Setup Reference guide for KX-NS Series
(Tested with NS1000 Ver4.5)
“Ecotel Sip-Trunk 2.0” SIP Trunk service
with External Router

Panasonic

Version 1.2(PSCEU) 29th March, 2017

◆ SUMMARY

This document is a reference for configuring “**Ecotel Sip-Trunk 2.0**” SIP trunks onto KX-NS Series systems and includes the settings required for Incoming Call DDI routing and Outgoing Call CLI presentation.
SIP trunk specific account details are provided to you by **Ecotel Sip-Trunk 2.0**.

◆ Attention:

This document was created based on the results of test environment accounts.
Panasonic cannot guarantee SIP Trunk operation in all environments, however as a result of completing this Inter-Operability Test Panasonic will provide technical support for any issues experienced an assist as far as possible in providing a resolution.
Please obtain relevant information from Service provider before configuration of SIP trunks.
Panasonic will not be held liable for any information provided in this guidance document.
Information used in this document is for interoperability testing.
Information and Specifications in this document are subject to change without notice.

◆ Note

REFER

Ecotel does not work properly for SIP REFER messages. Use PBX “Transfer to CO” function if required.

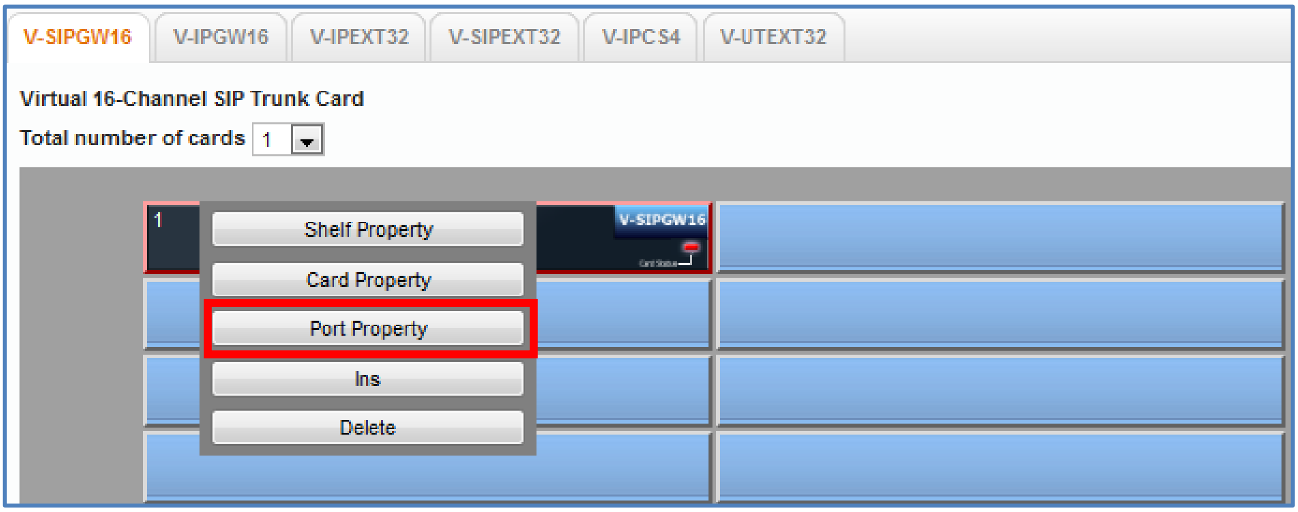
Transfer / Forward

When the Transfer/forwarding destination is PSTN, the CLI is not call originator but PBX's CLI.

◆ Table of Contents

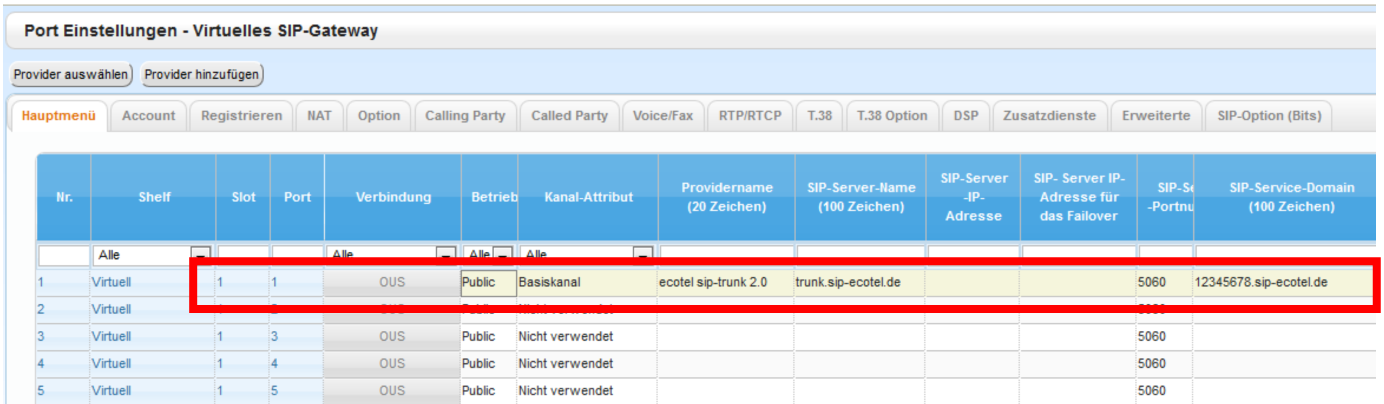
(1) Provisioning the SIP Trunk
SIP Trunk – Port Property

Set the **[V-SIPGW16]** card to **[OUS]** and then select **[Port Property]**



[Main] Tab

1. **Channel Attribute:** ***Basic Channel***
2. **Provider Name:** ***Enter a name – reference only***
3. **SIP Server Location – Name:** ***trunk.sip-ecotel.de – (ecotel provided)***
4. **SIP Server Location – IP Address:** *Not required*
5. **SIP Server port Number:** *Leave at 5060*
6. **SIP Service Domain:** ***12345678.sip-ecotel.de (12345678=ContractNo.)***
7. **Subscriber Number:** *Not required*



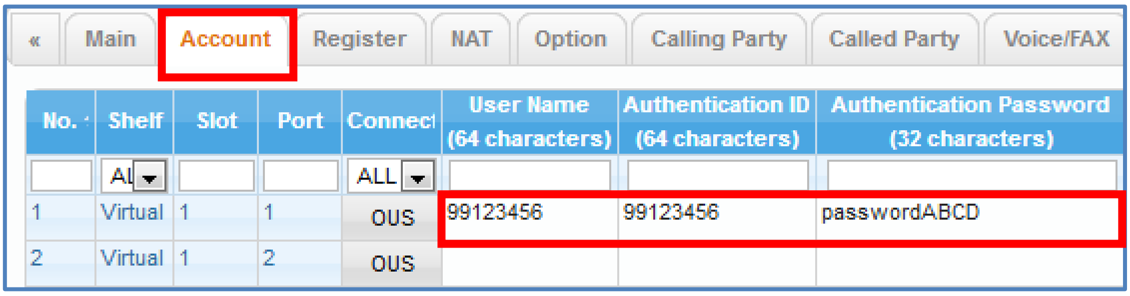
SIP Trunk – Port Property continued

[Account] Tab

1. User name: ***Enter the Username as supplied by ecotel.***
(Note this is username without @zertifizierung.sip-ecotel.de)
For example: Username = 99123456
Enter: 99123456

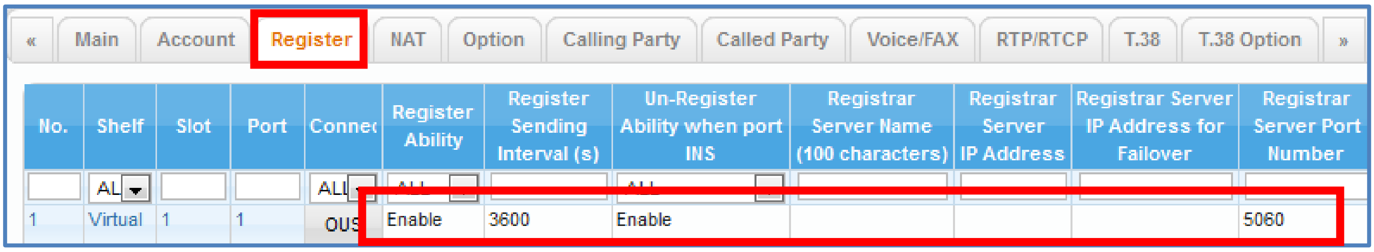
2. Authentication ID: ***Enter the Authentication ID as supplied by ecotel.***
(Note this is Authentication ID without @zertifizierung.sip-ecotel.de)
For example: Authentication ID = 99123456
Enter: 99123456

3. Authentication Password: ***Enter the password as supplied by ecotel.***
For example: password = passwordABCD
Enter: passwordABCD



[Register] Tab

1. Register Ability: *Leave enabled*
2. Register Interval: *Leave at 3600*
3. Un-Register Ability: *Leave enabled*
4. Registrar Server – Name: *Not required*
5. Registrar Server – IP Address: *Not required*
6. Registrar Server port number: *Leave at 5060*



Click **[OK]** to apply the changes.
Select **[INS]** on the **[V-SIPGW16]** card to bring the SIP trunk ports into service.

(2) Incoming Call Routing

Go to **[CO & Incoming call]** and select **[3.DDI /DID Table]**

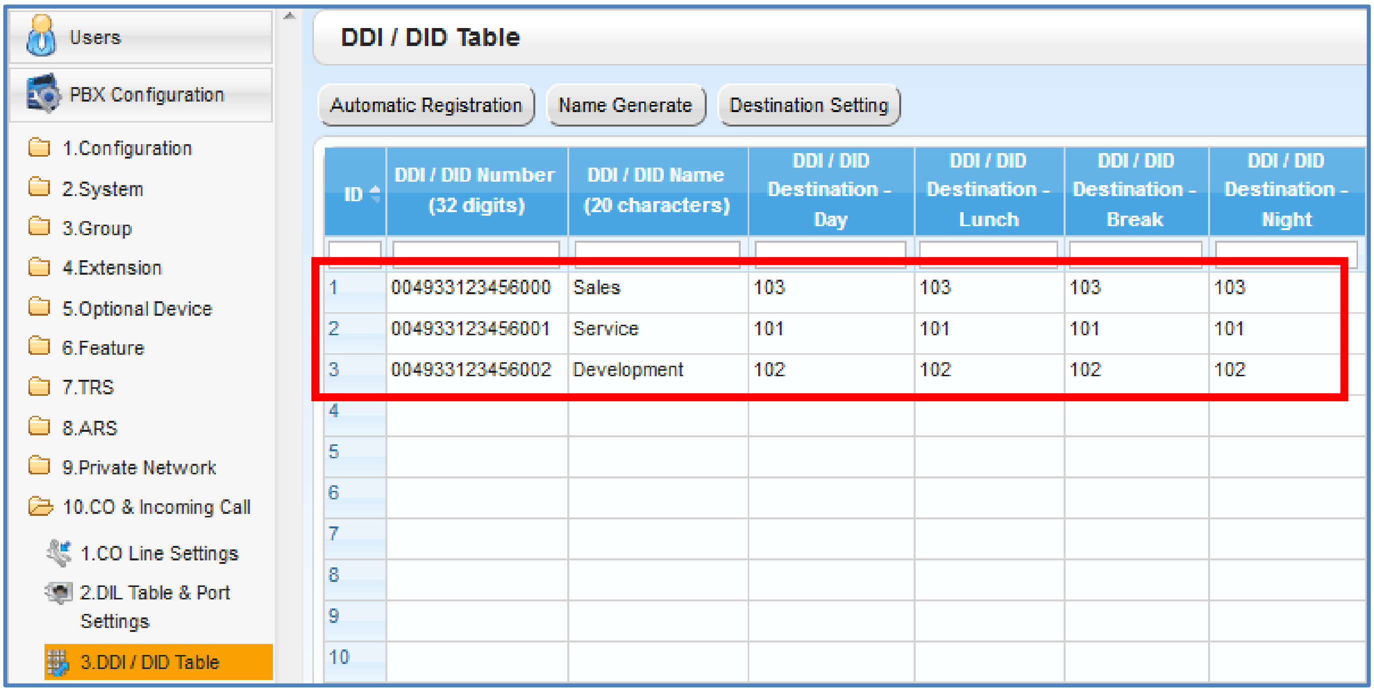
1. DDI/DID Number: *Enter the DDI number in the format (as below)*

Example: 033123 45600 0

Enter: ***004933123456000***

2. DDI/DID Name: *Determined by the installer (optional setting)*

3. DDI/DID Destination: *Determined by the installer (extension number, group etc)*

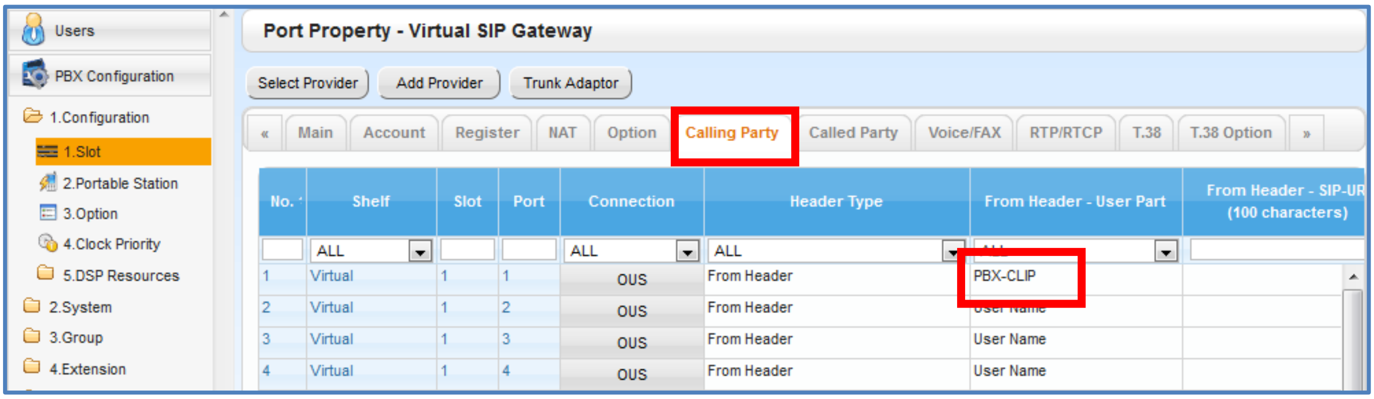


ID	DDI / DID Number (32 digits)	DDI / DID Name (20 characters)	DDI / DID Destination - Day	DDI / DID Destination - Lunch	DDI / DID Destination - Break	DDI / DID Destination - Night
1	004933123456000	Sales	103	103	103	103
2	004933123456001	Service	101	101	101	101
3	004933123456002	Development	102	102	102	102
4						
5						
6						
7						
8						
9						
10						

(3) Outgoing Call CLI

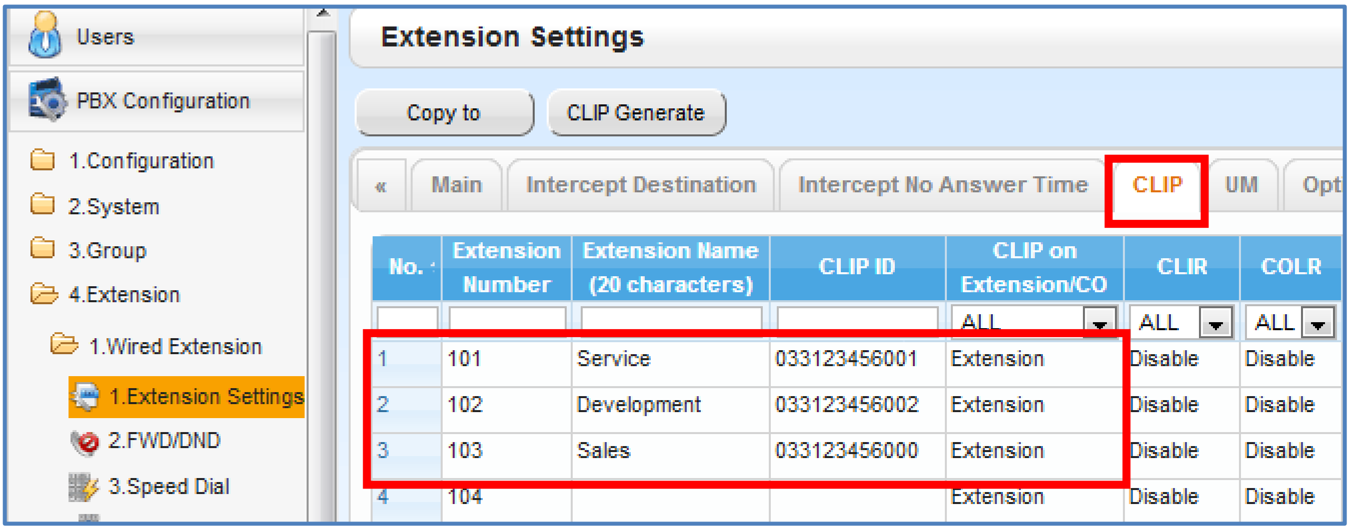
Set the **[V-SIPGW16]** card to **[OUS]** and then select **[Port Property]** and **[Calling Party] Tab**

From Header – User Part: ***PBX-CLIP***



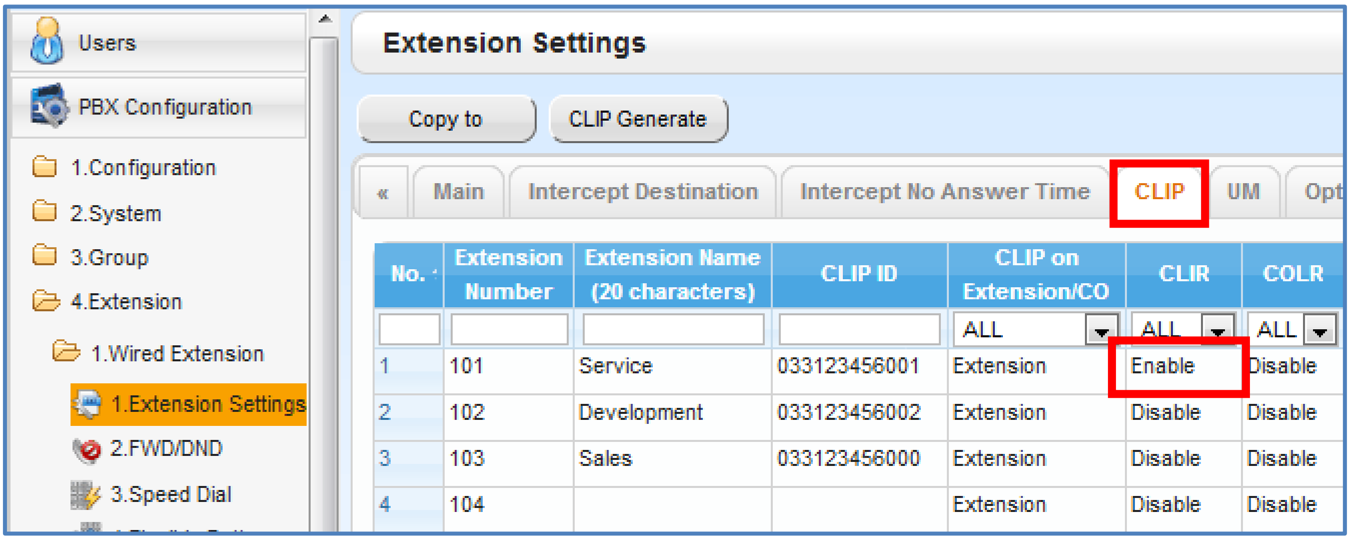
Click **[OK]** and then set the **[V-SIPGW16]** card back to **[INS]**.

Go to **[4.Extension] – [1.Wired Extension] – [1.Extension Settings]** and select **[CLIP] tab**
Enter a valid CLI number for each required extension in the ***CLIP ID*** field and then Click **[OK]**



(4) CLIR Outgoing Call (Withholding Number)

Go to **[4.Extension] - [1.Wired Extension] - [1.Extension Settings]** and select **[CLIP] tab**
Under **CLIR:** select ***Enable*** and Click **[OK]**.



(5) Appendix

UDP hole punching for keeping in Router/Firewall Port Forwarding

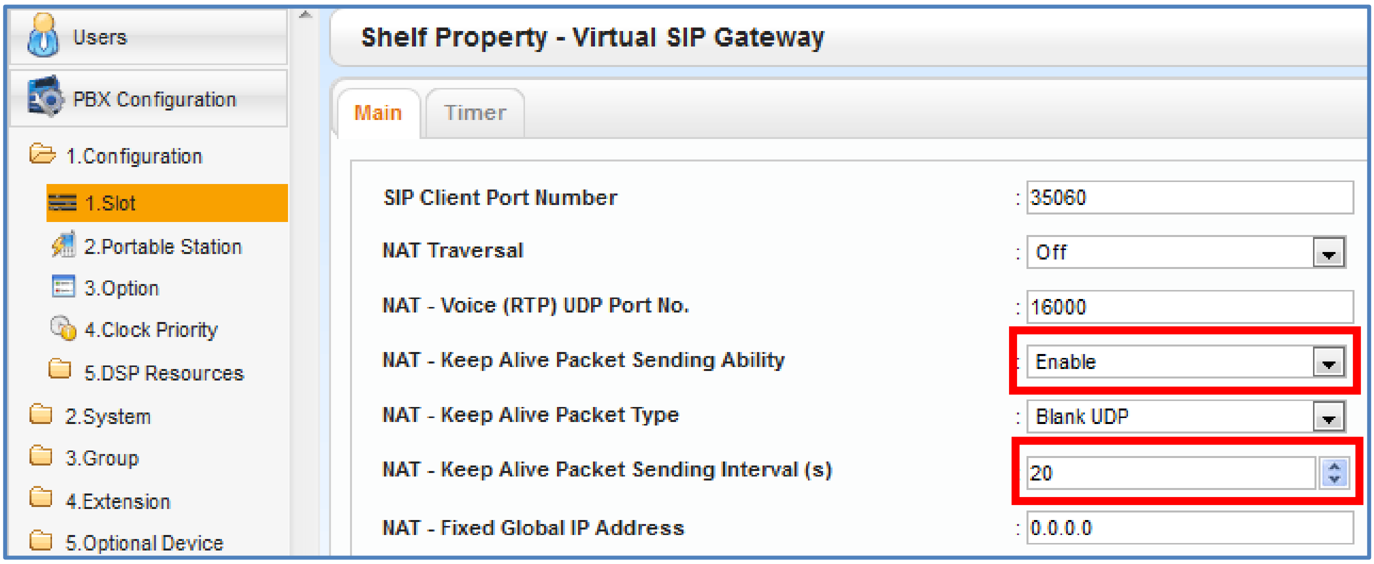
If required, for keeping port forwarding table in installed router, configure the BLANK UDP to enable as keep-alive with UDP hole punching on the PBX shelf property.

Set the **[V-SIPGW16]** card to **[OUS]** and then select **[Shelf Property]**

NAT - Keep Alive Packet Sending Ability: ***Enable***

NAT - Keep Alive Packet Sending Interval(s): *leave at 20*

Note: It is desirable shorter than expire time of router port forwarding.



Click **[OK]** and Select **[INS]** on the **[V-SIPGW16]** card to bring the SIP trunk ports into service.

IMPORTANT!

To secure the PBX from illegal attacks, please restrict the above port forwarding ports to *only* be accessible from the *ecotel* source IP addresses.

END OF DOCUMENT