https://namlong.vn Hotline: 092 888 2345

KX-HTS Step by Step Guide

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Panasonic System Networks PBX SE team

Specifications are subject to change without notice.

1. Overview for Demo

PBX, phone and security camera can be provided by Panasonic. Other major PBX maker do not have security camera.



2. Table of Contents

Chapter	Contents
1	KX-HTS programming
2	KX-NTV : Initial setup
3	KX-NTV : SIP registration and video

Chapter 1 KX-HTS Programming

11. Click Port to change to SIP.

Click port 116 for example.



12. Change the port to SIP.

HTS	Web Maintenance Console		7
PBX Configuration	Port		
1.System	PBX Configuration > 2.Extension > 1.Port		
2.Extension			
3.Trunk		110.0.1	
4.TRS/ARS	Extension Number	116 [0-9]	
5.System Speed Dialling	Extension Name		
6.Conference	Attribution	Analogue SLT14	
7.Voice Mail	FAX Connection	SIP 14 No	
Network Configuration	Manager	© Enable © Disable	

13. Assign SIP Password.

Confirm User Name and Location also. Click [Apply].

PBX Configuration > 2.Extension > 1.Port



14. Enable Video Call.

PBX Configuration > 2.Extension > 1.Port

		S	IP Extension	h
SIP Registration Status	Not yet			
SIP User Name	phone-016	[0-9 a	a-z A-Z]	
Registration Password			Edit	
Current IP Address				
Current MAC Address				
Phone Location	Local	© R	emote	© Remote(G.729)
Alive Check	Enable	O Di	isable	
Alive Check - Interval	60	→ (second)	onds)	
Packet Sampling Time	20	🗕 (ms)		
DTMF	Outband(RFC2833)	-		
Video Support	Enable	O Di	isable	
Call Limit	8	•		

15. Assign SIP Domain Name.

SIP domain name is required for stronger security.

123.45.67.89 is example.

Some SIP phone does not support character (a-z A-Z) for SIP domain name.

HTS 💥	eb Maintenance Console		
PBX Configuration	SIP Extension Property		
1.System 2.Extension			
1.Port 2.Phone	Domain for SIP Extension	123.45.67.89	[0-9 a-z A-Z]
3.Flexible Buttons 4.Extension Group 5.Doorphone 6.Analogue SLT Property 7.SIP Extension Property	IP Address of SIP Extension in existing router IP Address Subnet Mask	0.0.0	.0
O			

16. Confirm SIP Port Number.

PBX Configuration	SIP Extension Property				
1.System	PBX Configuration > 2.Extension > 7.SIP Extension Property				
2.Extension					
1.Port 2.Phone	Domain for SIP Extension	123	45.67.8	39	[0-9 a-z A-Z
3.Flexible Buttons 4.Extension Group	IP Address of SIP Extension in existing router				
6.Analogue SLT Property	IP Address	0	. 0	. 0	.0
7.SIP Extension Property	Subnet Mask	0	. 0	. 0	.0
3.Trunk					
4.TRS/ARS					
5.System Speed Dialling	DSP				
6.Conference	IP Side - Gain1 (Network to PBX)	+0			
7.Voice Mail	IP Side - Gain2 (PBX to Network)	+0			
Network Configuration	PCM Side - Gain1 (PBX to Network)	+0			
	PCM Side - Gain2 (Network to PBX)	+0			🚽 (dB)
Maintenance	PCM Side - Echo Canceller Type	NE			-
	PCM Side - Echo Canceller NLP	On			-
	PCM Side - Echo Canceller Window Size	6			
	SIP Extension & SIP Trunk Common				
	Voice (RTP) UDP Port No. (Server)	1200	00		(1024 - 65235
		50.00			(1004

CS7 (56)

T

SIP OoS-DSCP

Chapter 2 KX-NTV (Initial Setup)

21. Initialize KX-NTV.

If KX-NTV has bee already registered to other PBX, it is required to initialize. Keep pressing reset button for 30s.

<KX-NTV150>



<KX-NTV160>



22. Connect KX-NTV to PoE L2-Switch.

Connect KX-NTV150/160 to KX-HTS through PoE L2-Switch. KX-NTV150/160 gets IP address.

(KX-NTV is not registered as SIP extension automatically.)

- Wait until yellow LED starts flashing.

- LED : Red (15s) -> Off (10s)-> Red (20s) -> Yellow Flash





23. Find IP address of KX-NTV using IW.exe.





24. Log-in using Internet Explorer.

Log-in to KX-NTV.
ID = admin
Password = adminpass

http://192.168.0.153

admin	
•••••	
🦳 資格情報を記憶する	

If web browser is Internet Explorer, add-in module is installed automatically as camera viewer.



25. Update Firmware.

Software of KX-NTV has to be version 0101e or later. If software version is 0101d (first mass production version), KX-NTV SIP registration is not possible for KX-HTS.

Panasonic			Home	Client settings	Configuration	Language	
	System > Mai	intenance					
System	General s etting	s Import/Export file	es				
General settings Homepage layout Logs Parameters Maintenance	 Upgrade fil Firmware file Reboot — 	irmware e:	参照	3	Upgrad	e t	
🔐 Installatio	on Wizard	# MAC 1 00-02-D1-3 2 E8-B1-FC-B3	D-F7-41 5-5E-32	IP Address 192.168.0.1 10.75.70.12	Model 53 KX-NTV160 7 ST7501	Firm 0 0101 1.11	ware Version La .0.1

26. Connect KX-NTV150 by Wireless.

Panasonic		Home	Client settings	Configuration
	Network > Wireles	S		
System	Enable WiFi			
SIP	WLAN configuration	ı ———		
Media	SSID	К	K-HTS	
	Wireless mode	In	frastructure 🔽	
Network	Security	W	/PA-PSK 🔽	
General settings	pro charad kay			
Wireless	pre-snared key			
HTS Web Maint	enance Console	KX-HTS	•)) 🚺	Remove LAN and connect AC Adapter
ork Configuration AP related securit WAN AP name LAN SSID	y configuration settings. MyAP – KX-HTS	🔢 IW.exe	IP addres does not o	s of KX-NTV150 change usually,

Chapter 3 KX-NTV (SIP & Video)

31. Log in to KX-NTV for SIP registration.



"Phone Number" is not extension number.

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32. Assign Destination of Call Button.

Video is displayed automatically after call is answered.

Panasonic		Home	Configuration Language
	SIP → General settings		
System	Call button outgoing number		
SIP	Basic mode		
General settings	Outgoing number	102	
SIP Settings	Advanced mode		
Media	General settings		
KX-NTV115 Ext 115	SIP Software phone	KX-NTV160 Ext 116	KX-HDV430 Ext 102

33. Reference : Group Call

If the destination is extension number for group, group call is also available.

SIP > General settings		
Call button outgoing numb	er	
Basic mode	\frown	
Outgoing number	601	



34. Assign KX-NTV as Camera.

Video can be displayed automatically before KX-HDV430 answers the call from KX-NTV, if extension number of KX-NTV is assigned.

KX-HDV430 answers the call from KX-NTV automatically at technical point of view in order to start video communication if this feature is enabled by KX-HDV430. Voice from KX-HDV430 is muted until "Off hook" manually. This feature cannot be used for group call because one of KX-HDV430 answers the call.









35. Adjust General Settings.

X - N I V 150	>			<kx-ntv160< th=""><th> ></th><th></th><th></th></kx-ntv160<>	>		
	Home	Client settings	Configuration		Home	Client setting	s Config
P > General settings				SIP > General settings			
Call button outgoing number				Call button outgoing number	r ———		
Basic mode				Basic mode			
Outgoing number	11	1		Outgoing number	1	02	
○ Advanced mode				⊖ Advanced mode			
General settings				General settings	ſ		
Call ring duration	15	se	cond	Call ring duration	1	5	second
Call duration	60	se	cond	Call duration	6	0	second
Video monitor before answer				V deo monitor before an swer			
Ringback tone after finish vide	monitor			Ringback tone after finish vide	eo monitor		
Indication of call status when r	eceiving call			☑ Ir dication of call status when	receiving call		

Default of call ring duration is 30s. This is too long for demo. KX-HDV430 can call KX-NTV150 without tone by above programming example.

36. Adjust Video for KX-HDV430 display.

Panasonic	Home Client settings Configuration Langu			
Media > Video				
System	Stream			
SIP	Video settings for stream 1 (RTSP)			
Media	✓ Video settings for stream 2 (SIP)			
Image	• H.264			
Video	Frame size: 640x360 V			
Audio	Maximum frame rate: 30 fps V			
Network	Intra frame period: 1 S V			

37. Assign 512 K bps to Maximum bit rate.

Media SVideo

 Video settings for stream 1 (RTSP) Video settings for stream 2 (SIP) 	Default is 1000 K bps. Default is too big if KX-NTV to call SIP extension through internet.
 H.264 Frame size:	1280x720 ∨
Maximum frame rate:	30 fps ∨
Intra frame period:	1 S ∨
Video quality Constant bit rate: Fixed quality.	Good ∨
Quality.	Customized ∨
Maximum bit rate:	512 Kbps [20~8000]

Thank you !

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Revision

Date	No.	Change
June 30, 2015	All	First draft
July 23, 2015	All	2nd draft
June 15, 2016	All	3rd draft
July 28, 2016	All	Step by step guide was divided for KX-NTV.
		First official release
August 5, 2016	16 (Page 10) 31 (Page 19)	Default of SIP port number is 5060.
	26 (Page 17)	Remove LAN.
	33 (Page 21)	SLT is used as example for group call.
	36 (Page 24)	Recommendation of frame size was revised.