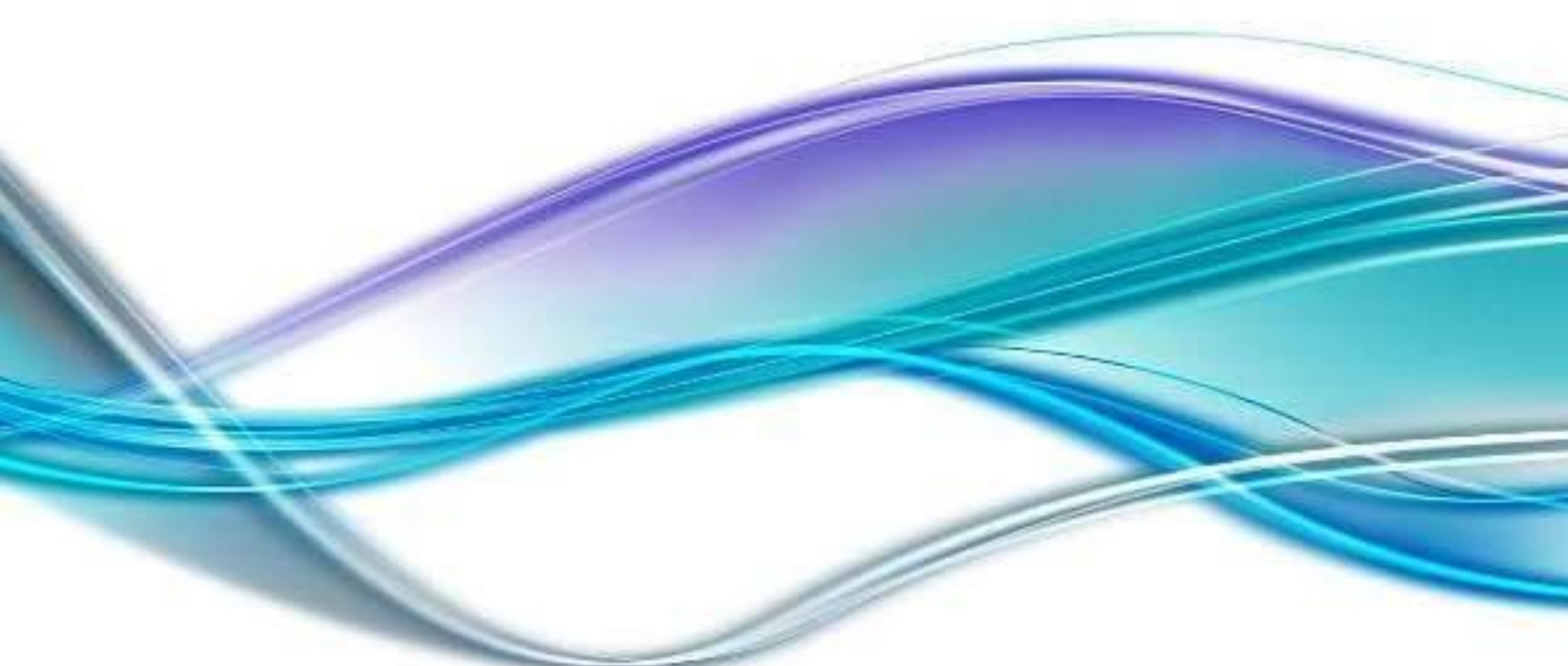


Setup Reference guide for KX-NSX Series
(Tested with NSX2000 Ver2.2)
“British Telecom H-SIPT” trunk service
with External Router



Panasonic

Version 1.2 (PSCEU) 25th May 2017

◆ SUMMARY

This document is a reference for configuring “**BT H-SIPT**” SIP trunks onto KX-NSX 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 **British Telecom**.

◆ 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 and 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

P-Asserted-Identity (PAI) Header is required

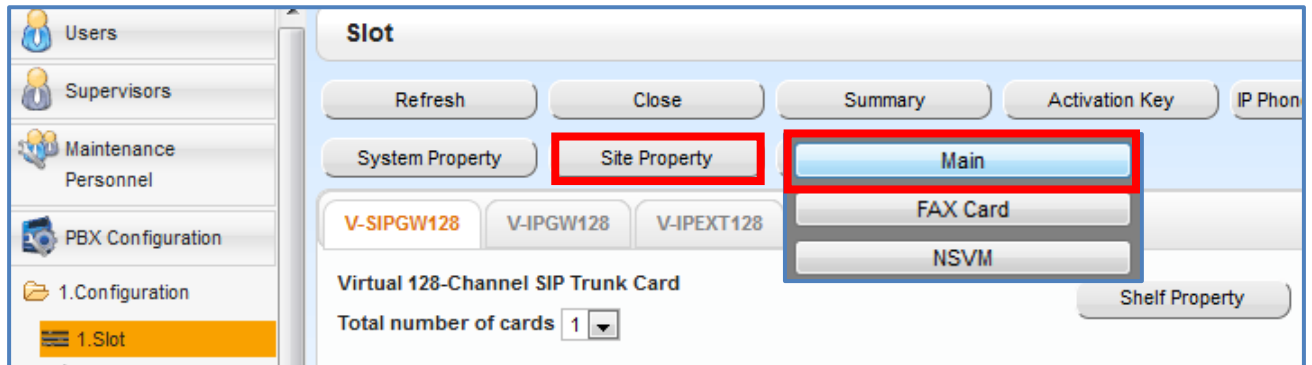
[Configure the PAI to enable – see section \(3\)](#)

◆ Table of Contents

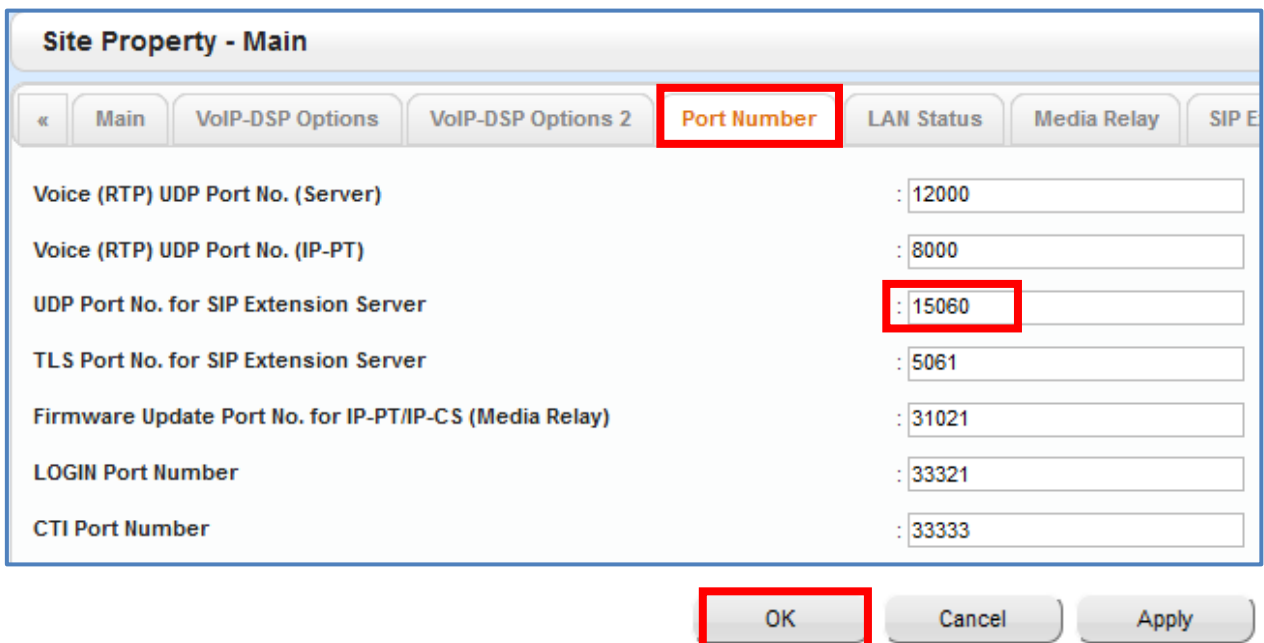
(1) SIP Trunk Port number configuration:	Page 3
(2) Provisioning a SIP trunk:	Page 5
(3) Outgoing Call CLI:	Page 7
(4) Incoming Call Routing:	Page 8
(5) CLIR Outgoing Call (Anonymous calls):	Page 9
(6) Router/Firewall Port Forwarding:	Page 10

(1) SIP Trunk and Extension Port Number Configuration

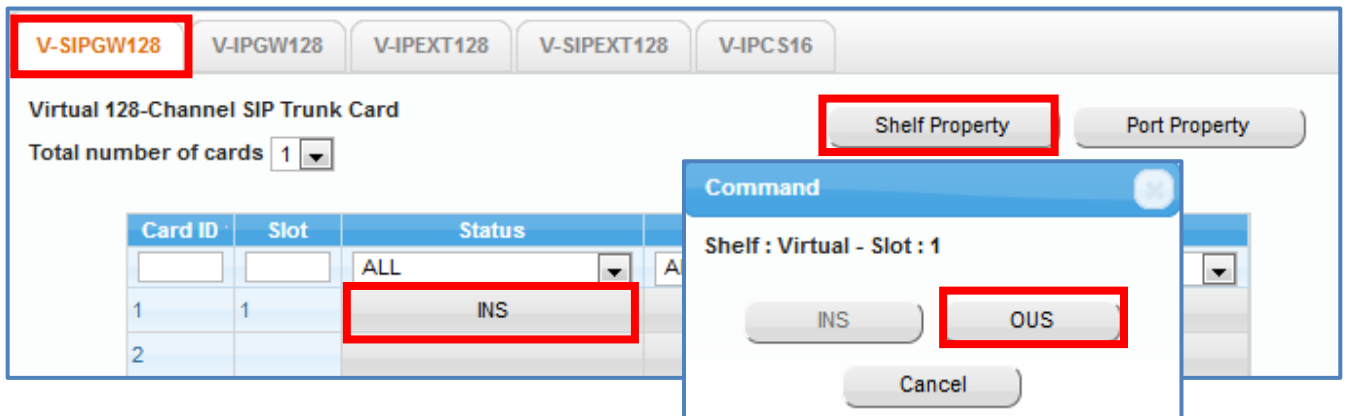
Go to **[1.Configuration - 1.Slot]** hover over **[Site Property]** and select **[Main]**.



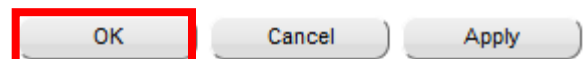
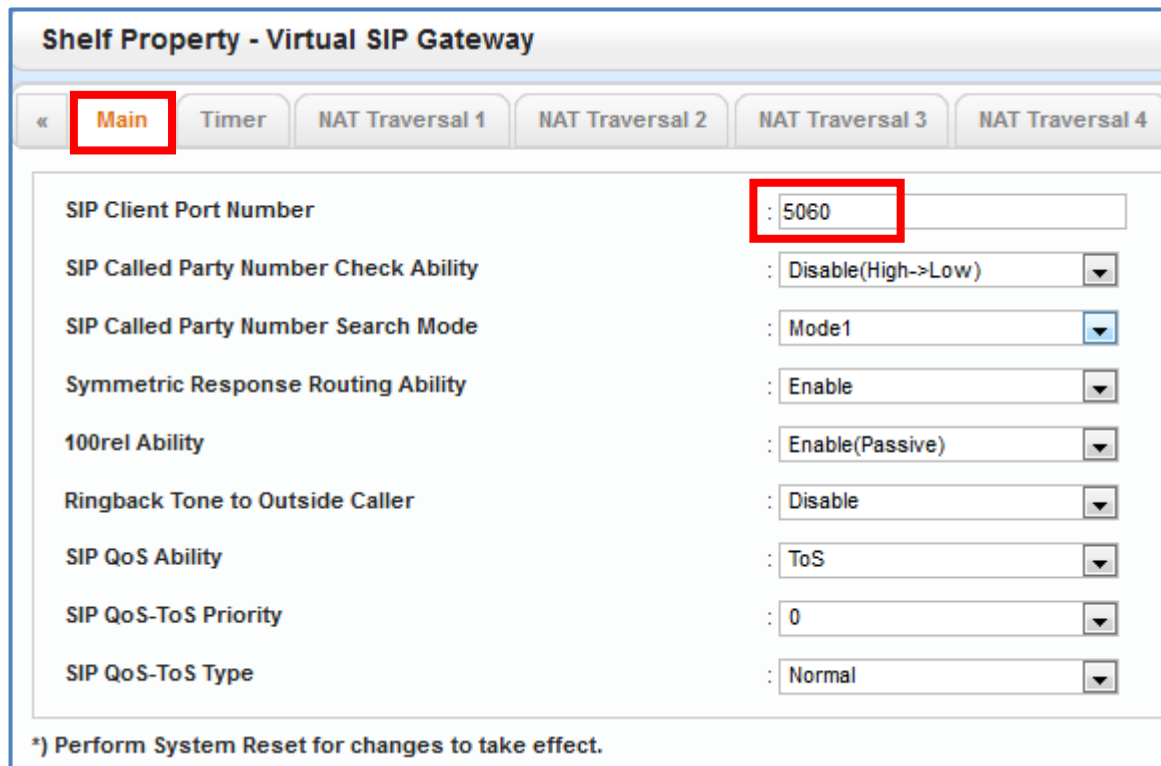
Click **[Port Number]** tab and change **[UDP Port No. for SIP Extension Server]** (Default: 5060) to a different value (e.g. 15060) and click **[OK]**.



Go to [1.Configuration - 1.Slot > V-SIPGW128] hover over [Status INS] and Select [OUS]
 First, place the V-SIPGW128 Card into [OUS] condition and click [Shelf Property].



Select [Main] tab and change the one item.
 [SIP Client Port Number] (Default: 35060) to 5060



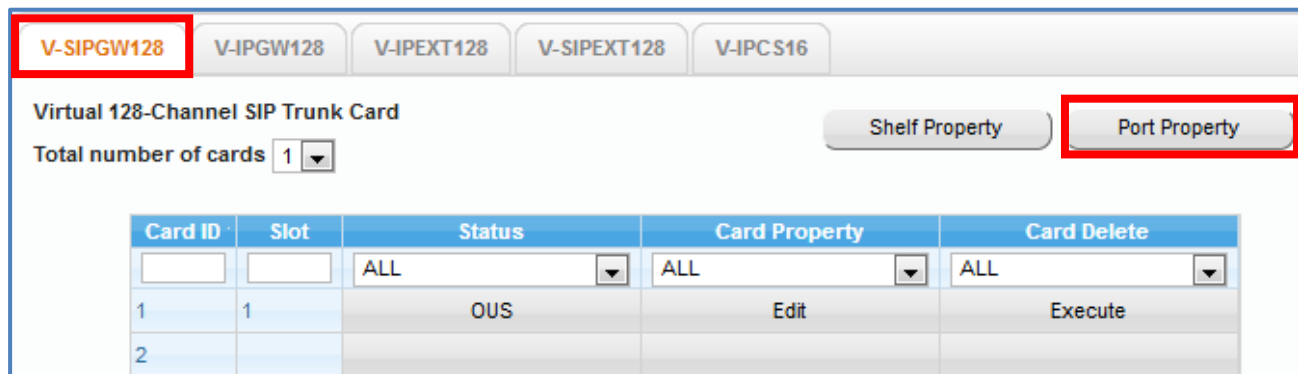
Click [OK] to apply the changes.

***Note: Need to Save the System data and Restart the PBX after making these port changes.**

(2) Provisioning the SIP Trunk

V-SIPGW – Port Property

Go to [1.Configuration - 1.Slot > V-SIPGW128] and select [Port Property]



Card ID	Slot	Status	Card Property	Card Delete
1	1	OUS	Edit	Execute
2	2			

[Main] Tab

- | | |
|--|---|
| 1. Channel Attribute: | <i>Basic Channel</i> |
| 2. Provider Name: | <i>Enter a name – reference only</i> |
| 3. SIP Server Location - Name: | <i>ipcomms-btb-sipt-dynamic-coremetro2.bt.com</i> |
| 4. SIP Server IP Address: | <i>Not required</i> |
| 5. SIP Server IP Address for Failover: | <i>Not required</i> |
| 6. SIP Server port Number: | <i>Leave at 5060</i> |
| 7. SIP Service Domain: | <i>siptpanasonic.com.</i> |
| 8. Subscriber Number: | <i>Not required</i> |

Main Account Register NAT Option Calling Party Called Party Voice/FAX RTP/RTCP T.38 T.38 Option DSP Supplementary Se												
No.	Shelf	Slot	Port	Channel Attribute	Provider Name (20 characters)	SIP Server Name (100 characters)	SIP Server IP Address	SIP Server IP Address for Failover	SIP Server Port Number	SIP Service Domain (100 characters)	Subscriber Number	
1	Virtual	1	1	Basic channel	BT	ipcomms-btb-sipt-dynamic-coremetro2.bt.com			5060	siptpanasonic.com		
2	Virtual	1	2	Not Used					5060			

SIP Trunk – Port Property continued

[Account] Tab

1. User name: Enter the *Pilot number as supplied by BT.*
(Note this is pilot number without @ siptppanasonic.com)
For example: Pilot number = 445612345000
Enter: 445612345000
2. Authentication ID: Enter the *Authentication username as supplied by BT.*
(Note this is username without @ siptppanasonic.com)
For example: Authentication username = panasonicns1000
Enter: panasonicns1000
3. Authentication Password: Enter the *password as supplied by BT.*
For example: password = passABCD
Click [Edit] and Enter: passABCD

«	Main	Account	Register	NAT	Option	Calling Party	Called Party	Voice/FAX
No.	Shelf	Slot	Port	Connection	User Name (64 characters)	Authentication ID (64 characters)	Authentication Password (32 characters)	
<input type="text"/>	AL <input type="text"/>	<input type="text"/>	<input type="text"/>	ALL <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
1	Virtual	1	1	OUS	445612345000	panasonicns1000	Edit	
2	Virtual	1	2	OUS			Edit	

[Register] Tab

1. Register Ability: Leave enabled
2. Register Interval: 180
3. Un-Register Ability: Leave enabled
4. Registrar Server - Name: Not required
5. Registrar Server - IP Address: Not required
6. Registrar Server - IP Address for Failover: Not required
7. Registrar Server port number: Leave at 5060
8. Registrar Resending Interval(s): 5

«	Main	Account	Register	NAT	Option	Calling Party	Called Party	Voice/FAX	RTP/RTCP	T.38	»
No.	Shelf	Slot	Port	Register Ability	Register Sending Interval (s)	Un-Register Ability when port INS	Registrar Server Name (100 characters)	Registrar Server IP Address	Registrar Server IP Address for Failover	Registrar Server Port Number	Register Resending Interval (s)
	AL			ALL		ALL					
1	Virtual	1	1	Enable	180	Enable				5060	5
2	Virtual	1	2	Enable	3600	Enable				5060	300

Click **[OK]** to apply the changes.

(3) Outgoing Call CLI

Go to **[V-SIPGW128] - [Port Property]** and select **[Calling Party] Tab**

From Header - User Part:

PBX-CLIP

P-Asserted-Identity header:

Enable

NAT	Option	Calling Party	Called Party	Voice/FAX	RTP/RTCP	T.38	T.38 O	T.38 Option	»
Header Type	From Header - User Part	From Header - SIP-URI (100 characters)	P-Preferred-Identity Header - User Part	P-Preferred-Identity Header - SIP-URI (100 characters)	Number Format	P-Asserted-Identity header			
ALL	ALL		ALL		ALL	ALL			
From Header	PBX-CLIP		User Name		National	Enable			

Click **[OK]**.

Select **[INS]** on the **[V-SIPGW128]** card to bring the SIP trunk ports into service.

Card ID	Slot	Status	Card Property	Card Delete
1	1	INS		

Command

Shelf : Virtual - Slot : 1

INS OUS

Cancel

Go to **[Users] - [1.User Container] - [5.CLIP ID Table]** and select **[CLIP1]**

Enter a valid CLI number for each required extension in the **CLIP ID** field.

1. CLIP 1:

Enter: **05612345001**

Users

- 1.User Container
- 2.Advanced Extension Settings
- 3.Flexible Button
- 4.Speed Dial
- 5.CLIP ID Table**
- Supervisors

CLIP ID Table

CLIP Generate

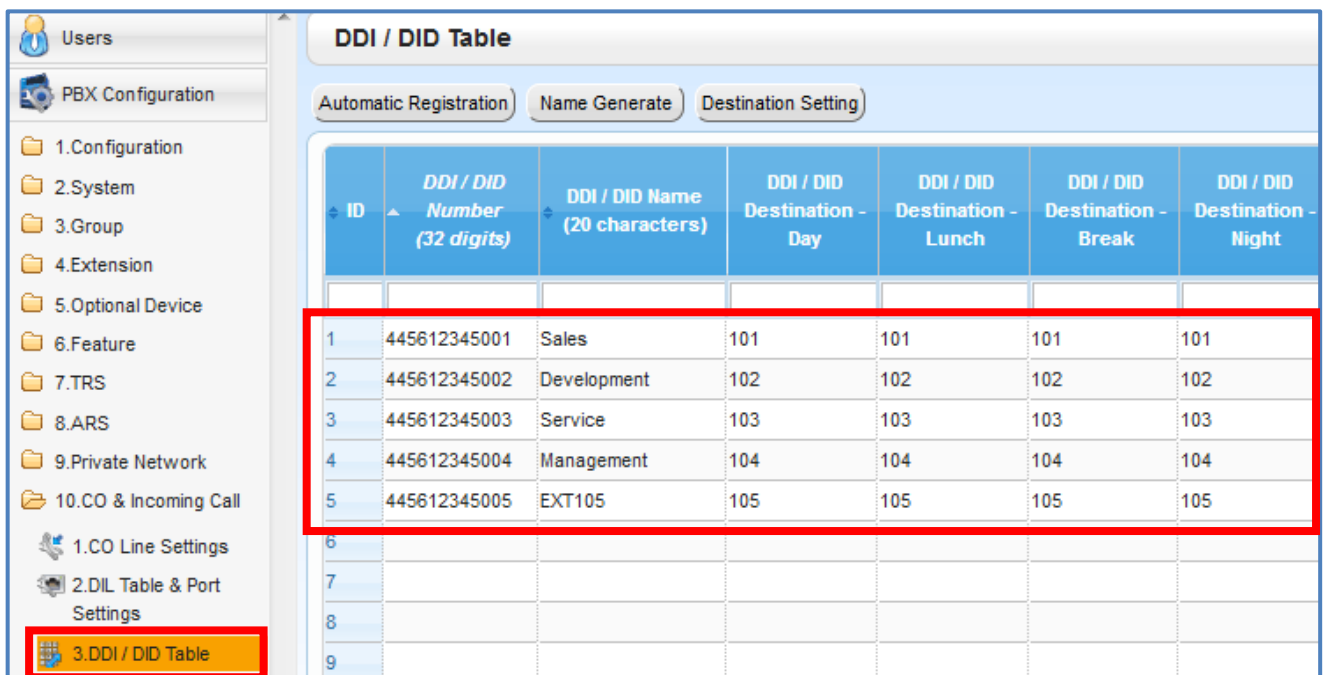
No.	First Name	Last Name	Extension Number	CLIP 1 (16 digits)	CLIP 2 (16 digits)
1	NSX_Ext_201		201	05612345001	
2	NSX_Ext_202		202	05612345002	
3	NSX_ATA_301		301	05612345003	

Click **[OK]**

(4) Incoming Call Routing

Go to **[10.CO & Incoming call]** and select **[3.DDI /DID Table]**

1. **DDI/DID Number:** Enter the DDI number in the format (as below)
Example: 05612345001
Enter: **445612345001**
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	445612345001	Sales	101	101	101	101
2	445612345002	Development	102	102	102	102
3	445612345003	Service	103	103	103	103
4	445612345004	Management	104	104	104	104
5	445612345005	EXT105	105	105	105	105
6						
7						
8						
9						

Click **[OK]**

(5) CLIR Outgoing Call (Withholding Number)

Go to **[Users] - [2.Advanced Extension Settings] - [Extension]** and click **[Edit]**

Under **CLIR**: select **Enable** and Click **[OK]**.

Advanced Extension Settings

Copy to CLIP Generate

No.	First Name	Last Name	Extension Number	User Group	COS
				ALL	ALL
1	NSX_Ext_201		201	1	1
2	NSX_Ext_202		202	1	1
3	NSX_ATA_301		301	1	1

Page 1 of 1 100

Advanced Extension Settings

CLIP

CLIP ID : 05612345001

CLIP on Extension / CO : Extension

CLIR : **Enable**

COLR : Disable

Apply Cancel

(6) Router/Firewall Port Forwarding

For External router setup, configure Port Forwarding on the router as follows:

udp port 5060 (SIP) – to NSX LAN IP address (e.g. 192.168.0.101)

IMPORTANT!

To secure the PBX from illegal attacks, please restrict the above port forwarding ports to only be accessible from the [British Telecom](#) source IP addresses.

END OF DOCUMENT