

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

KX-HTS Step by Step Guide
SIP Software Phone

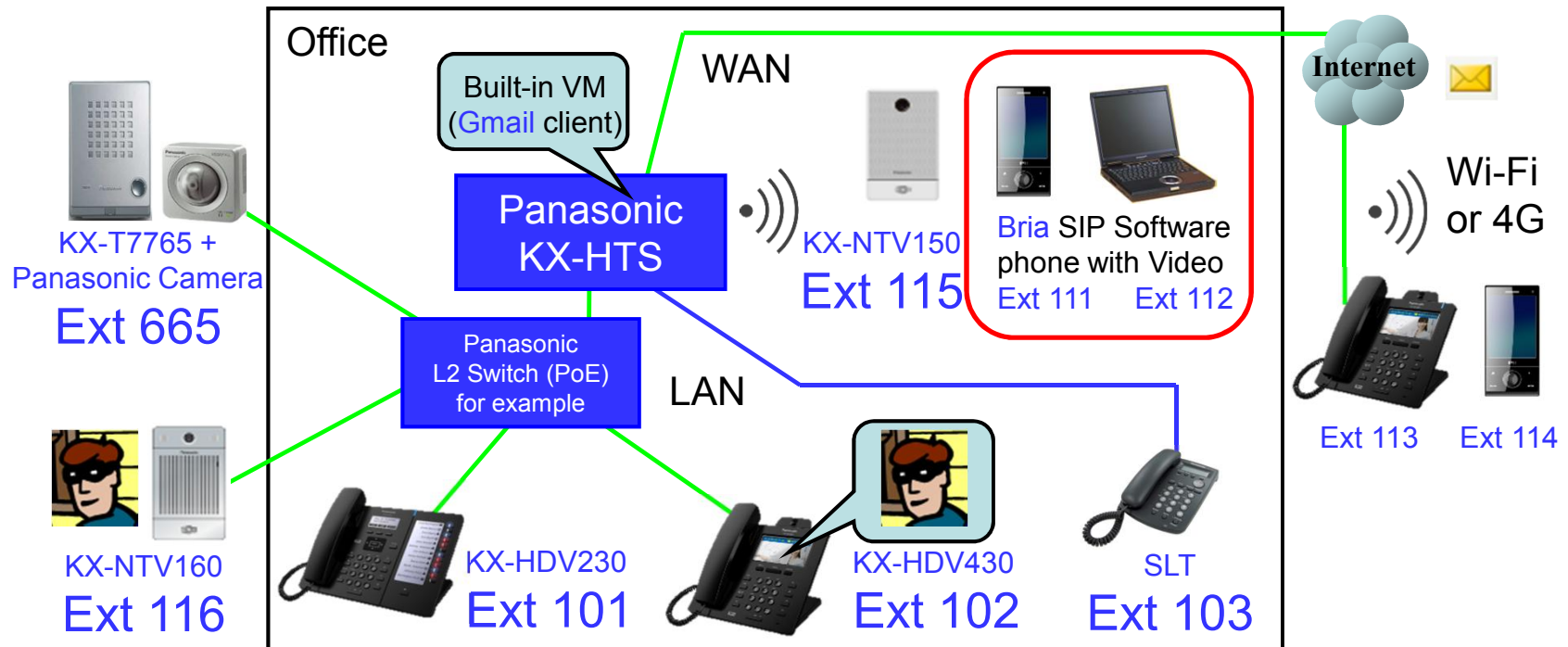
August 5, 2016

Panasonic System Networks
PBX SE team

Specifications are subject to change without notice.

1. Overview for Demo

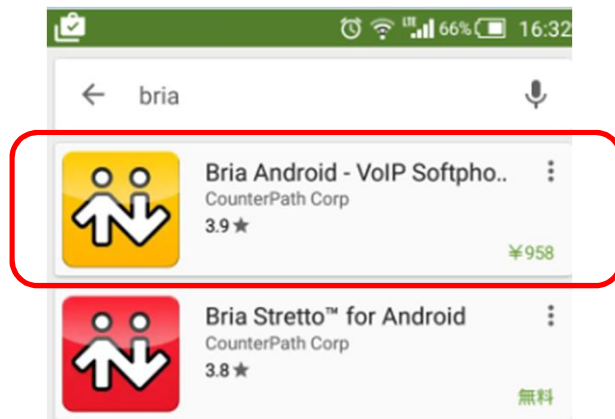
PBX, phone and security camera can be provided by **Panasonic**. Other major PBX maker do not have security camera.



2. Table of Contents

Chapter	Contents
1	KX-HTS programming
2	Bria programming
3	Media5phone programming

Bria supports video call. Media5phone does not support video call.



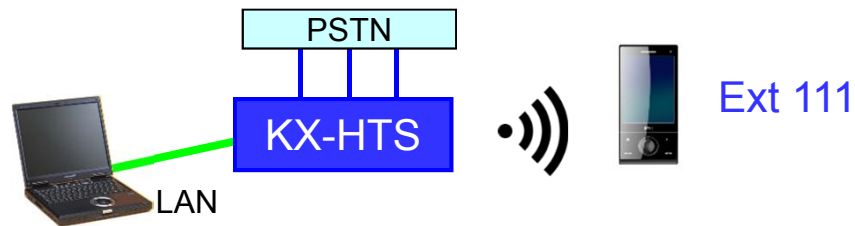
Chapter 1

KX-HTS Programming

11. Click Port to change to SIP.

Click port 111 for example.

The screenshot shows the HTS Web Maintenance Console interface. The title bar reads "HTS Web Maintenance Console 000.00211". On the left is a "PBX Configuration" sidebar with a tree view containing: 1. System, 2. Extension (expanded), 1. Port, 2. Phone, 3. Flexible Buttons, 4. Extension Group, 5. Doorphone, 6. Analog SLT Property, 7. SIP Extension Property, and 3. Trunk. The main area is titled "PBX Configuration" and displays three rows of extension buttons. The first row shows extensions 119-124, with 101 and 102 highlighted in cyan. The second row shows extensions 111-118, with 111 highlighted in red. The third row shows extensions 103-110. To the right of these rows are "Doorphone" (1, 2), "Trunk" (5, 6, 7, 8), and another "Trunk" (1, 2, 3, 4) section.



12. Change the port to SIP.

HTS Web Maintenance Console
000.00211

PBX Configuration

- 1. System
- 2. Extension
 - 1. Port
 - 2. Phone
 - 3. Flexible Buttons
 - 4. Extension Group
 - 5. Doorphone
 - 6. Analog SLT Property
 - 7. SIP Extension Property
- 3. Trunk
- 4. TRS/ARS

Port
PBX Configuration > 2.Extension > 1.Port

Extension Number: 111 [0-9]

Extension Name:

Attribution: Analog SLT9

FAX Connection: No Disable

Manager: Enable Disable

TRS Level (COS)

13. Assign SIP Password.

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

The screenshot shows the configuration interface for an extension, divided into two sections: "Analog Extension" and "SIP Extension".

- Analog Extension:** Includes a "Caller ID Signal Send" option with radio buttons for "Enable" (selected) and "Disable".
- SIP Extension:** Includes fields for "SIP Registration Status" (set to "Not yet"), "SIP User Name" (set to "phone-011"), and "Registration Password" (with an "Edit" button). Below these are fields for "Current IP Address" and "Current MAC Address".
- Phone Location:** Includes radio buttons for "Local" (selected), "Remote", and "Remote(G.729)".
- Buttons:** "Apply" and "Cancel" buttons are located at the bottom right of the configuration area.

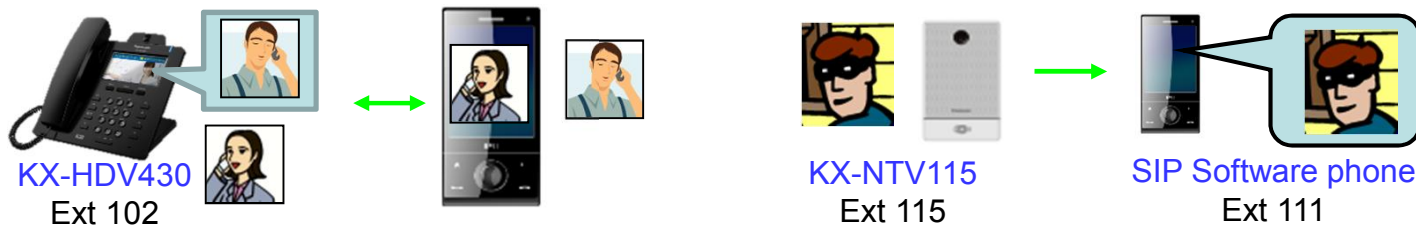
At the bottom of the interface is a row of extension buttons labeled "Extension" with numbers 111 through 118. The button for extension 111 is highlighted in blue.

14. Enable Video Call.

PBX Configuration > 2.Extension > 1.Port

SIP Extension	
SIP Registration Status	Not yet
SIP User Name	phone-011 [0-9 a-z A-Z - .]
Registration Password	<input type="button" value="Edit"/>
Current IP Address	
Current MAC Address	
Phone Location	<input checked="" type="radio"/> Local <input type="radio"/> Remote <input type="radio"/> Remote(G.729)
Alive Check	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Alive Check - Interval	60 (seconds)
Packet Sampling Time	20 (ms)
DTMF	Outband(RFC2833)
Video Support	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Call Limit	8

This setting is not required for Media5phone because it does not support video call .

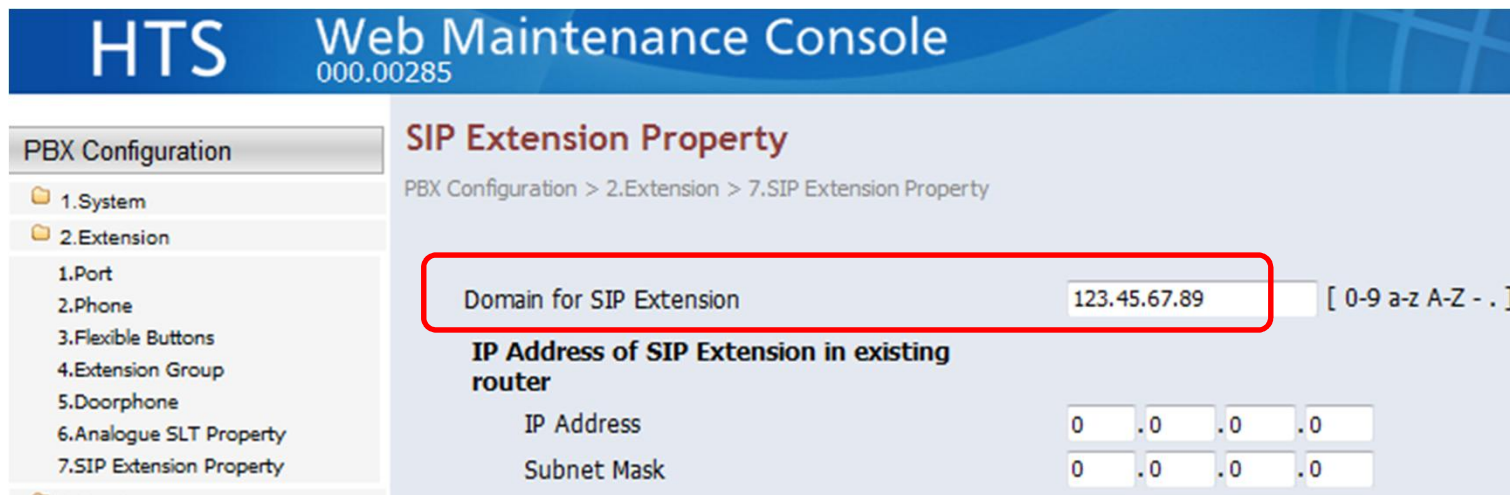


15. Assign SIP Domain Name.

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.



The screenshot shows the HTS Web Maintenance Console interface. The header includes the HTS logo and the text 'Web Maintenance Console 000.00285'. On the left, a navigation menu under 'PBX Configuration' lists several options, with '7.SIP Extension Property' selected. The main content area is titled 'SIP Extension Property' and shows a breadcrumb trail: 'PBX Configuration > 2.Extension > 7.SIP Extension Property'. A red box highlights the 'Domain for SIP Extension' field, which contains the IP address '123.45.67.89' and a character set restriction '[0-9 a-z A-Z - .]'. Below this, there is a section for 'IP Address of SIP Extension in existing router' with two rows of input fields: 'IP Address' and 'Subnet Mask', each with four individual boxes containing the value '0'.

16. Confirm SIP Port Number.

HTS Web Maintenance Console
000.00312

PBX Configuration

- 1. System
- 2. Extension
 - 1. Port
 - 2. Phone
 - 3. Flexible Buttons
 - 4. Extension Group
 - 5. Doorphone
 - 6. Analogue SLT Property
 - 7. SIP Extension Property
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialling
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

SIP Extension Property

PBX Configuration > 2.Extension > 7.SIP Extension Property

Domain for SIP Extension: 123.45.67.89 [0-9 a-z A-Z - .]

IP Address of SIP Extension in existing router

IP Address: 0 . 0 . 0 . 0

Subnet Mask: 0 . 0 . 0 . 0

DSP

IP Side - Gain1 (Network to PBX): +0 (dB)

IP Side - Gain2 (PBX to Network): +0 (dB)

PCM Side - Gain1 (PBX to Network): +0 (dB)

PCM Side - Gain2 (Network to PBX): +0 (dB)

PCM Side - Echo Canceller Type: NE

PCM Side - Echo Canceller NLP: On

PCM Side - Echo Canceller Window Size: 6 (ms)

SIP Extension & SIP Trunk Common

Voice (RTP) UDP Port No. (Server): 12000 (1024 - 65235)

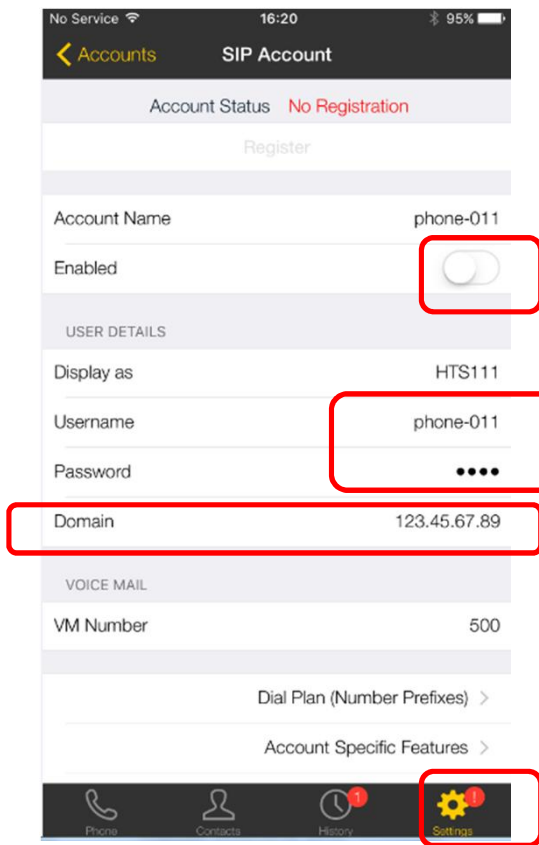
SIP Port Number: 5060 (1024 - 65535)

SIP QoS-DSCP: CS7 (56)

Chapter 2

Bria

21. Assign User Account and Domain.



KX-HTS

192.168.0.101 : 5060

Domain : 123.45.67.89

111 : phone-011 : ****

112 : phone 012 : ****

SIP User Name phone-011 [0-9 a-z A-Z - .]

Registration Password Edit

22. Assign Proxy.

Username	phone-011
Password	••••
Domain	123.45.67.89
VOICE MAIL	
VM Number	500
Dial Plan (Number Prefixes) >	
Account Specific Features >	
Account Advanced >	

No Service 16:20 95%	
< SIP Account Account Advanced	
ACCOUNT ADDITIONAL	
Out. Proxy	192.168.0.101
Auth Name	[username is the default]
NETWORK TRAVERSAL	



KX-HTS	
192.168.0.101 : 5060	
Domain : 123.45.67.89	
111 : phone-011 : ****	
112 : phone 012 : ****	

It is not required to program port number, if SIP port number of KX-HTS is 5060.

If SIP port number of PBX is 33824 for example, 192.168.0.101:33824 has to be programmed.

23. Enable Video Call.

Username	phone-011
Password	••••
Domain	123.45.67.89
VOICE MAIL	
VM Number	500
Dial Plan (Number Prefixes) >	
Account Specific Features >	
Account Advanced >	

No Service 16:20 95%

< SIP Account Account Features

MOBILE DATA NETWORK

Disable Mobile Data

Disable VoIP Calls

VIDEO CALLS

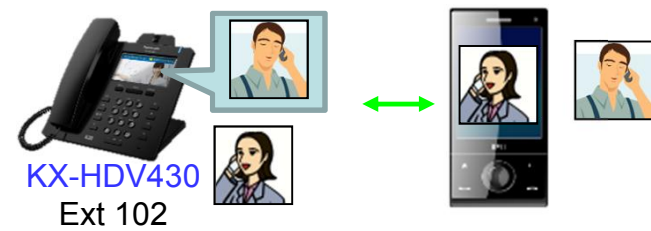
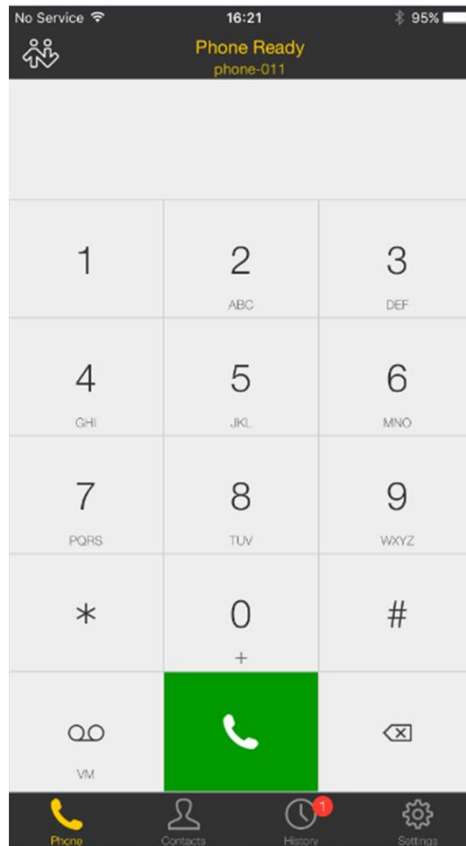
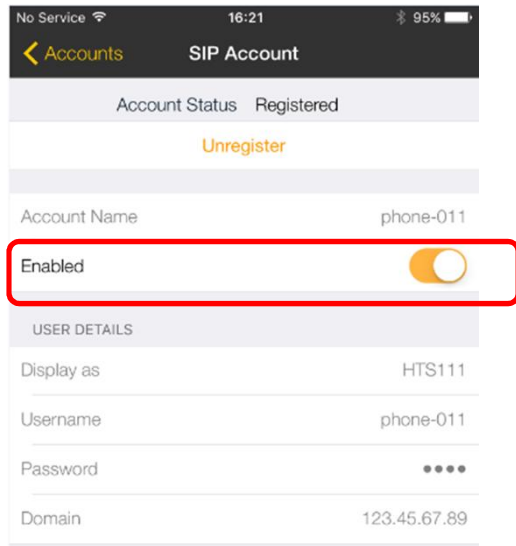
Enable Video

Always Offer Video

Auto Send Video

Auto Speaker On

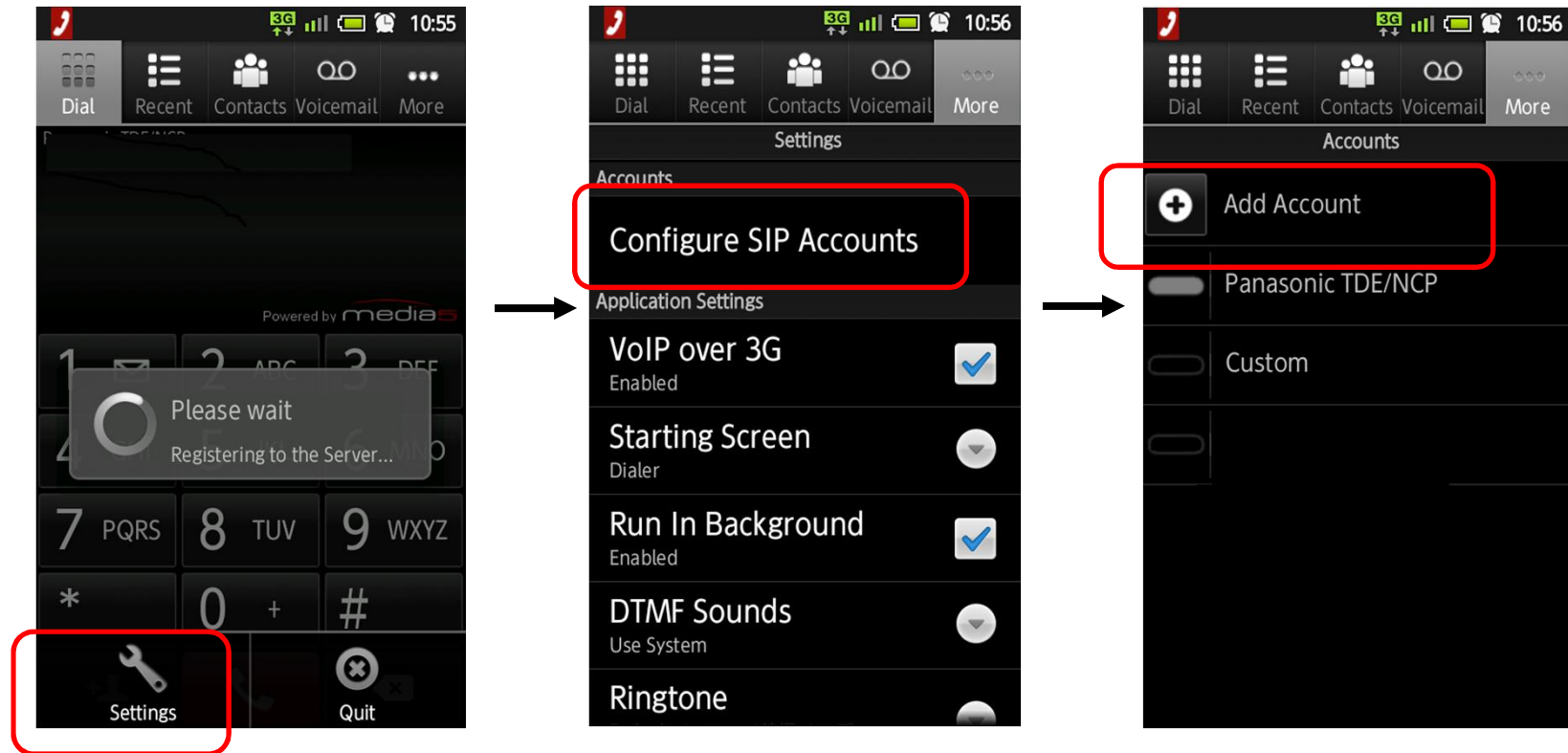
24. Enable Account and Try.



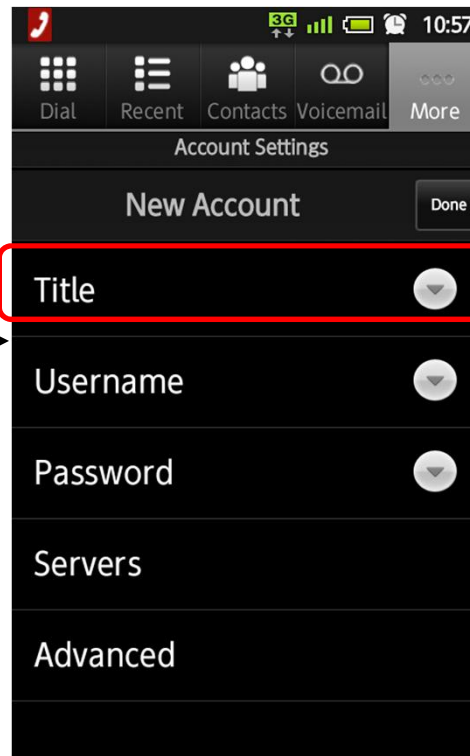
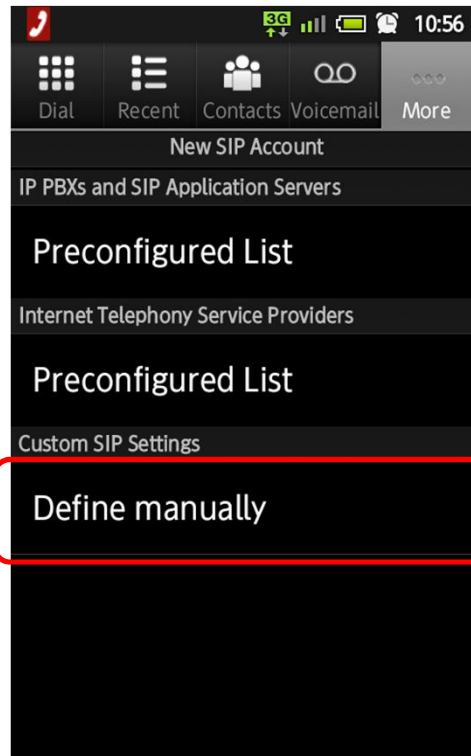
Chapter 3

Media5phone

31. Start Setting.

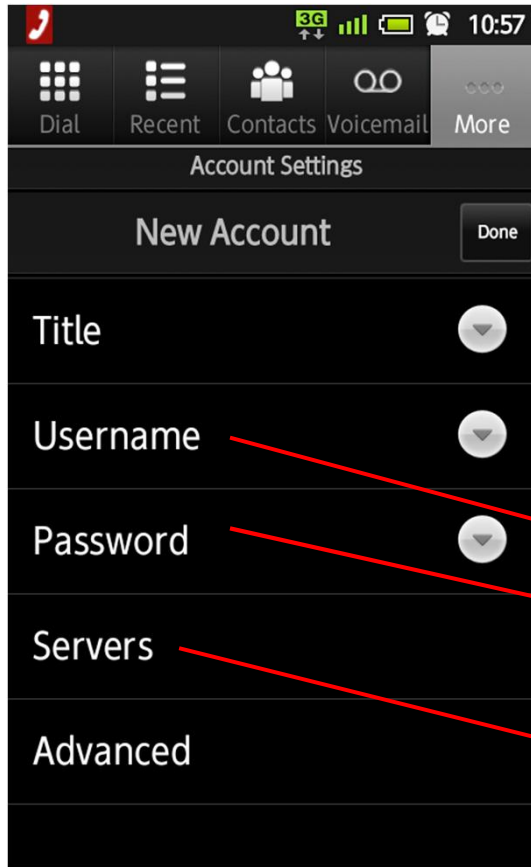


32. Select “Define Manually”.



Reference
“KX-HTS Ext 111”
for example

33. Assign SIP Username and Password.

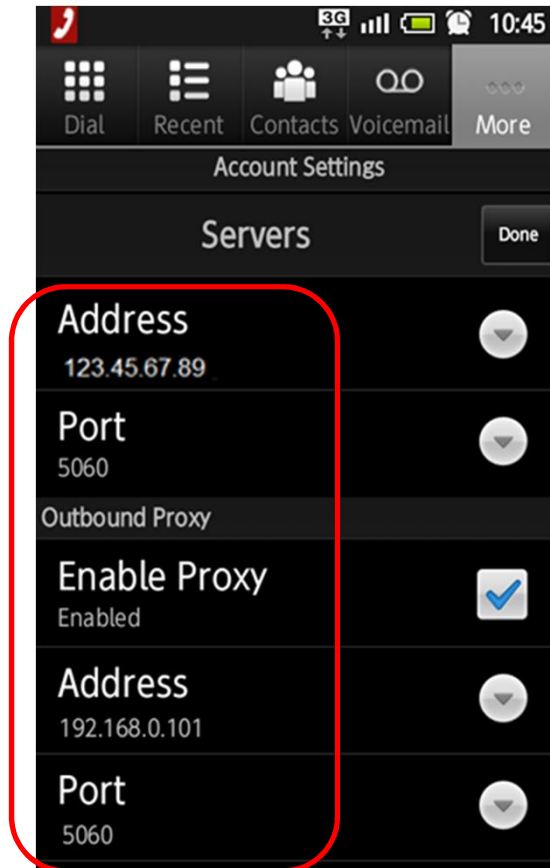


KX-HTS
192.168.0.101 : 5060
Domain : 123.45.67.89
111 : phone-011 : ****
112 : phone 012 : ****

SIP User Name [0-9 a-z A-Z - .]
Registration Password

See next page.

34. Assign PBX destination.



Proxy has to enabled.

123.45.67.89
5060



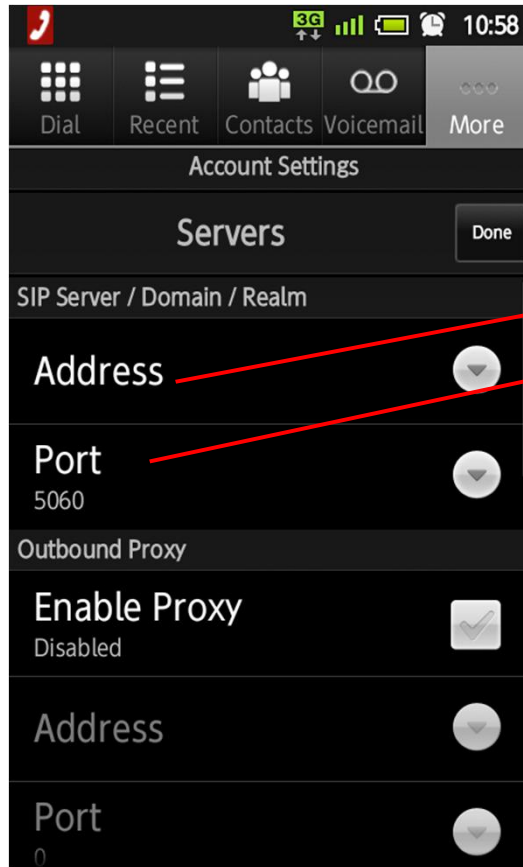
KX-HTS
192.168.0.101 : 5060
Domain : 123.45.67.89
111 : phone-011 : ****
112 : phone 012 : ****

Enable

192.168.0.101
5060

35. Reference

Proxy is not required if SIP domain name is not assigned.



KX-HTS

192.168.0.101 : 5060

Domain : (N/A)

111 : phone-011 : ****

112 : phone 012 : ****

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 SIP software phone.
		First official release
August 5, 2016	16 (Page 10)	Default of SIP port is 5060.
	Chapter 2	Bria was added.