

Panasonic KX-NS700 3rd Party SIP Phone / KX-TGP-500 Telquest Tech Support

This Help Sheet explains how to set up the KX-NS700 KSU to allow a 3rd Party SIP Phone to work.

The router info is basic and it is up to you determine how to make the changes in your particular router.

The Panasonic KX-TGP Cordless is considered a 3rd Party SIP Phone by the KSU.

It is up to you to program your 3rd Party SIP Phone to work properly.

We provide no Tech Support for your router.

We also assume that you are a qualified Telecom Tech with Panasonic programming experience.

If you are unable to understand this Help Sheet then you will need to bring in a local person that is an experienced, qualified Panasonic technician and has an understands IT Networking.

You will need to know the following information before you can proceed.

The Static Public IP Address of the router that the KSU is connected to. If it is not a Static IP Address then you will need to either get a Static IP Address from your Internet Provider or look into subscribing to a Dynamic DNS URL from www.dydns.com If you look into getting a Dynamic DNS URL then be sure that your router supports it.

You will also need 2 Static LAN IP Addresses along with the LAN Subnet Mask and Router Address.

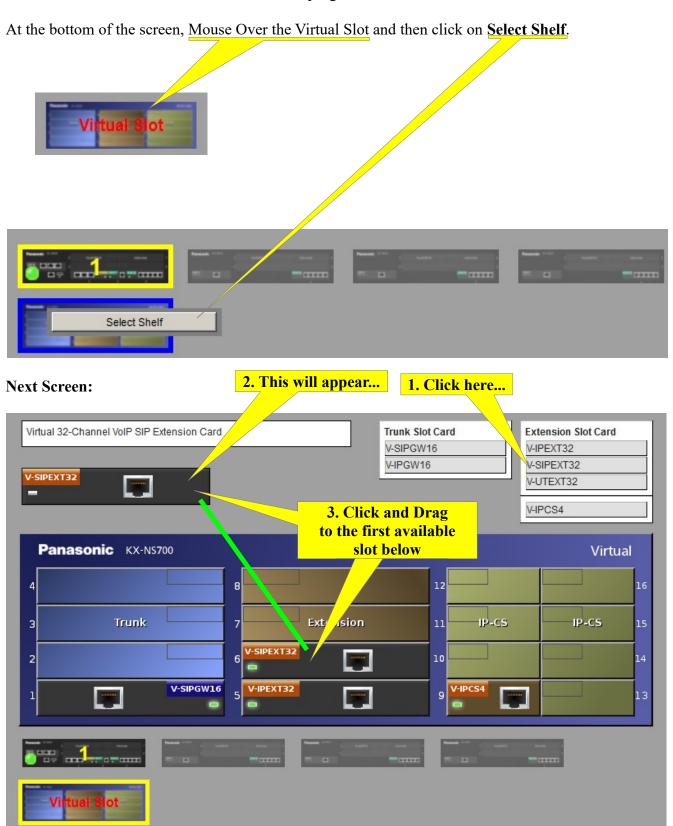
Setting up and changing the Default KSU IP Addresses is not covered in this Help Sheet.

You must also have a SIP Extension License for EACH remote 3rd Party SIP Phone.

Activated feature	P	re-installed	Activation key	Features in total	
IP Trunk (ch)	0	0		0	
IP Proprietary Telephone/IP Softphone/ P-SIP Extension (ch) 0	0	(0	
IP Proprietary Telephone/P-SIP Extension (ch)	4	0	4	4	
SIP Extension (ch)	0	1	-	1	
Expansion Capacity	0	0		0	
IP-CS channel expansion (CS unit)	Licenses KX-NSM701 = 1 SIP Phone				
One-look Network					
QSIG Network					
Two-way Recording Control	KX-NSM705 = 5 SIP Phones				
Message Backup					
UM Port (ch)					

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Start the Panasonic Web Maintenance Console program and connect to the KSU.

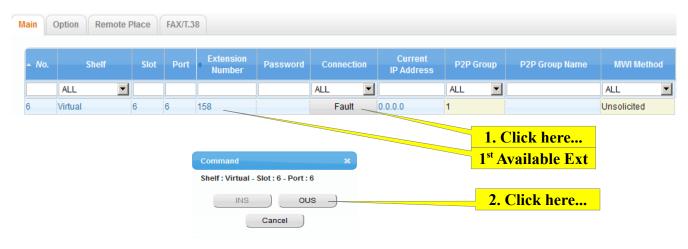


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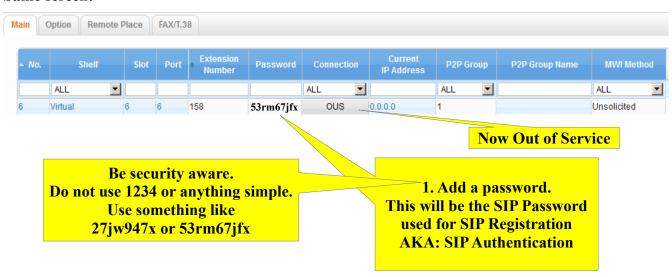


Next screen:

I have cut the screens down to minimize the view.



Same screen:



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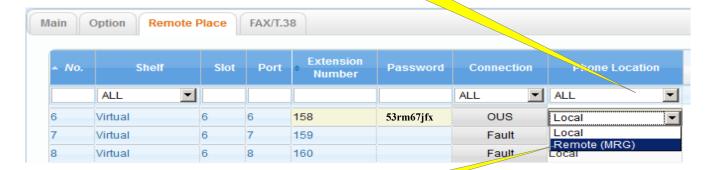
Same screen:

1. Click here...



1. Click here...

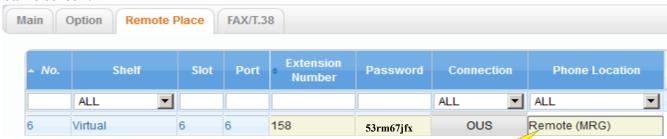
Next screen:



2. Select Remote (MRG)

MRG=Media Relay Gateway

Same screen:



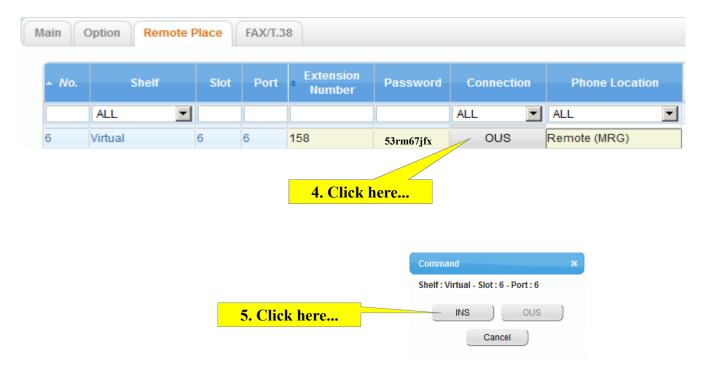
It will look like this when done...



3. Click here...

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Same screen:



Same screen:



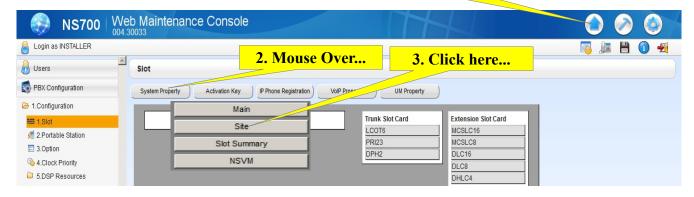
That completes the programming to establish a Remote SIP Extension and its password.

There are more areas in the programming that need to be done.

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Set Media Relay Gateway (MRG) values:

1. Click here...

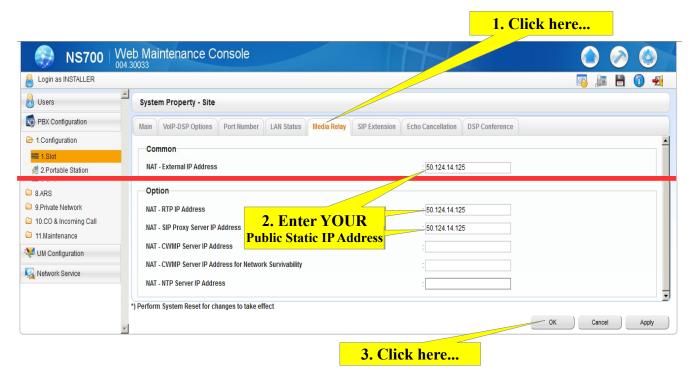


Next screen: It is cut down to save space.



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Next screen: It is cut down to save space.



Note:

Enter the Static Public IP Address of the router that YOUR KSU is connected to.

You must "Open / Port Forward" the following ports in the Network Router that the KSU is connected to.

This will allow the Remote SIP Phone to communicate with the KSU.

Forward Port 15060 UDP to Port 5060 UDP to the LAN IP Address of the KSU. (In my example it is 192.168.111.201 this is for SIP Messages)

Open Port Range 16000 to 16100 UDP to the LAN IP Address of the DSP Card. (In my example it is 192.168.111.202 this is for RTP Voice)

See Page 12 for more info.

Accessing the KXTGP-500 Web Browser

The KXTGP – 500 Web Browser is disabled by default.

To allow access to the Web Browser:

Press the Menu button IN
Dial #534 (POUND 534)
You will see "Embedded Web" in the LCD
Select ON
Press the Menu button IN

How to find the KXTGP – 500 IP Address
Press the Menu button IN
Dial #501 (POUND 501)
You will see "IP Address" in the LCD
The IP Address is just below it

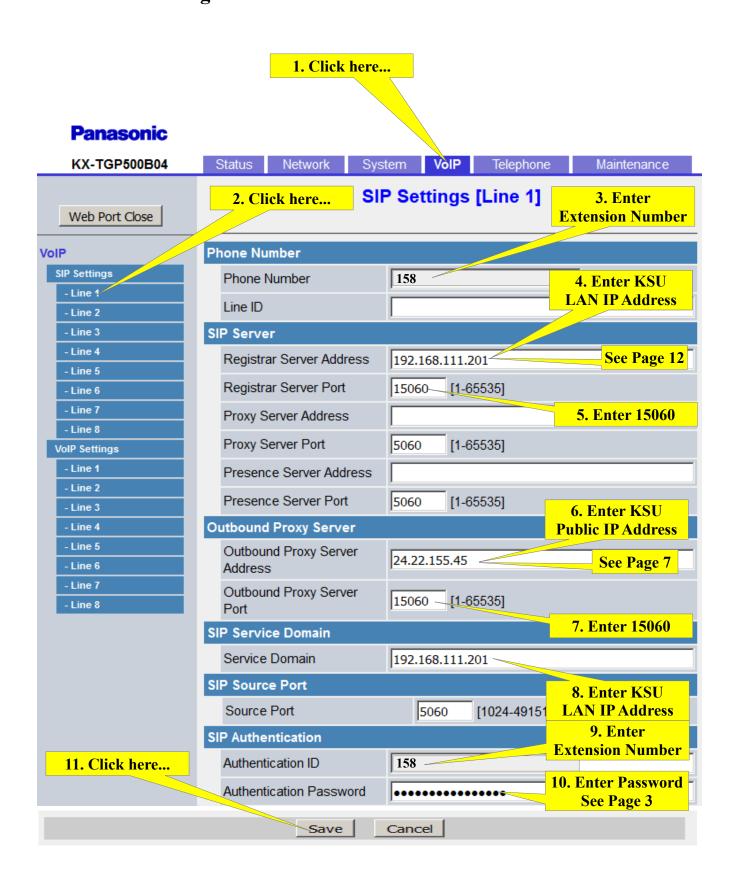
Browser Default Logon Info:

Logon: admin

Password: adminpass

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Enter the following information:



Page	1	0
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The Web Browser for the KX-TGP 500 will stay open for 30 minutes.

If you lose connectivity to the KX-TGP 500, then use Page 8 again.

At this point, the LED on the KX-TGP 500 should be Steady Green.

This indicates that it is Registered to the KSU.

You should be able to dial and ring between the KX-TGP 500 and the NS700 KSU, but there will be no voice.

There is an additional setting that needs to be entered to allow voice, but it is not available through the Web Browser.

You will need to call your Telquest salesperson to get the current link that needs to be entered via the Web Browser.

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If the LED on the KX-TGP 500 is Flashing Orange, then it is not Registered and you need to go over all your settings.

Note: Compatibility Issues

Since there are many different types of Routers and we cannot predict which units will and will not work.

If all methods fail, you can set up a VPN between the remote site and the KSU.

The VPN method always works if it is set up properly for SIP communications.

Once you have the link from your Telquest salesperson, enter it as shown below:

	1. Click here		
Panasonic			
KX-TGP500B04	Status Network Syst	tem VoIP Telephone Maintenance	
Web Port Close	Provisioning Maintenance		
Maintenance	Provisioning Maintenance		
Firmware Maintenance Local Firmware Update Provisioning Maintenance Management Selver Reset to Defaults Restart	Enable Provisioning	© Yes © No	
	Standard File URL		
	Product File URL		
	Master File URL		
	Cyclic Auto Resync	© Yes ♥ No	
	Resync Interval	10080 jute(s) [1-40320]	
	Header Value for Resync rent	check-sync	
		Save Cancel	
	2. Click here	3. Paste the link here	
		4. Click here	

The KX-TGP 500 will re-boot and should have voice when it is done.

Identify LAN and DSP IP Addresses

