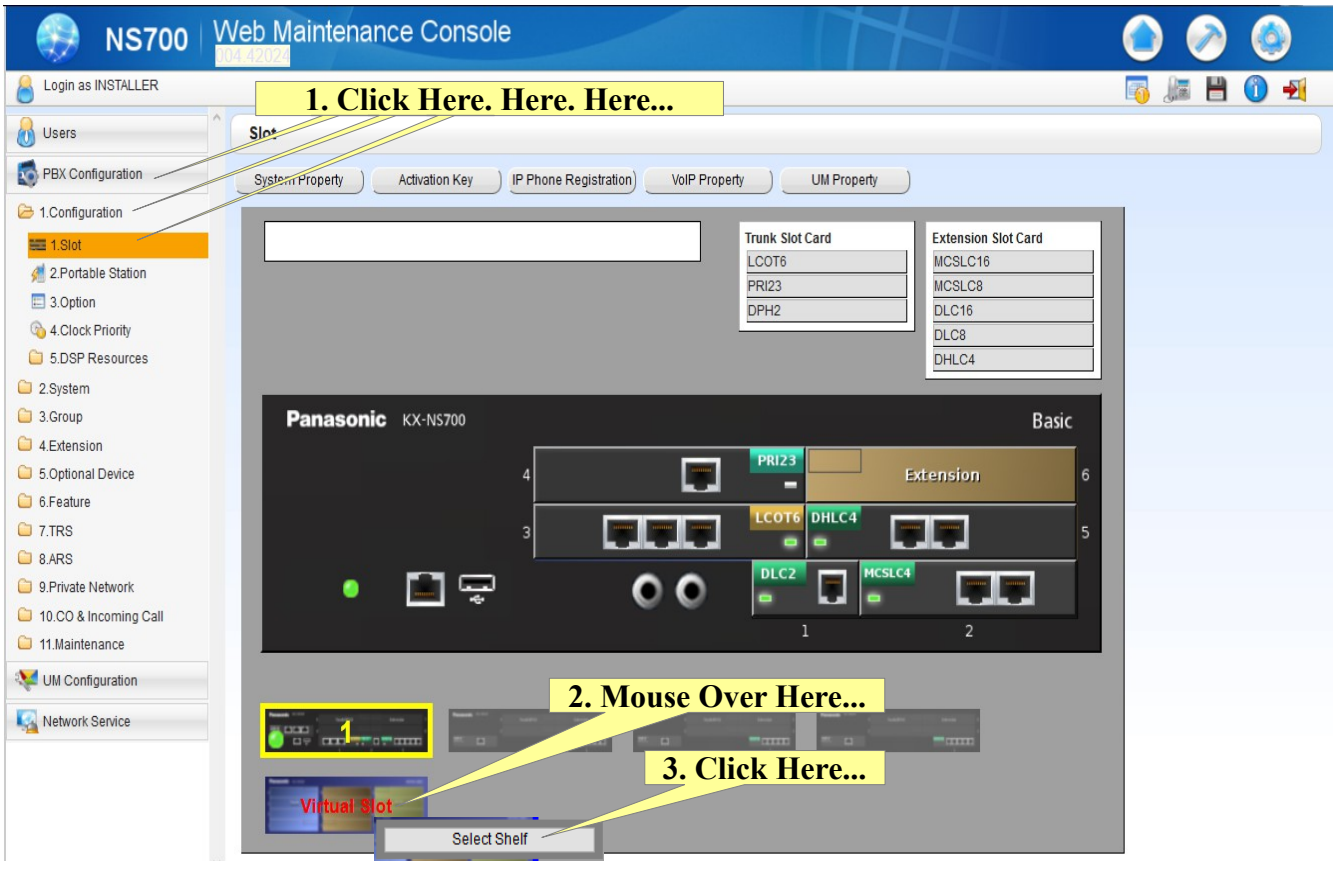
TelQuest International
973-808-4588

# Panasonic NS700
# Linking 2 KSU's Together – Location A
# Telquest Tech Support

**You must have a Router to Router VPN established between the 2 locations.**
**You must have/purchase IP Trunk Channel Activation Keys.**

**Note: It takes 2 IP Trunk Channel Activation Keys for each Port. (See Page 6)**
**First, install a V-IPGW16 card**
**It is a Virtual Card, not a Physical Card.**

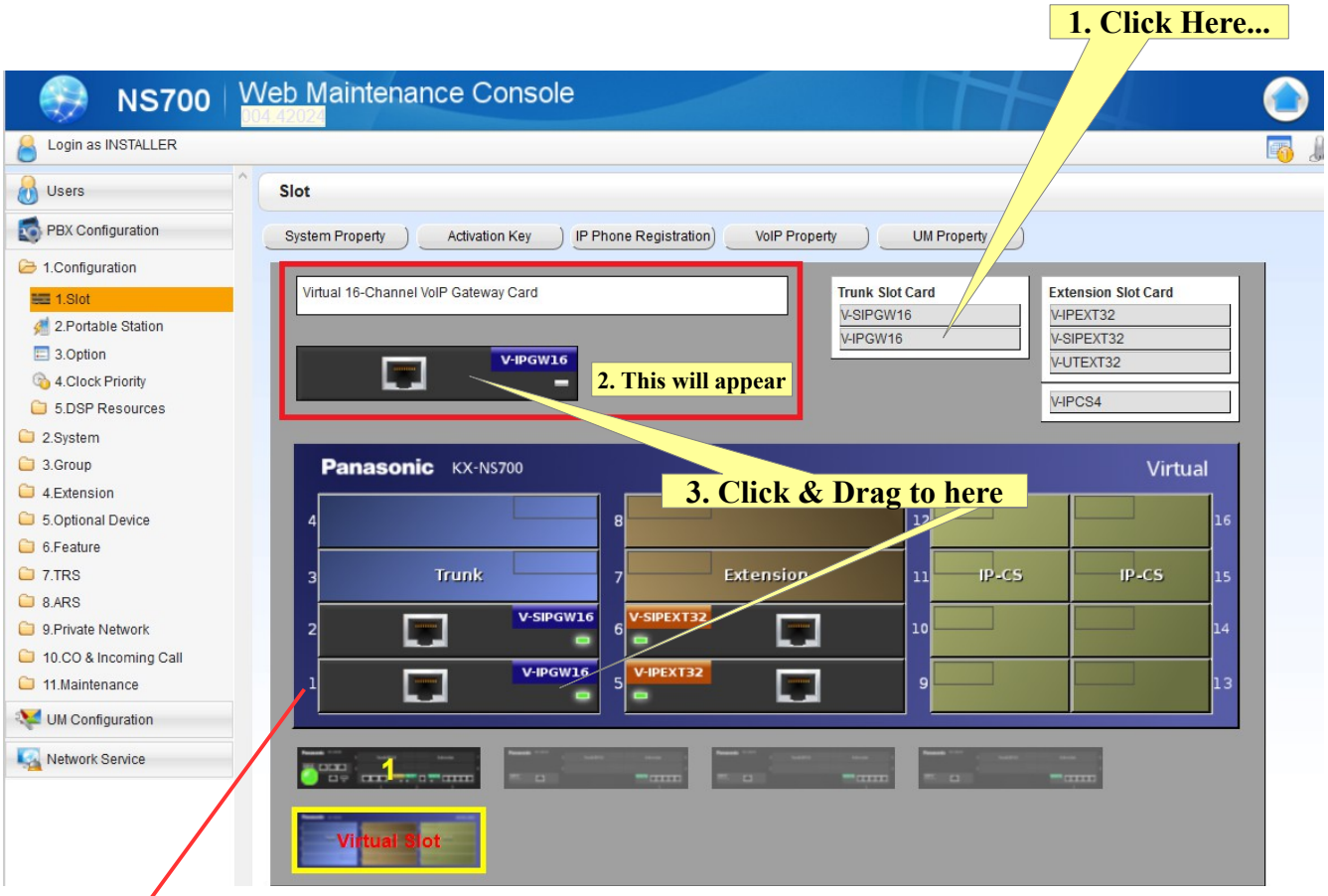
**Location A has extensions 101 – 111 – LAN IP Address 10.10.0.222**
**Location B has extensions 201 – 211 – LAN IP Address 192.168.111.101**
**This is the programming for Location A**



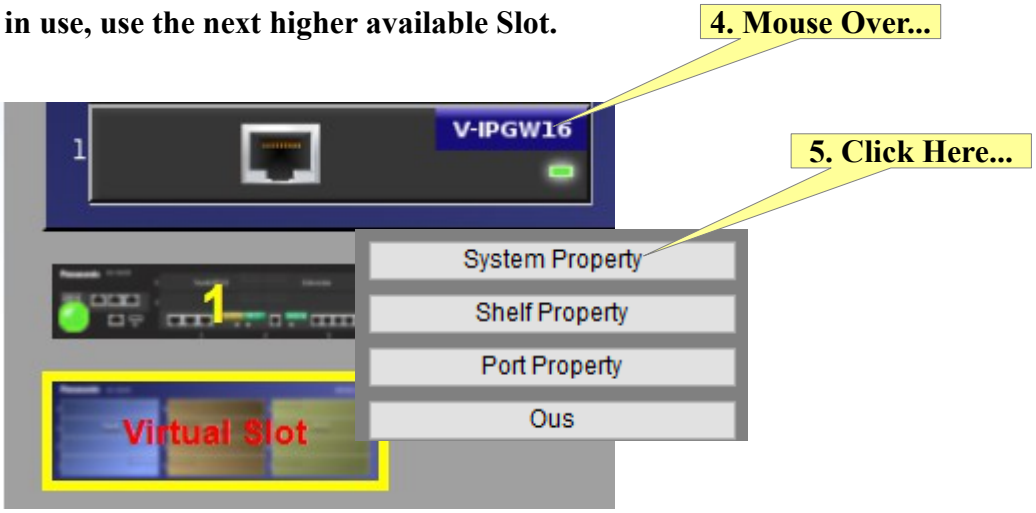

**The LAN IP Addresses used in the Help Sheet are just examples.**
**Yours may be different.**

**Note: This Help Sheet allows both Locations A&B to have the same extension numbers.**
**You must first dial a 1 or 2 Digit Access Code and then the extension number.**
**If you just want to dial an extension number at the opposite location without an Access Code, we have a different Help Sheet for that.**

**Page 2 Location A**

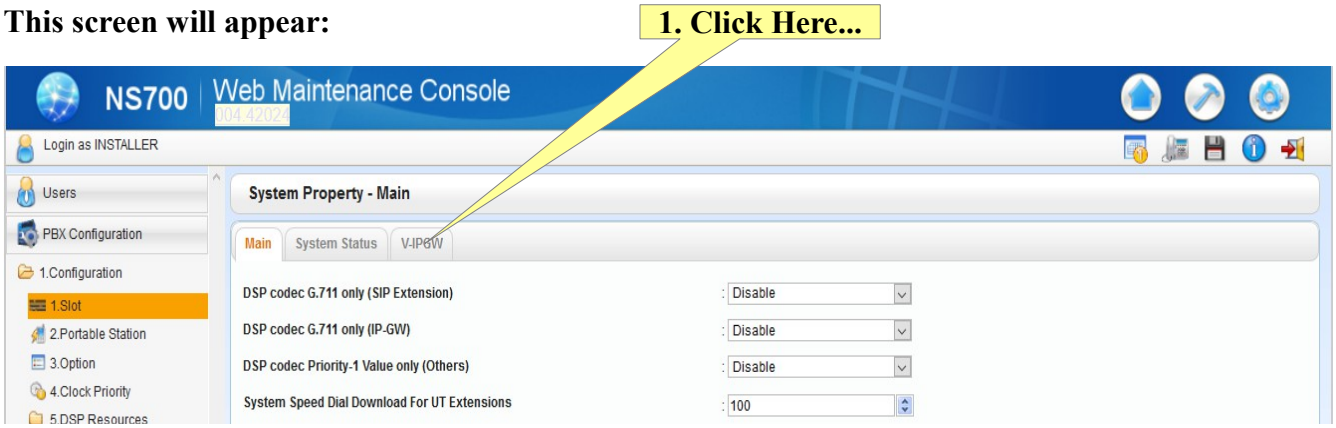



**If Slot 1 is already in use, use the next higher available Slot.**



**Page 3 Location A**

**This screen will appear:**

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**This screen will appear:**


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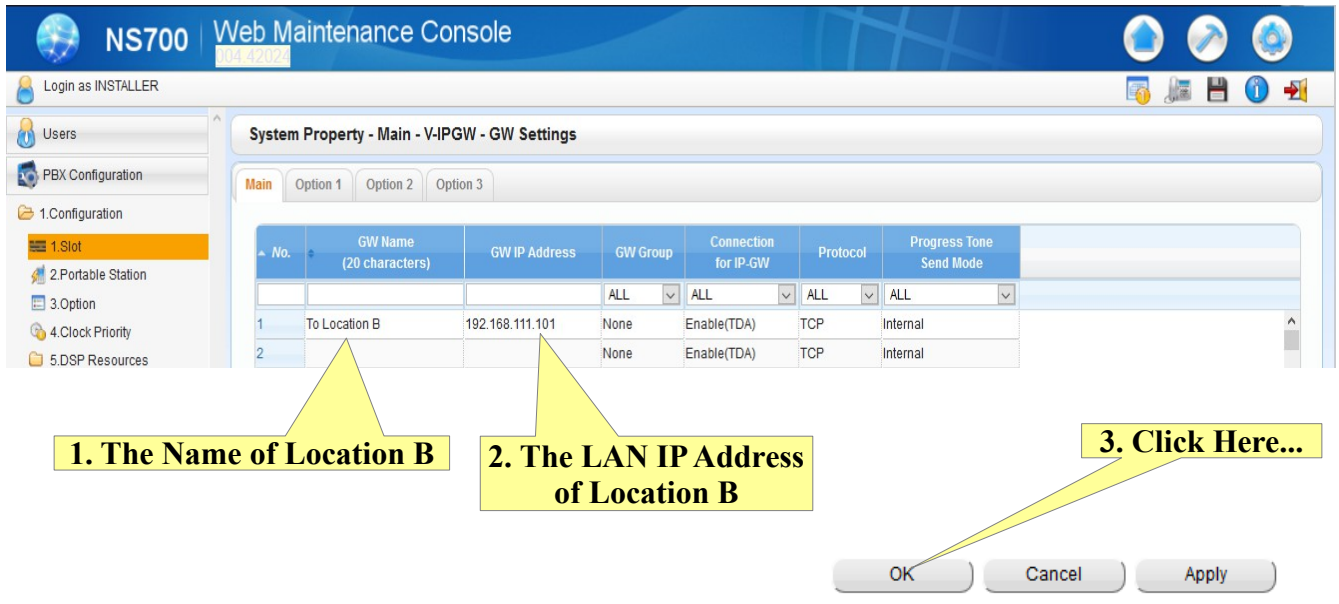
**This screen will appear:**



**Page 4 Location A**

**This screen will appear:**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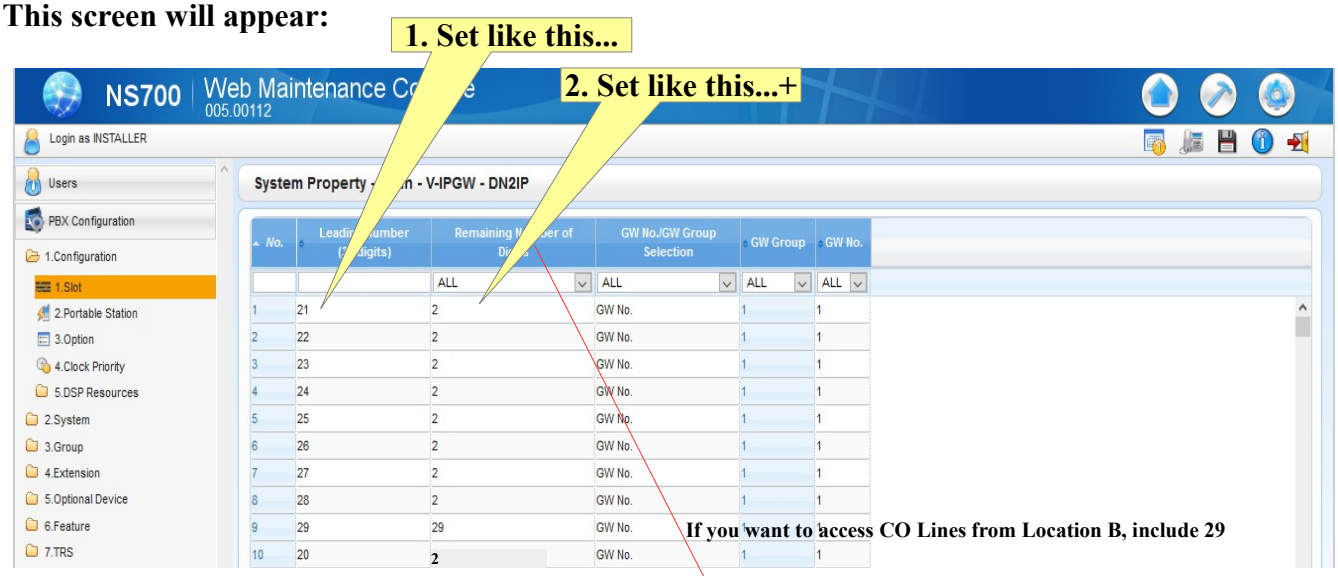
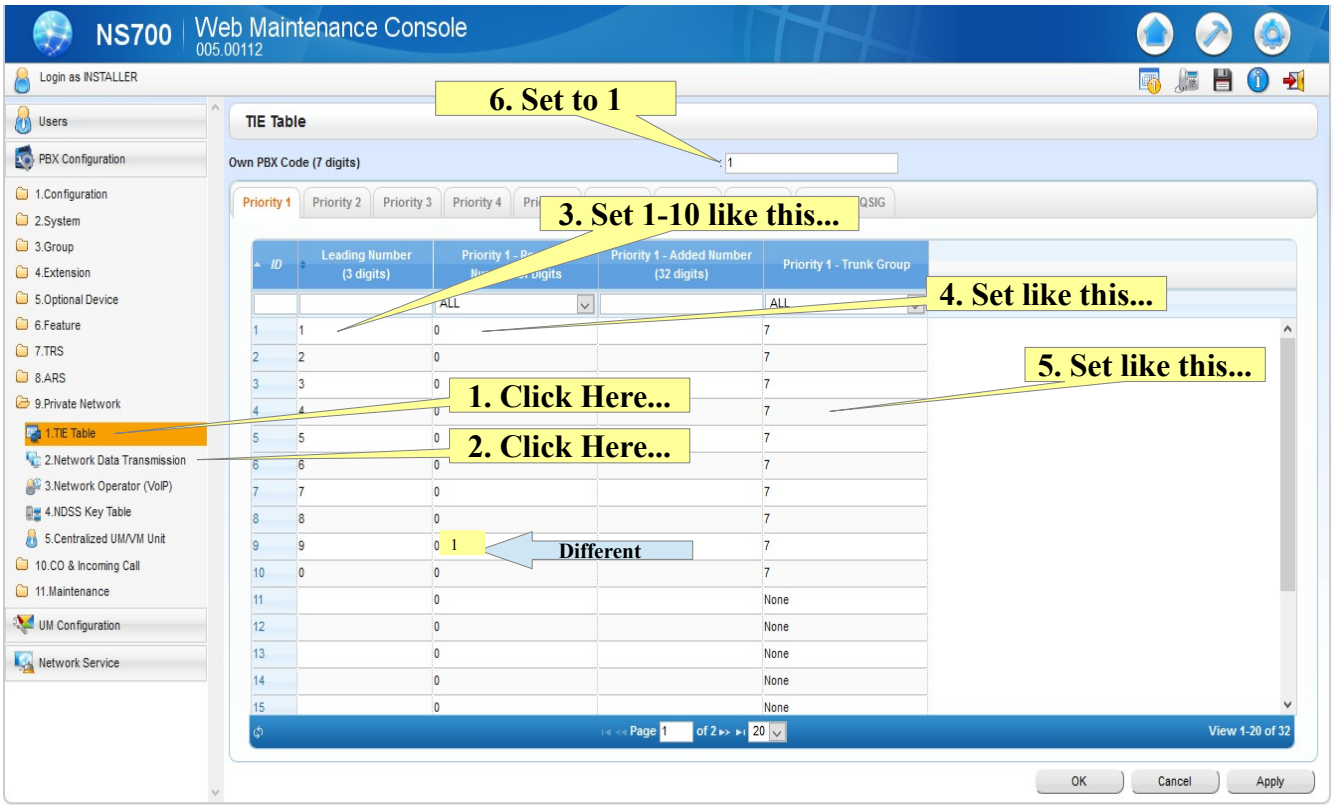
**This screen will appear:**




**If the extensions at Location B are 3 Digits, then set these to 2**
**If the extensions at Location B are 4 Digits, then set these to 3**
**If the extensions at Location B are 5 Digits, then set these to 4 Etc...**

**Page 5 Location A**

**Set the Private network:**

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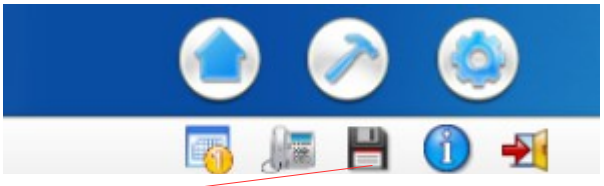
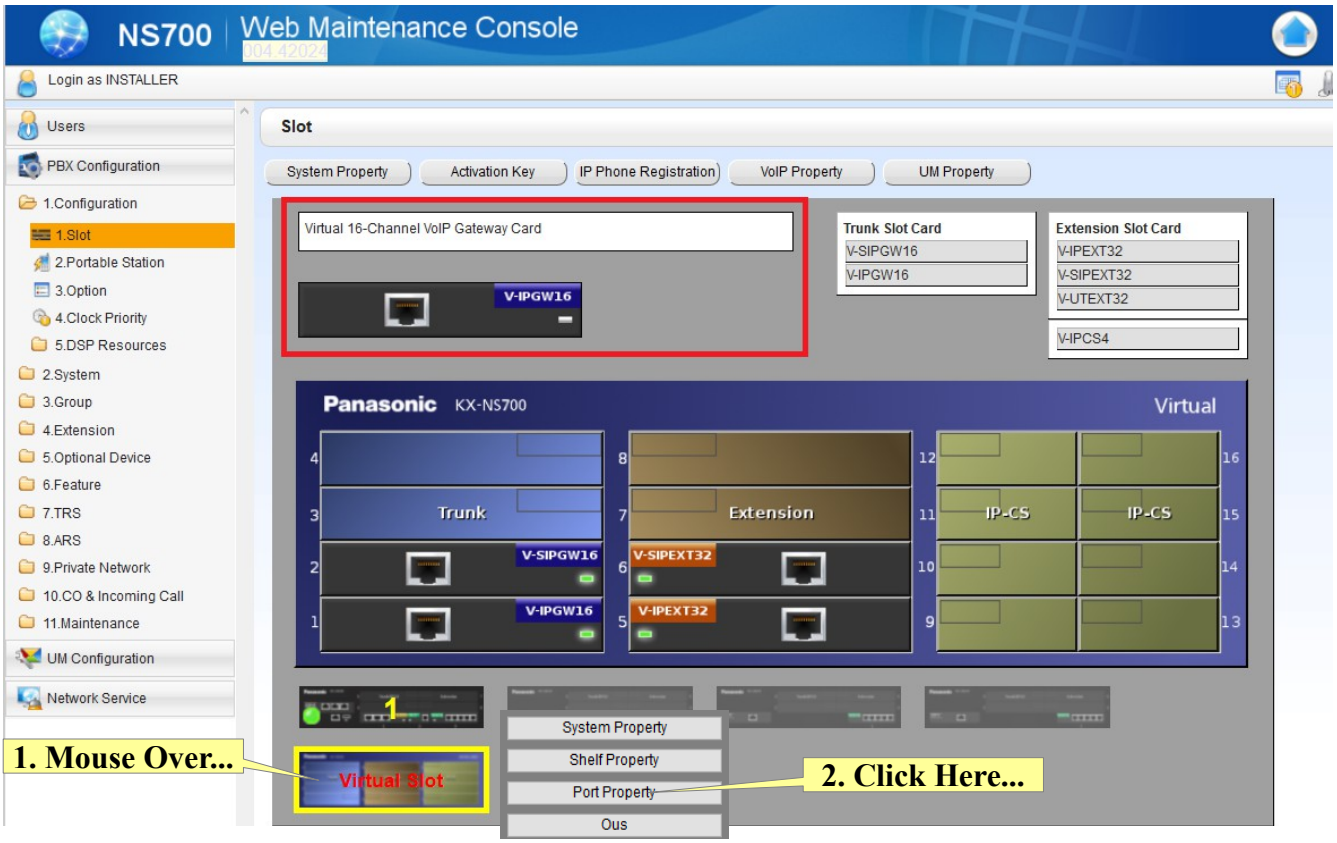
**I did not specify that you need to click the OK Button each screen.**



**Also, click the SD Card Icon when done to SAVE your programming.**

**Page 6 Location A**

**Check for In Service (INS)**

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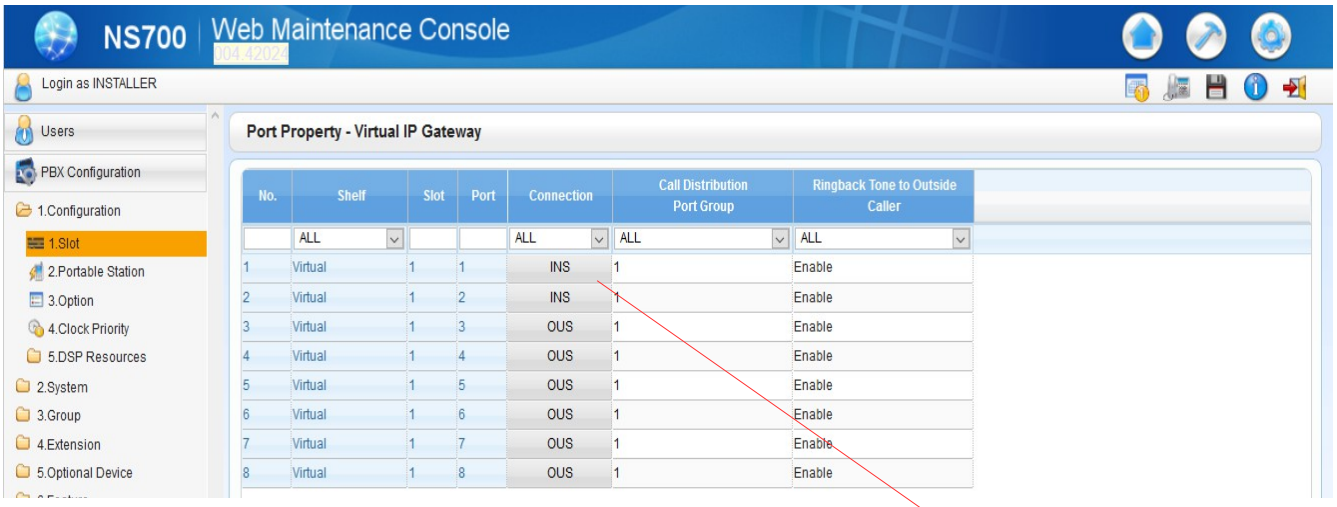
**This screen will appear:**




**I have 4 IP Trunk Channel Activation Keys, so you can see there are 2 Ports In Service (INS)**

**If I only had 2 IP Trunk Channel Activation Keys. Then only 1 Port would be In service. (INS)**

**INS does not indicate that there is a connection established between the 2 systems.**

**Page 7 Location A**

**Note: The installation of Activation Keys is not included in the Help sheet.**

**Set the Number of activated IP-GW**

**IP-GW = IP Gateway/V-IPGW16 card**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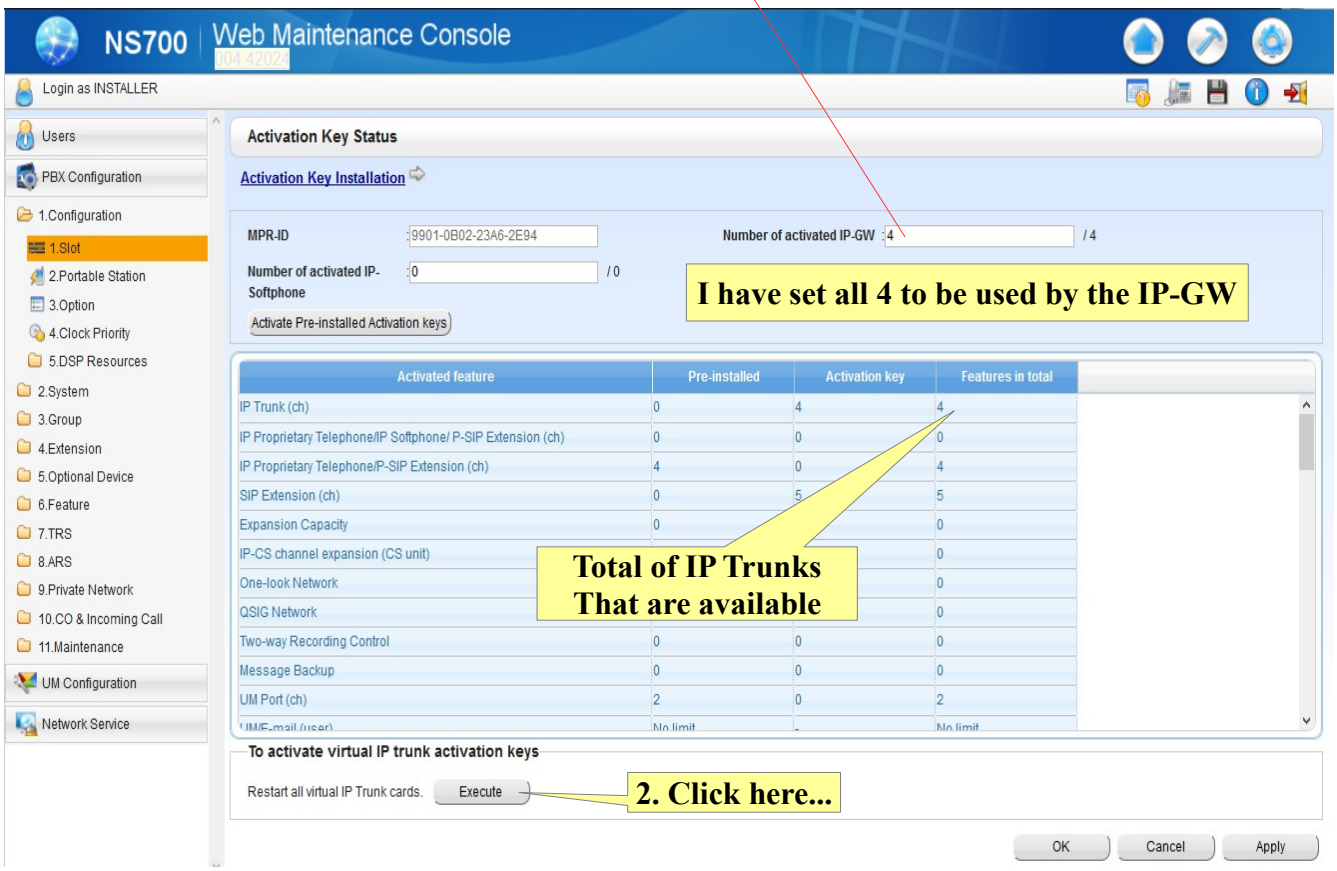
**1. Enter the number of "IP Trunks" to be used by the IP-GW.**
**This should be an even number.**
**Minimum of 2.**

**This screen will appear:**



# Operation

**Press your Intercom Button**

**To call Extension 201 from Location A to Location B you would dial 72201**

**To call Extension 101 from Location B to Location A you would dial 71101**

**To call the Operator 0 from Location A to Location B you would dial 720#**

**To call the Operator 0 from Location B to Location A you would dial 710#**

**To call 1 561 832 3801 from Location A using Location B CO Lines you would dial 72915618323801**

**To call 1 561 832 3801 from Location B using Location A CO Lines you would dial 71915618323801**

**Or**

**Press a Link or Link Group Button (This eliminates the need to dial the 7)**

**To call Extension 201 from Location A to Location B you would dial 2201**

**To call Extension 101 from Location B to Location A you would dial 1101**

**To call 1 561 832 3801 from Location A using Location B CO Lines you would dial 2915618323801**

**To call 1 561 832 3801 from Location B using Location A CO Lines you would dial 1915618323801**

## Additional information for your routers:

**Be sure that the Router to Router VPN is wide open and does not restrict or manipulate any Ports, IP Addresses or Protocols.**

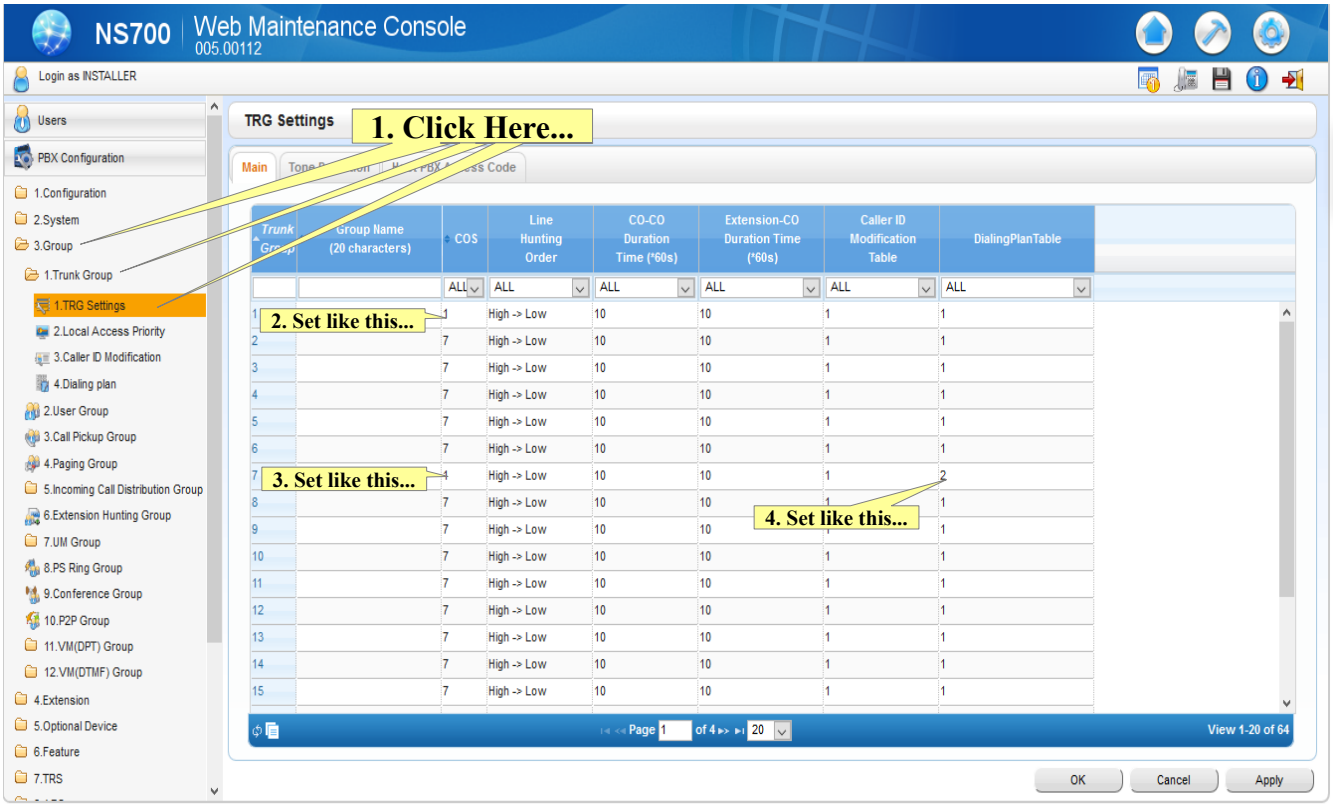
**You may need to Port Forward the Range of 16000 through 16125 UDP to the IP Address of the DSP Card.**

**This will allow two way audio between the systems.**

## Page 9 Location A

**If you want to be able to make Outside Calls from either location using the CO Lines of the other location, you will need to do the following:**

**If you are using Analog CO Lines, they are in Trunk Group 1 by default.**



## Page 10 Location A

**The Dialing Plan is used to make dialing an Outside Call over the VPN easier.**
**It is constructed to determine when the KSU will dial the telephone number.**
**It can be a bit tricky.**

**The Dial Plan below is designed to work with the following conditions:**
**Leading Number: 29N11**
**29 is the Access Code to the other KSU**
**N is any digit from 2 through 9**
**XX is any two digits from 0 through 9**
**You can dial 411, 611, 911 or anything 11 Example: 911**

**Leading Number: 29NXXXXXX**
**29 is the Access Code to the other KSU**
**N is any digit from 2 through 9**
**XXXXXX is any six digits from 0 through 9**
**You can dial any 7 digit telephone number Example: 2351234**

**Leading Number: 29PXXXXXXXXXX**
**29 is the Access Code to the other KSU**
**P is either a 1 or a 0 (This is what is used to determine a 1 Plus Long Distance call)**
**XXXXXXXXXX is any ten digits from 0 through 9**
**You can dial 1 followed by any 10 digit telephone number Example: 12125551212**

**You cannot have 7 digit dialing and 10 digit dialing in a single Dial Plan.**

**A Dial Plan for 10 digit dialing would be:**
**Leading Number 1: 29N11**
**Leading Number 2: XXXXXXXXXXXX (12 Capital X's)**
**Remaining Leading Numbers blank**

**Dialing a 7 digit number would require the End User to dial a # (POUND) at the end of the last digit to make the call go through.**

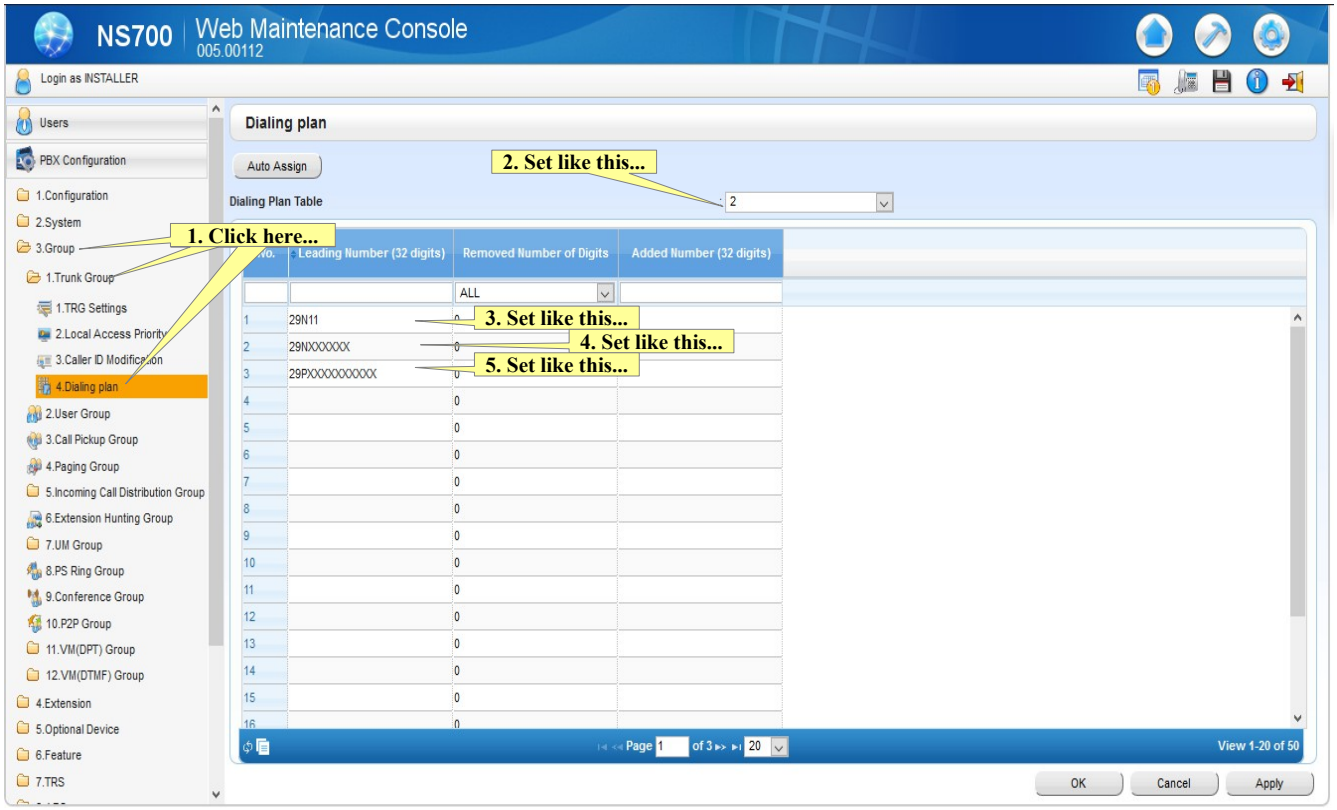
**Page 11 Location A**

**This Dialing Plan is for:**

**411, 611, 911 or anything 11**

**7 digit telephone numbers**

**1 Plus Long Distance dialing**




**If you need the Dial Plan characters:**

**N = 2 3 4 5 6 7 8 9**

**P = 0 or 1**

**X = 0 1 2 3 4 5 6 7 8 9 & #**

## Page 12 Location A

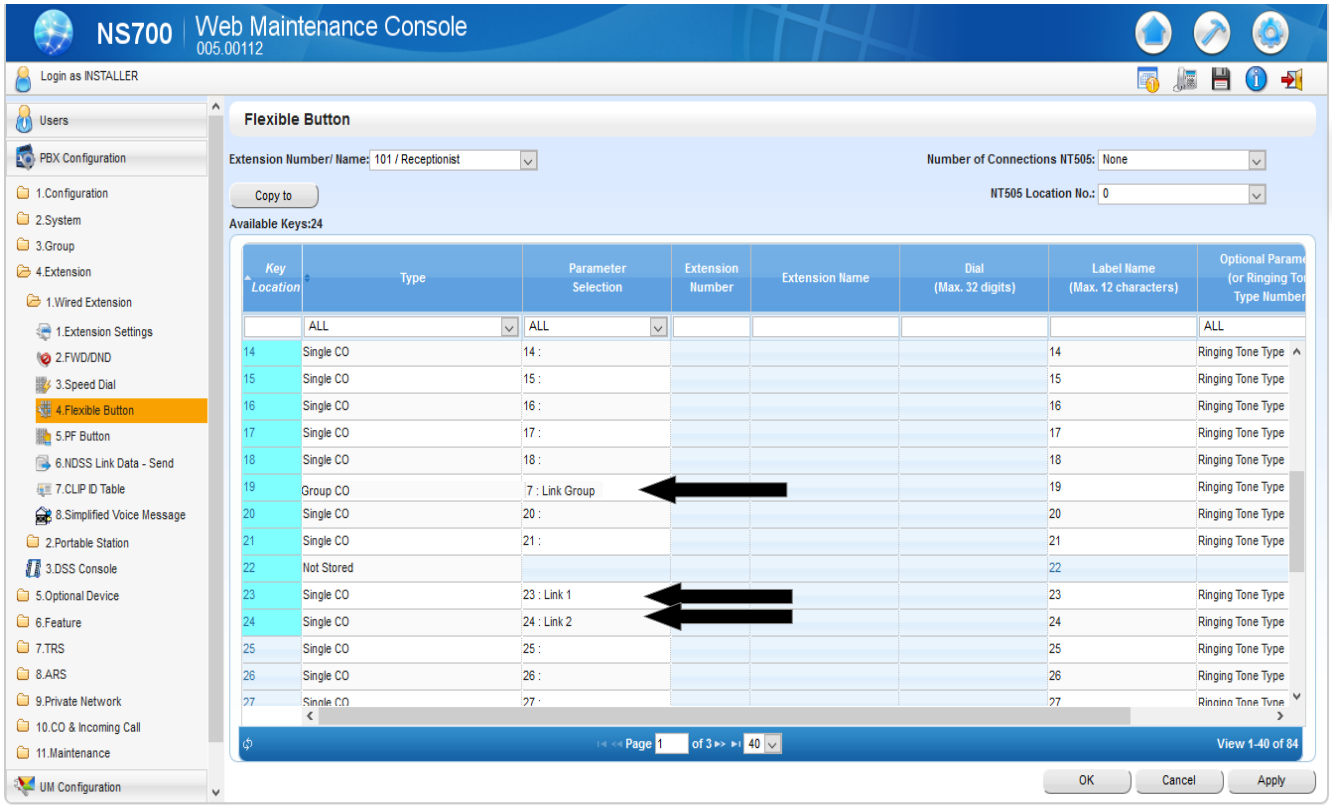
# Put the Links on Buttons

**It makes it easier for the End Users if you put all your Links to the other KSU on buttons.**

**Just label the Buttons Link 1, Link 2 etc...**

**This way they can see if a Link is available, press an available link and dial a single digit followed by the remote extensions Intercom number.**

**I have 2 Links, so I put them on Buttons 23 and 24.**




**You can place the Links on any button.**

**Be sure to place all Links on buttons.**

**You could also use a Group CO Button as shown above on Button 19.**

**This would require only 1 button and have access to all Links...**