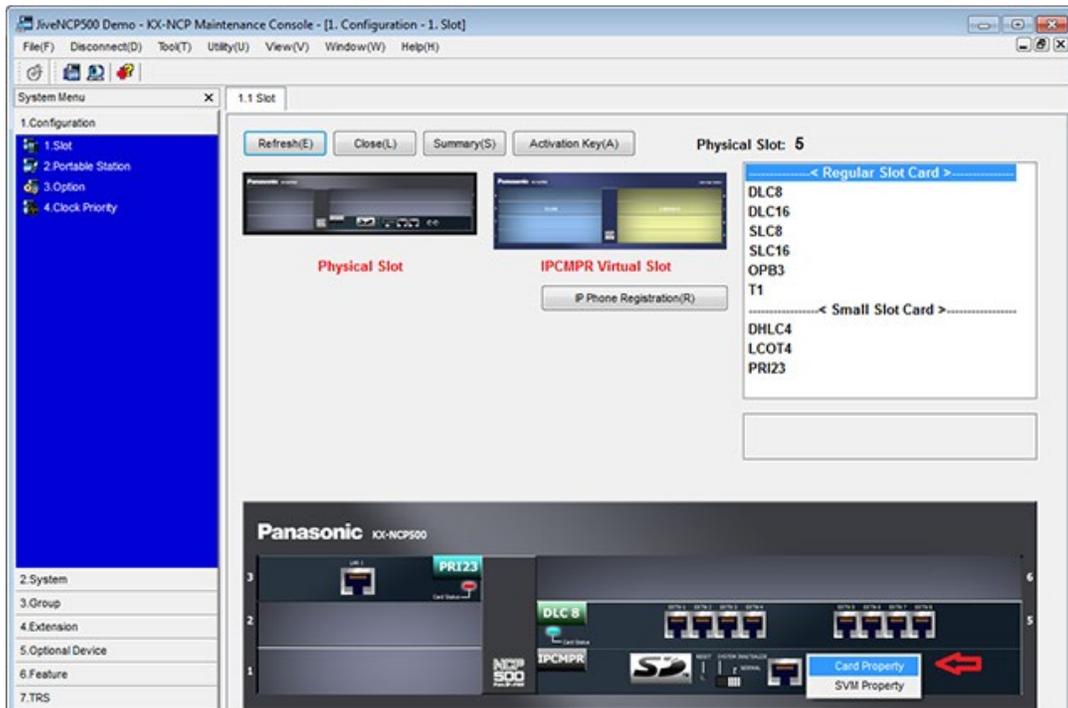


2. Click **Connect**, verify that you will be doing so at the INSTALLER level and choose the method of connection:
  - LAN
  - RS-232
  - Modem
  - USB to Connect to your PBX for interactive configuration
3. Provide the IP address of the MPR card and the password of the INSTALLER Level.
4. Click **Connect**.

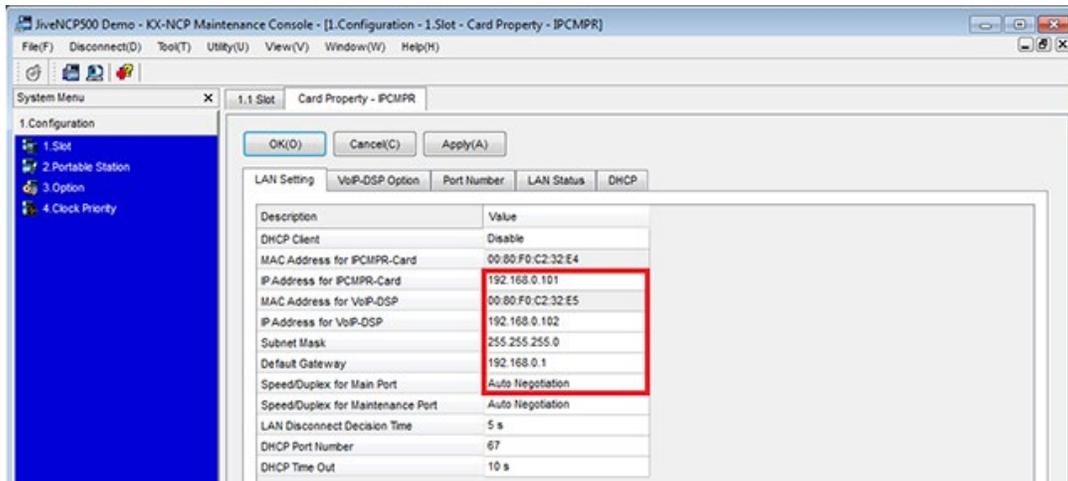


Second, set/verify the IP Settings.

1. From **System Menu > Configuration > Slot**, hover over the MPR card and select the card property.

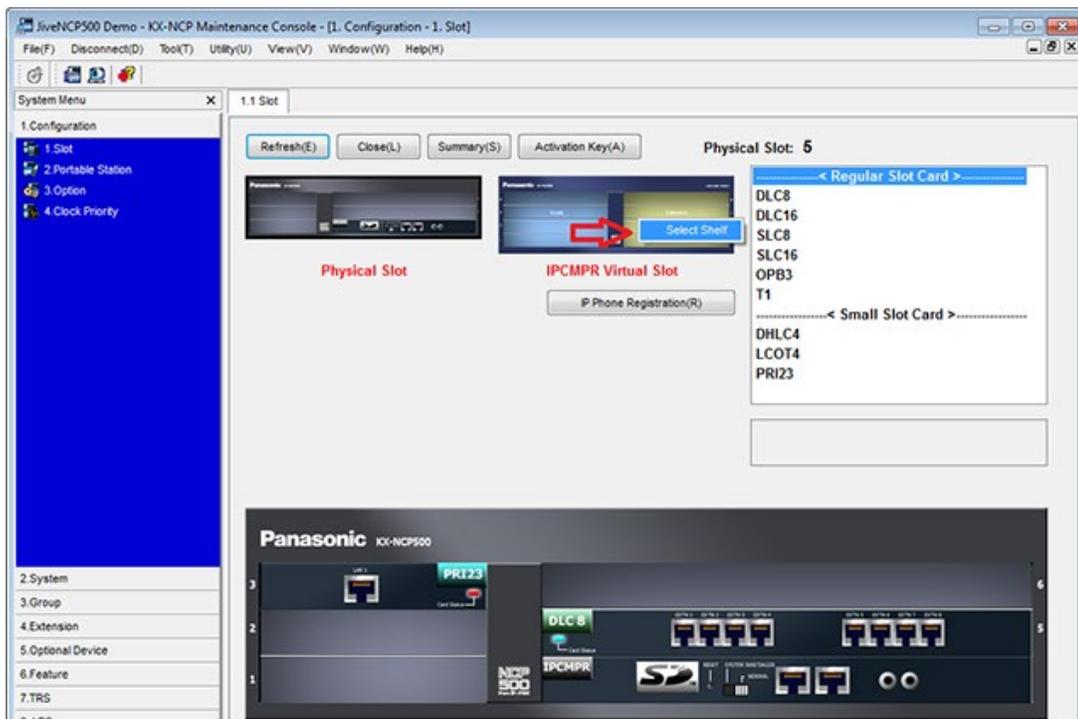


- If static addressing is desired (DHCP Client enabled is fine as well) – the default gateway should be the end router LAN IP address. Also make sure that you have a valid DSP-VOIP LAN address.
- Click **Apply** > **OK**.

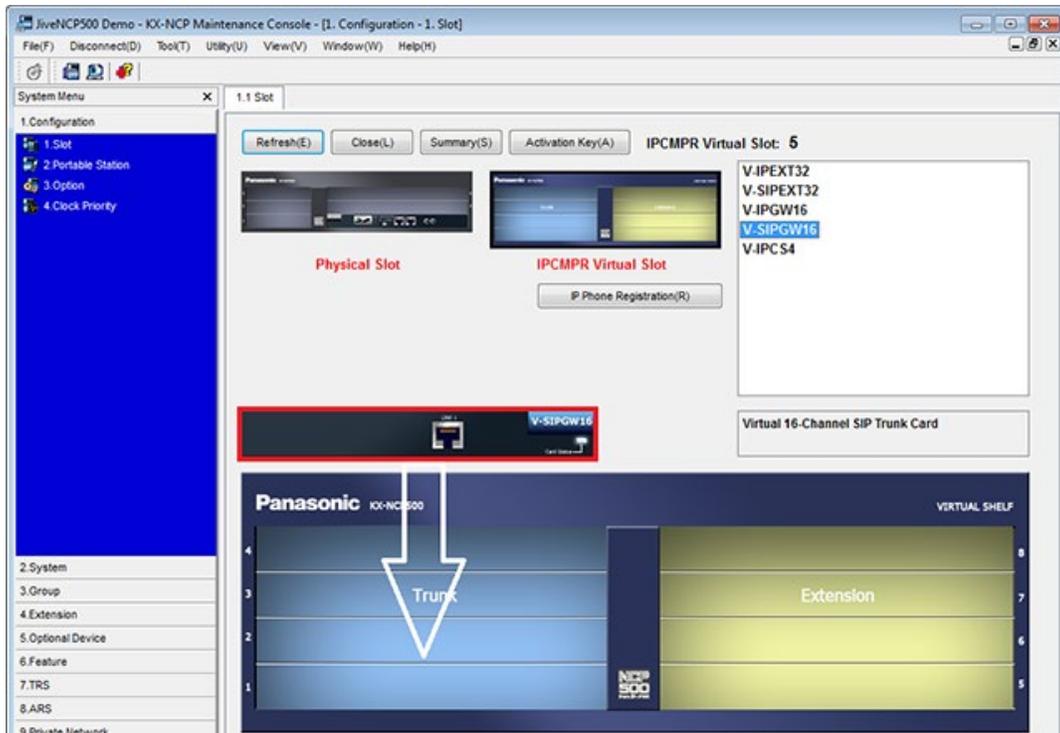


Third, install the V-SIPGW16 card.

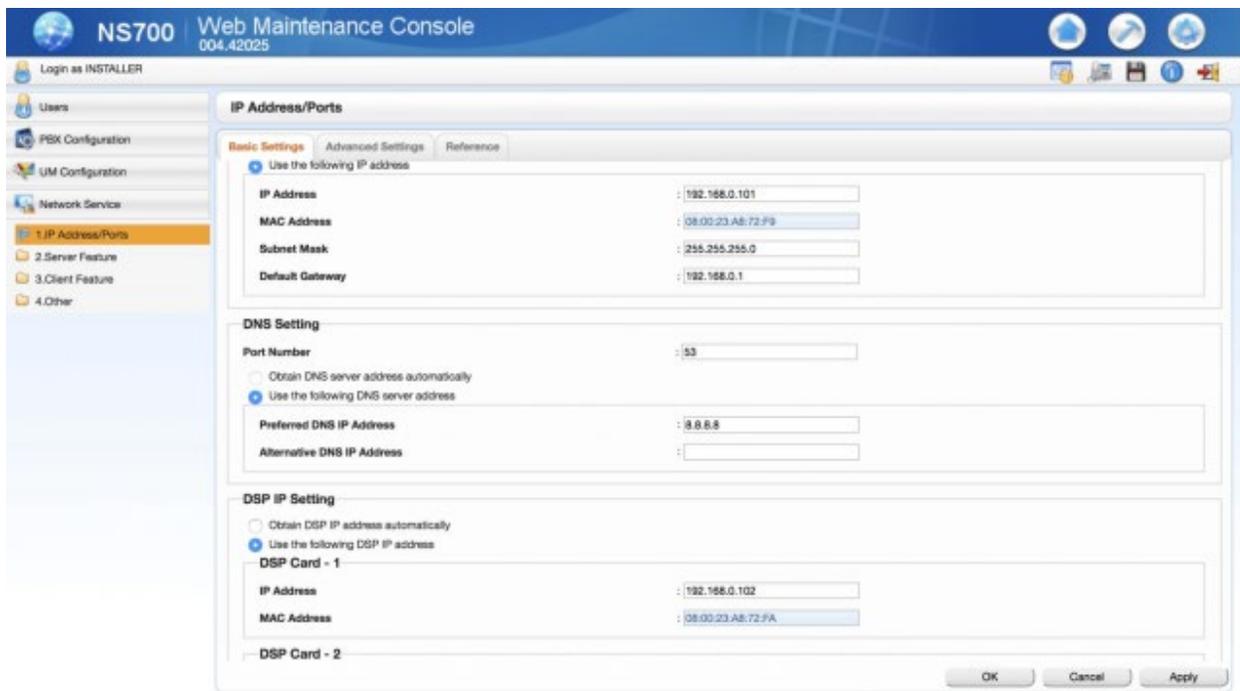
- From **Configuration** > **Slot**, hover over the IPCMPR Virtual Slot and click **Select Shelf**.
- Select the **V-SIPGW16** card from the cards list and click **Select Shelf**.



- Drag the **VSIPGW16** card into the trunk portion of the virtual shelf by using the PC mouse lift button and then click **Yes** on the dialogue box upon release.



Take note of the V-SIPGW16 card OUS in order to be able to enter the configuration settings on the VSIPGW16 card.

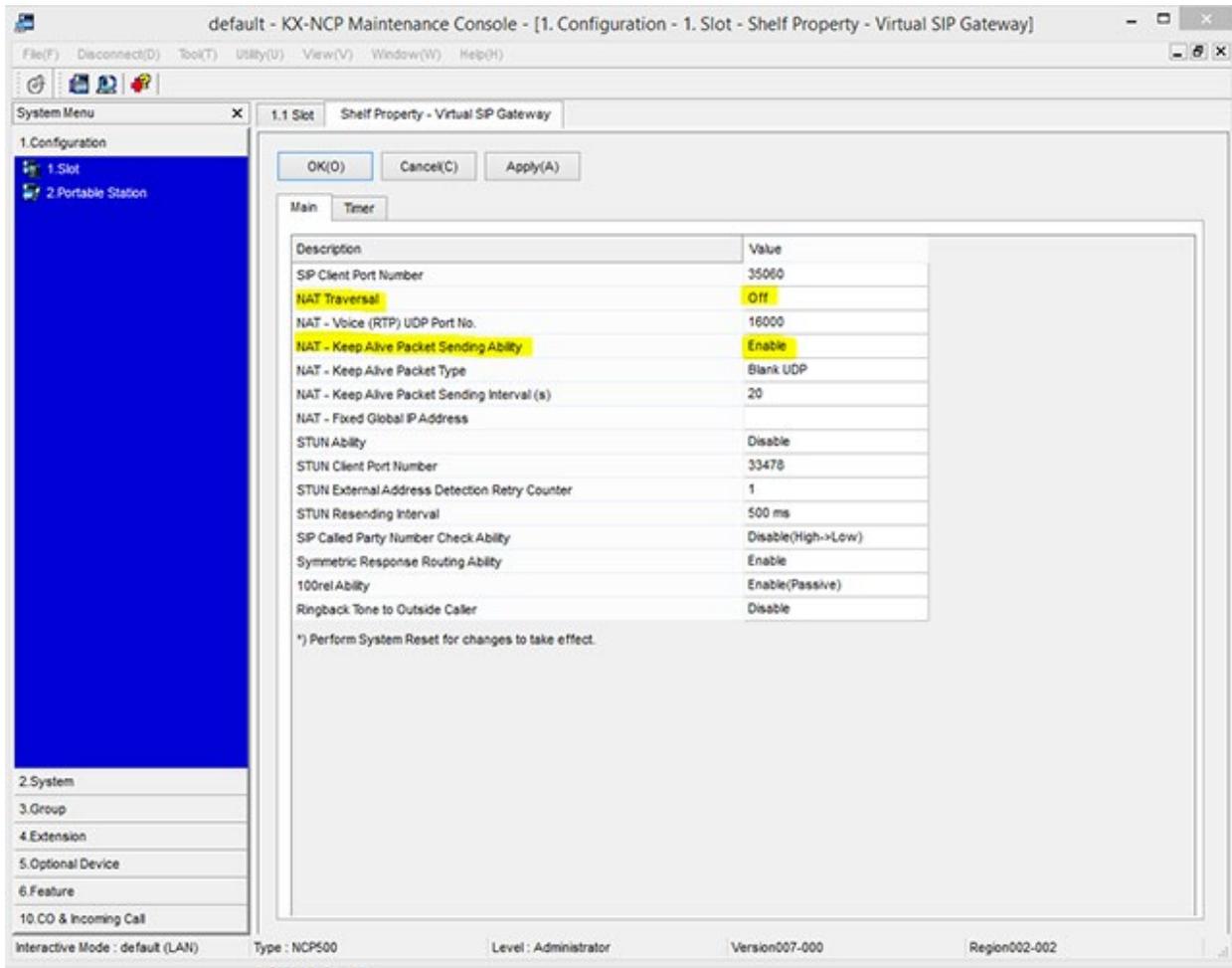


Fourth, configure the VSIP-GW16 card.

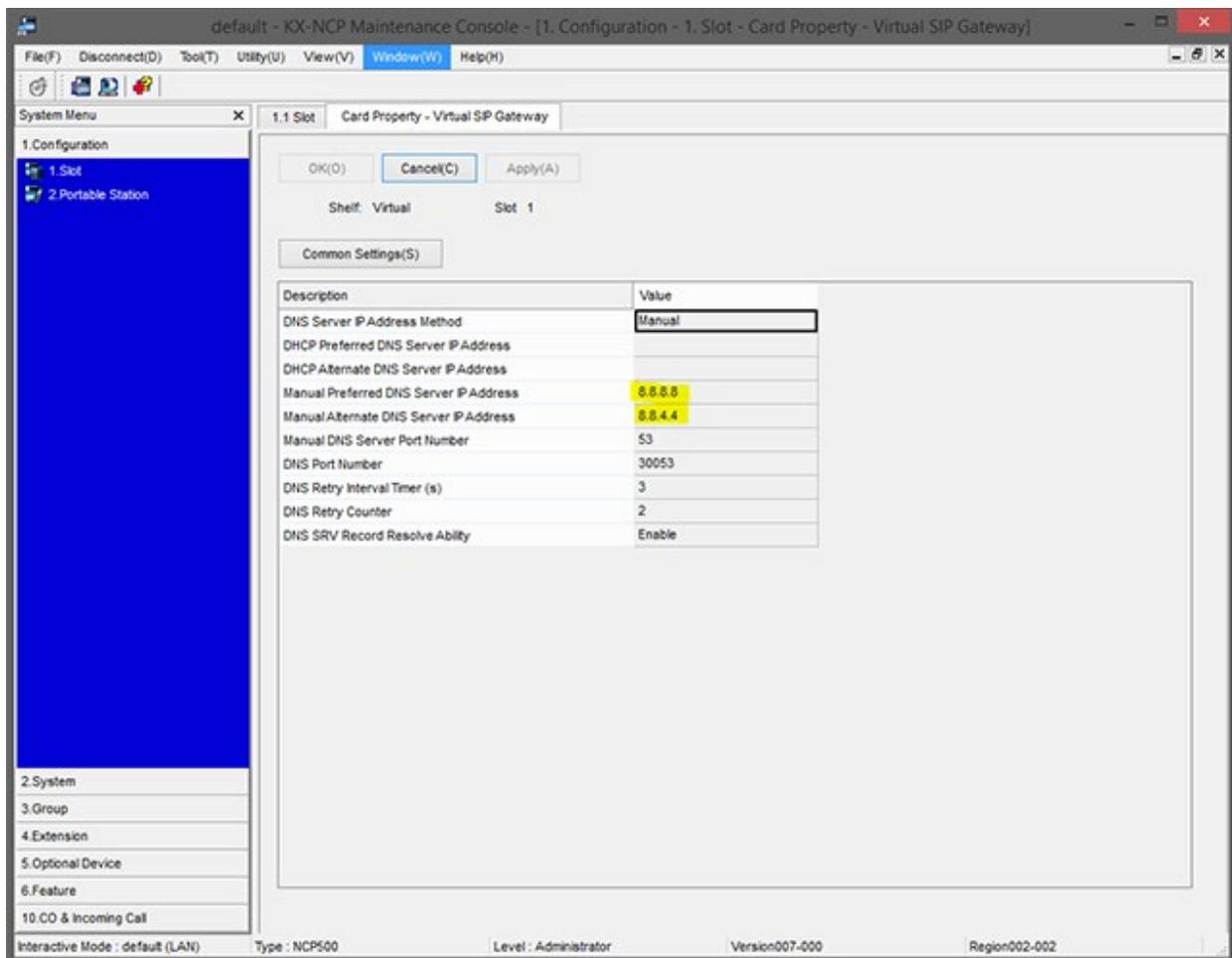
1. Hover over the VSIPGW16 card and choose **Shelf Property**, and complete the following settings:

Option	Description
Nat Traversal	Off
Keep Alive	Enable
SIP Called Party Number Check Ability	Disable (High→Low) (recommended)

2. Click **Apply**.



3. Hover over the VSIPGW16 card and choose **Card Property**.
4. Click **Common Settings (S)** to enter your DNS addresses into the **Manual Preferred** and **Alternate DNS Server IP Address** fields. (Google's DNS is recommended).
5. Click **Apply > OK**.

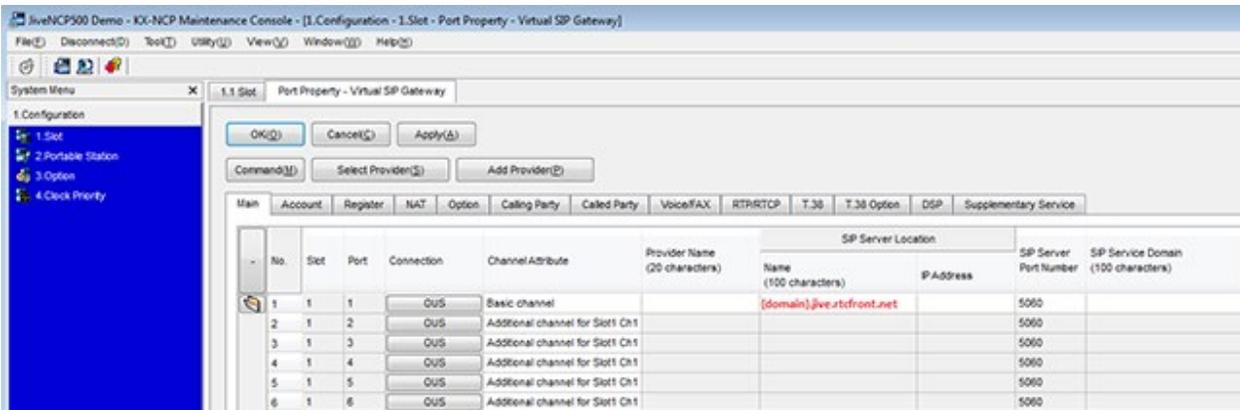


### Fifth, configure ThinkTel SIP Trunk Registration Settings.

1. Hover over the VSIPGW16 card and choose **Port Property**.
2. From **Main**, complete the following settings:

Option	Description
Slot 1 / Port 1 Channel Attribute	Basic Channel
SIP Server Location	Name: <domain>.my.domain <b>Note:</b> Replace <domain> with your unique domain (found in parentheses at the top of the admin portal dashboard).
Additional provisioned channels	Add an additional channel for the slot/port of the basic channel.

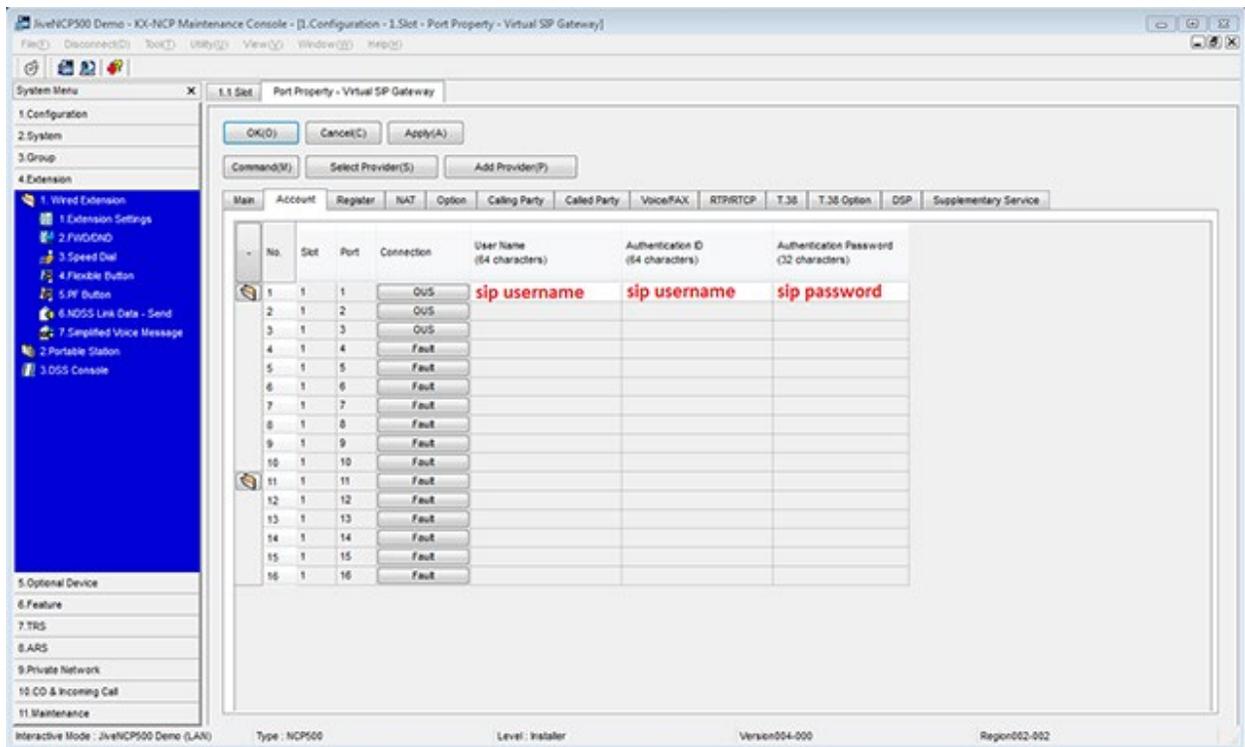
3. Click **Apply**.



4. From **Account**, enter the Username and Password given to you by Customer Support.

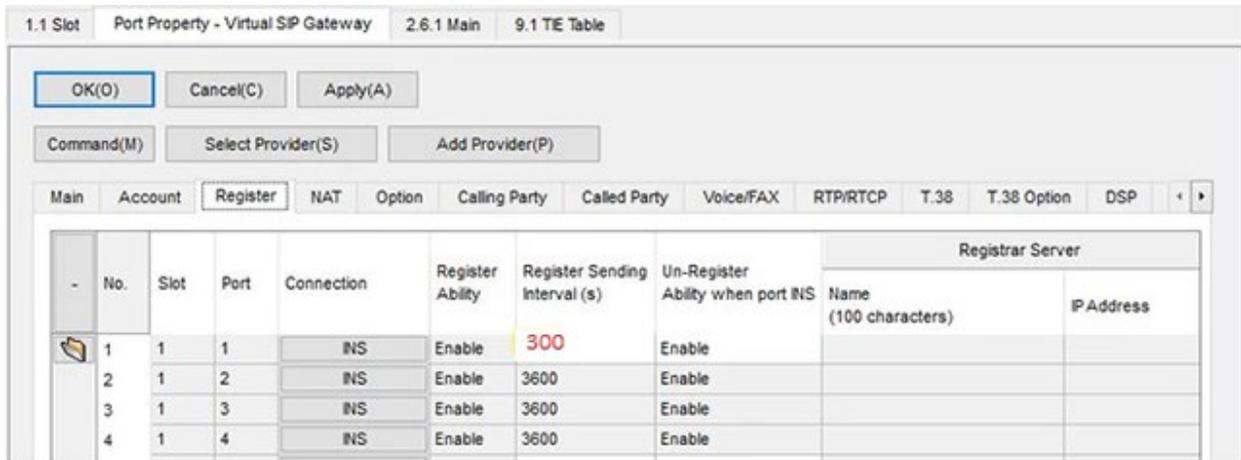
You'll use the sip username for both the **Username** and **AuthenticationID** fields.

5. Click **Apply**.



6. From **Register**, set **Register Sending Intervals** to 300.

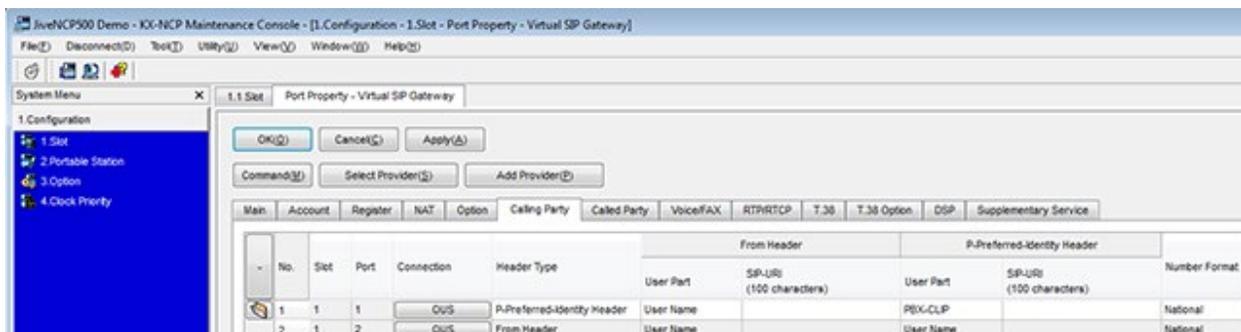
7. Click **Apply**.



8. From **Calling Party**, complete the following settings:

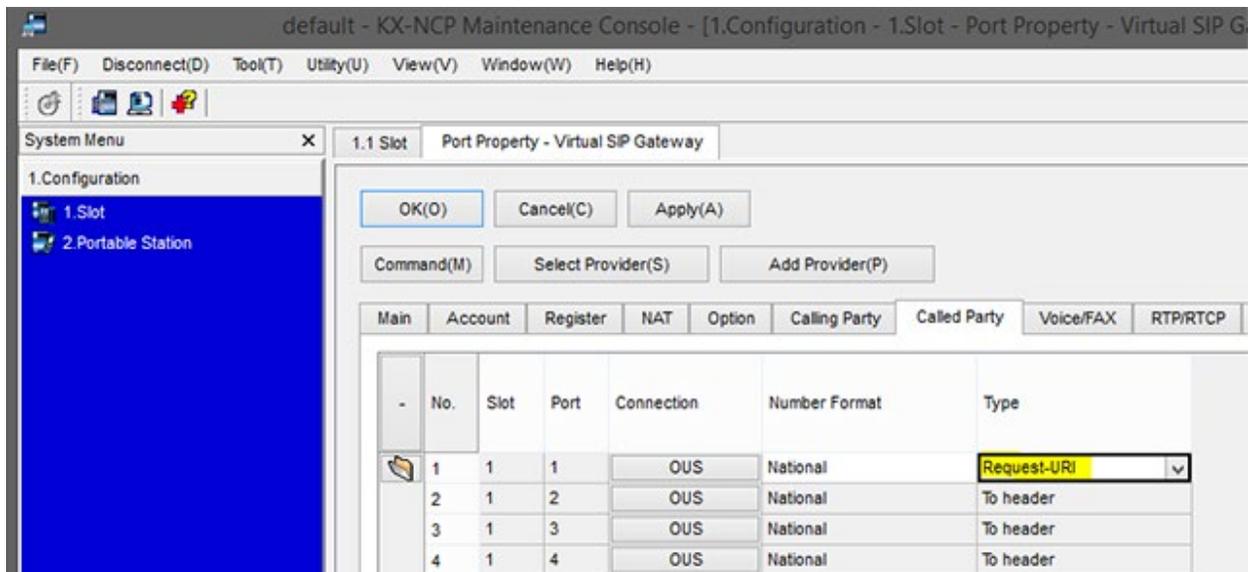
Option	Description
Header Type - Slot 1 Port 1	P-Preferred-Identity Header
P-Preferred-Identity Header	User Part: PBX-CLIP

9. Click **Apply**.

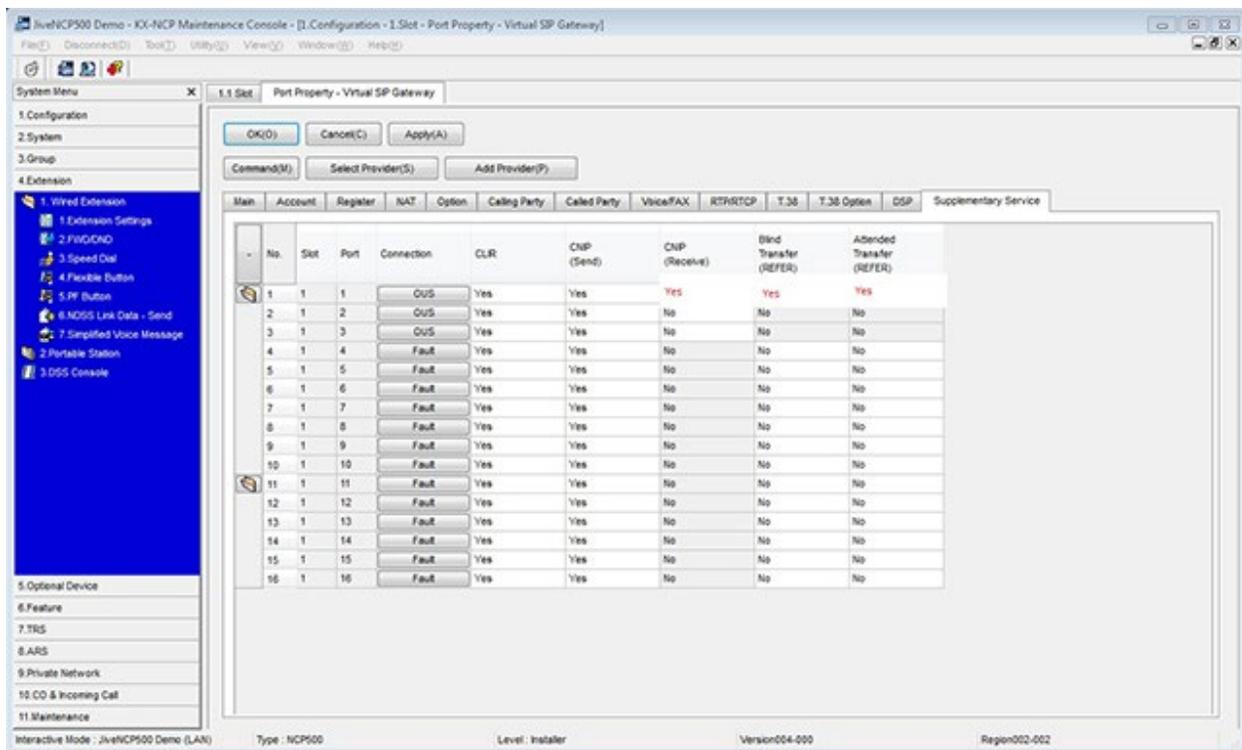


10. From **Called Party**, set **Type** column – **Slot 1 Port 1** to: **Request-URI**.

11. Click **Apply**.



12. From **Supplementary Service**, set **CNIP (Receive)** to **Yes**, as well as both **REFER** options.
13. Click **Apply** > **OK**.

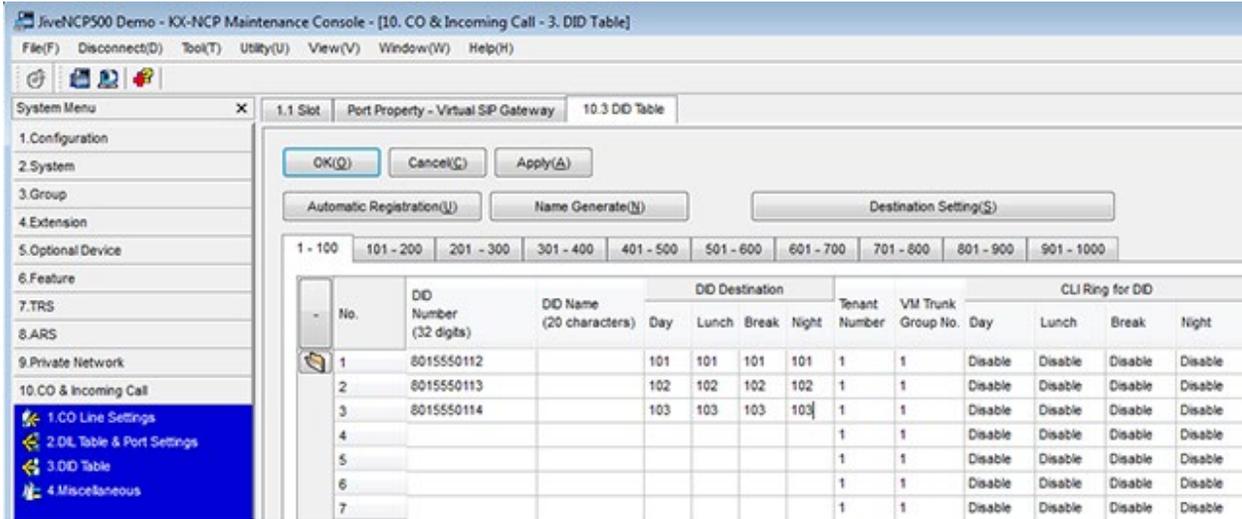


### Sixth, configure the DID Table.

1. From **System Menu** > **CO & Incoming Call** > **DID Table**, add each of your assigned phone numbers to the DID Number column and configure the DID Destination.

This is necessary for inbound calls to work.

2. Click **Apply** > **OK**.



Lastly, set the per Extension outgoing caller ID.

**About this task:** These steps are optional.

1. From **System Menu** > **Extension** > **Wired Extension** > **Extension Settings**, click the **ISDN CLIP** tab.
2. For each extension on your system, set the **CLIP ID** to the number you would like to show for the outbound caller ID.
3. Click **Apply** > **OK**.

