TelQuest International
973-808-4588

Panasonic KX-NS700
3rd Party SIP Phone / Panasonic KX-HDV series
Telquest Tech Support

This Help Sheet explains how to set up the KX-NS700 KSU to allow a 3rd Party SIP Phone to work.
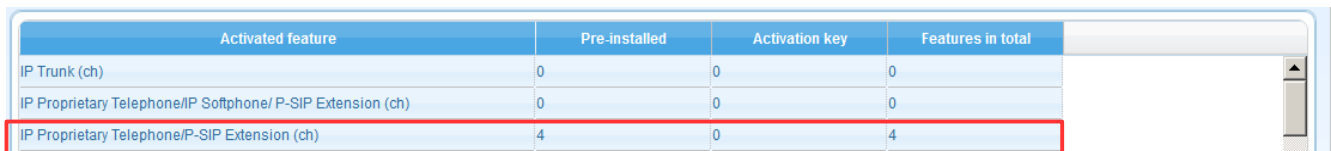
Note:
The Panasonic KX-HDV series of telephones are considered as a P-SIP Extension by the KSU.
As such, they use Panasonic P-SIP Extension Application Keys.
There is a 4 Station Application Key Pre-Installed.
If you have more than 4 P-SIP Devices in total, you will need to purchase more Activation Keys.
Speak with your Telquest salesperson for more info.

Activated feature	Pre-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	

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

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 LAN IP Address of the NS-700 KSU

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

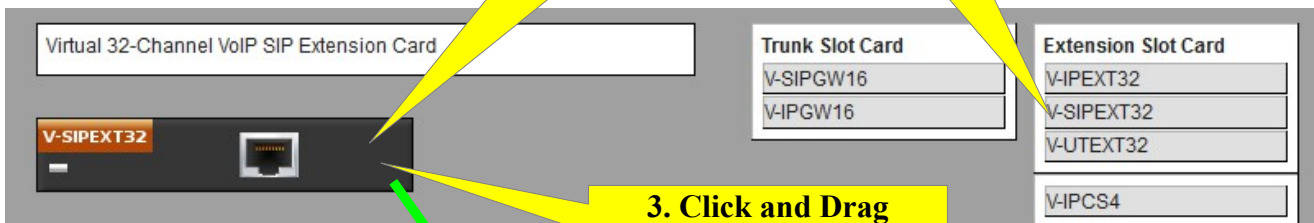Start the Panasonic Web Maintenance Console program and connect to the KSU.

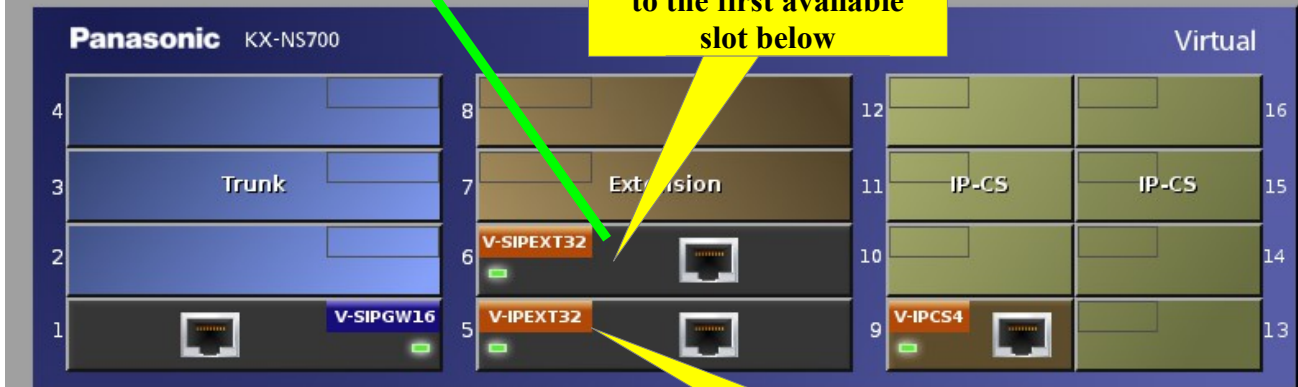At the bottom of the screen, Mouse Over the Virtual Slot and then click on **Select Shelf**.

Next Screen:

Page 3

Same screen:

1. Mouse Over...

2. Click here...
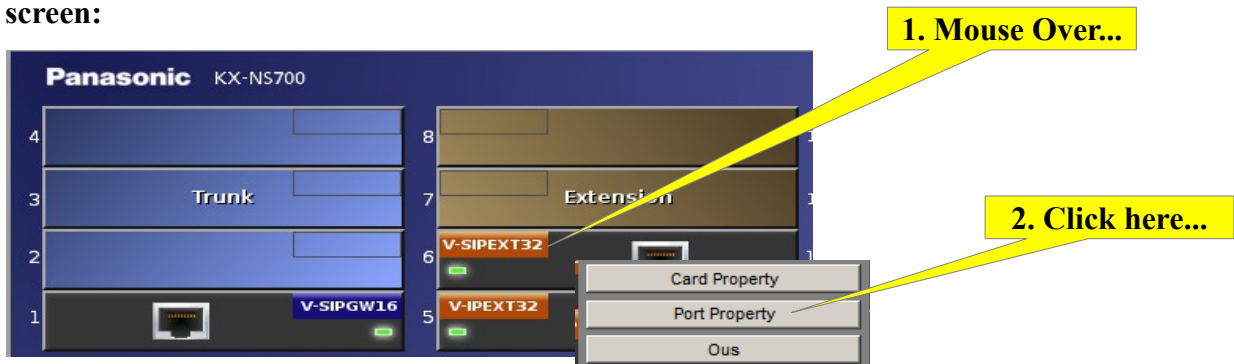
Next screen:

I have cut the screens down to minimize the view.

1. Click here...
1st Available Ext

2. Click here...
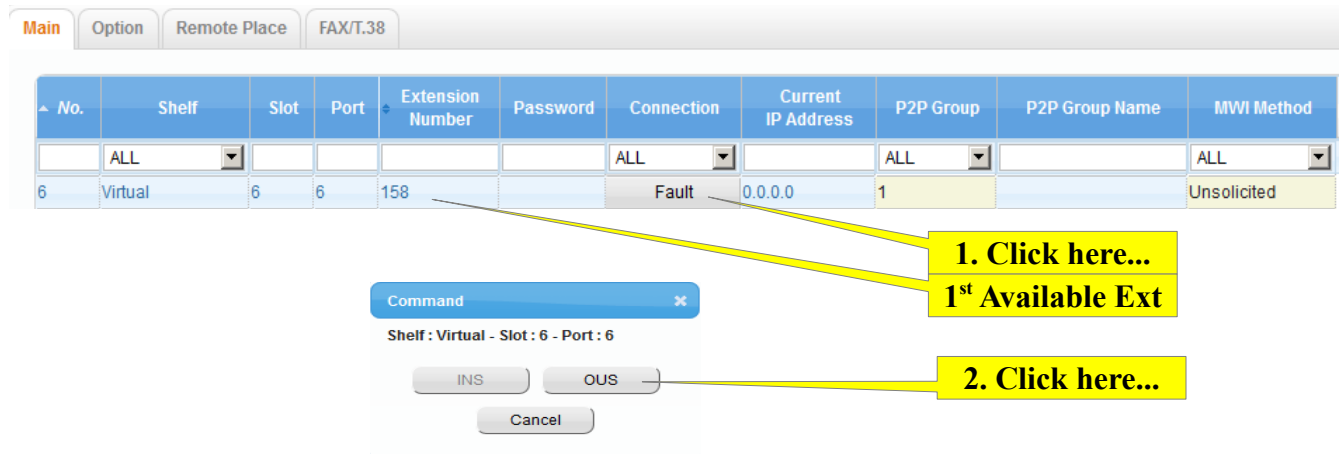
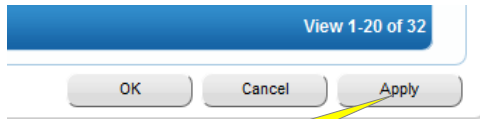**Same screen:**
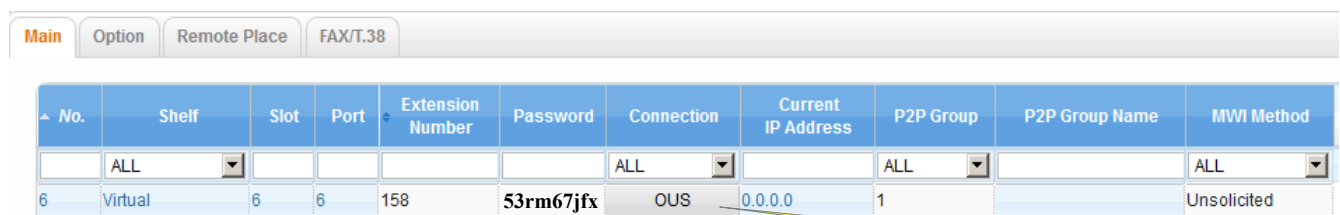
Now Out of Service

Be security aware.
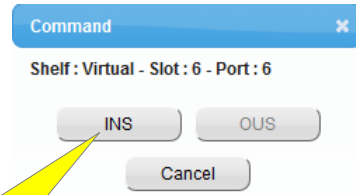Do not use 1234 or anything simple.
Use something like
27jw947x or 53rm67jfx

1. Add a password.
This will be the SIP Password
used for SIP Registration
AKA: SIP Authentication
SIP Password

Same screen:

View 1-20 of 32

OK   Cancel   Apply

3. Click here...

Command ✕

Shelf : Virtual - Slot : 6 - Port : 6

INS   OUS

Cancel

4. Click here...

▲ No.	Shelf	Slot	Port ⇕	Extension Number (SIP Username)	Password	Connection	SIP Phone Type	Current IP Address	MWI Method
	ALL ▾					ALL ▾	ALL ▾		ALL ▾
6	Virtual	6	6	158	**53rm67jfx**	Fault		0.0.0.0	Unsolicited

5. It will say Fault until the phone is Registered

It will say INS when the phone is Registered

OK   Cancel   Apply
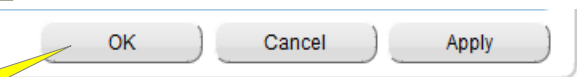
6. Click here...

Now, go to your 3rd Party SIP Phone and program it to communicate with the KSU.

Here are the 3 basic elements for SIP Registration:

KSU LAN IP Address
SIP Extension Number
SIP Password

Keep in mind that not every manufacturer uses the same words for each element.

Be prepared to be flexible.

Programming for Panasonic KX-HDV Series Telephones

You can use a web browser to program the phone.

Before you can access the phone, you need to do 2 things.

First, you must enable the phones Embedded Web Server.
Then you need to determine the phones IP Address:

Note: All button functions appear in the LCD area of the phone.

Activate the Embedded Web Server:
Press the Menu button
Scroll down to Basic Settings
Press OK
Scroll down to Other Option
Press OK
Scroll down to Embedded Web
Press OK
Scroll and select On
Press OK

Determine the IP Address of the phone:
Press Back until you see the idle screen
Press Menu
Scroll down
Select System Settings
Press OK
Select Status
Press OK
Scroll down to IPv4 Settings
Press OK
Select IP Address
Press OK
Write down the IP Address that appears in the display
Press Back until you see the idle screen

There is an automatic Time Out for the Embedded Web Server.

It is about 15 minutes.

If it times out, you will not be able to make any changes until you activate it again.

Open a web browser and enter the IP Address of the phone in the web browsers Address Bar and connect to the phone.

The log on info is:

ID= admin
Password= adminpass

These are the basic settings to make the phone operational.

Navigate to the area below:

1. Click here...

Panasonic

KX-HDV230

| Status | Network | System | **VoIP** | Telephone | Maintenance |

Web Port Close

2. Select Line 1...

SIP Settings [Line 1]

VoIP

SIP Settings
- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6

VoIP Settings
- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6

Basic

Phone Number	Enter the Extension Number
Registrar Server Address	Enter the KSU's IP Address
Registrar Server Port	5060 [1-65535]
Proxy Server Address	Enter the KSU's IP Address
Proxy Server Port	5060 [1-65535]
Presence Server Address	Enter the KSU's IP Address
Presence Server Port	5060 [1-65535]
Outbound Proxy Server Address	Enter the KSU's IP Address
Outbound Proxy Server Port	5060 [1-65535]
Service Domain	
Authentication ID	Enter the Extension Number
Authentication Password	••••••••••••••••

3. Enter the password you created on Page 3...

Save   Cancel

4. Click here...