

Panasonic SIP Trunking User Guide

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Overview

This document outlines the configuration settings required for the Panasonic KX-NS1000 and KX-NS700 PBX (Private branch exchange) to make full use of the capabilities of Nextiva's SIP Trunking services.

The SIP Trunking services of the Panasonic KX-NS1000/700 PBX are provided through virtual CO line cards (VSIPGW16), which can be easily integrated with Nextiva's VoIP service. This guide describes the specific configuration items for the Virtual SIP Gateway Card in addition to the basic PBX configuration related to SIP Trunking functionality.

DSP card and Activation keys

- ✓ The PBX must be equipped with a DSP card in order to provide communication between the TDM side of the PBX and the Nextiva SIP trunks
- ✓ Activation keys for SIP-Trunks must be installed in the PBX to provide SIP-trunk functionality 〗

To check the number of activation keys installed in the PBX and add new licenses, please refer to **Page 13** in this configuration guide.



Architecture Overview



The above diagram illustrates simple VoIP networks connecting the NS1000/700 PBX. Nextiva will provide its services over the Public Internet.

Port Forwarding rules on the end router:

- Forward Port (UDP) 35060 to the PBX IP address
- Forward Port Range (UDP) 12000 12511 to the VOIP-DSP#1-1 IP address
- Forward Port Range (UDP) 12512 13023 to the VOIP-DSP#1-2 IP address
- Forward Port Range (UDP) 13024 13535 to the VOIP-DSP#2-1 IP address
- Forward Port Range (UDP) 13536 13047 to the VOIP-DSP#2-2 IP address



Basic V-SIPGW16 Settings for Nextiva SIP Trunking

1. Install the NS Unified Web Maintenance console on your PC

a. The maintenance console is available for certified dealers. Dealers can get the latest version of the UPCMC from <u>www.panasonicpartnerportal.com</u> (UPCMC version 5.10.1 or higher)

2. Connect to the PBX

a. Start the UPCMC.



b. Click **Connect** and enter the IP Address to connect to your PBX for interactive configuration.

NS Unified Web Maintenance Console
Connect
Profile File(P)
Profile Name : default 🔹 🔳 🚺
Connection Property
PBX Model : KX-NS700 -
LAN O USB LAN O Modem ISDN Remote Section 2.1
LAN USB LAN Modem ISDN Remote
Port:
URL: nttp://
Connect(0) Cancel(C)

KX-NS700

KX-NS1000

NS Unified Web Maintenance Cons	ole
Connect	
Profile File(P) 🔻	
Profile Name : default	
Connection Property	
	PBX Model : KX-NS1000 -
LAN	
IP Address :	192.168.0.101 👻
Port :	
0 101 -	http://
o order	indult
	Connect(O) Cancel(C)



- c. Enter the username and password to log in to the PBX.
 - Default Username: **INSTALLER**
 - Default Password: **1234**

Web Maintenance Console
Username
INSTALLER
Password
••••
Login

d. Complete the Easy Setup Wizard configuration (if starting at factory default).



- 3. Configure the LAN Settings of the PBX
- a. Click on Setup.



b. Go to Network Service \rightarrow 1.IP Address/Ports \rightarrow Basic Settings tab

👌 Users	^	IP Address/Ports					
PBX Configuration		Basic Settings Advanced Settings Reference					
VM Configuration		LAN Setting					~
Router Configuration		DHCP Port Number	: 68				
Ketwork Service		O Obtain an IP address automatically					
IP 1.IP Address/Ports		Use the following IP address					
2.Server Feature		IP Address	: 192.168.0.101				
3.Client Feature		MAC Address	: 00:00:00:00:00				
4.0ther		Subnet Mask	: 255.255.255.0				
		Default Gateway	:				
		Local Domain	:				ł
		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					~
	\sim			ОК	Cancel	Apply	
		DSP IP Setting					
		Obtain DSP IP address automatically					
		Use the following DSP IP address DSP Card #1 1					
		ID Address	102 102 0 102				
		MAC Address	00:00:00:00:00				
		DSP Card #1 2					
		IP Address	192 168 0 103				
		MAC Address	: 00:00:00:00:00				
		DSP Card #2 - 1					
		IP Address	: 192.168.0.104				~

- c. Based on your Local LAN, assign static IP addresses to the PBX. The default gateway should be the end router's network IP address.
 - IP Address: *provided by LAN administrator*
 - Subnet Mask: *provided by LAN administrator*
 - Default Gateway: provided by LAN administrator
 - Preferred DNS IP Address: *provided by LAN administrator*
 - Alternative DNS IP Address: *provided by LAN administrator*
 - DSP Card #1 1: *provided by LAN administrator*
 - DSP Card #1 2: *provided by LAN administrator*
 - (NS1000 Only)
 - DSP Card #2 1: provided by LAN administrator
 - DSP Card #2 2: provided by LAN administrator



- d. Select **Apply**, then click **OK**.
 - 4. Installing V-SIPGW16 cards

KX-NS1000

a. Go to PBX Configuration \rightarrow 1.Configuration \rightarrow 1.Slot \rightarrow Virtual Shelf \rightarrow V-SIPGW16 tab.

Users Users	∧ Slot
PBX Configuration	Select Shelf : Physical Virtual Legacy-GW1 Legacy-GW2
🗁 1.Configuration	Refresh Close Summary Activation Key IP Phone Registration
EE 1.Slot	
2.Portable Station	System Property Site Property UM Card Property UM Port Property
E 3.Option	V-SIPGW16 V-IPEXT32 V-SIPEXT32 V-IPCS4 V-UTEXT32
🚳 4.Clock Priority	
5.DSP Resources	Virtual 16-Channel VolP SIP Gateway Card
2.System	I otal number of cards 0
3.Group	
4.Extension	
5.Optional Device	
6.Feature	
7.TRS	
8.ARS	
9.Private Network	
10.CO & Incoming Call	
11.Maintenance	
💘 UM Configuration	
Kouter Configuration	
Ketwork Service	
	✓

b. Click the dropdown menu, and select the number of V-SIPGW16 Cards to add for your installation.

Users /	Slot	
PBX Configuration	Select Shelf: Physical Virtual Legacy-GW1 Legacy-GW2	
😂 1.Configuration	Refresh Close Summary Activation Key IP Phone Registration	
EE 1.Slot		
2.Portable Station	System Property OM Card Property OM Port Property	
3.Option	V-SIPGW16 V-IPGW16 V-IPEXT32 V-SIPEXT32 V-IPCS4 V-UTEXT32	
a.Clock Priority		
5.DSP Resources	Virtual 16-Channel VolP SIP Gateway Card	
2.System	Total number of cards 0	
3.Group	2	
4.Extension		
5.Optional Device		
G.Feature	7	
C 7.TRS		
B.ARS	10	
9.Private Network		
10.CO & Incoming Call		
11.Maintenance		
	16	



KX-NS700

- a. Go to PBX Configuration \rightarrow 1.Configuration \rightarrow 1.Slot \rightarrow Select the Virtual Shelf
- b. Drag \rightarrow Drop V-SIPGW16 Cards to the virtual Trunk slots (1 4) as needed and click **OK**.

PBX Configuration	System Proper	ty Activation Key	IP Phone Registrat	on VolP Proper	ty UM Pr	operty			
I.Siot Z.Portable Station S.Option 4.Clock Priority	Virtual 16-C	hannel VolP SIP Gateway (Gw16		Trunk Slot Care V-SIPGW16 V-IPGW16	i	Extension V-IPEXT32 V-SIPEXT32 V-UTEXT32	Slot Card	
5.DSP Resources			_				V-IPCS4		
 2.System 3.Group 	Pana	sonic KX-NS700					_	Virtu	al
4.Extension								viitu	ai
5.Optional Device	4		8		12				16
G.Feature									_
C 7.TRS	3	Trunk	7	Extension	11	IP-CS		IP-CS	15
🗀 8.ARS				-		_		_	
9.Private Network	2		6		10				14
10.CO & Incoming Call			V-SIPGW16				_	-	_
📋 11.Maintenance	1				9		1		13
😻 UM Configuration						-			
Kale Network Service		1	1						
	vit	ual Slot							



5. Configuring the V-SIPGW16 Card

- a. Move your cursor over the V-SIPGW16 Card and click **OUS** to take the card out of service.
- b. Shelf Property settings: Move your cursor over the V-SIPGW16 Card and select Shelf Property.

🚺 Users	^	Slot										
PBX Configuration		Select Shelf :	Physical		Virtual	Lega	acy-GW1	Leg	acy-GW2			
1.Configuration		Refresh	Close		Sum	mary	Activation	Key	IP Phone Regist	ration		
📰 1.Slot		Custom Descents	Cite Deser		UN Card	Descet	UN Dest De					
2.Portable Station		System Property	Site Prope	enty	UM Card	Property	UM POR Pr	орепу				
3.Option		V-SIPGW16 V-IPG	GW16 V-IPEX	T32 \	/-SIPEXT32	V-IPC S4	V-UTEXT32					
4.Clock Priority												
5.DSP Resources		Virtual 16-Channel V	do 4 Nd	y Card								
2.System		Total number of card	us 1 🗸									
3.Group		1			-	V-SIPGW16						
4.Extension			Shelf Pro	operty								
5.Optional Device			Card Pro	operty		UT ANA					_	
6.Feature			Port Pro	perty								
7.TRS			Delet	te								
8.ARS												
9.Private Network												
0 Users		Main Timer	ual SIP Gatewa	ay								
Users PBX Configuration 1 Configuration		Main Timer	ual SIP Gatewa	ay								
Users PBX Configuration I.Configuration 1.Slot		Main Timer	ual SIP Gatew:	ay		: 35060						
Image: Second		Main Timer SIP Client Port Number NAT Traversal	ual SIP Gatew:	ay		: 35060 : Off		~				
Image: Ward of the second s		Shelf Property - Virt Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP F	ual SIP Gatewa	ay		: 35060 : Off : 16000						
Users PBX Configuration I.Configuration I.Sot I.Sot A.Cock Priority Cock Priority Cock Priority		Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe	Port No.	ay		: 35060 : Off : 16000 : Disable	3	V				
Image: Second		Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe	Port No. et Sending Ability	ay		: 35060 : Off : 16000 : Disable : Blank) JDP	× ×				
Image: Series		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe	ual SIP Gatew: Port No. tt Sending Ability tt Type tt Sending Interval	ay (s)		: 35060 : Off : 16000 : Disabli : Blank I	a JDP	V V				
Image: Series		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe	ual SIP Gatewr Port No. et Sending Ability et Type et Sending Interval	ay (s)		: 35060 : Off : 16000 : Disable : Blank I : 20	9 JDP	V V V				
Users PBX Configuration 1 Configu		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac Thirt Fixed Global IP Ac	ual SIP Gatewr Port No. et Sending Ability et Type tt Sending Interval ddress	ay (s)		: 35060 : Off : 16000 : Disabl : Blank 1 : 20 : 0.0.00	a JDP	> > > *				
Users PBX Configuration 1.Configuration 1.Configu		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUR Ability	ual SIP Gatewa Port No. H Sending Ability H Type H Sending Interval ddress	(s)		: 35060 : Off : 16000 : Disabil : Blank I : 20 : 0.0.0 : Disabil	a JDP a	V V V				
Users PBX Configuration 1.Configuration 1.Configuration 1.Configuration 2.2ortable Station 3.Group 4.Exck Priority 3.Group 4.Excension 5.Optional Device 6.Feature 7.TRS 8.APS		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUN Ability STUN Client Port Numb	- Port No. - Sending Ability - t Sending Ability - t Sending Interval ddress er	(s)		: 35060 : Off : 16000 : Disable : Blank II : 20 : 0.0.0 : Disable : 33478	9 DDb	Y Y Y				
Users PBX Configuration 1.Configuration 1.Configuration 1.Configuration 1.Configuration 1.Cock Priority 5.DSP Resources 2.System 3.Group 4.Extension 5.Optional Device 6.Feature 7.TRS 8.ARS 9.Private Network		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUN Ability STUN Client Port Numb- STUN External Address	Port No. t Sending Ability t Type t Sending Interval ddress er . Detection Retry C	(s)		: 35060 : Off : 16000 : Disable : 20 : 0.0.0 : Disable : 33478 : 1	3 JDP	> > > > >				
Users PEX Configuration 1 Configuration 1 Configuration 2 Portable Station 3 Joption 4 Clock Phorthy 5 JSP Resources 2 System 3 JGroup 4 Extension 5 Soptional Device 6 Feature 7 TIR 8 ARS 9 Private Network 10.C0 & Incoming Call		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUH Ability STUH Client Port Numb STUH Resending Interv	Port No. et Sending Ability et Type et Sending Interval ddress er Detection Retry C ral	(s)		: 35060 : Off : 16000 : Disabil : Blank : 20 : 0.0.0 : Disabil : 33478 : 1 : 500 mt	9 9 9 9	y y y y y				
Users PBX Configuration 1.Configuration 1.Configuration 1.Configuration 1.Configuration 1.Configuration 1.Cock Priority 5.DSP Resources 2.System 3.Group 4.Extension 5.Sptional Device 6.Feature 7.TRS 8.ARS 9.Private Network 10.Co & incoming Cal 11.Maintenance		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUH Ability STUH Client Port Number STUH External Address STUH Resending Interv SIP Called Party Number	Port No. et Sending Ability et Type et Sending Interval ddress er : Detection Retry C al er Check Ability	(s)		: 35060 : Off : 16000 : Disable : Blank II : 20 : 0.0.0.0 : Disable : 33478 : 1 : 500 m : Disable	a JDP a a	y y y y y y				
Users PBX Configuration 1.Configuration 1.Configuration 1.Configuration 1.Configuration 1.Configuration 1.Cock Priority 5.DSP Resources 2.System 3.Group 4.Extension 5.Optional Device 6.Feature 7.TRS 8.ARS 9.Private Network 10.Co & incoming Cal 11.Maintenance UM Configuration		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUN Ability STUN Client Port Numb STUN External Address STUN Resending Interv SIP Called Party Numbe SIP Called Party Numbe	Port No. et Sending Ability et Type tt Sending Interval ddress er s: Detection Retry C al er Check Ability er Search Mode	(s)		: 35060 : Off : 16000 : Disable : Blank II : 20 : 0.0.0 : Disable : 33478 : 1 : 500 m : Disable : Model	a a a k (High->Low)	> > > > > > > > > >				
Users PEX Configuration I.Configuration I.Configuration I.Configuration I.Configuration I.Cock Phorthy S.DSP Resources S.Optional Device S.Feature TTRS S.ARS S.Pytake Network 10.C0 & knoming Cal Il.Maintenance W UM Configuration W Router Configuration		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP 1 NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUN Ability STUN Client Port Numb STUN External Address STUN Resending Interv SIP Called Party Numbe SIP Called Party Numbe	Lual SIP Gatewi Port No. et sending Ability et Type ts Sending Interval ddress er s Detection Retry C ral er Check Ability er Search Mode Routing Ability	ay (s)		: 35060 : Off : 16000 : Disable : Blank II : 20 : 0.0.0 : Disable : 33476 : 1 : 500 m : Disable : Model : Model	s JDP s s (High->Low)	> > > > > > > >				
Users PBX Configuration I.Configuration I.Configuration I.Sot I.Configuration I.Cock Priority S.DSP Resources S.Optional Device S.Optional Device S.Optional Device S.Peature T.TRS S.ARS S.Private Network I.O.Co & Incoming Cal I.Maintenance W UM Configuration Sonder Configuration		Main Timer Main Timer SIP Client Port Number NAT Traversal NAT - Voice (RTP) UDP 1 NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUN Ability STUN Client Port Numb STUN External Address STUN Resending Interv SIP Called Party Numbe SIP Called Party Numbe Symmetric Response for 100rel Ability	- Port No. et sending Ability et Type et sending Interval ddress er s Detection Retry C ral er Check Ability er Search Mode Routing Ability	(s)		: 35060 : Off : 16000 : Disable : Blank II : 20 : 0.0.0.0 : Disable : 33476 : 1 : 500 m : Disable : Mode1 : Enable : Enable : Enable) JDP) (High->Low) (Passive)	> >				
Veers PBX Configuration IConfiguration ISot IConfiguration Softence I.Configuration ICock Priority Softence Softenal Device Softenal Device Feature T.TRS SARS SPrivate Network In Coc & Incoming Cal II.Maintenance Mu Configuration Softence Incock Incoming Cal II.Maintenance Mu Configuration Secure Network Service		Main Timer Main Timer NAT Traversal NAT - Voice (RTP) UDP I NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Keep Alive Packe NAT - Fixed Global IP Ac STUR Ability STUR Client Port Numb STUR External Address STUR Resending Interv SIP Called Party Numbe SIP Called Party Numbe Symmetric Response I 100rel Ability Ringback Tone to Outsi	Port No. + Sending Ability + Type + Sending Interval ddress er - Detection Retry C ral er Check Ability er Search Mode Routing Ability ide Caller	(s)		: 35060 : Off : 16000 : Disable : Blank 1 : 20 : 0 0 0 0 : Disable : 33470 : 1 : 500 m : Disable : Enable : Enable : Enable : Enable : Enable) JDP) k(High->Low) (Passive)	Y Y Y Y Y Y Y Y Y Y				

 c. Change the following parameters from their default value: Main Tab
 NAT – Keep Alive Packet Sending Ability: Enable

Timer Tab leave at factory default setting

d. Select Apply and then click OK to exit the Shelf Property settings screen.



e. Card Property settings:

Move your cursor over the V-SIPGW16 card and choose **Card Property**. *leave at factory default setting*

员 Users	∧ Slot
PBX Configuration	Select Shelf: Physical Virtual Legacy-GW1 Legacy-GW2
🗁 1.Configuration	Refresh Close Summary Activation Key IP Phone Registration
1.Slot	
差 2.Portable Station	System Property Site Property UM Card Property UM Port Property
3.Option	V-SIPGW16 V-IPGW16 V-IPEXT32 V-SIPEXT32 V-IPCS4 V-UTEXT32
4.Clock Priority	
5.DSP Resources	Virtual 16-Channel VolP SiP Gateway Card
2.System	
3.Group	
4.Extension	Shelf Property V-SIPOWID
5.Optional Device	Card Property Card Property
6.Feature	Port Property
7.TRS	Delete
8.ARS	
~ · · · · · ·	
👌 Users 🔨	Card Property - Virtual SIP Gateway
PBX Configuration	te : 1 Shelf : Virtual Slot : 1
😂 1.Configuration	Common Settings
E 1.Slot	DNS SDU Record Resolve Ability
2.Portable Station	
3.Option 4 Clock Brierthy	OK Cancel Apply

f. Select Apply and then click OK to exit the Card Property settings screen.

g. Port Property settings:

5.DSP Resources

Move your cursor over the V-SIPGW16 card and choose Port Property.

👌 Users	∧ Slot	
PBX Configuration	Select Shelf : Physical Virtual Legacy-GW1 Legacy-GW2	
😂 1.Configuration	Refresh Close Summary Activation Key IP Phone Registration	
🗮 1.Slot		
🐖 2.Portable Station	System Property Site Property UM Card Property UM Port Property	
3.Option	V-SIPGW16 V-IPGW16 V-IPEXT32 V-SIPEXT32 V-IPCS4 V-UTEXT32	
a.Clock Priority		
5.DSP Resources	Virtual 16-Channel VolP SIP Gateway Card	
2.System	Total number of cards 1	
3.Group		
4.Extension	1 Shelf Property V-SIPGW16	
5.Optional Device	Card Property Cardena	
6.Feature	Port Property Revealed Based Bas	
7.TRS	Delete Delete	
🗀 8.ARS		
9.Private Network		
<u>~</u>		



h. Change the following parameters from their default value:

Users	\sim	Port	Property - Vir	tual SI	P Gate	way				
PBX Configuration		Select I	Provider Add F	Provider	Trunk	Adaptor				
1.Configuration			1 ain 1 annunt	Denie	4 m	AT Option C	alling Deaths		T 22 T 22 Option DCD	
E 1.Slot		« N	Account	Regis	iter n	Al Option C	called Party Called Party	VOICE/FAX RTP/RTCP	1.36 1.36 Option D3P X	
2.Portable Station		No.		Slot	Port		Connection Attribute	Trunk Property	Channel Attribute	Provide
3.Option										(20 cha
💫 4.Clock Priority		1	Virtual	1	1	005	SIP Provider	Public	Not Used	
5.DSP Resources		2	Virtual	1	2		SIP Provider	Public	Not Used	
2.System		3	Virtual	1	3		SIP Provider	Public	Not Used	
3.Group		4	Virtual	1	4		SIP Provider	Public	Not Used	
4.Extension		5	Virtual	1	5		SIP Provider	Public	Not Used	
5.Optional Device		6	Virtual	1	6		SID Provider	Public	Not lised	
6.Feature		7	Virtual	1	7	003	SID Provider	Public	Not lised	
7.TRS		0	Virtual	4			SID Provider	Public	Not Used	
8.ARS		0	Virtual		0		CID Descrides	Public	Net Used	
9.Private Network		9	Virtual	1	9		SIP Provider	Public	Not used	
10.CO & Incoming Call		10	Virtual	1	10		SIP Provider	Public	Not used	
11.Maintenance		11	Virtual	1	11		SIP Provider	PUDIC	NOTUSED	
UM Configuration		12	Virtual	1	12		SIP Provider	Public	Not Used	
on comparation		13	Virtual	1	13		SIP Provider	Public	Not Used	
Router Configuration		14	Virtual	1	14		SIP Provider	Public	Not Used	
Network Service		15	Virtual	1	15		SIP Provider	Public	Not Used	
		× .								>
		¢,					ia ka Page 1 of 1 is	20		View 1 - 16 of 1

Main Tab

- Connection Attribute: Basic Channel + Additional Channels
- Provider Name: Nextiva
- SIP Server Name: pai.voipdnsservers.com

Account Tab

- User Name: *provided by Nextiva*
- Authorization ID: provided by Nextiva
- Authorization Password: provided by Nextiva

Register Tab

• leave at factory default setting

NAT Tab

• leave at factory default setting

Option Tab

• leave at factory default setting

Calling Party Tab

- From Header User Part: **PBX-CLIP**
- P-Asserted-Identity Header: Enable

Called Party Tab

• leave at factory default setting

Voice/FAX Tab

- leave at factory default setting RTP/RTCP Tab
- leave at factory default setting
- T.38 Tab
- leave at factory default setting

T.38 Option Tab

• leave at factory default setting DSP Tab

• leave at factory default setting

- **Supplementary Service Tab**
- CNIP (Receive): Yes

Advanced

- Leave at factory default setting
 - i. Select Apply, and then click OK to exit the Port Property settings screen.



6. Configuring Incoming DID Call Routing

a. Go to PBX Configuration \rightarrow 10.CO & Incoming Call \rightarrow 3.DDI/DID Table

Users	A DDI / DID Table									
PBX Configuration	Aut	tomatic Registration	Name Generate	Destination Setting						
1.Configuration		. DDI / DID I	lumber	DDI / DID Name	DDI / DID Destination -	DDI / DID Destination -	DDI / DID Destination -	DDI / DID Destinat		
2.System	ID	D 🕈 (32 di	gits)	(20 characters)	Day	Lunch	Break	Night		
3.Group										
4.Extension	1							~		
5.Optional Device	2									
6.Feature	3									
T.TRS	4									
8.ARS	5									
9.Private Network	6									
🗁 10.CO & Incoming Call	7									
4 1.CO Line Settings	8									
2.DIL Table & Port Settings	9									
3.DDI / DID Table	10									
器 5.Miscellaneous	11									
11.Maintenance	12									
VM Configuration	13									
•	14									
Router Configuration	15									

- b. Enter the 10-digit DDI / DID Numbers.
- c. Enter the desired Day/Lunch/Break/Night destination extension for each DDI / DID.
- d. Select Apply and then click OK to exit the DDI / DID Table settings screen.

7. Backup and Reset

- a. Click on Maintenance \rightarrow System Control \rightarrow 4.System Reset
- b. Click Backup.
- c. Click OK.
- d. Click OK.
- e. NS system will restart.



SIP Trunk Activation keys:

- 1. To obtain Activation Keys, you need to purchase the appropriate IP Trunk activation key models and access the Key Management System to register them to your PBX at http://tde.panacare.com.
 - KX-NSM102: 2-Channel IP Trunk Activation Key (2 IP Trunk)
 - KX-NSM104: 4-Channel IP Trunk Activation Key (4 IP Trunk)
 - KX-NSM108: 8-Channel IP Trunk Activation Key (8 IP Trunk)
 - **KX-NSM116:** 16-Channel IP Trunk Activation Key (16 IP Trunk)
- 2. You will need the MPR ID from the PBX to register the Activation Key(s) on the Key Management System.
- 3. To check the Number of Activation Keys Installed in your system and the MPR ID: PBX Configuration \rightarrow 1.Configuration \rightarrow 1.Slot \rightarrow Activation Key

员 Users	^	Activation Key Status						
PBX Configuration								
읃 1.Configuration		MPR-ID :		Number of activat	ed IP- :	/0		
🗮 1.Slot		Number of activated IP-	/0	Number of activat	ed :	/0		
🐖 2.Portable Station		Softphone		IPSec (VPN) for M	ultiSite			
E 3.Option		Activate Pre-installed Activation keys						
a.Clock Priority								
5.DSP Resources		Activated feature	Pre-installed	Activation key	Features in total	System total		
2 System		IP Phone Capacity (ch)						
2.0yuuuu		IP Trunk (ch)						
C Storoup		IP Proprietary Telephone/IP Softphone (ch)						
- 4.CXtension		IP Proprietary Telephone (ch)						
5.Optional Device		SIP Extension (ch)						
C.reature		P-CS channel expansion (CS unit)						
~		One-look Network						

Minimum System Software requirements:

NS Unified Web Maintenance Console	v5.10.1
KX-NS1000	v4.10060
KX-NS700	v4.10064

Useful Tips:

- 1. Update your system software once an update is available through the Dealer website to make use of added features and improved functionality.
- 2. Update your UPCMC (Maintenance Tool) with the latest version available on the BTS website.
- 3. Back up your PBX configuration file with the good known settings.
- 4. Consult with your network administrator prior to installation to guarantee a smooth setup for your system over the existing network.

Important Notes:

E911: Please work closely with the Nextiva team to ensure that E911 service is configured and tested properly.

