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

KX-HTS Step by Step Guide SIP Phone Registration

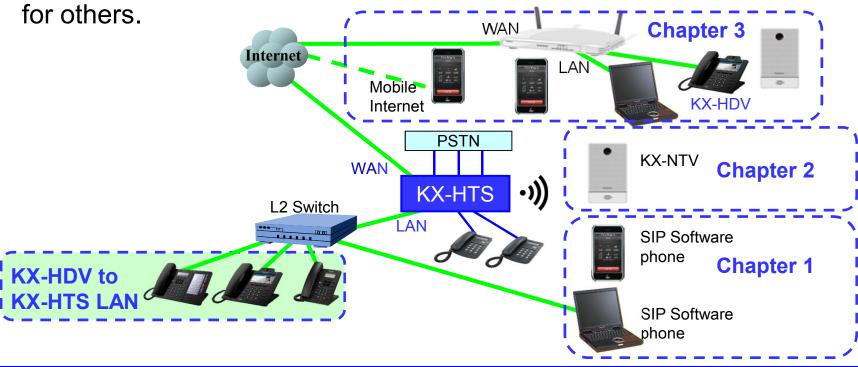
June 15, 2016

Panasonic System Networks
PBX SE team

Specifications are subject to change without notice.

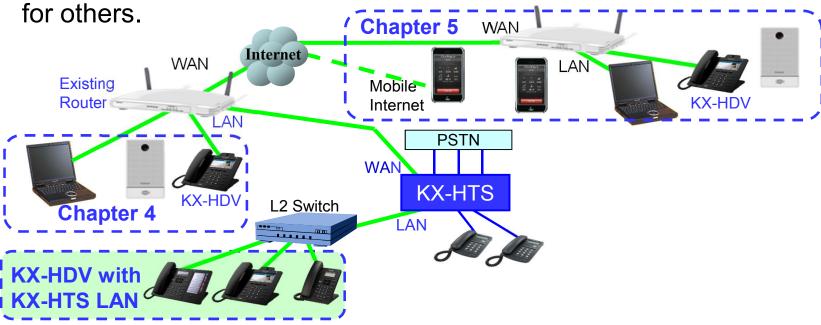
1. Overview

When KX-HDV is connected to LAN of KX-HTS, it is registered by MAC address automatically. But SIP phone registration is required



2. Overview – Existing Router

When KX-HDV is connected to LAN of KX-HTS, it is registered by MAC address automatically. But SIP phone registration is required for others



3. Manual for KX-HDV

Manual for KX-HDV is available on the following Panasonic web site:

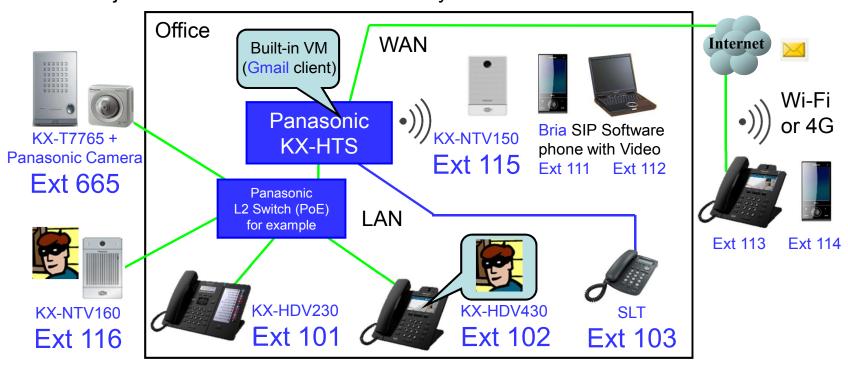
http://panasonic.net/pcc/support/sipphone/download/HDV1/index.html

It is required to program KX-HDV using web for chapter 3, 4 and 5.



4. Overview for Demo

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

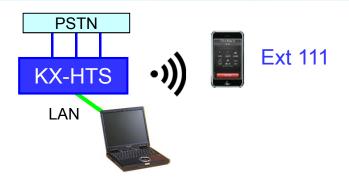


5. Table of Contents

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2	LAN : KX-NTV	
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4	WAN : LAN of Existing Router	
5	WAN: Internet through Existing Router	

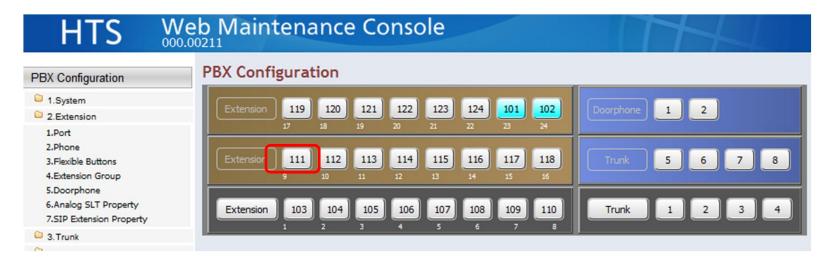
Media5phone for smart-phone is used to explain registration now. But it will be replaced to Bria.

Chapter 1 LAN: Software Phone

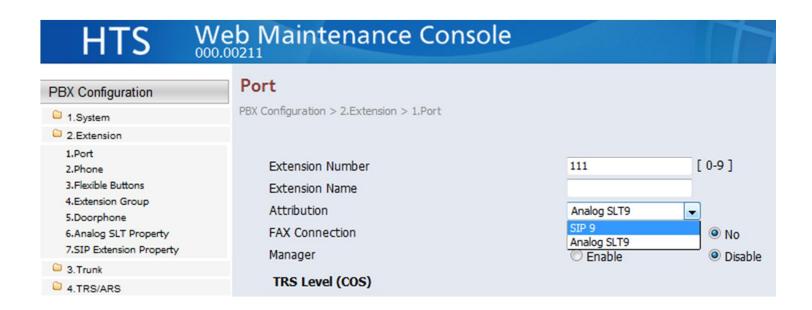


11. Click Port to change to SIP.

Click port 111 for example.



12. Change the port to SIP.

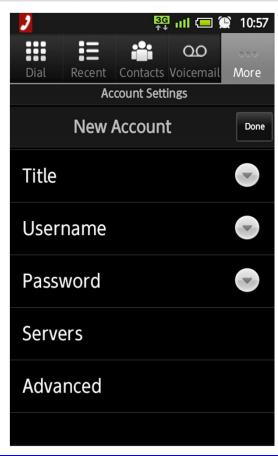


13. Assign SIP Password.

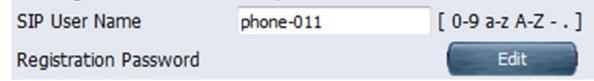
Confirm User Name and Location also. Click [Apply].



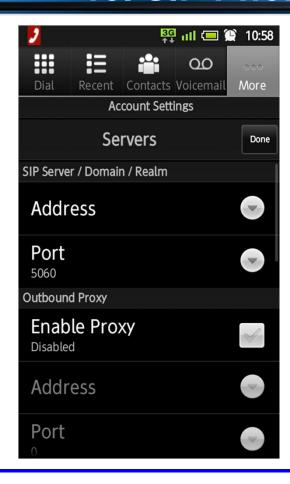
14. SIP Phone: Username and Password



Assign Username and Password to SIP phone as previous page .



15. SIP Phone: PBX IP address and Port

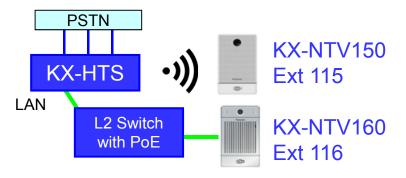


Default port number of KX-HTS is 33824. (Not 5060)

192.168.0.101 33824



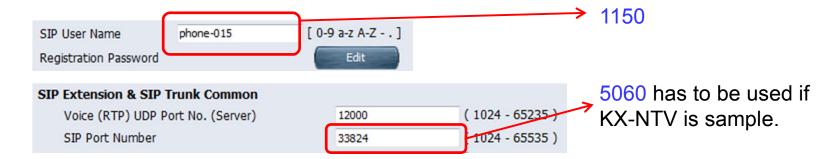
Chapter 2 LAN: KX-NTV



20. Assign SIP Username for KX-NTV150/160.

Username has to be 4 digits number because KX-NTV does not support alphabet for Username, and KX-HTS needs 4 or more digits for Usename.

Assign 1150 for extension 115 for example. Assign 1160 for extension 116 for example



21. Connect KX-NTV.

Connect KX-NTV160 to PoE L2-Switch.

- Wait until yellow LED starts flashing.
- LED: Red (15s) -> Off (10s)-> Red (20s) -> Yellow Flash
- IP address of KX-NTV is assigned automatically by DHCP server function of KX-HTS.

Register Wi-Fi of KX-NTV150 to KX-HTS.



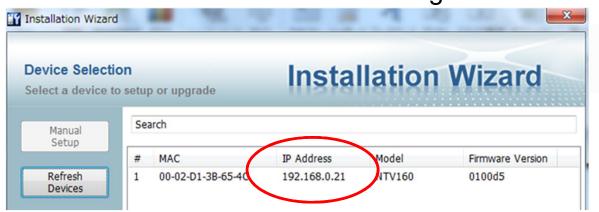
< Notice >

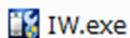
Software of KX-NTV150/160 has to be upgraded to connect to KX-HTS. KX-NTV can connect to KX-NS/NSX only before version up.

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

22. Search IP address of KX-NTV.

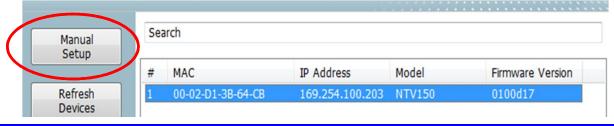
IP address of KX-NTV is advised using IW.exe.





Installation Wizard tool is provided by Panasonic.

If network does not support DHCP, use "Manual Setup" to assign IP address of KX-NTV. Password = adminpass



23. Log-in to KX-NTV.

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

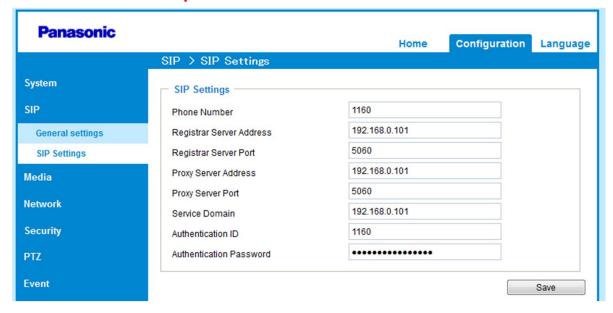
e http://192.168.0.21

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



24. Assign SIP parameter of KX-NTV.

KX-NTV cannot use character for SIP ID (User name). KX-NTV sample software did not work for 33824. Use 5060.

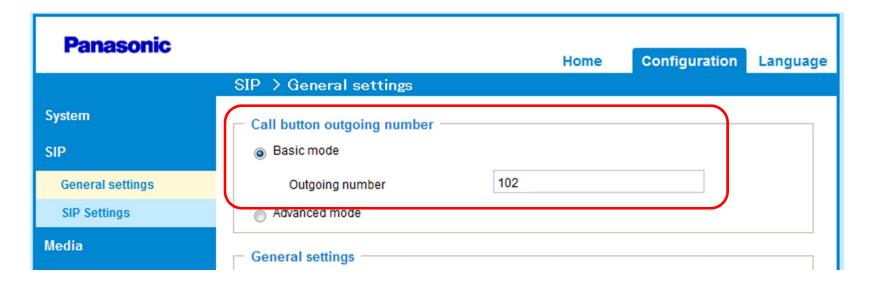




LED becomes green after registration.

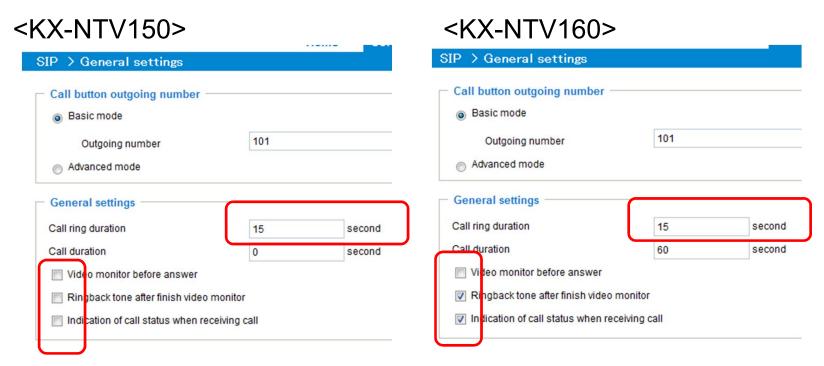
1150 is for NTV150.1160 is for NTV160.

25. Assign Destination of Call Button.



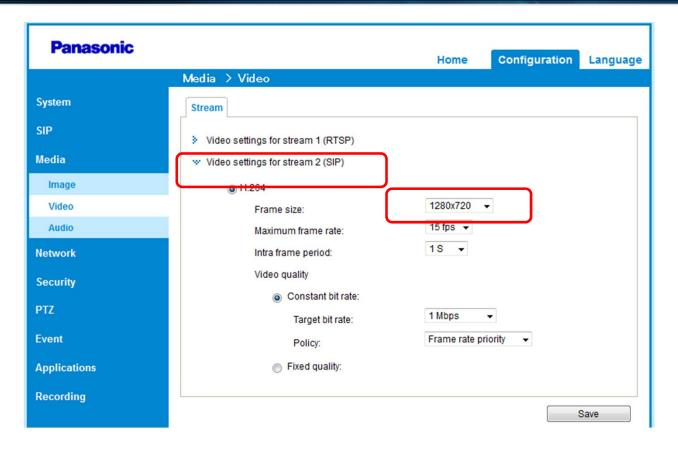


26. Adjust General Settings.



Call duration: Default is 30s. This is too long for demo. KX-HDV can call KX-NTV150 without tone for demo.

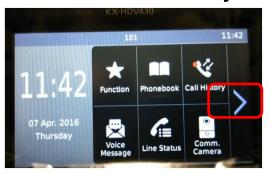
27. Adjust Video for KX-HDV display.

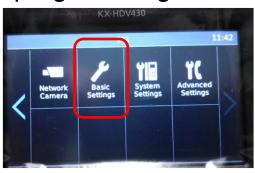


KX-HDV430 Programming

28. Assign KX-NTV as Camera.

Video from KX-NTV is displayed automatically without pressing "Video call" button by this programming.





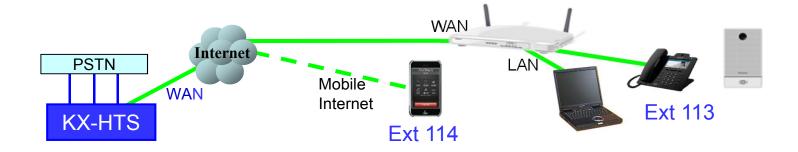








Chapter 3 WAN: Internet



31. Web-MC: Extension

SIP has to be selected as attribution of extension port.

SIP Username is assigned automatically and it can be modified manually. SIP Password is assigned manually.

"Remote" has to be assigned if the extension is connected through internet.

		SIP Extension		
	SIP Registration Status	Not yet		
	SIP User Name	phone-014	[0-9 a-z A-Z]	
	Registration Password		Edit	
	Current IP Address			
	Current MAC Address			
_				
	Phone Location	© Local	Remote	Remote(G.729)
	Alive Check	Enable	O Disable	
	and the second second		, , , , ,	

32. Web-MC: Domain Name

Domain name has to be assigned.

Domain name is used for registration.

This document uses "hogedomain" as example of Domain name. But "hogedomain" is not recommended because this document is released to internet.

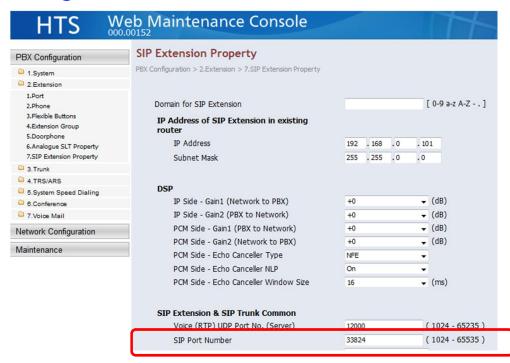


Domain name of KX-TDE/NS PBX was IP address of PBX LAN. It was usually 192.168.0.101.

33. Web-MC: SIP Port

Default of SIP port is "33824".

Change "33824" to other 3xxxx number except 350xx.

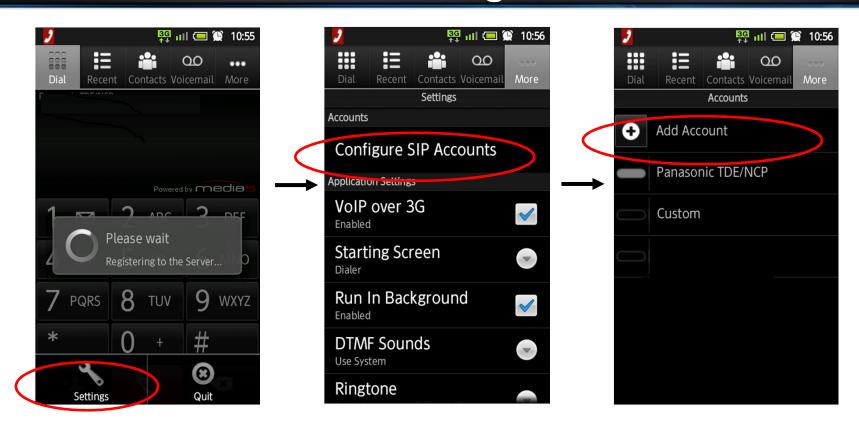


This document uses "33824" as example of SIP port.
But "33824" is not recommended because this document is released to internet.

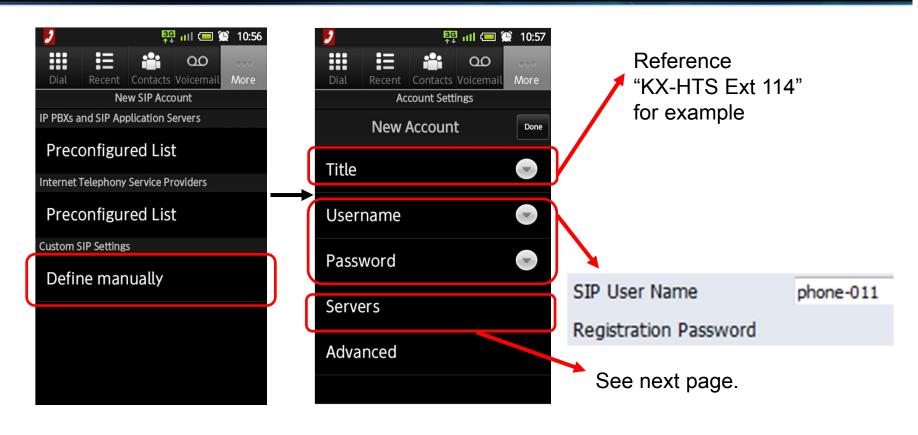
This port number is common for both SIP extension and SIP trunk.

5060 has to be programmed for some SIP carrier.

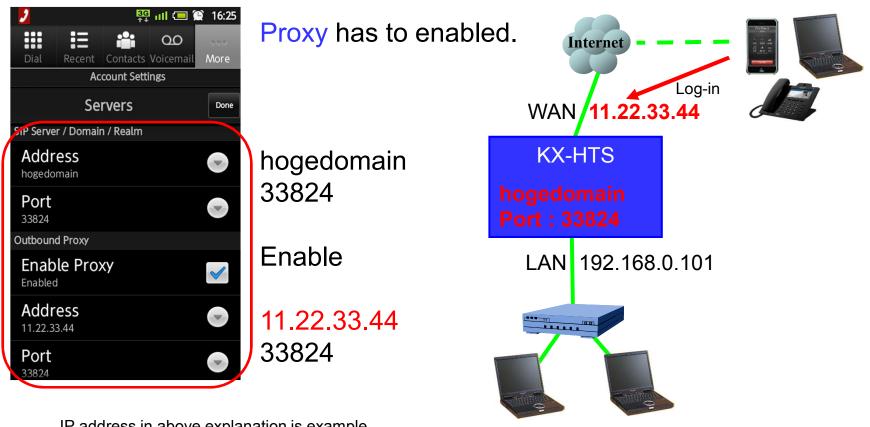
34. SIP Phone: Registration 1/4



35. SIP Phone: Registration 2/4

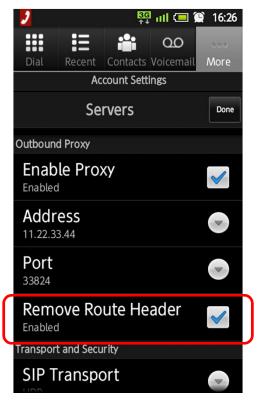


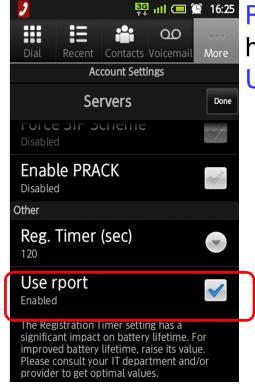
36. SIP Phone: Registration 3/4



IP address in above explanation is example.

37. SIP Phone: Registration 4/4





Remove Router Header has to enabled.

Use rport has to be enabled.

38. Important Notice

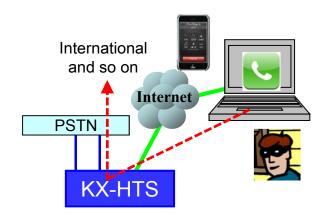
Do not use easy Username and SIP password such as "1234abc" to prevent from unexpected access by hacker.

Do not use easy Domain name.

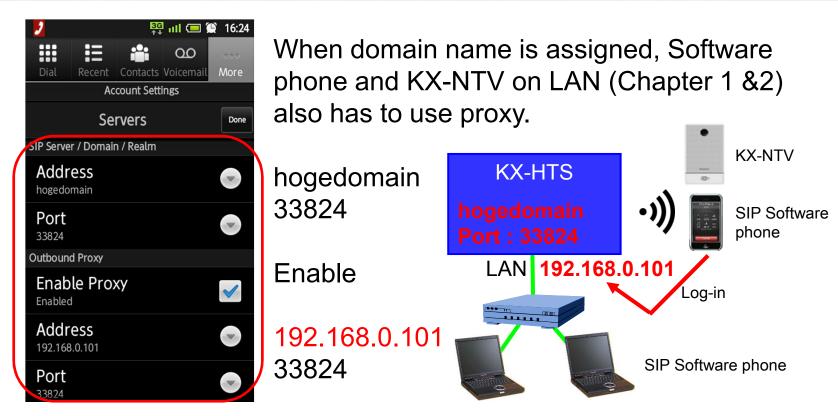
Program enough TRS level (Toll Restriction) for SIP extension in internet. International calling should be restricted basically.

TRS override by speed dial is useful to contact customers in other countries.

Do not use 50xx such as 5070 and x50xx such as 35060 for SIP port number basically. SIP port is common for SIP Trunk and SIP extension. "5060" has to be programmed for some SIP carrier. Even if 5060 is used for SIP port, security for KX-HTS is stronger than KX-NS remote SIP feature (MRG) because Username and Domain name are programmable.



29. Conditions



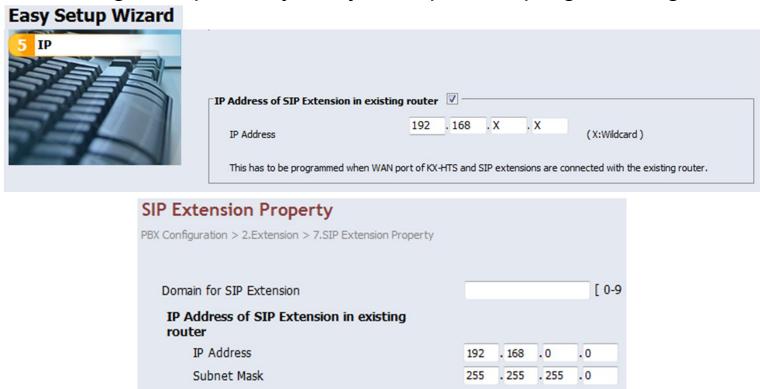
"rport" is not required for this case. But it is OK to enable "rport".

Chapter 4 WAN: LAN of Existing Router



41. Web-MC

Following is required by Easy-set-up or full programming mode.

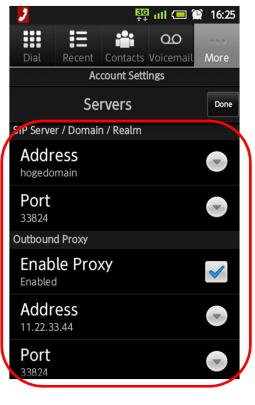


42. Web-MC

"Local" has to be selected as location. (Not Remote) Other programming is same as chapter 3.

Ext	Attribution	Location	Username	Password
118	SIP	Remote	2hf74hg83f	tnf94jgy
119	SIP	Local	r63h3b466h	tt4njg94nf
120	Analog SLT			

43. SIP Phone: Registration

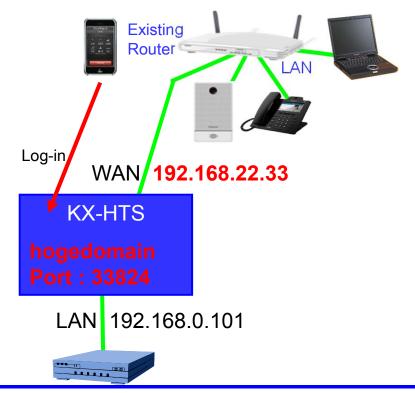


Setting is same as chapter 1.

hogedomain 33824

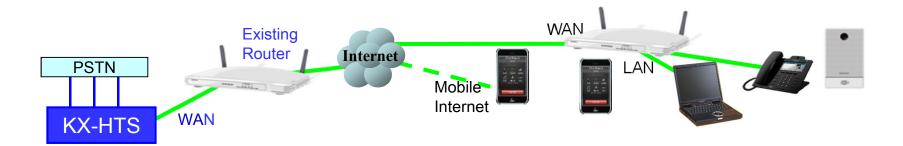
Enable

192.168.<mark>22.33</mark> 33824



IP address in above explanation is example.

Chapter 5 Internet through Existing Router



51. Conditions

Port Fwd is required for existing router.

Programming of KX-HTS is basically same as chapter 1.

More conditions are pending.

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

Thank you!

Revision

Date	No.	Change
June 30, 2015	All	First draft
July 23, 2015	All	2nd draft
June 15, 2016	All	3rd draft