

Setup Reference guide for Panasonic NS1000 ver2.1 “*Voicehost*” SIP Trunks

This document is a reference for configuring “*Voicehost*” SIP trunks onto Panasonic NS1000 and includes the settings required for Incoming Call DDI routing and Outgoing Call CLI presentation.

SIP trunk details such as account ID, authentication ID, password and DDI number will be provided separately.

Attention:

This document was created based on the results of test environment, accounts. Information of used in this document is for interoperability testing. Information and Specifications in this document are subject to change without notice. Also, we can not guarantee the SIP Trunking operations. Please obtain the information from Service provider before setting of SIP trunk. We are not responsible for any information in this document.

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(1) Provisioning a SIP Trunk

SIP Trunk – Port Property

Important Note: Programming the details of the SIP trunk is done in this field.

In this example the system has been programmed to use the changed FAX setting and NAT Keep Alive ability.

- Reject T.38 Request change to “Enable”. (Default: Disable)
- *Note SIP server does not support T.38.(Need to set reject T.38 request by PBX.)

Recommended setting

- NAT - Keep Alive Packet Sending Ability change to “Enable”. (Default: Disable)
- NAT - Keep Alive Packet Type change to “Blank UDP”. (Default: None)

Move mouse over “V-SIPGW16” and click “Port Property”.

The screenshot displays the NS1000 Web Maintenance Console interface. The top navigation bar includes the NS1000 logo, the title 'Web Maintenance Console', and several utility icons. Below the navigation bar, there is a 'Login as INSTALLER' prompt and a 'Site 1 : NS1000' dropdown menu. The left sidebar contains a tree view of configuration categories, with '1. Slot' selected. The main content area is titled 'Slot' and features a 'Select Shelf' section with buttons for 'Physical', 'Virtual', 'Legacy-GW1', and 'Legacy-GW2'. Below this are several action buttons: 'Refresh', 'Close', 'Summary', 'Activation Key', 'IP Phone Registration', 'System Property', 'Site Property', 'UM Card Property', and 'UM Port Property'. A tabbed interface shows 'V-SIPGW16' as the active tab. Underneath, the 'Virtual 16-Channel SIP Trunk Card' section is visible, with a 'Total number of cards' dropdown set to '1'. A grid of 16 slots is shown, with the first slot (slot 1) containing a card labeled 'V-SIPGW16'. A context menu is open over this card, listing options: 'Shelf Property', 'Card Property', 'Port Property', and 'Ous'. The 'Port Property' option is circled in red.

SIP Trunk – Port Property continued

Main Tab

- | | |
|--------------------------------------|---|
| 1. Channel Attribute: | Basic Channel |
| 2. Provider Name: | Enter the trunk a logical name |
| 3. SIP Server Location – Name: | st.voicehost.co.uk – Enter your assigned server. |
| 4. SIP Server Location – IP Address: | Not required |
| 5. SIP Server port Number: | Leave at 5060 |
| 6. SIP Service Domain: | Not required |
| 7. Subscriber Number: | Not required |

The screenshot shows the 'Port Property - Virtual SIP Gateway' configuration page. The 'Main' tab is selected, and a table displays the configuration for 12 ports. The first row is highlighted with a red border, indicating the configuration for the selected port.

No.	Shelf	Slot	Port	Conne	Connection Attribute	Trunk Prope	Channel Attribute	Provider Name (20 characters)	SIP Server Name (100 characters)	SIP Server IP Address	SIP Server Port Number	SIP Service Domain (100 characters)	Subsc Numb	Backu
1	Virtual	31	1	OUS	SIP Provider	Public	Basic channel	Voicehost	st.voicehost.co.uk		5060			Normal
2	Virtual	31	2	Fault	SIP Provider	Public	Not Used				5060			Normal
3	Virtual	31	3	Fault	SIP Provider	Public	Not Used				5060			Normal
4	Virtual	31	4	Fault	SIP Provider	Public	Not Used				5060			Normal
5	Virtual	31	5	Fault	SIP Provider	Public	Not Used				5060			Normal
6	Virtual	31	6	Fault	SIP Provider	Public	Not Used				5060			Normal
7	Virtual	31	7	Fault	SIP Provider	Public	Not Used				5060			Normal
8	Virtual	31	8	Fault	SIP Provider	Public	Not Used				5060			Normal
9	Virtual	31	9	Fault	SIP Provider	Public	Not Used				5060			Normal
10	Virtual	31	10	Fault	SIP Provider	Public	Not Used				5060			Normal
11	Virtual	31	11	Fault	SIP Provider	Public	Not Used				5060			Normal
12	Virtual	31	12	Fault	SIP Provider	Public	Not Used				5060			Normal

SIP Trunk – Port Property continued

Account Tab

- 1. User name:** Enter the **SIP Account (User name) as supplied by Voicehost**. Please note that this is just the SIP Account (user name) and **DOES NOT include @st.voicehost.co.uk**
For example: SIP Account (User name) = **ST00000T000**
Enter: **ST00000T000**
- 2. Authentication ID:** Enter the **Authentication ID as supplied by Voicehost**. Please note that this is just the Authentication ID and **DOES NOT include @st.voicehost.co.uk**
For example: Authentication ID = **ST00000T000**
Enter: **ST00000T000**
- 3. Authentication Password:** Enter the **Password as supplied by Voicehost**.

The screenshot shows the NS1000 Web Maintenance Console interface. The left sidebar contains a navigation tree with categories like Users, PBX Configuration, and UM Configuration. The main area displays the 'Port Property - Virtual SIP Gateway' configuration. The 'Account' tab is selected, showing a table of ports. The first row is highlighted with a red box, indicating the configuration for the first port.

No.	Shelf	Slot	Port	Connection	User Name (64 characters)	Authentication ID (64 characters)	Authentication Password (32 characters)
1	Virtual	31	1	OUS	ST00000T000	ST00000T000	abcdefghijklm!
2	Virtual	31	2	Fault			
3	Virtual	31	3	Fault			
4	Virtual	31	4	Fault			
5	Virtual	31	5	Fault			
6	Virtual	31	6	Fault			
7	Virtual	31	7	Fault			
8	Virtual	31	8	Fault			
9	Virtual	31	9	Fault			
10	Virtual	31	10	Fault			
11	Virtual	31	11	Fault			
12	Virtual	31	12	Fault			
13	Virtual	31	13	Fault			

SIP Trunk – Port Property continued

Register Tab

1. Register Ability: Leave at Enable
2. Register Interval: Leave at 3600
3. Un-Register Ability: Leave enabled
4. Registrar Server – Name: **Not required**
 * If SIP Server and Registrar Server are different, enter the Registrar Server.
5. Registrar Server – IP Address: **Not required**
6. Registrar Server port number: Leave at 5060

Port Property - Virtual SIP Gateway

Select Provider Add Provider Trunk Adaptor

« Main Account **Register** NAT Option Calling Party Called Party Voice/FAX RTP/RTCP T.38 T.38 Option »

No.	Shelf	Slot	Port	Conne	Register Ability	Register Sending Interval (s)	Un-Register Ability when port INS	Register Server Name (100 characters)	Register Server IP Address	Register Server Port Number	Register Resend Interval (s)
	Al			Al	ALL		ALL				
1	Virtual	31	1	OUS	Enable	3600	Enable			5060	300
2	Virtual	31	2	Fault	Enable	3600	Enable			5060	300
3	Virtual	31	3	Fault	Enable	3600	Enable			5060	300
4	Virtual	31	4	Fault	Enable	3600	Enable			5060	300
5	Virtual	31	5	Fault	Enable	3600	Enable			5060	300
6	Virtual	31	6	Fault	Enable	3600	Enable			5060	300
7	Virtual	31	7	Fault	Enable	3600	Enable			5060	300
8	Virtual	31	8	Fault	Enable	3600	Enable			5060	300
9	Virtual	31	9	Fault	Enable	3600	Enable			5060	300
10	Virtual	31	10	Fault	Enable	3600	Enable			5060	300
11	Virtual	31	11	Fault	Enable	3600	Enable			5060	300
12	Virtual	31	12	Fault	Enable	3600	Enable			5060	300

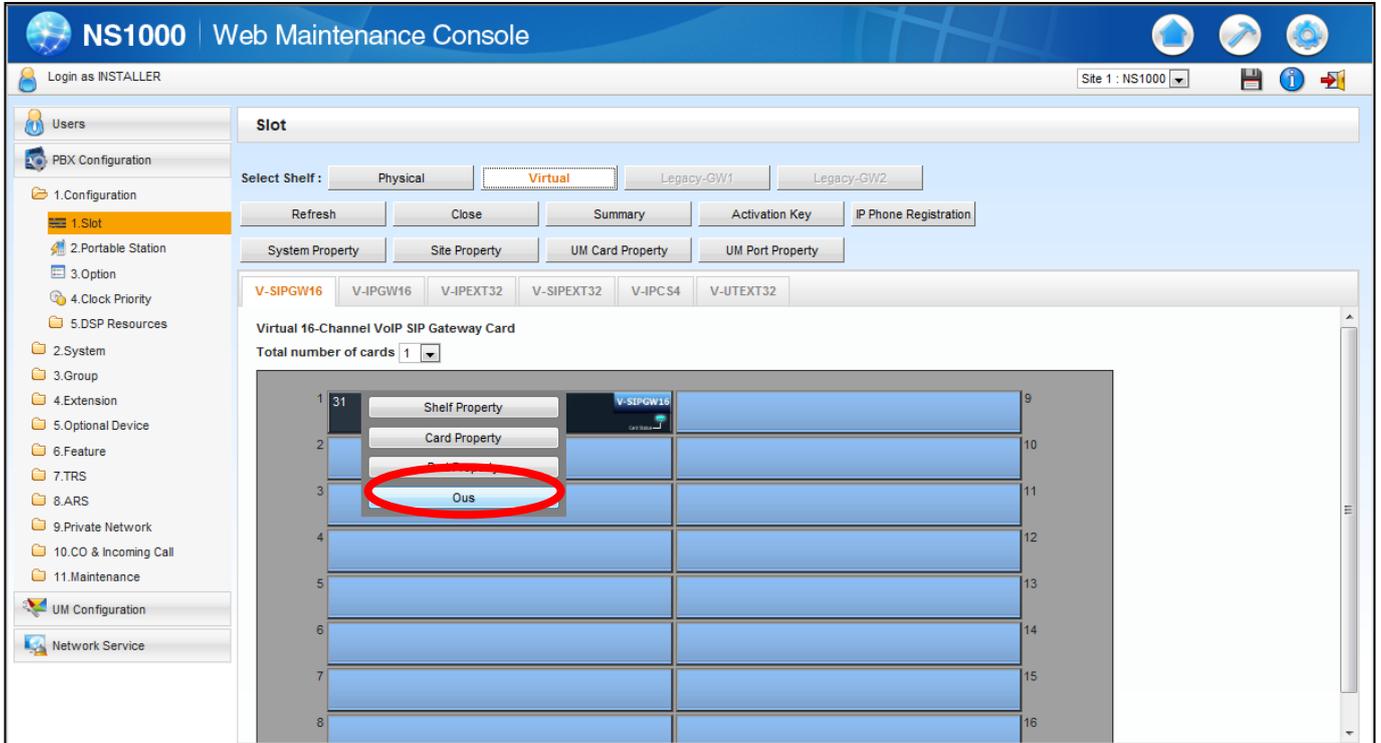
Page 1 of 1 20 View 1 - 16 of 16

OK Cancel Apply

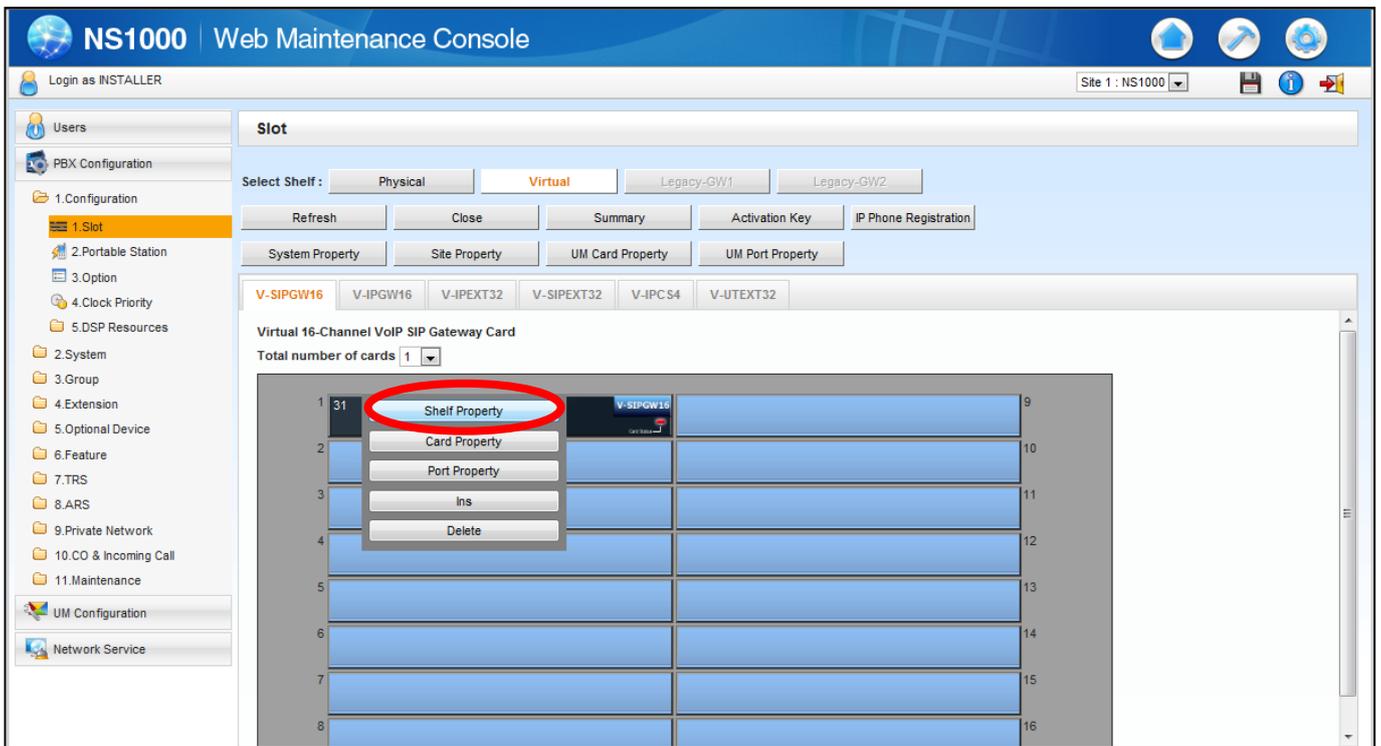
Last, don't forget "Apply" to save changed parameters and change "OUS" to "INS".

Go Back to “Slot”.

Click [1. Slot], click “Virtual” and move mouse over “V-SIPGW16” , and click “Ous”. Click “OK” pop-up window.

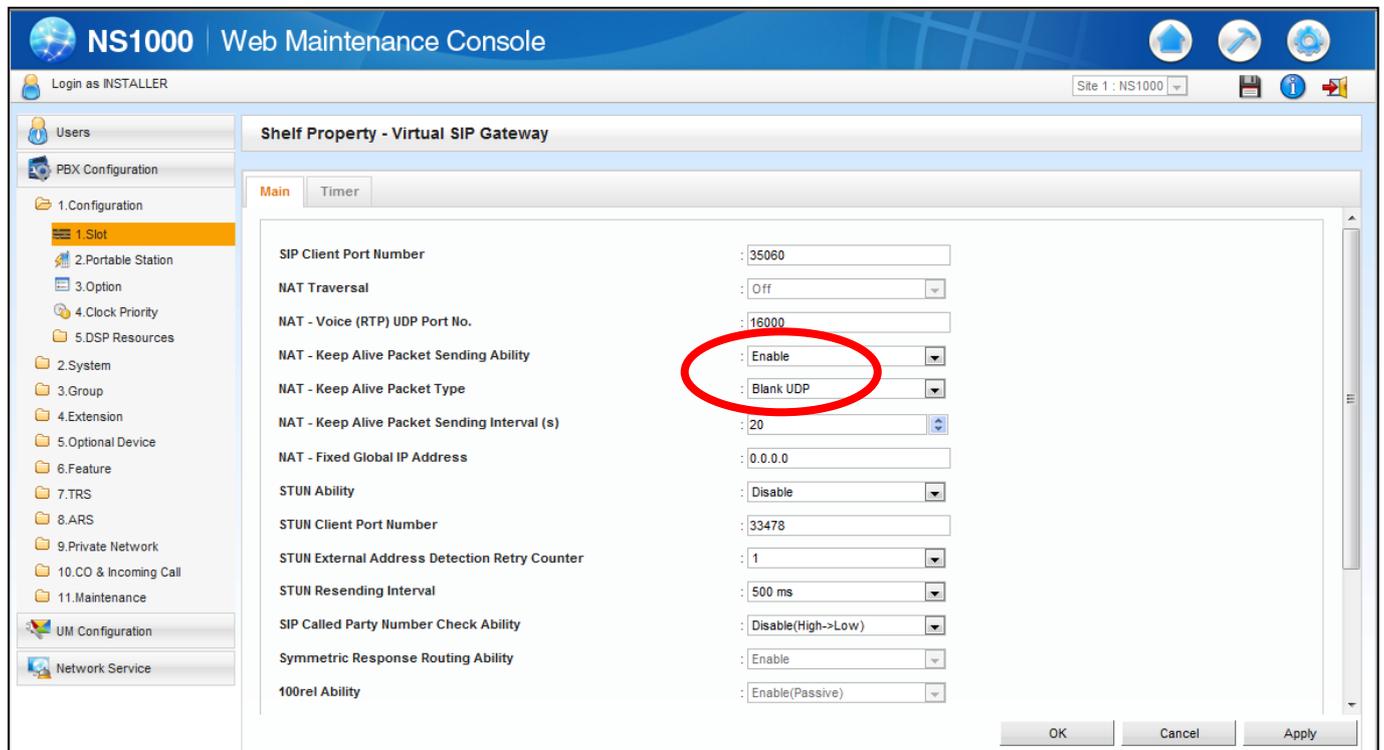


Move mouse over “V-SIPGW16” again, and click “Shelf Property”.



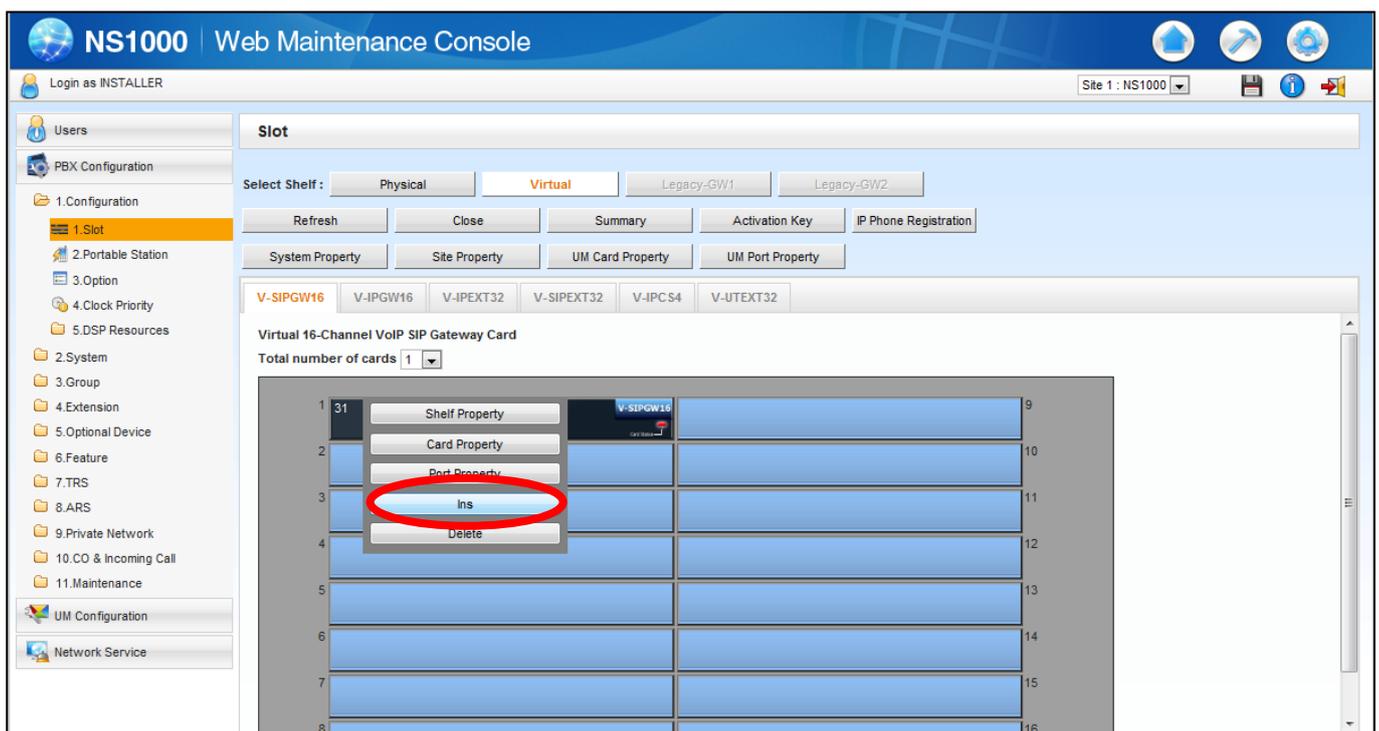
NAT - Keep Alive Packet Sending Ability:
NAT - Keep Alive Packet Type:

Change to **Enable**
Confirm **Blank UDP**



Then, click "OK".

Move mouse over "V-SIPGW16" again, and click "Ins".



(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 **44+PSTN Number** (as below)
Example: PSTN number=0843-9999999
Enter: 448439999999 (Remove “0” of 0843-)
- 2. DDI/DID Name:** Determined by the installer (optional setting)
- 3. DDI/DID Destination:** Determined by the installer (extension number, group etc)

All other settings can be left at default

The screenshot shows the NS1000 Web Maintenance Console interface. The left sidebar contains a navigation menu with categories like Users, PBX Configuration, UM Configuration, and Network Service. The main area is titled "DDI / DID Table" and includes tabs for "Automatic Registration", "Name Generate", and "Destination Setting". A table with 7 columns is displayed, with the first row highlighted in red. The table data is as follows:

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
1	448439999999	Service	201			
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

At the bottom of the console, there are navigation controls including "Page 1 of 50" and "View 1 - 20 of 1 000". Buttons for "OK", "Cancel", and "Apply" are located at the bottom right.

Need to Confirm

(3) Outgoing Call CLI

Each extension that wishes to present individual CLI needs to be programmed with a valid CLI. A valid CLI is normally a PSTN number associated with the SIP trunk.

i.e. if the PSTN number is 0843-9999999, the CLI to be programmed is 08439999999

Go to **“Calling Party”** tab.

1. From Header – User Part: Change to **PBX-CLIP**

The screenshot shows the NS1000 Web Maintenance Console interface. The main window is titled "Port Property - Virtual SIP Gateway". The "Calling Party" tab is selected, and the "From Header - User Part" dropdown menu is set to "PBX-CLIP". The table below shows the configuration for 13 ports.

No.	Shelf	Slot	Port	Connection	Header Type	From Header - User Part	From Header - SIP-URI (100 characters)
1	Virtual	31	1	INS	From Header	PBX-CLIP	
2	Virtual	31	2	Fault	From Header	User Name	
3	Virtual	31	3	Fault	From Header	User Name	
4	Virtual	31	4	Fault	From Header	User Name	
5	Virtual	31	5	Fault	From Header	User Name	
6	Virtual	31	6	Fault	From Header	User Name	
7	Virtual	31	7	Fault	From Header	User Name	
8	Virtual	31	8	Fault	From Header	User Name	
9	Virtual	31	9	Fault	From Header	User Name	
10	Virtual	31	10	Fault	From Header	User Name	
11	Virtual	31	11	Fault	From Header	User Name	
12	Virtual	31	12	Fault	From Header	User Name	
13	Virtual	31	13	Fault	From Header	User Name	

All other tabs may be left at default

- Header Type
- From Header – SIP-URI (100 characters)
- P-Preferred-Identity Header – User Part
- P-Preferred-Identity Header – SIP-URI (100 characters)
- Number Format
- Remove Digit
- Additional Dial
- Anonymous format in “From” header
- P-Asserted-Identity header

Go to “4.Extension, 1.Wired Extension, 1.Extension Settings” & select “ISDN CLIP”

1. Enter a valid CLI for each extension that requires it in the **CLIP ID** field

The screenshot displays the NS1000 Web Maintenance Console interface. The left sidebar shows a navigation tree with '4.Extension' > '1.Wired Extension' > '1.Extension Settings' selected. The main content area is titled 'Extension Settings' and features a table with columns: No., Extension Number, Extension Name (20 characters), CLIP ID, CLIP on Extension/CO, CLIR, and COLR. The table lists 13 extensions. The 'CLIP ID' field for extension 201 is highlighted with a red box and contains the value '0843999999'. The 'CLIP on Extension/CO' column has a dropdown menu set to 'ALL'. The 'CLIR' and 'COLR' columns are set to 'Disable'. The bottom of the interface shows a status bar with 'Page 1 of 3' and 'View 1 - 20 of 59'. Buttons for 'OK', 'Cancel', and 'Apply' are visible at the bottom right.

No.:	Extension Number	Extension Name (20 characters)	CLIP ID	CLIP on Extension/CO	CLIR	COLR
1	101			ALL	Disable	Disable
2	102			Extension	Disable	Disable
3	201		0843999999	Extension	Disable	Disable
4	202			Extension	Disable	Disable
5	105			Extension	Disable	Disable
6	106			Extension	Disable	Disable
7	107			Extension	Disable	Disable
8	108			Extension	Disable	Disable
9	109			Extension	Disable	Disable
10	110			Extension	Disable	Disable
11	111			Extension	Disable	Disable
12	112			Extension	Disable	Disable
13	113			Extension	Disable	Disable

This setting, callee side shown '0843999999'.

2. Enter the name for each extension that requires it in the **Extension Name** field

<<UNDER A CHECK>>

The screenshot shows the NS1000 Web Maintenance Console interface. The main window is titled "Extension Settings" and contains a table with the following columns: No., Extension Number, Extension Name (20 characters), CLIP ID, CLIP on Extension/CO, CLIR, and COLR. The table lists 13 extensions. The extension with number 201 has the name "Thomas" entered in the "Extension Name" field, which is highlighted with a red box. The "CLIP ID" for this extension is 08439999999. The "CLIP on Extension/CO" is set to "Extension", and "CLIR" and "COLR" are both set to "Disable".

No.	Extension Number	Extension Name (20 characters)	CLIP ID	CLIP on Extension/CO	CLIR	COLR
1	101			ALL	ALL	ALL
2	102			Extension	Disable	Disable
3	201	Thomas	08439999999	Extension	Disable	Disable
4	202			Extension	Disable	Disable
5	105			Extension	Disable	Disable
6	106			Extension	Disable	Disable
7	107			Extension	Disable	Disable
8	108			Extension	Disable	Disable
9	109			Extension	Disable	Disable
10	110			Extension	Disable	Disable
11	111			Extension	Disable	Disable
12	112			Extension	Disable	Disable
13	113			Extension	Disable	Disable

This setting, what characters shown callee side is now testing.

(4) FAX Setting

SIP Trunk – Port Property continued:

T.38 Tab

1. Reject T.38 Request from Network: Change to **Enable**

The screenshot shows the NS1000 Web Maintenance Console interface. The main window is titled "Port Property - Virtual SIP Gateway". The "T.38" tab is selected, showing a table of configuration parameters for 13 ports. The "Reject T.38 Request from Network" column is highlighted in red for the first row (No. 1).

No.	Shelf	Slot	Port	Conn:	T38 FAX Max Datagram	T38 FAX UDPTL Error Correction - Redundancy	T38 FAX UDPTL Redundancy count for T.30 messages	T38 FAX UDPTL Redundancy count for data	T38 FAX Rate Management Method	Reject T.38 Request from Network
1	Virtual	31	1	OUS	512	Enable	3	0	Transferred TCF	Enable
2	Virtual	31	2	Fault	512	Enable	3	0	Transferred TCF	Disable
3	Virtual	31	3	Fault	512	Enable	3	0	Transferred TCF	Disable
4	Virtual	31	4	Fault	512	Enable	3	0	Transferred TCF	Disable
5	Virtual	31	5	Fault	512	Enable	3	0	Transferred TCF	Disable
6	Virtual	31	6	Fault	512	Enable	3	0	Transferred TCF	Disable
7	Virtual	31	7	Fault	512	Enable	3	0	Transferred TCF	Disable
8	Virtual	31	8	Fault	512	Enable	3	0	Transferred TCF	Disable
9	Virtual	31	9	Fault	512	Enable	3	0	Transferred TCF	Disable
10	Virtual	31	10	Fault	512	Enable	3	0	Transferred TCF	Disable
11	Virtual	31	11	Fault	512	Enable	3	0	Transferred TCF	Disable
12	Virtual	31	12	Fault	512	Enable	3	0	Transferred TCF	Disable
13	Virtual	31	13	Fault	512	Enable	3	0	Transferred TCF	Disable

All other tabs may be left at default

- T38 FAX Max Datagram
- T38 FAX UDPTL Error Correction - Redundancy
- T38 FAX UDPTL Redundancy count for T.30 messages
- T38 FAX UDPTL Redundancy count for data
- T38 FAX Rate Management Method