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KX-HTS Step by Step Guide SIP Phone Registration (WAN)

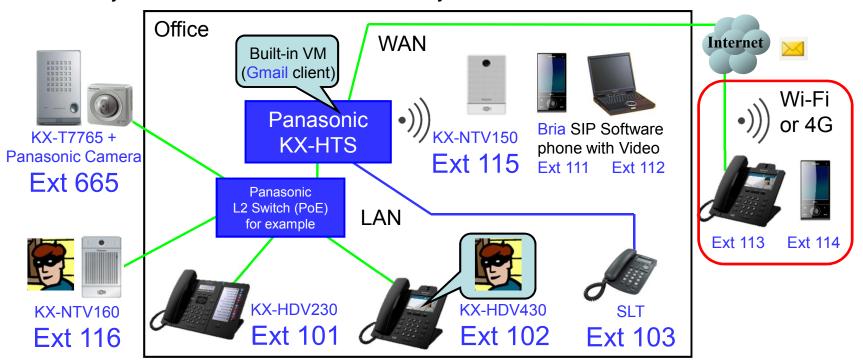
August 8, 2016

Panasonic System Networks
PBX SE team

Specifications are subject to change without notice.

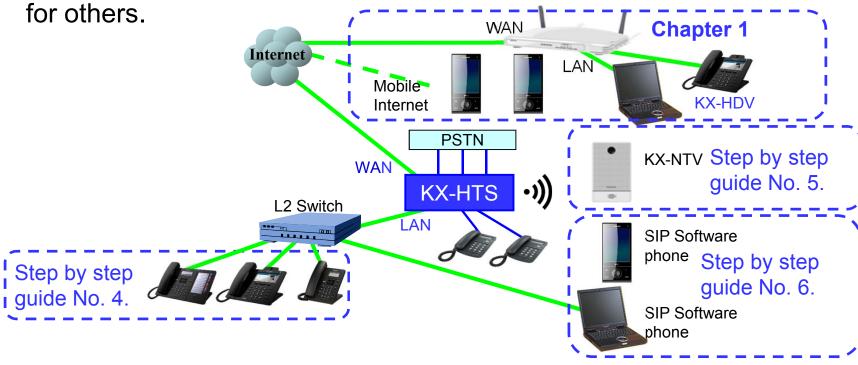
1. Overview for Demo

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



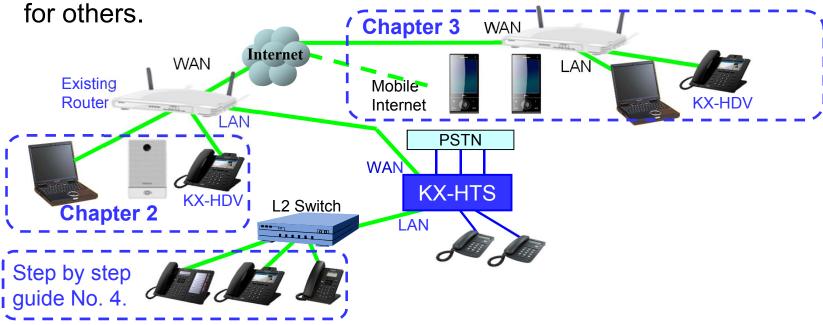
2. Diagram

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



3. Diagram with 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



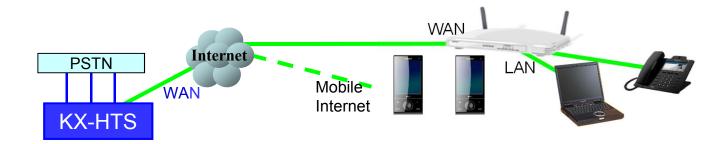
4. Table of Contents

Chapter	Contents	Bria Media5	KX-HDV	KX-NTV
1	Internet directly	Yes	Yes (*)	No
2	LAN of Existing Router	Yes	Yes	Yes
3	Internet through Existing Router	Yes	Yes (*)	No

Media5pone is used as example for chapter 1. KX-HDV430 is used for chapter 2.

(*) Video call is supported by KX-HDV430 new software for KX-HTS version 1.5.

Chapter 1 WAN: Internet



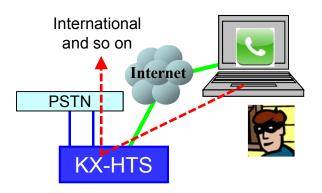
10. Important Notice

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.



11. Assign SIP Account for Remote.

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		`	J
Current MAC Address			
	0		©
Phone Location	© Local	Remote	Remote(G.729)
Alive Check	Enable	O Disable	

12. Assign SIP Domain Name.

Domain name has to be assigned.

Domain name is used for SIP registration for stronger security.

Character (A-Z a-z) should not be used because some SIP phone does not support character as SIP domain name.

IP address format such as 123.45.67.89 is recommended. Any "IP address" can be assigned as SIP domain name, regardless of IP address of KX-HTS.

192.168.xx.xx is not recommended because 192.168.xx.xx is famous for hacker.

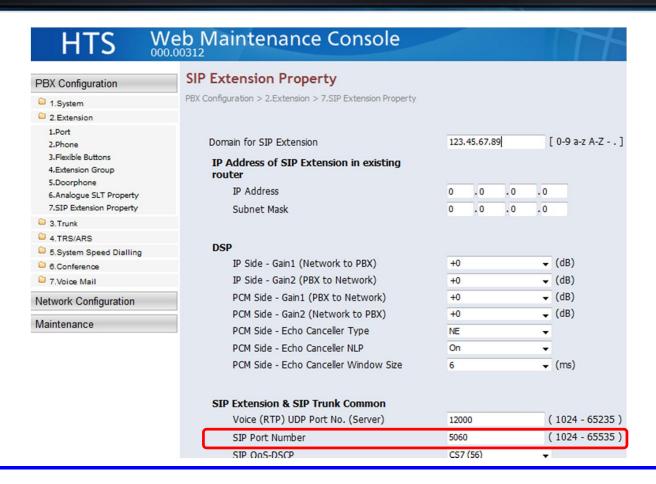
Domain name of KX-TDE/NS PBX was IP address of PBX LAN.

It was usually 192.168.0.101.

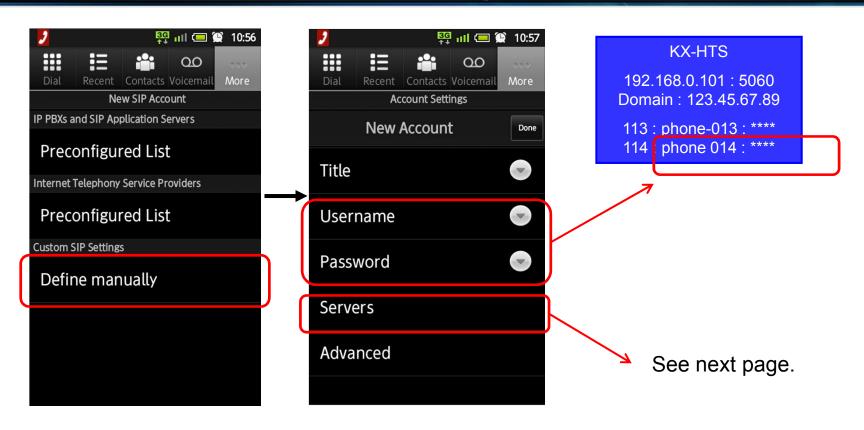
This document uses "123.45.67.89" as example of SIP domain name. But "123.45.67.89" is not recommended because this document is released to internet.



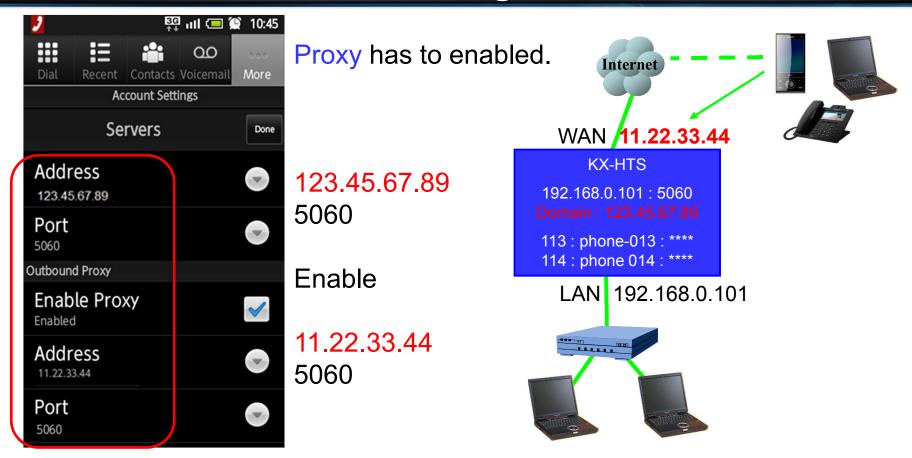
13. Confirm SIP Port Number.



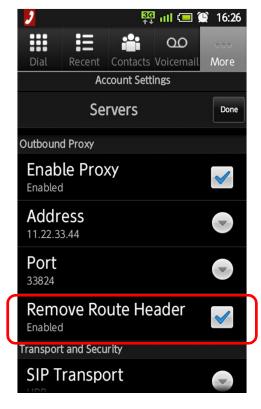
14. SIP Phone: Registration 1/3

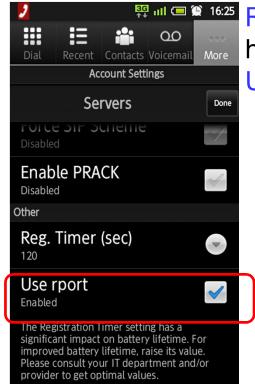


15. SIP Phone: Registration 2/3



16. SIP Phone: Registration 3/3

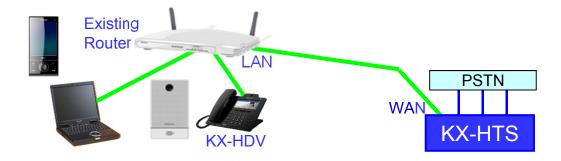




Remove Router Header has to enabled.

Use rport has to be enabled.

Chapter 2 WAN: LAN of Existing Router



21. Assign "Local" for the SIP extension.

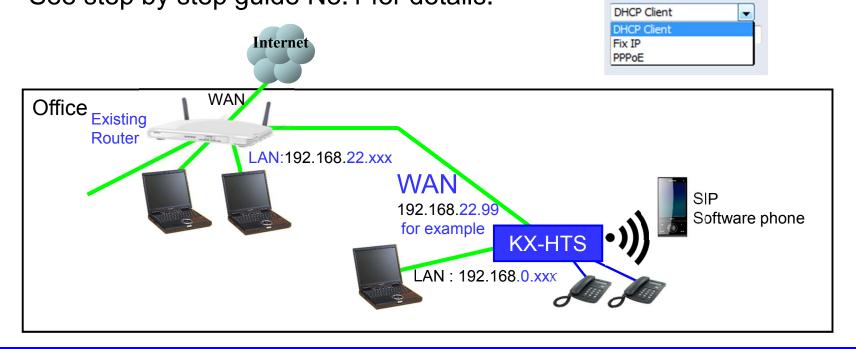
"Local" has to be selected as location. (Not Remote) SIP domain name is required for stronger security.

			S	IP Extension	
SIP Registration Status	Not ye	et			
SIP User Name	phone	none-002 [0-9 a-z A-Z]		-z A-Z]	
Registration Password				Edit	
Current IP Address Current MAC Address					
hone Location		● Local © R		emote	Remote(G.729)
SIP Extension Property					
PBX Configuration > 2.Extension > 7.SIP Extension Property	/				
Domain for SIP Extension		123.45.67.89	1	[0-9 a-z A-Z]	

22. Connect KX-HTS to LAN of Existing Router.

WAN port of KX-HTS has to be connected to LAN of existing router as DHCP client or using fixed IP address.

See step by step guide No.1 for details.



23. Connect KX-HDV to LAN of Existing Router.

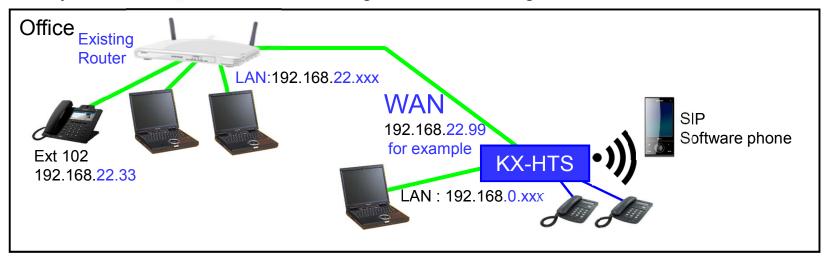
IP address of KX-HDV is assigned automatically, if existing network supports DHCP server.

IP address of KX-HDV can be confirmed by KX-HDV.

System setting => Status => IPv4 Settings

IP address of KX-HDV can be programmed if network does not support DHCP.

System setting => Network Settings => IPv4 Settings



24. Log-in to KX-HDV for Web Programming.

KX-HDV has to be enabled for web access before log-in from PC.

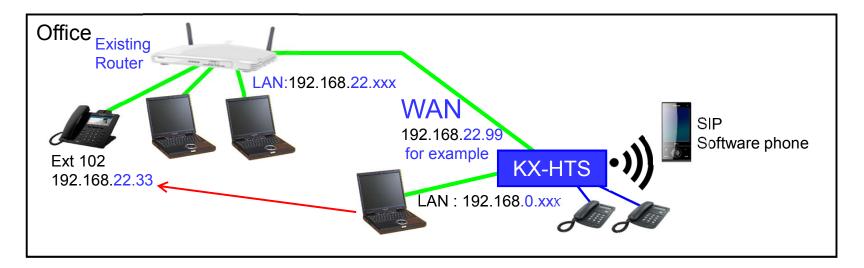
System setting => # 5 3 4 => Embedded Web On

3

192.168.22.33

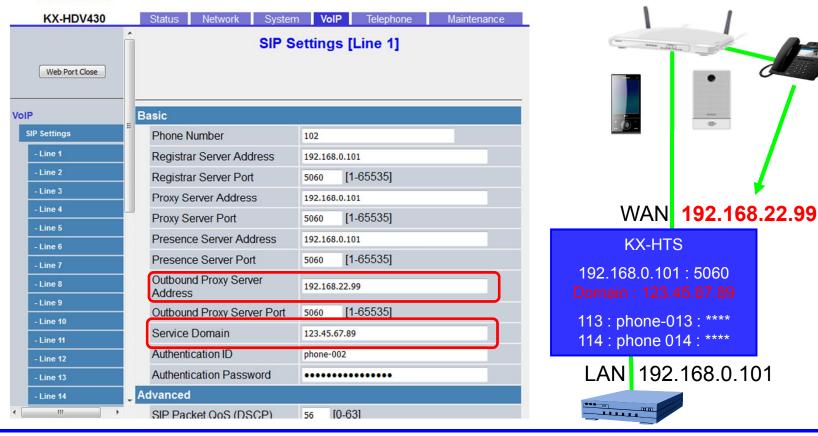
ID: admin

Password : adminpass



25. Assign SIP settings.

Panasonic

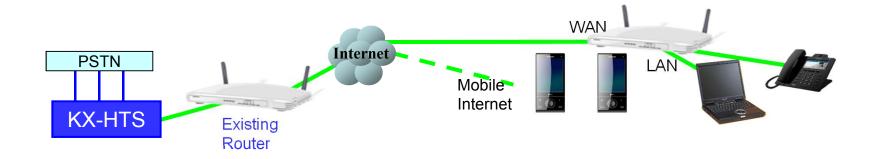


26. Reference

Only SIP phone with IP address 192.168.x.x can be registered, if following is programmed for example.

5 IP	IP Address of SIP Extension in existing	router	V —					
35	IP Address	192	. 168	. X	. X	(X:Wild	card)	
SIP	This has to be programmed when WAN por	t of KX-	HIS and S	SIP exter	nsions ar	e connected wit	h the existing	router.
PBX C	Configuration > 2.Extension > 7.SIP Extension Prope	erty						
	Domain for SIP Extension		123.45.67.89			[0-9 a-z	9 a-z A-Z]	
	IP Address of SIP Extension in existing router							
	IP Address		192	. 168	. 0	. 0		
	Subnet Mask		255	. 255	. 0	. 0		

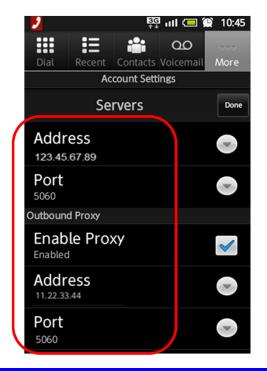
Chapter 3 Internet through Existing Router



31. Point of Programming

Notice and point of programming are same as chapter 1.

Port Fwd is required by existing router.

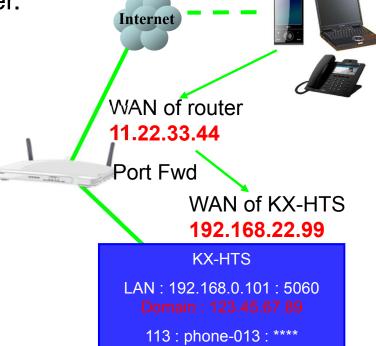


123.45.67.89 5060

Enable

11.22.33.44

5060

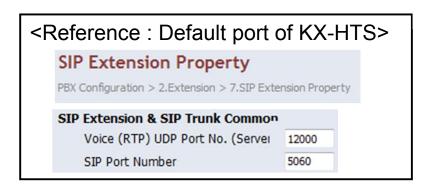


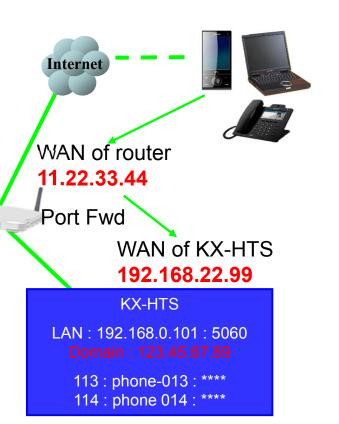
114: phone 014: ****

32. Assign Port Fwd to Existing Router.

Range of port number (WAN)	Destination		
5060 (SIP)	192.168.22.99		
12000-12007(UDP)	192.168.22.99		

SIP ALG has to be disabled.





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
August 8, 2016	All	Step by step guide was divided for remote SIP phone. First official release