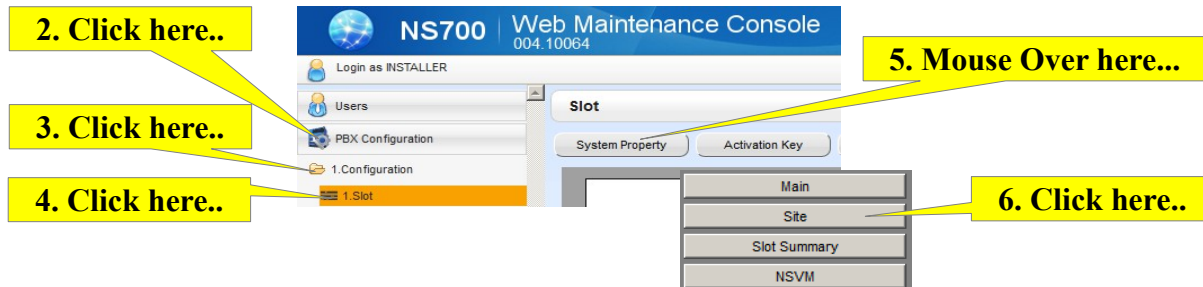TelQuest International
973-808-4588

Panasonic NS700
Installing NT/IP Phones at a Remote Site
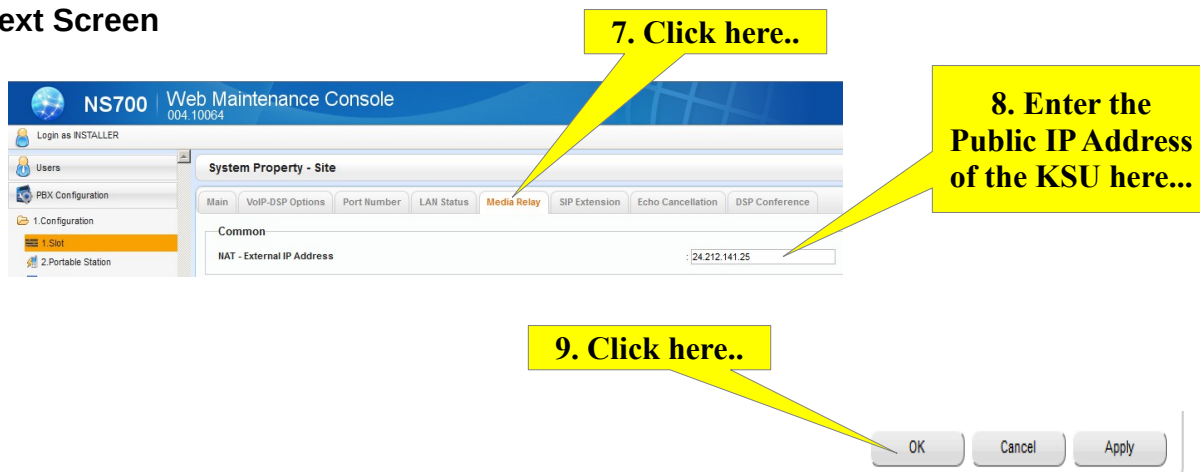**with a Built-in Media Relay Gateway at KSU**
Telquest Tech Support

You must first install a Virtual V-IPEXT32 Card and open certain ports in the Router

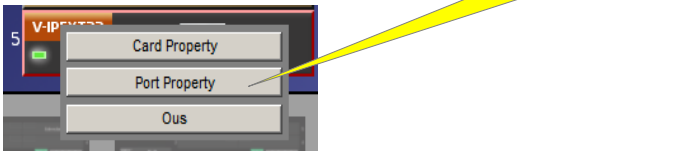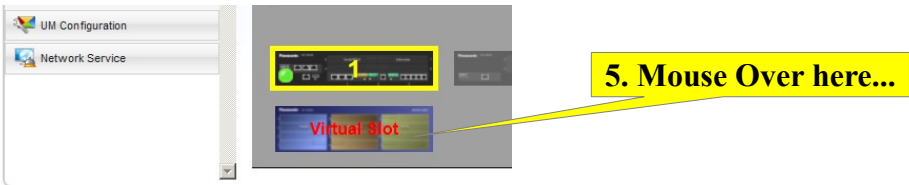**Run the Panasonic Programming software and connect to the KX-NS700 KSU**

Program the KSU to allow Remote Connections

1. Click here..

2. Click here..

3. Click here..

4. Click here..

NS700 | Web Maintenance Console
004.10064

Login as INSTALLER

Users

PBX Configuration

1.Configuration

1.Slot

Slot

System Property   Activation Key

5. Mouse Over here...

Main
Site
Slot Summary
NSVM

6. Click here..

Next Screen

7. Click here..

8. Enter the Public IP Address of the KSU here...

NS700 | Web Maintenance Console
004.10064

Login as INSTALLER

Users

PBX Configuration

1.Configuration

1.Slot

2.Portable Station

System Property - Site

Main | VoIP-DSP Options | Port Number | LAN Status | Media Relay | SIP Extension | Echo Cancellation | DSP Conference

Common

NAT - External IP Address   : 24.212.141.25

9. Click here..

OK   Cancel   Apply

Program the Extension for Remote Connection

1. Click here..

2. Click here..

3. Click here..

4. Click here..

NS700 | Web Maintenance Console
004.10064

Login as INSTALLER

Users

PBX Configuration

1.Configuration

1.Slot

Slot

System Property   Activation Key

UM Configuration

Network Service

5. Mouse Over here...

Virtual Slot

UM Configuration

Network Service

6. Click here..

Select Shelf

7. Mouse Over here...

11.Maintenance

UM Configuration

Network Service

V-SIPGW16   V-IPEXT32

Virtual Slot

8. Click here..

V-IPEXT32

Card Property

Port Property

Ous

Page 3

Next Screen

Port Property - Virtual IP Extension

Registration | De-registration | Forced De-registration

Main | Option | Voice | **Remote Place**

8. Click here..

9. Click here..

10. Select this...

▲ No.	Shelf	Slot	Port	Extension Number	Extension Name (20 characters)	Connection	Phone Location
	ALL ▼					ALL ▼	ALL ▼
1	Virtual	5	1	121	Test 121	Fault	Remote (MRG) ▼
2	Virtual	5	2	122		Fault	Local / Remote (MRG)
3	Virtual	5	3	123		Fault	Local
4	Virtual	5	4	124		Fault	Local

11. Click here..

OK | Cancel | Apply

Open/Forward Ports In Your Router

Here is a screen shot of my Routers Port Forwarding area.

You need to open the same ports in your Router.

In this example, 192.168.111.201 is my KX-NS700 KSU and 192.168.111.202 is the DSP Card

NS700 PTAP	UDP	9300	9300	192.168.111.201
NS700 RTP	UDP	16000	18047	See Page 4
NS700 MGCP	UDP	2727	2727	192.168.111.201
NS700 FTP	UDP	31021	31021	192.168.111.201
NS700 SIP	UDP	15060	15060	192.168.111.201

You will need to Register the NT type telephone to the KSU.
Its easier when done at the KSU before installing the NT phone at the Remote Location.
This way you have complete control and can start and watch the Registration process.
It can be done from the Remote Location as well, but you will need to work with the End User.

This is covered in a different Help Sheet.

Port Forwarding for RTP (Voice Packets) in the Router at the KSU location

Ports	Forward to	Description
16000 – 16511 (UDP)	192.168.111.202	Send RTP to DSP#1
16512 – 17023 (UDP)	192.168.111.202	Send RTP to DSP#2
17024 – 17535 (UDP)	192.168.111.202	Send RTP to DSP#3
17536 – 18047 (UDP)	192.168.111.202	Send RTP to DSP#4