

# KX-NS1000BX /KX-NS300BX

## การติดตั้ง SIP Trunk กับ Catnextgen.com

### Software NS300 PFMPR\_004\_100\_770

NS300 Web Maintenance Console  
004.10077

Login as INSTALLER

Users  
PBX Configuration  
UM Configuration  
Network Service  
**1. IP Address/Ports**  
2. Server Feature  
3. Client Feature  
4. Other

### IP Address/Ports

Basic Settings | Advanced Settings | Reference

Obtain IP address automatically  
 Use the following IP address

IP Address : 192.168.0.101  
MAC Address : 08:00:23:37:A5:F0  
Subnet Mask : 255.255.255.0  
Default Gateway : 192.168.0.1

### DNS Setting

Port Number : 53  
 Obtain DNS server address automatically  
 Use the following DNS server address

Preferred DNS IP Address :  
Alternative DNS IP Address :

### DSP IP Setting

Obtain DSP IP address automatically  
 Use the following DSP IP address

DSP Card - 1

IP Address : 192.168.0.102  
MAC Address : 08:00:23:37:A5:E4

OK Cancel Apply

กำหนด IP Address ให้ PBX /Gateway/DSP

## Activation Key

- 1.จะต้องติดตั้งการ์ด KX-NS5100X (DSP)
  - 2.จะต้องมี License VOIP/UM Feature (KX-NSF990)
  - 3.จะต้องมี License IP Trunk (KX-NSM1XX)
- Program -> 1.Configuration-> 1.Slot->Activation Key

**Activation Key Status**

[Activation Key Installation](#)

MPR-ID : F901-0900-2337-A5F0      Number of activated IP-GW : 0 / 4

Number of activated IP-Softphone : 0 / 0

Activated feature	Pre-installed	Activation key	Features in total
IP Trunk (ch)	0	4	4
IP Proprietary Telephone/IP Softphone (ch)	0	0	0
IP Proprietary Telephone (ch)	4	0	4
SIP Extension (ch)	0	10	10
IP-CS channel expansion (CS unit)	0	0	0
One-look Network	0	0	0
QSIG Network	0	0	0
Two-way Recording Control	0	0	0
Message Backup	0	0	0
UM Port (ch)	2	0	2
UM/E-mail (user)	0	0	0

**To activate virtual IP trunk activation keys**

Restart all virtual IP Trunk cards.

# เปลี่ยน Port SIP Extension 5060->15060

## 1.Configuration -> 1.Slot -> System Property -> Site -> Port

The screenshot shows the 'System Property - Site' configuration page. The left sidebar contains a navigation tree with '1.Slot' selected. The main content area has several tabs, with 'Port Number' being the active one. Below the tabs, there is a list of configuration items, each with a label and a corresponding input field. The 'UDP Port No. for SIP Extension Server' field is highlighted with a red box and contains the value '15060'. Other fields include 'Voice (RTP) UDP Port No. (Server)' (12000), 'Voice (RTP) UDP Port No. (IP-PT / SIP-MLT)' (8000), 'CWMP (HTTP) Port No. for SIP-MLT' (7547), 'CWMP (HTTPS) Port No. for SIP-MLT' (37547), 'Data Transmission Protocol (HTTP) Port No. for SIP-MLT' (7580), 'Data Transmission Protocol (HTTPS) Port No. for SIP-MLT' (37580), 'Firmware Update Port No. for IP-PT/IP-CS (Media Relay)' (31021), 'LOGIN Port Number' (33321), 'CTI Port Number' (33333), and 'Built-in Communication Assistant Server' (33334).

Property	Value
Voice (RTP) UDP Port No. (Server)	12000
Voice (RTP) UDP Port No. (IP-PT / SIP-MLT)	8000
UDP Port No. for SIP Extension Server	15060
CWMP (HTTP) Port No. for SIP-MLT	7547
CWMP (HTTPS) Port No. for SIP-MLT	37547
Data Transmission Protocol (HTTP) Port No. for SIP-MLT	7580
Data Transmission Protocol (HTTPS) Port No. for SIP-MLT	37580
Firmware Update Port No. for IP-PT/IP-CS (Media Relay)	31021
LOGIN Port Number	33321
CTI Port Number	33333
Built-in Communication Assistant Server	33334

# เปลี่ยน Port SIP Trunk 35060->5060

1.Configuration -> 1.Slot ->Virtual Slot->V-SIPGW4 ->Shelf Property

The screenshot shows the configuration interface for a Virtual SIP Gateway. The left sidebar contains a navigation tree with categories like 'Users', 'PBX Configuration', '1. Configuration', '2. System', '3. Group', '4. Extension', '5. Optional Device', '6. Feature', '7. TRS', '8. ARS', '9. Private Network', '10. CO & Incoming Call', '11. Maintenance', 'UM Configuration', and 'Network Service'. The '1. Slot' item is selected. The main area is titled 'Shelf Property - Virtual SIP Gateway' and has two tabs: 'Main' and 'Timer'. The 'Main' tab is active, displaying a list of configuration parameters. The 'SIP Client Port Number' field is highlighted with a red box and contains the value '5060'. Other parameters include NAT Traversal (Off), NAT - Voice (RTP) UDP Port No. (16000), NAT - Keep Alive Packet Sending Ability (Disable), NAT - Keep Alive Packet Type (Blank UDP), NAT - Keep Alive Packet Sending Interval (s) (20), NAT - Fixed Global IP Address (0.0.0.0), STUN Ability (Disable), STUN Client Port Number (33478), STUN External Address Detection Retry Counter (1), STUN Resending Interval (500 ms), SIP Called Party Number Check Ability (Disable(High->Low)), SIP Called Party Number Search Mode (Mode1), Symmetric Response Routing Ability (Enable), 100rel Ability (Enable(Passive)), and Ringback Tone to Outside Caller (Disable).

Parameter	Value
SIP Client Port Number	5060
NAT Traversal	Off
NAT - Voice (RTP) UDP Port No.	16000
NAT - Keep Alive Packet Sending Ability	Disable
NAT - Keep Alive Packet Type	Blank UDP
NAT - Keep Alive Packet Sending Interval (s)	20
NAT - Fixed Global IP Address	0.0.0.0
STUN Ability	Disable
STUN Client Port Number	33478
STUN External Address Detection Retry Counter	1
STUN Resending Interval	500 ms
SIP Called Party Number Check Ability	Disable(High->Low)
SIP Called Party Number Search Mode	Mode1
Symmetric Response Routing Ability	Enable
100rel Ability	Enable(Passive)
Ringback Tone to Outside Caller	Disable



# การ Register SIP Account from CAT

1.Configuration ->1.Slot ->Virtual Slot->V-SIPGW4 ->Port Property->Account

No.	Shelf	Slot	Port	Connection	User Name (64 characters)	Authentication ID (64 characters)	Authentication Password (32 characters)
	ALL			ALL			
1	Virtual	1	1	OUS	+662XXXXXXXX	662XXXXXXXX@catnextgen.com	YYYYYY
2	Virtual	1	2	Fault			
3	Virtual	1	3	Fault			

User Name -> +66XXXXXXXX หมายเลขโทรศัพท์  
Authentication ID -> 66XXXXXXXX@catnextgen.com  
Authentication Password -> รหัสผ่าน

# การ Register SIP Account from CAT

1.Configuration ->1.Slot ->Virtual Slot->V-SIPGW4 ->Port Property->Register

No.	Shelf	Slot	Port	Connection	Register Ability	Register Sending Interval (s)	Un-Register Ability when port INS	Regist (100)
	ALL			ALL	ALL		ALL	
1	Virtual	1	1	INS	Enable	3600	Disable	
2	Virtual	1	2	Fault	Enable	3600	Disable	
3	Virtual	1	3	Fault	Enable	3600	Enable	
4	Virtual	1	4	INS	Enable	3600	Disable	

Register Ability

-> Enable

Un-Register Ability when port INS

-> Disable

# การ Register SIP Account from CAT

1.Configuration ->1.Slot ->Virtual Slot->V-SIPGW4 ->Port Property->Option

No.	Shelf	Slot	Port	Connection	Session Timer Ability	Session Expire Timer (s)	Session Refresh Method
	ALL			ALL	ALL		ALL
1	Virtual	1	1	INS	Enable(Passive)	3600	re-INVITE
2	Virtual	1	2	Fault	Enable(Passive)	180	re-INVITE
3	Virtual	1	3	Fault	Enable(Passive)	180	re-INVITE
4	Virtual	1	4	INS	Enable(Passive)	3600	re-INVITE

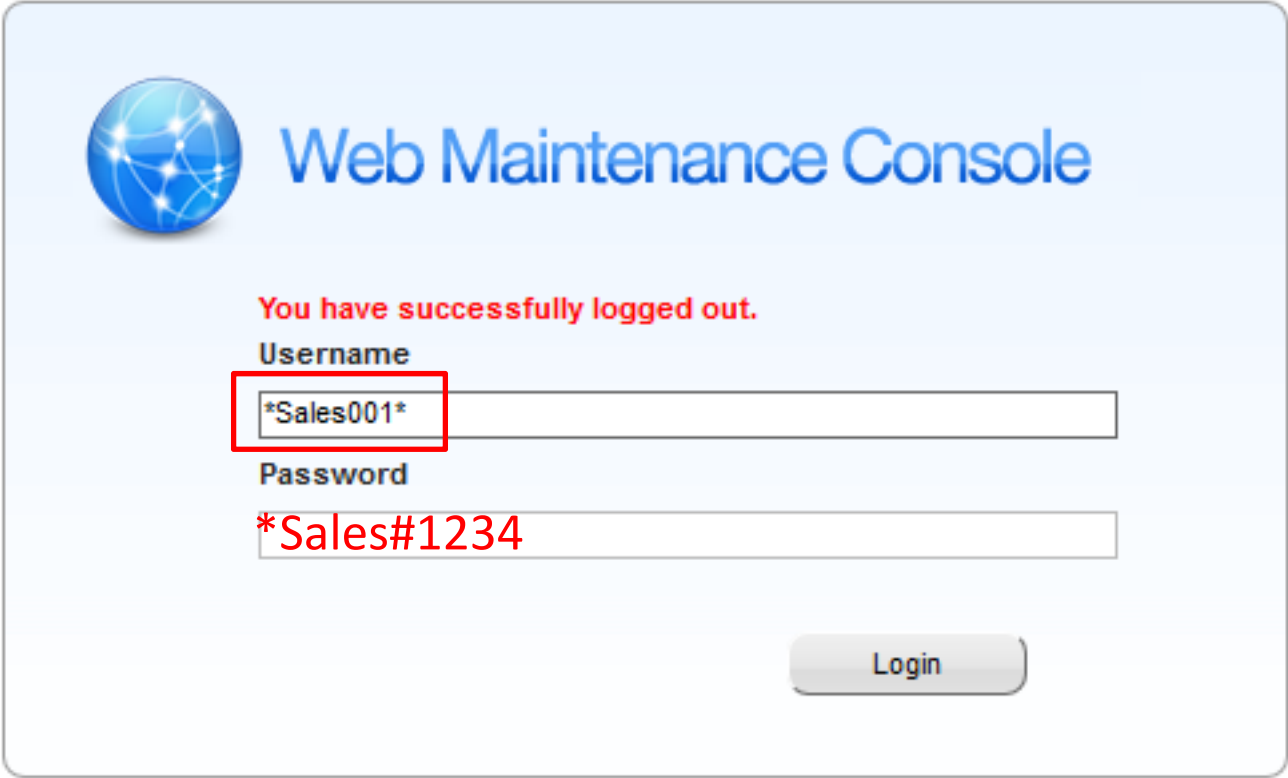
Session Expire Timer

-> 3600



## Log In ด้วยรหัสพิเศษ

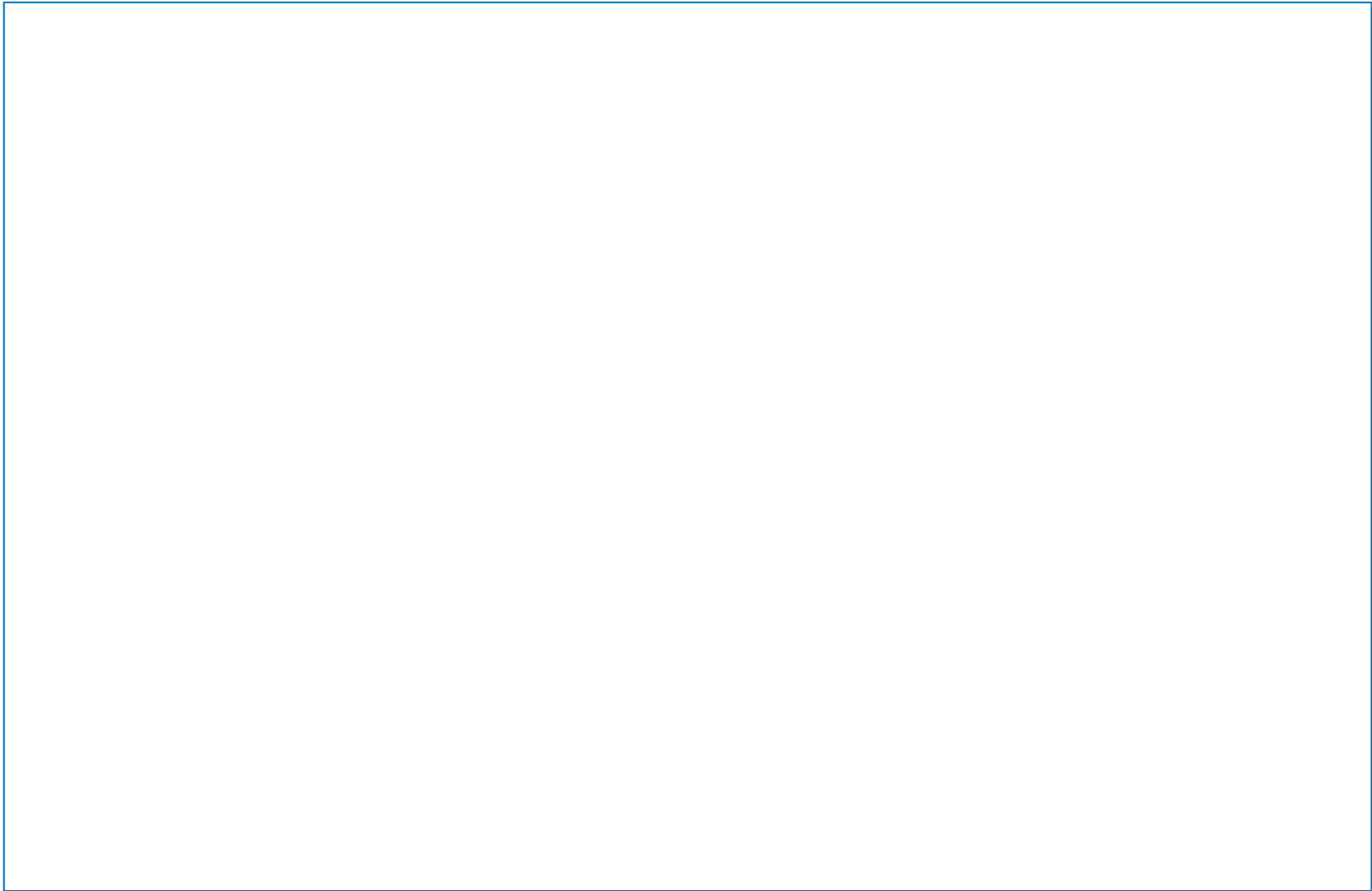
1.Configuration ->1.Slot ->Virtual Slot->V-SIPGW4 ->Port Property->Option



The image shows a screenshot of a web interface titled "Web Maintenance Console". At the top left is a blue globe icon with white network lines. Below the icon, the text "Web Maintenance Console" is displayed in blue. A red message states "You have successfully logged out." Below this, there are two input fields. The first is labeled "Username" and contains the text "\*Sales001\*", which is highlighted with a red rectangular box. The second is labeled "Password" and contains the text "\*Sales#1234" in red. At the bottom center, there is a grey button labeled "Login".

Program->2.System->9.System Option ->Reserved (Bits)

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# การกำหนดการเรียกเข้า Incoming Call

## 10. CO and Incoming Call ->2. DIL Table & Port Setting

DIL Table & Port Settings									
Destination Settings									
DIL CLI for DIL DDI / DID / TIE / MSN									
No.	Shelf	Slot	Port	Card Type	Trunk Property	Distribution Method	DIL Destination - Day		
	ALL			ALL	ALL	ALL			
1	1	1	1	LCOT6		DIL			
2	1	1	2	LCOT6		DIL			
3	1	1	3	LCOT6		DIL			
4	1	1	4	LCOT6		DIL			
5	1	1	5	LCOT6		DIL			
6	1	1	6	LCOT6		DIL			
7	Virtual	1	1	V-SIPGW4	Public	DIL	102		
8	Virtual	1	2	V-SIPGW4	Public	DDI / DID			
9	Virtual	1	3	V-SIPGW4	Public	DDI / DID			
10	Virtual	1	4	V-SIPGW4	Public	DIL	102		