

Panasonic KX-NS700 3rd Party SIP Phone / Iphone Setup Telquest Tech Support

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

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

The same for the 3rd Party SIP Phone.

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

We provide no Tech Support for your router or 3rd Party SIP Phone.

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.

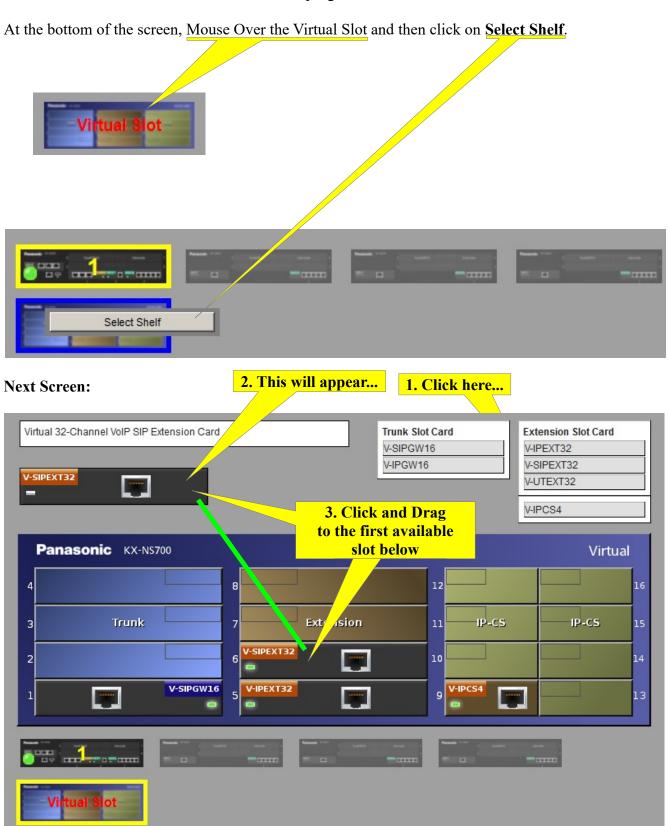
Setting up and changing the Default KSU IP Addresses is not covered in this Help Sheet.

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

Activated feature		Pre-installed	Activation key	Feature	s 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	
SIP Extension (ch)	0		1	1	
Expansion Capacity	0		0	0	
IP-CS channel expansion (CS unit)	1_	т •	_	1-	
One-look Network		Licer	ises		
QSIG Network	KX-NSM	1701 = 1 SI	P Phone		
Two-way Recording Control					
Message Backup	KX-NSM	1705 = 5 SI	P Phones		
UM Port (ch)					

Page 2

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

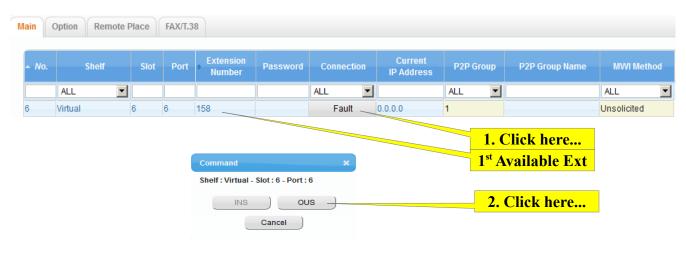


Page 3

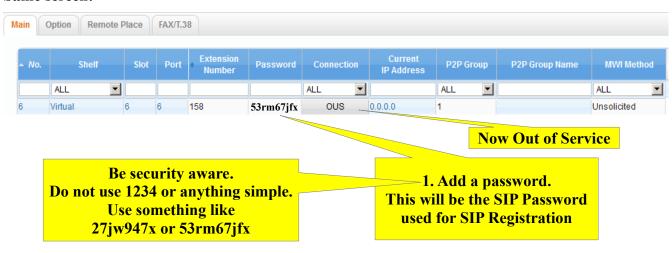


Next screen:

I have cut the screens down to minimize the view.



Same screen:



Page 4

Same screen:

1. Click here...



Next screen:

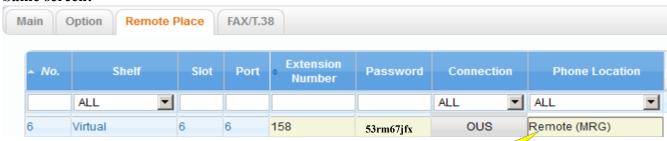
1. Click here...



2. Select Remote (MRG)

MRG=Media Relay Gateway

Same screen:



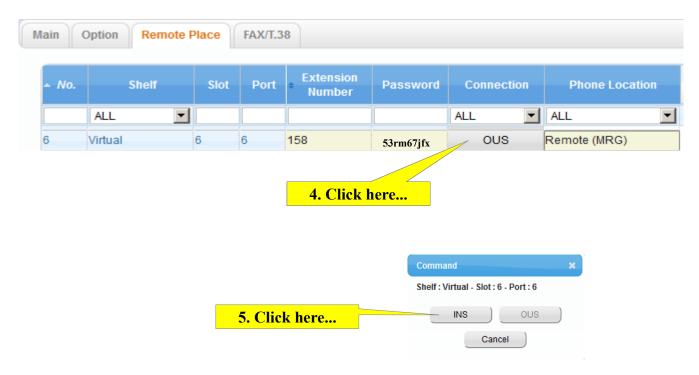
It will look like this when done...



3. Click here...

Page 5

Same screen:



Same screen:



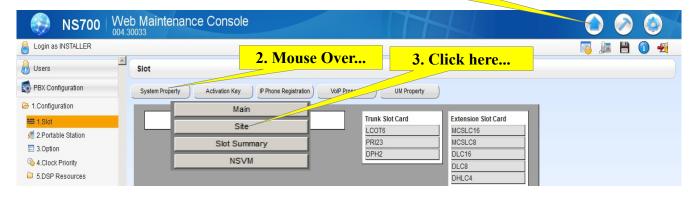
That completes the programming to establish a Remote SIP Extension and its password.

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

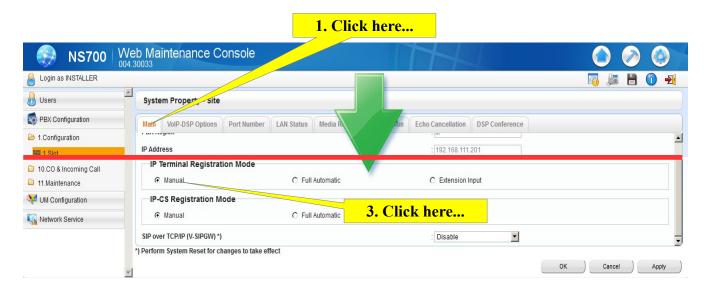
Page 6

Set Media Relay Gateway (MRG) values:

1. Click here...

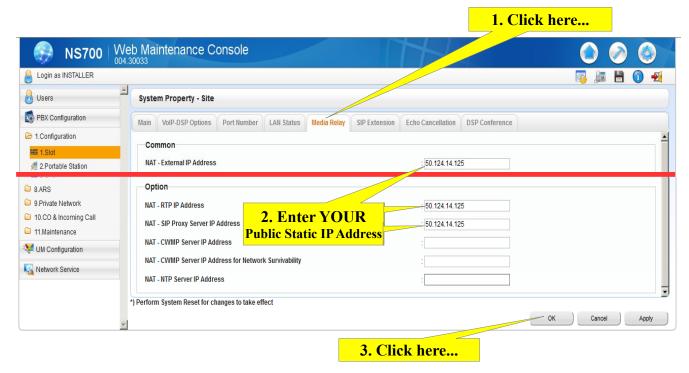


Next screen: It is cut down to save space.



Page 7

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.

Note:

This only needs to be done if you do not use the VPN method on Page 13

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.

Grandstream Wave Soft Phone for Iphone Setup

Go to the App Store and search for Grandstream Wave

Download, Install and run the app. in your Iphone

Here are screen shots of how I set mine to work with the Panasonic KX-NS700 KSU

Some screens may have changed since this was written in 2/2016

First screen:

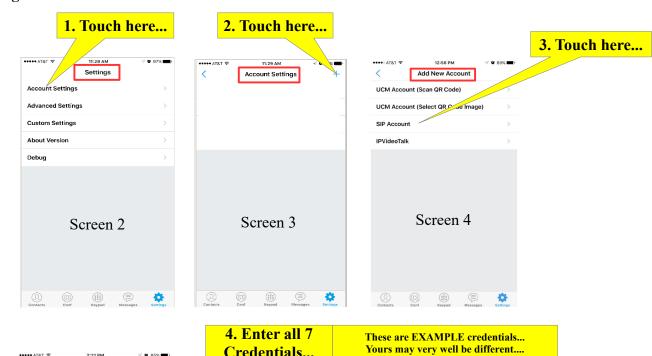


1. Touch here...

Page 9

Enter Credentials

Credentials...





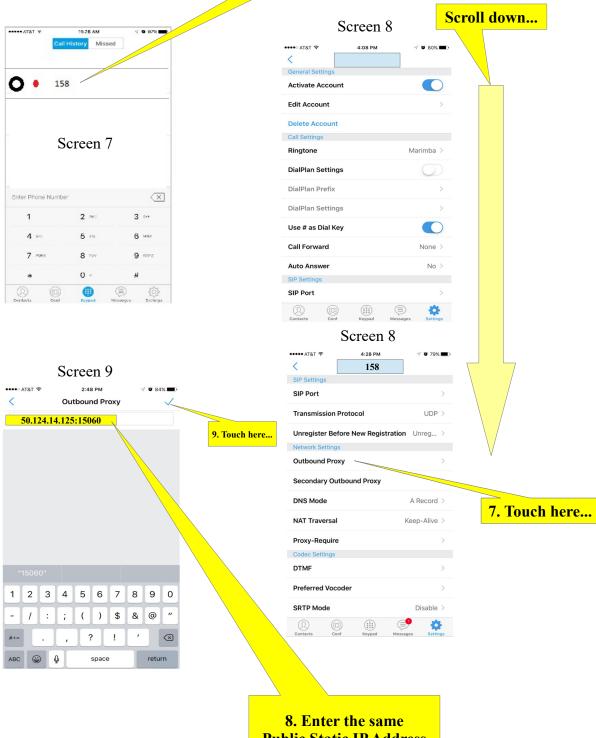
Note: SIP Server is the LAN IP Address of the KSU NOT the LAN DSP IP Address of the KSU

2:21 PM	-7 ♥ 85% == 0
< Add New Accoun	ıt 🗸
Account Name	158
SIP Server LAN IP Addre	ess of KSU
SIP User ID	158
SIP Authentication ID	158
Password Same	as Page 3
	asrages
Display Password	0
Voicemail UserID	
Display Name	
Display Hairie	
Contacts Conf Reyard M	Settings

Page 10

You will see a screen similar to this:

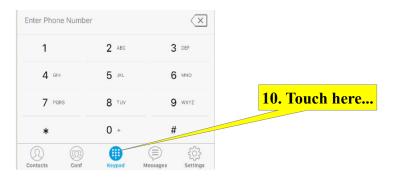
6. Touch here...



8. Enter the same Public Static IP Address as you did in Page 7 Followed by :15060

Page 11

Screen 10



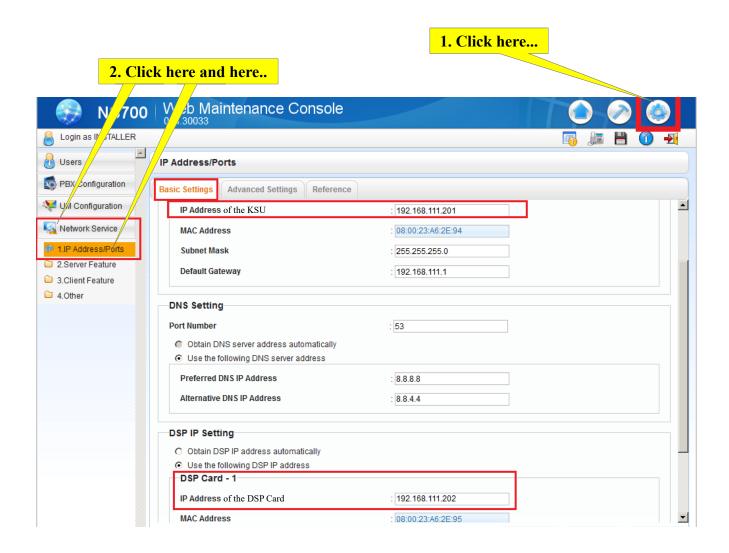
If everything works, then you will see a small icon and your extension number here in Green.

Screen 11



Page 12

This is where the LAN IP Address is for the KSU and DSP Card



We can not provide any additional Tech Support beyond what is found in these Help Sheets.

Note:

Even if you have everything set correctly, it may not work.

This is due to the many different types of routers and 3G/4G/LTE Networks.

Some LANS may block SIP and RTP (Voice) from working completely.

It may work in one location and then 50 feet away it may not.

You can avoid this possible problem by using a router, at the KSU location, that has a VPN (Virtual Private Network) feature.

The Iphone (at least my Iphone 6) has a built in VPN Client that can connect to the router at the KSU location.

This method, VPN, will almost always work and has the added benefit of encrypting your conversations.