

โพรเฟสชันแนล พี. เอ. บี. เอ็กซ์.

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KX-HTS824BX

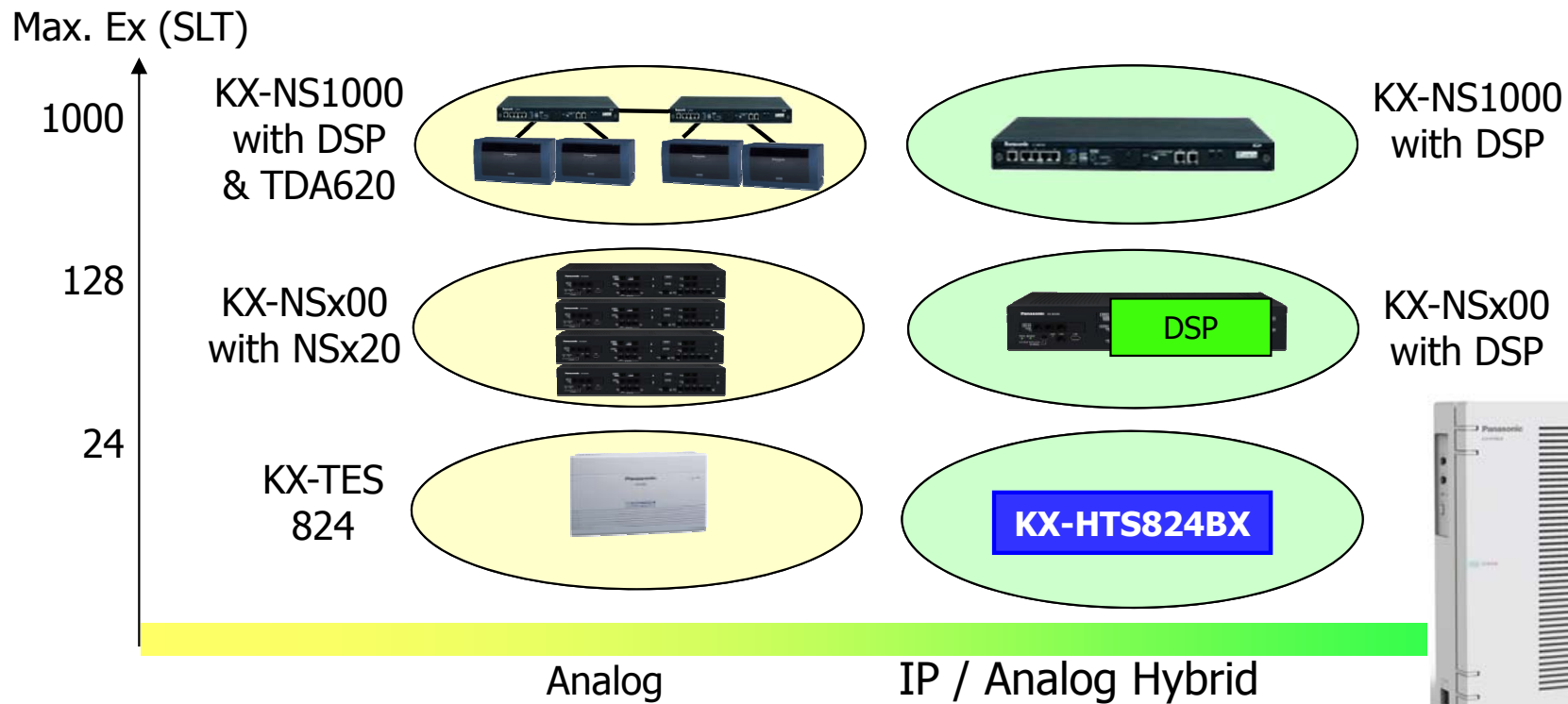
Specifications

September , 2016

Panasonic Siew Sales (Thailand)
Solution Engineer

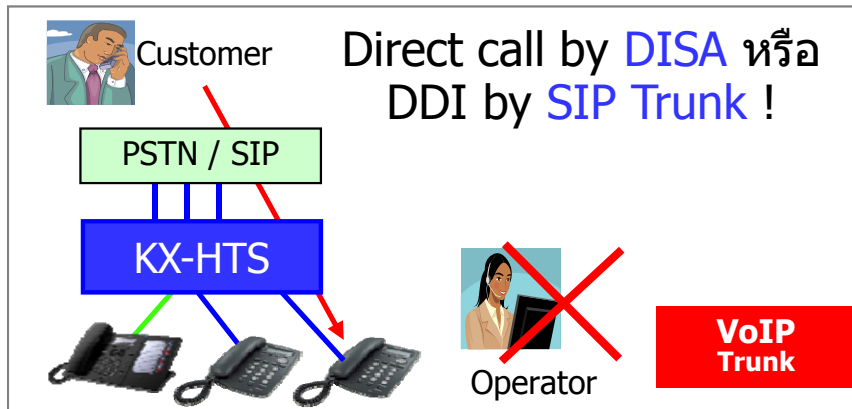
Introduction (PBX Line-up)

KX-HTS824BX ทำงานแบบ Small IP/Analog Hybrid PBX.
 KX-HTS824BX รองรับ 8-สายนอก (Trunk) / 24-สายใน (Extension)

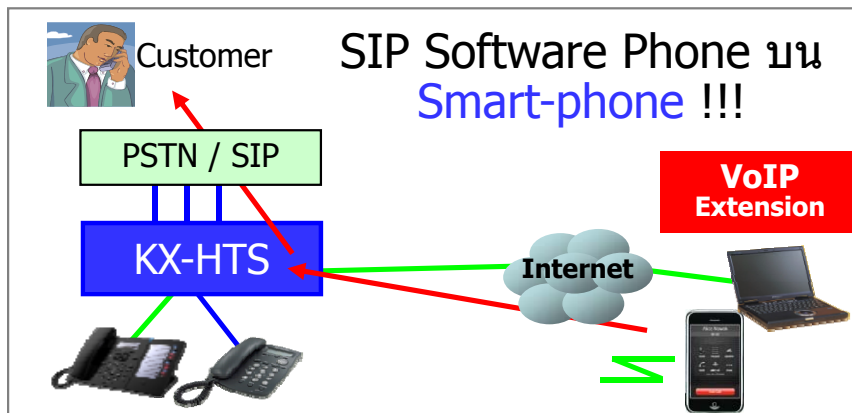
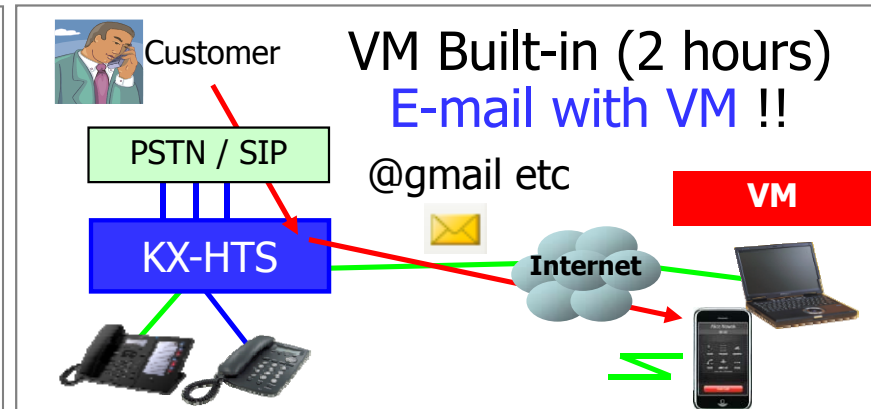


Sales Point (DSP and License Built-in)

สามารถรับสายเรียกเข้าโดยไม่ต้องผ่านพนักงานรับสาย (Operator)

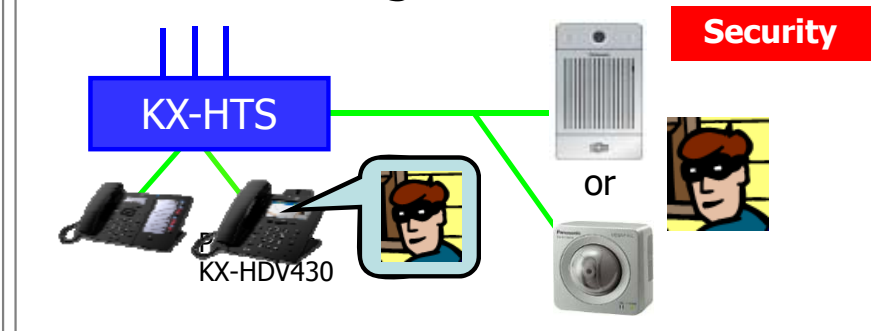


เมื่อคุณไม่อยู่ที่ทำงานก็สามารถรับข้อความจาก Voice Mail ผ่านมาทาง e-mail ได้ตลอดเวลา



สามารถติดต่อสื่อสารได้ตลอดเวลา

IP Camera integration !!!!

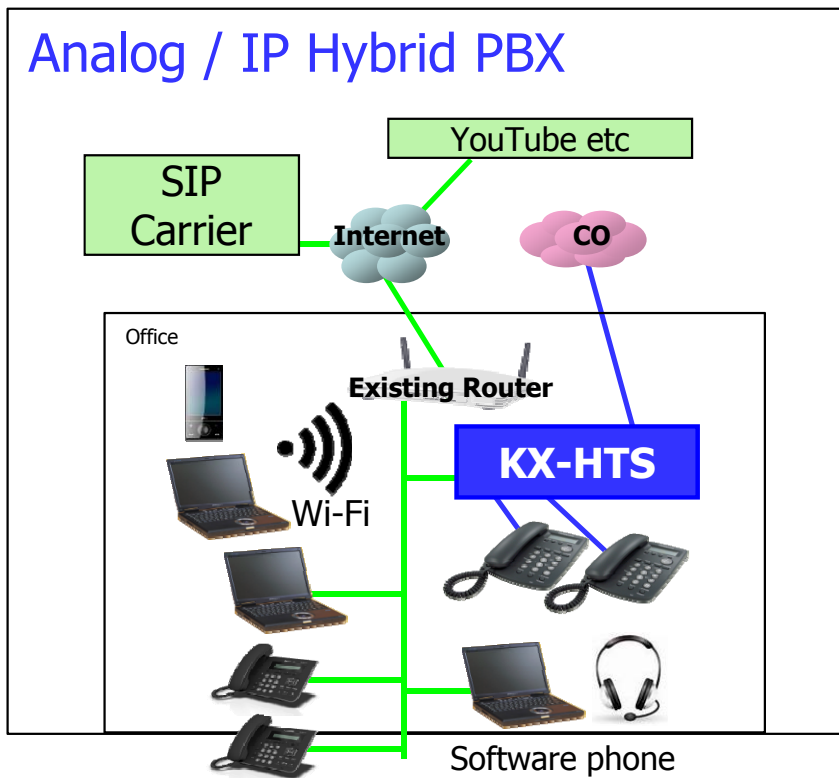


ทำงานทุกอย่างบนสินค้า Panasonic !!!!

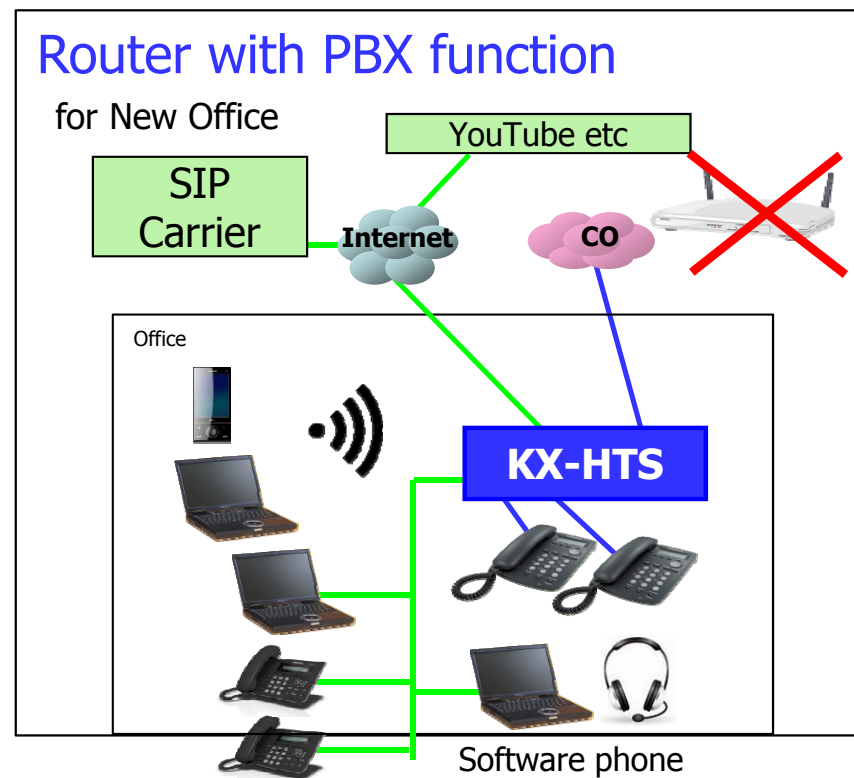
Configuration

Built-in router รองรับการทำงานให้กับ คอมพิวเตอร์ (PC) และ โทรศัพท์มือถือ แบบ Smart-phone เพื่อเข้าสู่ Internet

Analog / IP Hybrid PBX



Router with PBX function



Easy Installation

KX-HTS824BX สามารถติดตั้งได้ง่าย

มีการทำงานแบบ **Plug and Play** สำหรับการใช้งานเบื้องต้น.

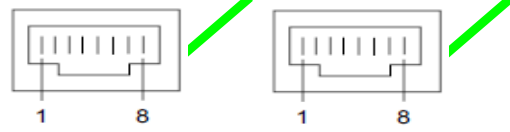
เมื่อทำการ Initialize ระบบจะมีความทำงานพื้นฐานดังนี้

- ทุกสายในสามารถโทรออกผ่านสายนอกแบบอนาล็อกได้ (Analog CO)
- ทุกสายในสามารถรับสายเรียกเข้ามาจาก สายนอกแบบอนาล็อกได้ (Analog CO)

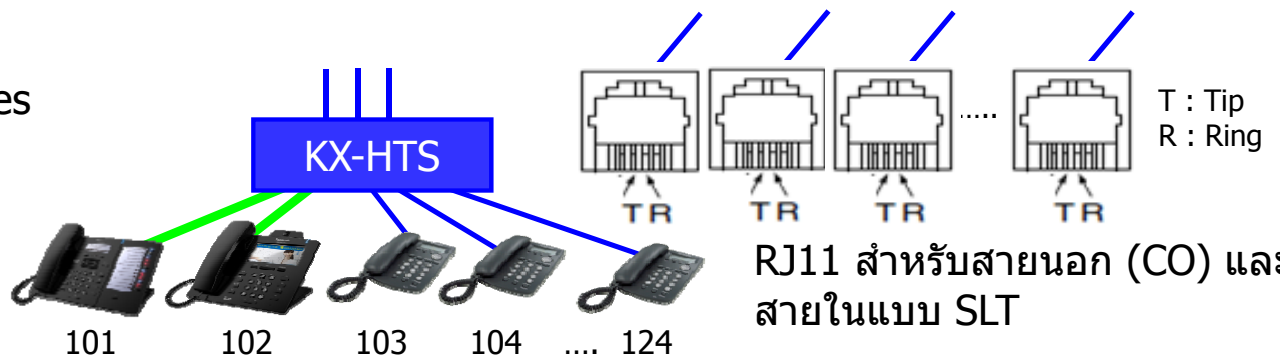
Plug and Play ทำงานร่วมกับ **KX-HDV SIP phone** !

< Easy Cabling >

2 RJ45 สำหรับ 2 KX-HDV phones



ไม่รองรับ PoE



RJ11 สำหรับสายนอก (CO) และสายในแบบ SLT

SLT = Analog Single Line Telephone

Basic Configuration

Main unit

Factory pre-installed hardware.(ระบบพื้นฐานที่มาพร้อมกับ KX-HTS824BX)

- 4 สายนอกแบบ Analog รองรับ caller ID
- 8 สายใน แบบ Analog รองรับ caller ID
- 3 ช่องต่อแบบ RJ45 สำหรับ 2 KX-HDV phones (หรือ L2-Switch) และ WAN
- 4-ch DISA & Voice Mail พร้อม voice guidance (Recording time : 120 min)
- สาย Battery back up รุ่น KX-A227 : เหมือนกันกับ KX-TES824)

KX-HTS
main unit

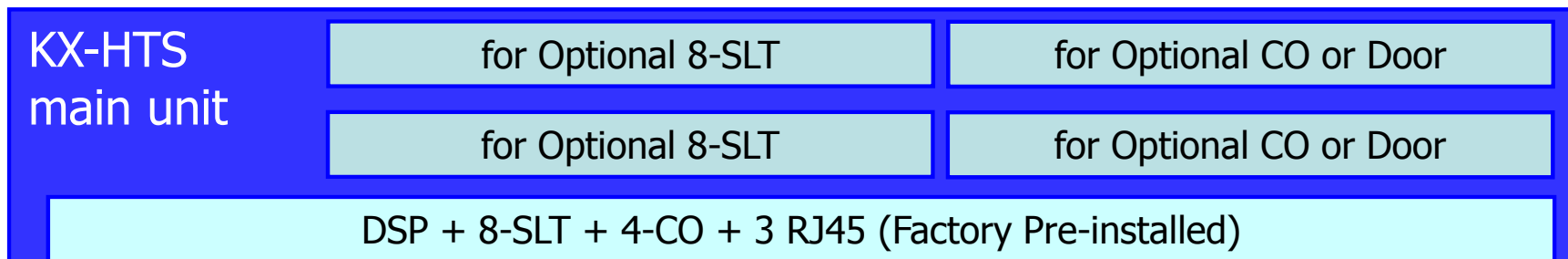
DSP + 8-SLT + 4-CO + 3 RJ45 (Factory Pre-installed)

ไม่พอร์ตสำหรับต่อ BGM แต่สามารถ Copy ไฟล์แบบ wav เข้าไปใน KX-HTS824BX ได้.
ไม่รองรับการทำงานแบบ PFT (Power Failure Transfer)

Optional card

KX-HTS824BX มีการ์ดเพิ่มเติมเพียง 3 รุ่นเท่านั้น
 Activation key (license) ไม่ต้องซื้อเพิ่มเพื่อใช้งาน VM และ SIP.

Model	Symbol	Specification	Max
KX-HTS82460	DPH2	2-port สำหรับ door phone พร้อม door opener	1 card
KX-HTS82470	CSLC8	8-port สำหรับ SLT รองรับ caller ID	2 card
KX-HTS82480	LCOT4	4-port สำหรับ Analog CO รองรับ caller ID	1 card



Door phone = KX-T30865 / KX-T7765

Capacity and Compatibility

ความสามารถของระบบที่ต่อใช้งานได้

Analog CO (DTMF / Pulse)	8	7	6	5	4	3	2	1	0
SIP Trunk : G.711 only	0	1	2	3	4	5	6	6	6
Analog CO (DTMF / Pulse)	8	5	4	3	2	1	0		
SIP Trunk : G.729 (and G.711 mixture)	0	1	2	3	4	4	4		
Analog SLT (DTMF)	24	23	22	21	20	...	2	1	0
KX-HDV/NTV phone									
SIP software phone Bria (Windows PC / Smartphone)	0	1	2	3	4	...	22	23	24

CO และ SLT พอร์ตสามารถ Disble จากโปรแกรมเพื่อให้สามารถใช้ SIP ได้มากขึ้น
Official support สำหรับ 3rd party SIP phone แนะนำ Bria by CounterPath.

<No support>

SLT (Pulse) / PT เช่น KX-T773x / KX-NTxxx / KX-UTxxx / KX-HGTxxx

PT = Proprietary Telephone for other Panasonic PBX such as KX-TDA100

Panasonic KX-HDV SIP Phone Line-up



KX-HDV100 KX-HDV130 KX-HDV230 KX-HDV330 KX-HDV430

	HDV100	HDV130	HDV230	HDV330	HDV430
PoE (IEEE 802.3af)	N/A	Yes (AC adapter is also available.)			
2 nd LAN	N/A	Yes	Yes (GbE = Gigabit Ethernet)		
Flexible key	2	2	12+12	8x3 on LCD	
CO key on Flexible key	N/A	N/A	Yes	N/A	
KX-HDV20	N/A	N/A	Max. 5	Max. 5	
Headset	N/A	N/A	EHS	EHS / BT	



KX-HDV20

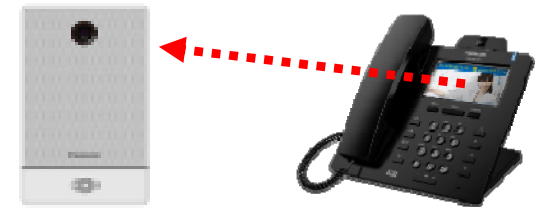
BT = Bluetooth version 2.1 is supported.

KX-HTS PBX software version 1.5 supports CO key.

Panasonic KX-NTV150 / 160 and IP Camera

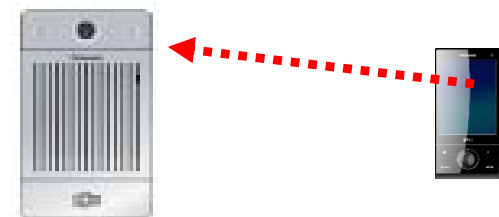
KX-NTV150 : Communication SIP Camera

- PoE / **Wi-Fi**
- Built-in Speaker and Microphone
- Call button



KX-NTV160 : SIP based Video Doorphone

- PoE only
- Built-in Speaker and Microphone
- Call button
- IP-Grade : **IP43**



WV-SC384B



WV-SPN311A



WV-SFN631L



WV-SC385



WV-SW458



Panasonic SLT Phones

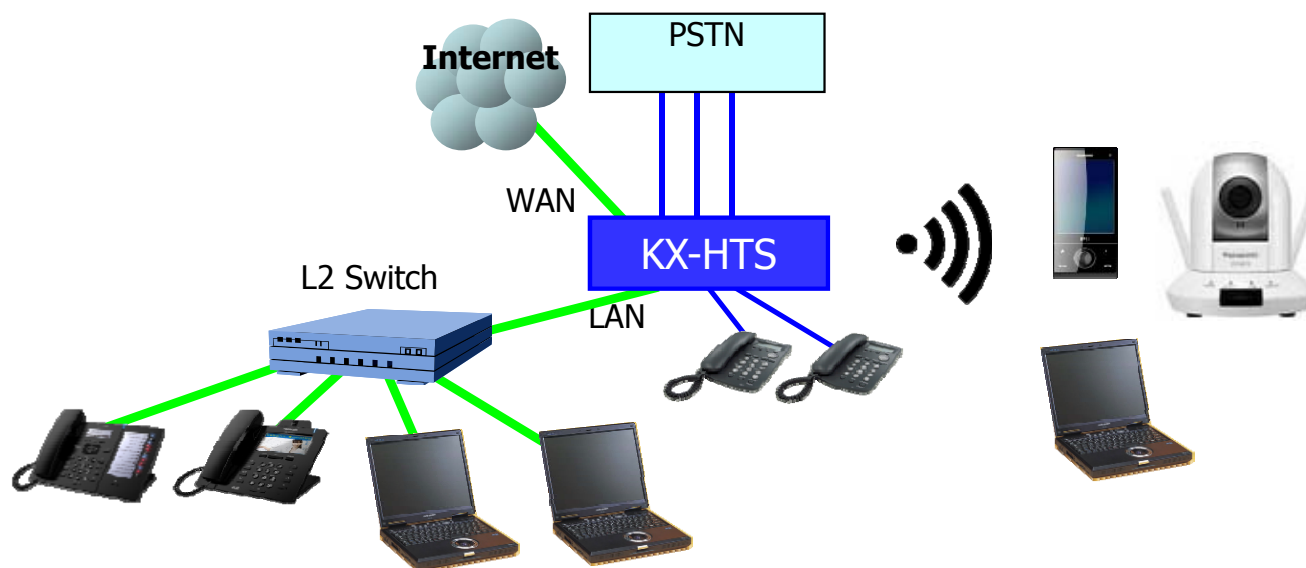
Panasonic มีโทรศัพท์ SLT/CLT มากมายหลายรุ่นให้เลือกใช้งาน โดยสามารถต่อใช้งานได้สูงสุด 24 SLT phones.



Wireless LAN

Specification สำหรับ Wireless LAN รองรับการทำงานดังนี้.

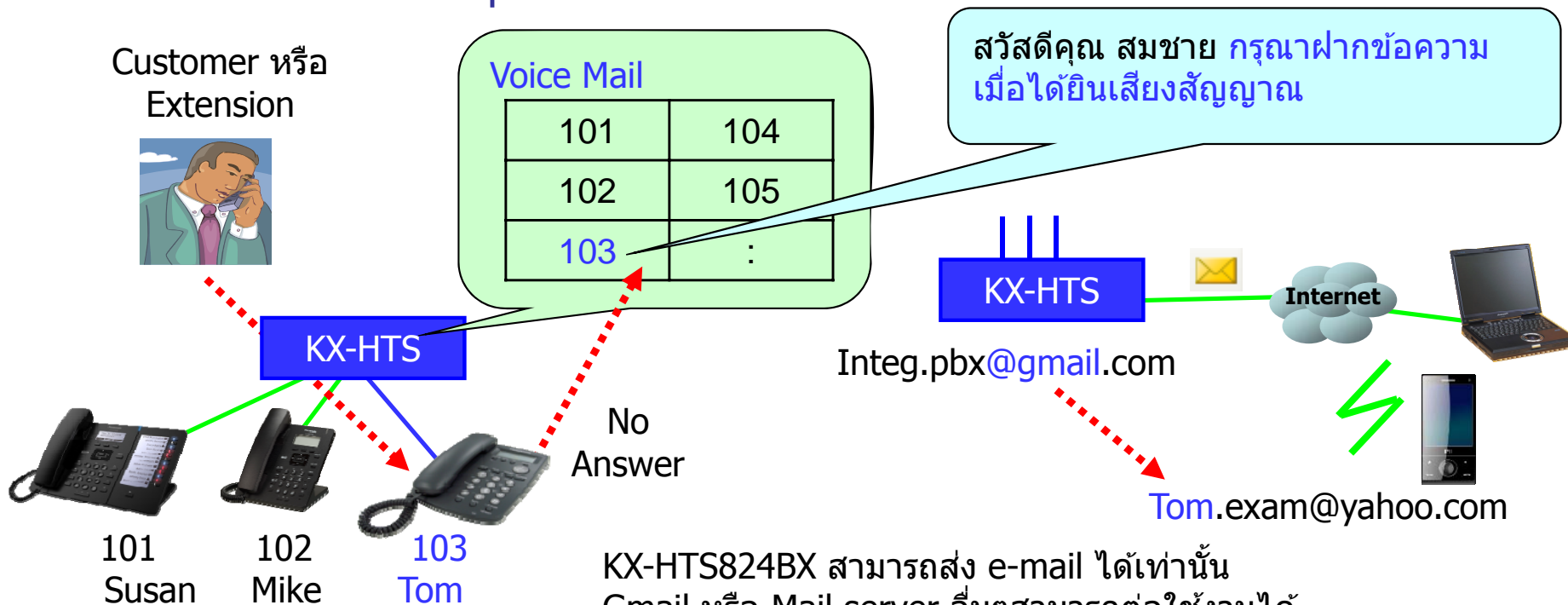
- 2.4G
- QoS feature : IEEE802.11e (WMM)
- 802.11b: 5-6Mbps
- 802.11g: 20Mbps
- 802.11n: 70-80Mbps



IP Features

E-mail with Voice Mail

คุณสามารถรับ Voice message แบบ e-mail โดยใช้คอมพิวเตอร์ (PC) หรือ โทรศัพท์มือถือแบบ Smart-phone ได้ตลอดเวลา

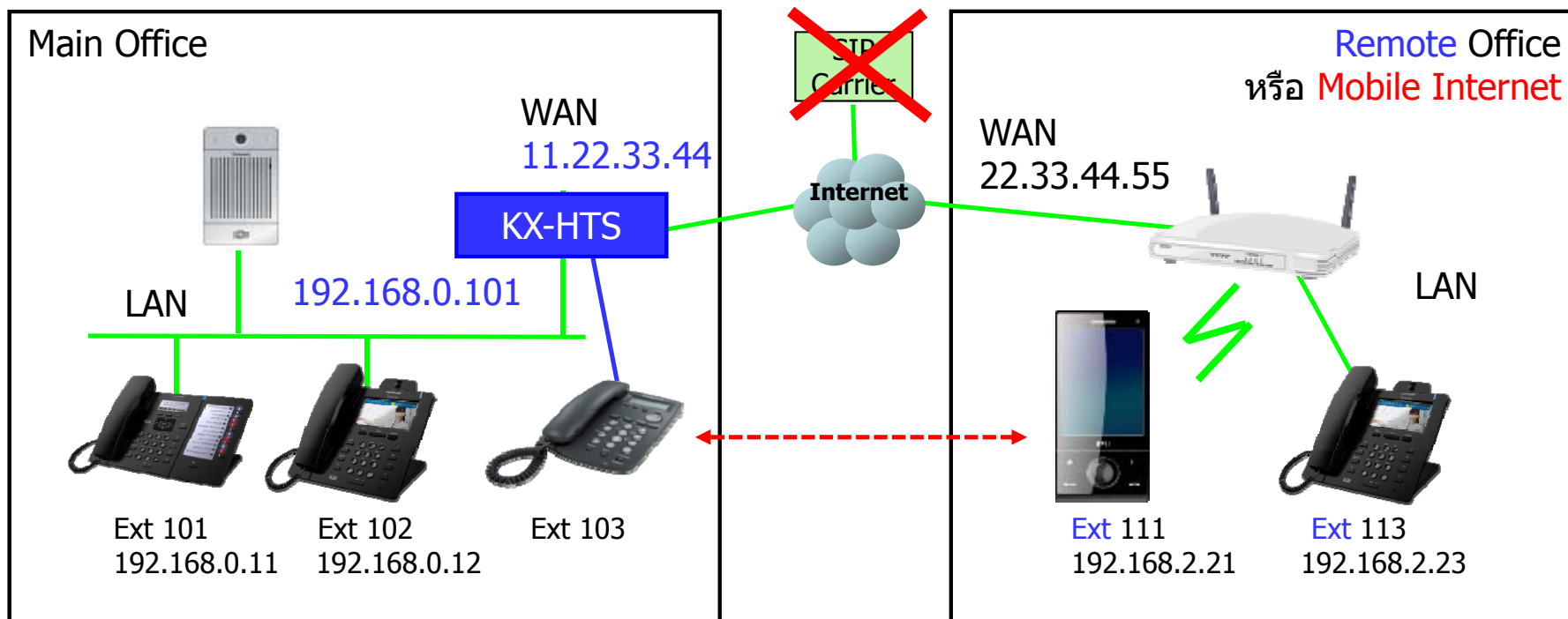


สวัสดีคุณ สมชาย กรุณาฝากข้อความเมื่อได้ยินเสียงสัญญาณ

KX-HTS824BX สามารถส่ง e-mail ได้เท่านั้น Gmail หรือ Mail server อื่นๆสามารถต่อใช้งานได้ แต่สายในสามารถกำหนดปลายทาง e-mail ได้ตามแต่ละสายใน

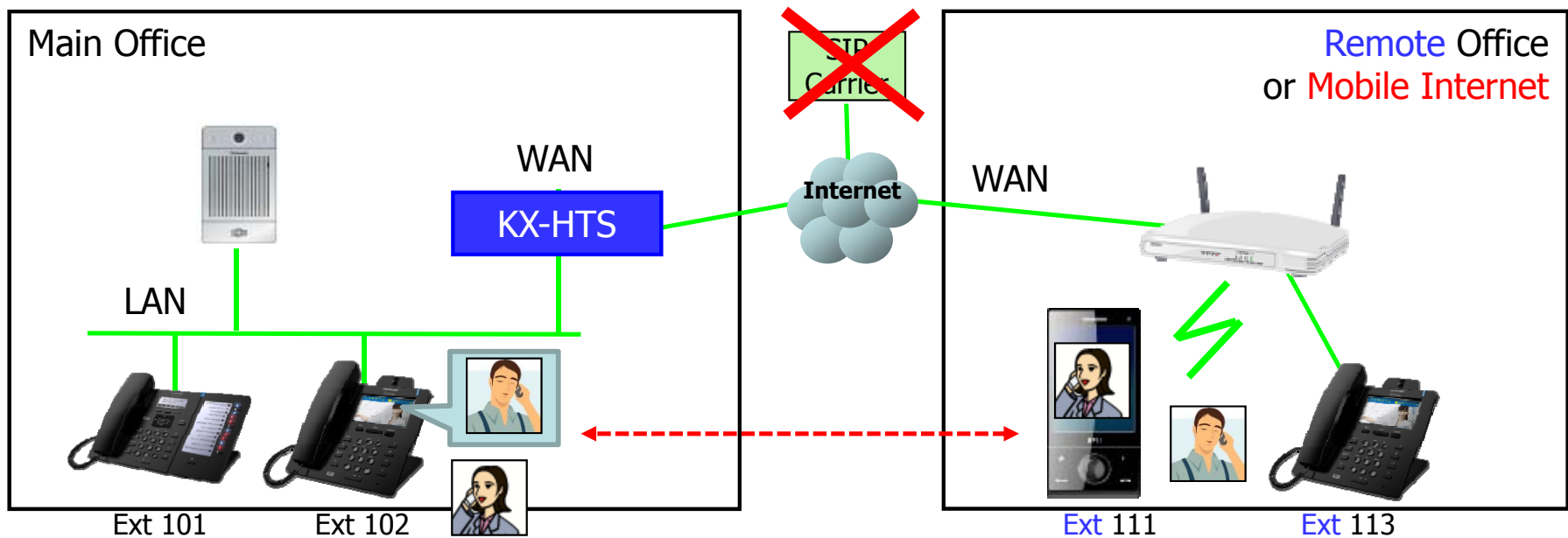
Remote IP Extension

Built-in MRG รองรับการทำงานแบบ Remote IP extension without VPN
KX-HDV phone และ SIP software phone บน Smart-phone / PC.
Maximum concurrent สำหรับ Remote extension is 2. SIP carrier is not required.



Remote IP Extension : Video

Built-in MRG รองรับการทำงานแบบ Remote สำหรับ **Video call**
Bria by CounterPath, KX-HDV430 และ KX-NTV รองรับ **H.264**.
Maximum concurrent call สำหรับ video phone is 2.



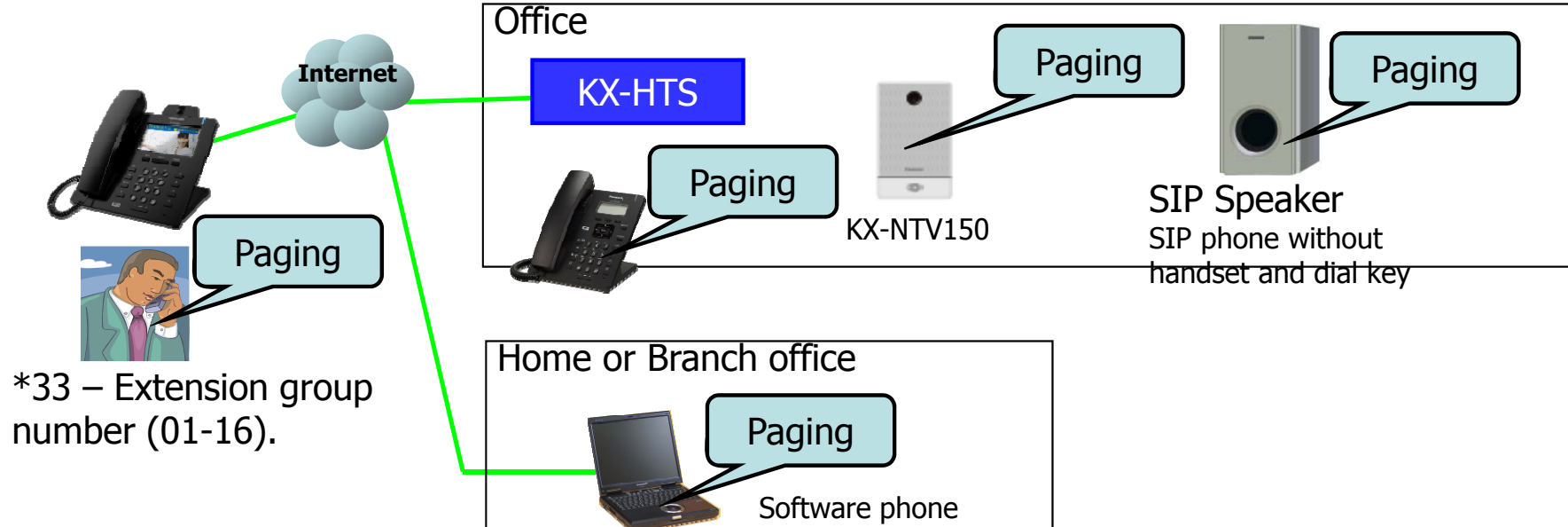
<http://www.counterpath.com/bria/>

X-Lite by CounterPath supports only H.263.

Paging

Paging ไปที่โทรศัพท์ภายในตู้หรือ Remote location สามารถทำงานได้ทั้งคู่

Max. 4 extensions สามารถรองรับการประกาศได้ (Paging). Max. 2 remote สามารถรับการประกาศได้

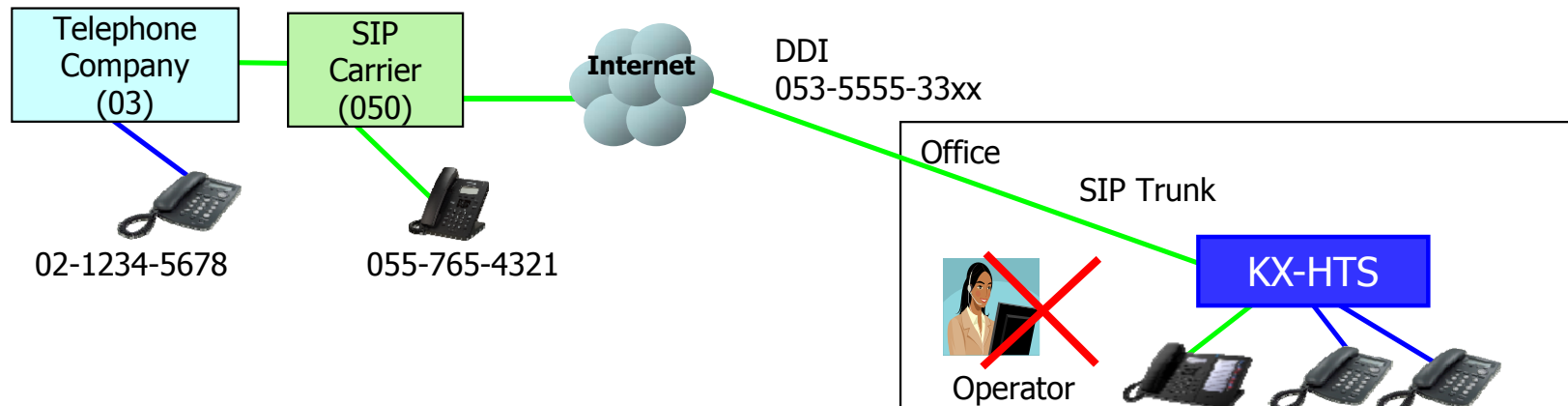


<http://www.2n.cz/en/products/ip-audio-systems/ip-audio-devices/sip-speaker/>

KX-HTS does not support audio port for paging.

SIP Trunk : SIP Carrier

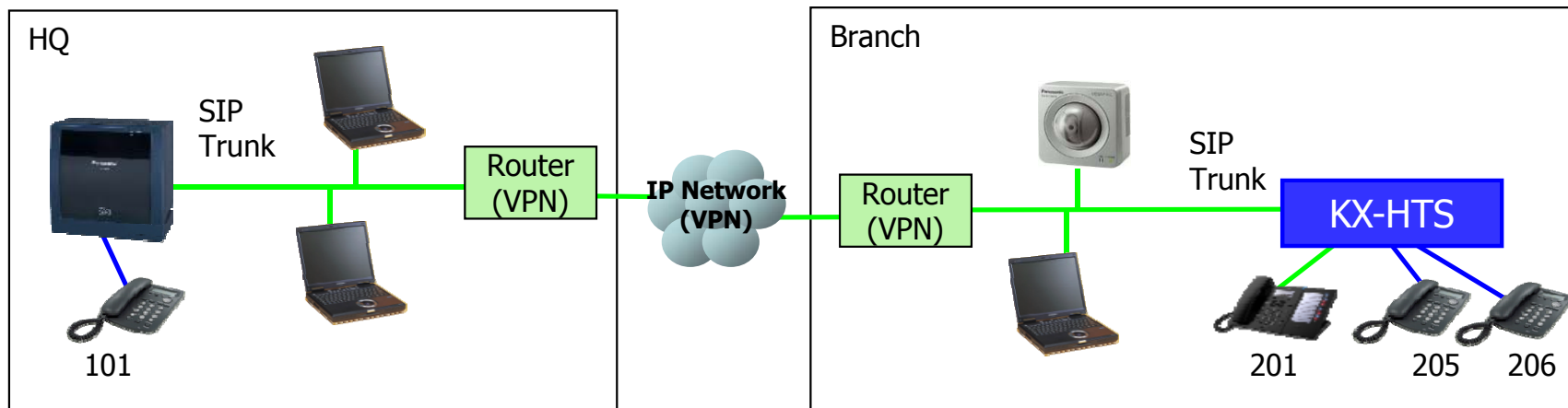
SIP trunk ปัจจุบันนิยมใช้งานมาก
KX-HTS824BX รองรับ 200 DDI numbers จาก 2 SIP carriers.



SIP Trunk : PBX to PBX

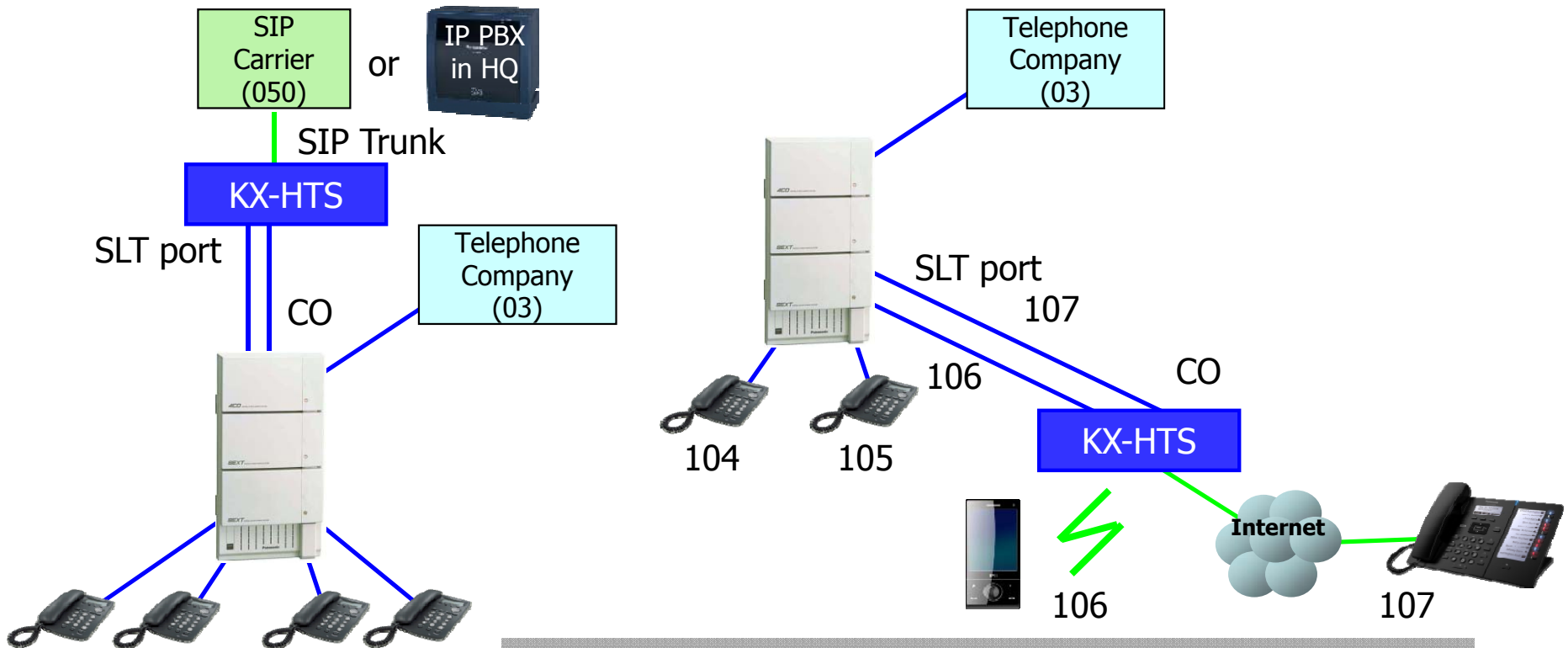
กรณีสำนักงานใหญ่ (HQ) และสำนักงานสาขา (Branch) มีการเชื่อมต่อกับระบบ Network แบบ VPN, เราสามารถเชื่อมต่อ PBX กับ PBX ผ่าน SIP trunk ได้ ทำให้ประหยัดค่าใช้จ่ายในการติดต่อโทรศัพท์ระหว่างสาขา

KX-HTS824BX ไม่รองรับ H.323.



SIP Adapter for Old PBX

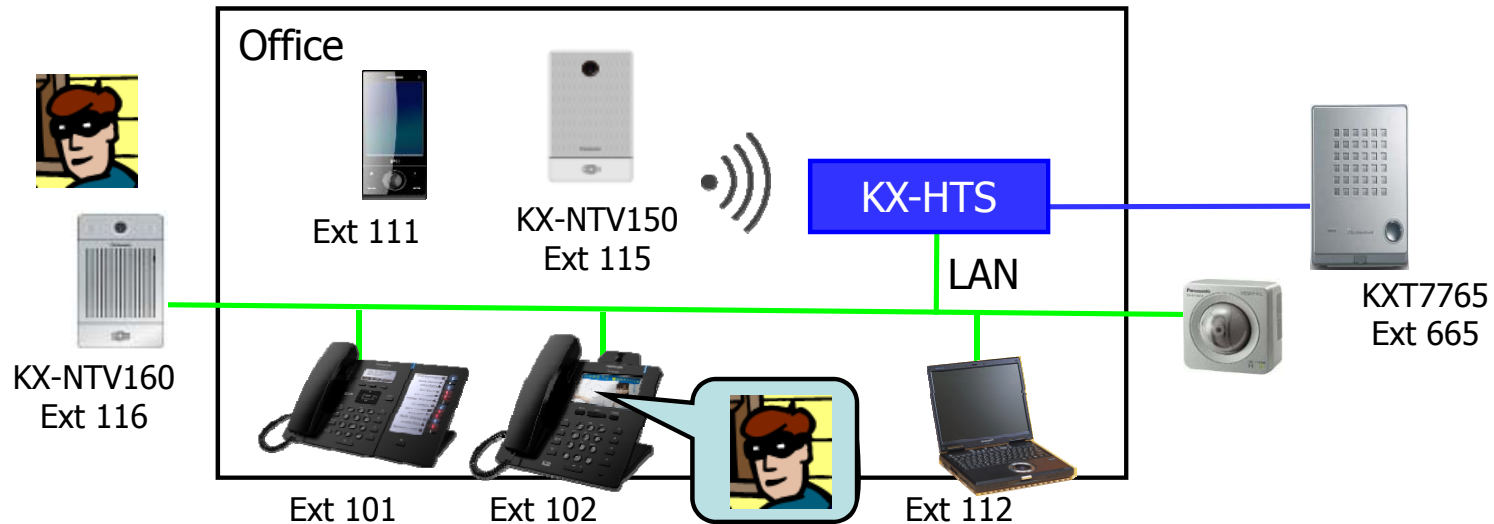
KX-HTS824BX สามารถทำงานเหมือนเป็น SIP ATA ได้



Adapter for SIP extension is not supported.
KX-HTS does not support Flash to CO.
Flash to CO is required for transferring by host PBX.

Security

หน้าจอ LCD ของ KX-HDV430 จะแสดงภาพจาก SIP Door phone หรือ IP Camera ที่กำหนดใช้งานร่วมกับโทรศัพท์หรือ Door Phone ทันทีที่มีการเรียกมาที่เครื่องโทรศัพท์ KX-HDV430



Web Programming

Easy GUI for Programming

คลิกแต่ละพอร์ตเพื่อเลือกการโปรแกรม

The screenshot displays the HTS Web Maintenance Console interface. The browser address bar shows the URL 192.168.0.101/frame_setup.htm. The page title is "HTS Web Maintenance Console 000.00211". The language is set to "English (US)" and there is a "Save & Logout" button. The main content area is titled "PBX Configuration" and features a sidebar with navigation options: "PBX Configuration", "Network Configuration", and "Maintenance". Under "PBX Configuration", there are sub-options: "1.System", "2.Extension", "3.Trunk", "4.TRS/ARS", "5.System Speed Dialing", "6.Conference", and "7.Voice Mail". The main area shows three rows of extension and trunk configuration buttons. The first row has "Extension" buttons for 119-124 and 101-102, and "Doorphone" buttons for 1 and 2. The second row has "Extension" buttons for 111-118 and "Trunk" buttons for 5-8. The third row has "Extension" buttons for 103-110 and "Trunk" buttons for 1-4. A blue "SIP" button is located at the bottom right of the configuration area.

Full PBX Features Setting

Tree	Program	Remark
1. System	Date & Time MOH Week Table Numbering Plan Timers System Options CDR	WAV file download for music on hold Day / Lunch / Break Flexible numbering & 20 quick dial SMDR is provided by CSV format.
2. Extension	Port Phone Flexible Key Extension Group Door phone Analog SLT Property SIP Extension Property	TRS level, CLIP and so on Fwd-DND, mobile number, e-mail address, etc. 16 groups x 24 members Door phone has an floating extension number.

Web is available for extension users also to program his/her ["Phone"](#).

Full PBX Features Setting

Tree	Program	Remark
3. Trunk	Port DIL DDI Caller ID Modify DISA Analog CO Property SIP Trunk Property	200 entries 10 entries 10 messages for AA 2 SIP carriers
4. ARS / TRS	Leading digits ARS Carrier Account code Emergency dial Options	500 entries for TRS deny, TRS exception & ARS 4 carries for dial modification and TRG selection 50 entries for TRS override 10 entries
5. Speed Dial	Speed Dial	200 entries
6. Conference	Meet Me	3 rooms x 6 parties
7. VM	VM	

Basic PBX Features

Software is Asterisk version 1.6 based.
Version 1.6 is not latest but quality is better.
(Not KX-TDA/TDE/NS based or KX-TES824 based)

Making a call

Feature	SLT	KX-HDV
Extension call / Trunk call (Local / Trunk group / Single CO)	Yes	Yes
Flexible numbering / Quick dial / System speed dial	Yes	Yes
Hot line (Pickup dial)	No	Yes
ARS : Automatic Route Selection	Yes	Yes
Extension to Trunk call block	Yes	Yes
TRS : Toll Restriction (Call barring) TRS override by Account code TRS override by Walking COS (= Walking TRS level) TRS override by System speed dial TRS override by Emergency dial (such as 911 in USA)	Yes	Yes
Extension dial lock	Yes	Yes

It is required to access to KX-HDV phone by web to program hot line.

No = KX-HTS does not support this feature for SLT. KX-TES supports this feature for SLT.

Receiving a call

Feature	SLT	KX-HDV
DIL (Day / Lunch / Night) to extension or extension group	Yes	Yes
DISA / DISA-AA / DISA intercept when no dial / DISA to CO	Yes	Yes
DISA to Fax (SLT) for call from Analog CO This feature is N/A for SIP trunk because SIP supports DDI to fax.	Yes	N/A
Receive a call with caller ID and name From CO : FSK and DTMF To SLT : FSK	Yes	Yes
Call routing by caller ID to extension or extension group	Yes	Yes

Caller ID is modified automatically. Modified caller ID is sent to SLT and SIP phone including KX-HDV. This is useful for phone to call back to caller.

Caller name is sent from CO or caller name is decided by speed dial table.

Receive a call

Feature	SLT	KX-HDV
Call waiting for call from extension and call from trunk	No	Yes
Call pick-up : Direct Dial extension number which has a incoming call.	Yes	Yes
Call pick-up : Group Dial Desired group number or dial # to pick up call to my group.	Yes	Yes
Call pick-up deny	Yes	Yes
Fwd (All / Busy / No Answer / Busy & No Answer) to VM / extension / CO	Yes	Yes
Restriction for Fwd to CO	Yes	Yes
DND (Do not disturb)	Yes	Yes

No = KX-HTS does not support this feature for SLT. KX-TES supports this feature for SLT.

Transfer and Hold a call

Feature	SLT	KX-HDV
Transfer to extension or CO with or without announcement	Yes	Yes
Transfer recall	Yes	Yes
DSS key (to call other extension) for KX-HDV all models	N/A	Yes
Hold	Yes	Yes
Hold retrieve by other extension using CO key for KX-HDV230	N/A	V1.5
Park (Flash or transfer + 700 : Park number is announced automatically.)	Yes	Yes
Park retrieve by other extension (Dial Park Number : 701-724.)	Yes	Yes
Make a 3 party conference (V1.0 for IP / V1.5 for Analog CO & SLT also)	V1.5	Yes
Join to meet me conference : 3 rooms x 6 parties : Total 12 parties For example, Room A = 6 / Room B = 3 / Room C = 3 N/A for analog CO because detection for end of call for 2 or more CO is N/A.	V1.5	Yes

KX-NS/NSX PBX does not support DSS key and CO key for KX-HDV phones.

Other features

Feature	SLT	KX-HDV
Call from Door phone / Call to Door phone / Door open	Yes	Yes
Make a paging call to KX-HDV and other SIP phones	Yes	Yes
Receive a paging call	N/A	Yes
Message waiting from built-in VM	N/A	Yes
Phone book on KX-HDV by PBX speed dial	N/A	V1.5
Extension to CO / CO to CO call limitation by timer	Yes	Yes
SMDR	Yes	Yes

- SMDR is transferred to PC using Web-MC manually.
- It is CSV format. It can be displayed by MS Excel.
 - 40,000 calls can be saved in KX-HTS.

PBX Feature Comparison

KX-HTS824BX VS KX-TE Series

KX-HTS824BX กรณีนำไปต่อใช้งานแทน KX-TE Series
จะต้องทำการสอบถามผู้ใช้เรื่องการใช้งานต่างๆที่ต่างจากของเดิม

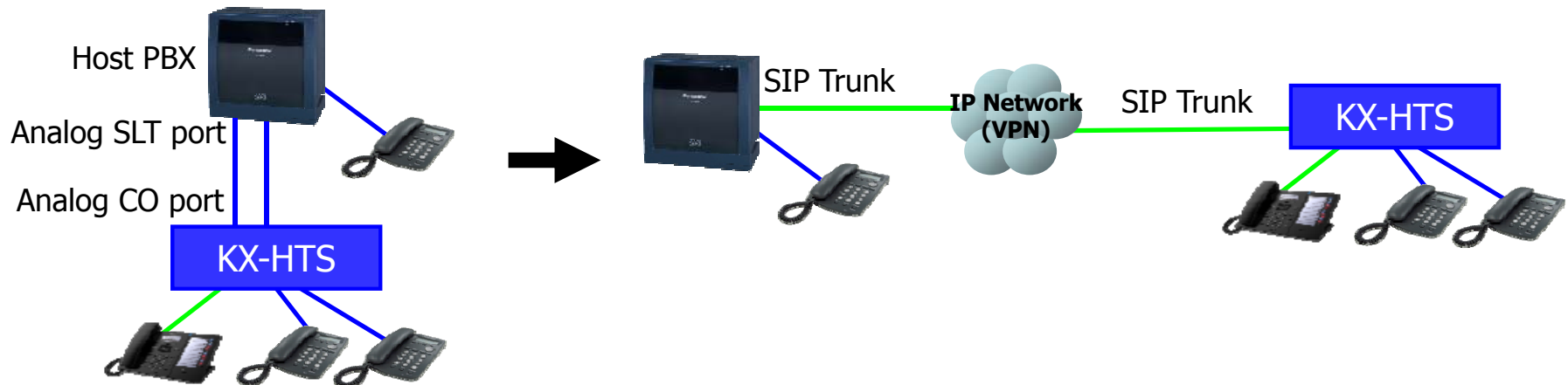
Analog CO (Service by CO)

Feature	Remark	KX-TE	KX-HTS	Check
Visual Call Waiting	Call waiting with caller ID is supported by telephone company in USA.	Yes	No	
VM by Telephone Company	VM is supported by telephone company in USA and HK. MSW of PT is used for this VM service.	Yes	No	
Transfer by Telephone Company	Transfer is supported by telephone company in USA and so on. Flash key of PT is used for this transfer.	Yes	No	

Analog CO (Host PBX)

Feature	Remark	KX-TE	KX-HTS	Check
Transfer by Host PBX	Transfer is supported by Host PBX. Flash key of PT can be used for this transfer.	Yes	No (*1)	

(*1) SIP Trunk connection is recommended instead of Analog CO.
SIP carrier service is not required for this.



Analog CO (Maintenance)

Feature	Remark	KX-TE	KX-HTS	Check
Automatic busy out	When analog CO is disconnected by thunder and so on, the CO is automatically removed from CO access by dialing 0/9.	Yes	No	
Automatic dialing to CO	Automatic dialing to analog CO is available without programming "Dialing plan table".	Yes	No	
Dial tone form CO	When CO button is pressed or dialing 0/9, user can listen to dial tone from telephone company. This is useful to confirm CO connection. This is required for VM service by CO in USA and HK also.	Yes	No	
Restriction for transferring to CO	CO-CO can be disabled . (CO-CO cannot be disconnected by reorder tone from telephone company sometimes.)	Yes	No	

Hotel

Feature	Remark	KX-TE	KX-HTS	Check
KX-T7710 one touch key assignment from PBX	Dealer does not need to program one touch key of phone in each guest room. One touch key 1 to Restaurant One touch key 2 to Travel agency	Yes	No	
Leaving MSW	Operator can leave message waiting without VM.	Yes	No	
Room monitor	Guests can monitor their guest room from telephone in the restaurant and so on.	Yes	No	
Timed reminder (Wake-up call)	Alarm starts at pre programmed time.	Yes	No	

KX-NS PBX is recommended for Hotel.

Small Call Center

Feature	Remark	KX-TE	KX-HTS	Check
Extension Hunting (Circular / Terminate)	Call is distributed to next agent if first agent has an other call.	Yes	No (*1)	
Log-in / Log-out from extension group	Agent of call center can leave desk. Call does not come during log-out.	Yes	No (*2)	
Queuing with Message (BGM)	Caller can listen to company greeting and advertisement during waiting.	Yes	No	
UCD	Call is distributed to agent equally.	Yes	No	
VM (DTMF Integration)	VM made by 3 rd party and PBX by Panasonic can be integrated by DTMF.	Yes	No (*3)	

(*1) Fwd to extension group is supported. (*3) Built-in VM is supported.

(*2) DND works as Log out.

KX-NS PBX is recommended for call center because KX-NS supports CTI.

System Feature

Feature	Remark	KX-TE	KX-HTS	Check
Door bell / Door chime	This is used for residential market in USA.	Yes	No	
Built in call accounting	CA Call Accounting is supported without application.	Yes	No	

[Programming Example]

<Table Selection>

Outside (CO) Line No.	Table No.
1	1
2	
(Cont.)	
:	
:	

<Time Table>

		Time Table 1											
Week		12	1	2	3	4	5	6	7	8	9	10	11
Sunday	AM	E	E	E	O	O	O	O	O	O	O	O	O
	PM	O	O	O	E	E	E	P	P	P	P	P	P
Monday	AM	E	E	E	P	P	O	O	O	O	O	O	O
	PM	E	E	E	E	P	P	P	P	P	P	P	P
(Cont.)	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:
Saturday	AM	E	E	E	E	E	E	E	E	E	E	E	E
	PM	E	E	E	E	E	E	E	E	E	E	E	E

P: Peak O: Off Peak E: Economy

<Call Charge Table>

Location No.	Leading No.	Call Charge Table 1					
		Peak		Off Peak		Economy	
		Flat Charge and Duration	Unit Charge and Duration	Flat Charge and Duration	Unit Charge and Duration	Flat Charge and Duration	Unit Charge and Duration
00	013	70 / 60 s	40 / 30 s	50 / 60 s	30 / 30 s	40 / 60 s	25 / 30 s
01	012						
02	02						
03	03	100 / 180 s	50 / 30 s	20 / 40 s	10 / 50 s	20 / 40 s	10 / 60 s
(Cont.)	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:
99	099	100 / 180 s	50 / 30 s	20 / 40 s	10 / 50 s	20 / 40 s	10 / 60 s

Call Log Printout for Each Extension:

```

*****
*           103 : Tony Viola           *
*****
Starting Date   : Dec.29.05 07:00PM**
Present Date    : Dec.31.05 09:00PM

Date   Time   Ext. CO      Dial number      Duration      Charge      Code
-----
12/31/05 *12:52PM 103 05  123456789012345678901234  00:00'16"    0.04 EUR    ....
12/31/05  1:04PM 103 08  092...1438                    00:00'06"    0.02 EUR    4538
12/31/05  1:08PM 103 01  092123456789                    00:00'08"    0.02 EUR    ....
12/31/05  1:07PM 103 01  0921234567                    00:11'00"    0.55 EUR    .13
12/31/05  2:15PM 103 01  0921234567                    00:11'00"    0.55 EUR    .101
12/31/05  2:28PM 103 01  F/0927654321                    00:03'00"    0.15 EUR    .101


Total                                     1.33 EUR
    
```

Operator Feature

Feature	Remark	KX-TE	KX-HTS	Check
Automatic call back busy	Operator can listen to busy tone if transferred destination has an other call. Operator can decide “wait call back” by dialing 6 or “send call waiting tone” by dialing 1 or 2 during listening to busy tone.	Yes	No	
BSS (Manal Call Waiting)		Yes	No (*1)	
Call pickup for TAM	Operator can pick up a call even after TAM on SLT port answers the call.	Yes	No	
DND Override	Operator (Secretary) can call boss even if boss sets DND.	Yes	No	
Paging Answer	Operator can transfer a call using paging and answering paging call (instead of calling extension).	Yes	No	
Transfer by Paging		Yes	No	

(*1) When call waiting mode is assigned to SIP phone including KX-HDV, call waiting tone starts automatically. Caller listens to ringback tone instead of busy tone. **Automatic call waiting is not supported to SLT.**

PT Feature

Feature	Remark	KX-TE (PT)	KX-HTS (HDV)	Check
Absent message	“Gone Home” and so on can be assigned. When other extension calls this extension, absent message is displayed.	Yes	No	
Caller ID after call pickup	Caller name and number can be displayed when PT users answers the call to other extension.	Yes	No	
CO line number	CO line number is displayed on LCD when talking to CO.	Yes	No	
Distinctive LED	Red for trunk call and green for extension call are available. 	Yes	No	
Fwd status	Fwd status can be confirmed by LCD.	Yes	No (*1)	
Voice Call / OHCA	PT can be called by voice of extension caller instead of ringing tone.	Yes	No	

(*1) Fwd status can be confirmed using web.

Flexible Key

KX-T773xx in KX-TE supports following keys.
KX-HDV in KX-HTS does not support these keys.

Night	Used to change the time service mode to night mode (→ 2.2.3 Time Service).
Lunch	Used to change the time service mode to lunch mode (→ 2.2.3 Time Service).
Extension Lock	Used to remotely lock or unlock another extension (→ 1.8.4 Extension Lock).
2-way Record	Used to record a conversation into the user's own mailbox (→ 1.19.1 Voice Mail APT Integration).
2-way Transfer	Used to record a conversation into the mailbox of a specified extension (→ 1.19.1 Voice Mail APT Integration).
Live Call Screening (LCS)	Used to listen while a caller is leaving a message in the user's voice mailbox and, if desired, intercept the call (→ 1.19.1 Voice Mail APT Integration).
LCS Cancel	Used to stop monitoring the user's own voice mailbox while a caller is leaving a message, or stop the alert tone heard in private mode while a caller is leaving a message (→ 1.19.1 Voice Mail APT Integration).
Voice Mail (VM) Transfer	Used to transfer a call to the mailbox of a specified extension (→ 1.19.1 Voice Mail APT Integration).

1 Flexible Key

KX-T773xx in KX-TE supports following keys.
KX-HDV in KX-HTS does not support these keys.

Button	Function
Group-CO (G-CO)	Used to access an idle outside (CO) line in a specified outside (CO) line group for making calls. Incoming calls from outside (CO) lines in the assigned outside (CO) line group arrive at this button (→ 1.5.3.3 Outside (CO) Line Access).
Other-CO (O-CO)	Used to access an idle outside (CO) line for making calls. Incoming calls from the assigned outside (CO) lines, which are not assigned to S-CO or G-CO buttons, arrive at this button (→ 1.5.3.3 Outside (CO) Line Access).
Button	Function
Message for Another Extension	Used to access messages (except Built-in Voice Message [BV] messages) left for another extension or voice messages stored in another extension's Voice Processing System (VPS) mailbox (→ 1.17.1 Message Waiting).
Save	Used to store a telephone number while in a conversation with an outside party or while hearing a busy tone, and then easily redial the number later (→ 1.6.1.4 Redial).

KX-HDV230 supports CO, DSS and one touch dial key only.
Other KX-HDV supports DSS and one touch dial key only.

Other Extension Feature

Feature	Remark	KX-TE	KX-HTS	Check
Automatic call waiting	When extension receives a call during talking, the extension listens to CW tone. Caller can wait and listens to ring back tone.	PT : Yes SLT : Yes	HDV : Yes SLT : No	
Distinctive dial tone for SLT	When VM is left, SLT user can know it by special dial tone.	Yes	No (*1)	
Executive busy override	Manager can join to conversation forcedly. (Call Monitor)	Yes	No	
Follow me	It is possible to assign call Fwd from your phone to phone in meeting room, when you are in meeting room.	Yes	No (*2)	
Hot line	Extension calls preprogrammed destination by off hook only.	PT : Yes SLT : Yes	HDV : Yes SLT : No	

(*1) E-mail with VM can be sent automatically.

MSW LED is available for KX-HDV.

(*2) Fwd is assigned easily using web from anywhere.

KX-HTS824BX

Feature List

Feature List

หน้าที่การทำงาน	หมายเลขใช้งาน
การโทรออกสายนอกแบบกดเลข "9"	9 + เลขหมายปลายทาง
การโทรออกแบบเจาะจงสายนอก	80 + ตำแหน่งสายนอก (0-8) + เลขหมายปลายทาง
การโทรออกแบบเจาะจงกลุ่มสายนอก	8# + ตำแหน่งกลุ่มสายนอก (0-8) + เลขหมายปลายทาง
การโทรออกผ่าน System Speed Dialing (SSD)	** + ตำแหน่ง SSD (000-199)
การประกาศ (Paging)	*33 + กลุ่มสายใน (01-16) + ประกาศเสียงไปที่โทรศัพท์
การรับสายแทนแบบเจาะจงกลุ่มสายใน (Group Call Pickup)	*40 + กลุ่มสายใน (01-16) + สนทนา
การรับสายแทนในกลุ่มสายในตัวเอง (Group Call Pickup)	*40 + # + สนทนา
การรับสายแทนแบบเจาะจงสายใน (Directed Call Pickup)	*41 + หมายเลขสายใน + สนทนา

Feature List

หน้าที่การทำงาน	หมายเลขใช้งาน
Extension PIN Set	*799 + 1 + PIN # +PIN #
Extension PIN Cancel	*799 + 0 + PIN #
Extension Dial Lock Set - การล็อค เครื่องโทรศัพท์	*77 + 1
Extension Dial Lock Cancel	*77 + 0 + Extension PIN
Walking COS- การเปลี่ยนระดับการโทรออก	*47 + หมายเลขสายใน + Extension PIN + 9 + เลขหมาย โทรศัพท์ปลายทาง
Account Code	*47* + Account Code + 9 + เลขหมายโทรศัพท์ปลายทาง
Call Park	7 + 00
Call Park Retrieve	7 + Call area number (01-24) + สนนทนา
Door Open	*55 + ตำแหน่ง Door Phone (1-2)

Feature List

หน้าที่การทำงาน	หมายเลขใช้งาน
Time Service Day/Lunch/Night Switch	*7800 (Day Mode) + มีเสียงพูด "Day" *7801 (Night Mode) + มีเสียงพูด "Night" *7802 (Lunch Mode) + มีเสียงพูด "Lunch"
Time Service Confirm – ตรวจสอบโหมดปัจจุบัน	*780# มีเสียงพูด "Day" หรือ "Night" หรือ "Lunch"
OGM Recording – บันทึกข้อความตอบรับของบริษัท	*36 + 1 + หมายเลข OGM(501-510) + บันทึกเสียง + วางหูโทรศัพท์
OGM Playback – ฟังข้อความตอบรับ	*36 + 2 + หมายเลข OGM(501-510) + ฟังเสียง + วางหูโทรศัพท์
OGM Clear – การลบข้อความตอบรับ	*36 + 0 + หมายเลข OGM (501-510) + วางหูโทรศัพท์
Trunk Attribution – การเปิดใช้สายนอก	*# + 1234 + # +400 +# + สายนอก(1-8) + # + 1 + #
การปิดการใช้สายนอก	*# + 1234 + # +400 +# + สายนอก(1-8) + # + 0 + #
การกำหนดสายนอกแบบ "DTMF"	*# + 1234 + # +410 +# + สายนอก(1-8) + # + 0 + #

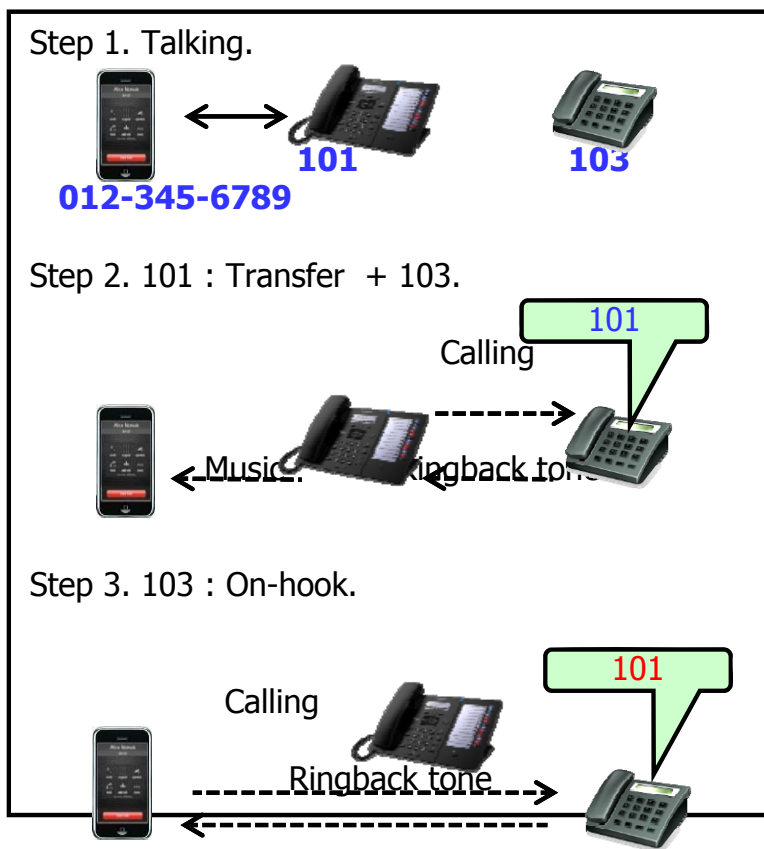
Feature List

หน้าที่การทำงาน	หมายเลขใช้งาน
DND Set - การตั้งห้ามรบกวน	*710 + 1
DND Cancel - การยกเลิกการตั้งห้ามรบกวน	*710 + 0
Forwarding แบบ All Calls (ทุกกรณี)	*710 + 2 + หมายเลขปลายทาง
Forwarding แบบ Busy On (กรณีสายไม่ว่าง)	*710 + 3 + หมายเลขปลายทาง
Forwarding แบบ No Answer (กรณีไม่มีผู้รับสาย)	*710 + 4 + หมายเลขปลายทาง
Forwarding แบบ Busy/No Answer (กรณีไม่ว่างและไม่มีผู้รับสาย)	*710 + 5 + หมายเลขปลายทาง
Forwarding Cancel	*710 + 0

Operation for Extension User

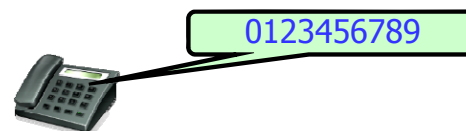
This chapter explains difference of operation from KX-TES and KX-NS PBX. Feature manual is useful for more details.

Caller ID for Transferred Call



When SIP phone including KX-HDV transfers a call using usual **Transfer key** to an other extension, the **extension number is displayed** as caller ID on LCD of the other extension, even after operator leaves a call **for unattended transfer**.

When SIP phone including KX-HDV transfers a call using **Blind Transfer Key**, caller ID of held party (012-345-6789) is displayed.



Conference by SLT

Step 1. Talking.



Step 2. 103 : Flash + Call 3rd party.
3rd party : Answer.



Step 3. 103 : Flash to start conference.



Step 4. 103 : Flash again to retrieve held call.



SLT user can start a conference by only Flash after calling 3rd party.

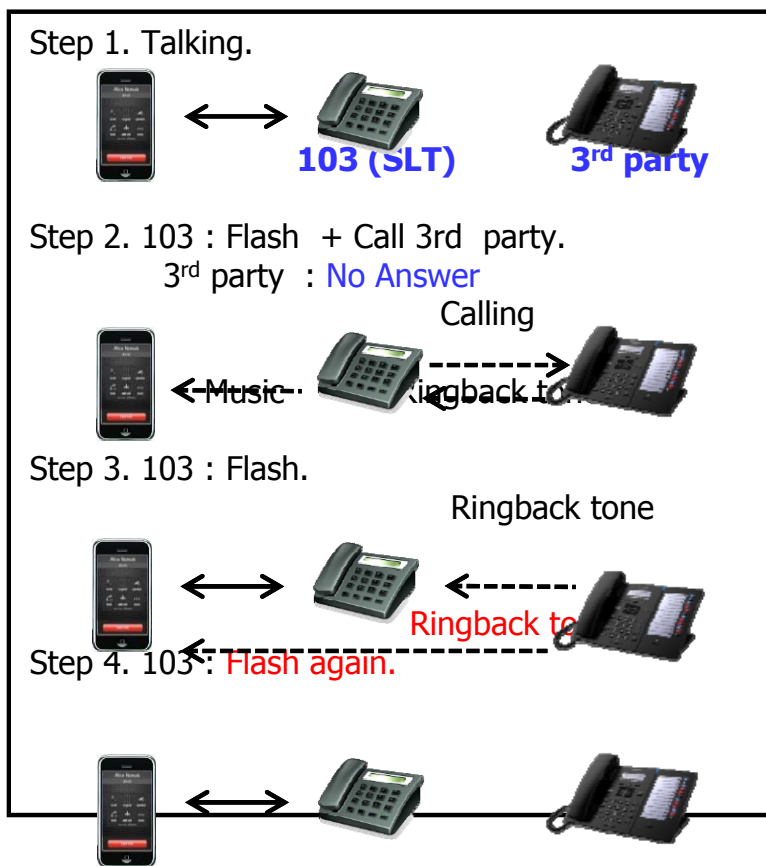
Held call is retrieved by Flash twice.

SLT user cannot use call splitting for transfer. SIP phone including KX-HDV can do it.

If 103 leaves a call (On-hook) at step 2 or step 3, call is transferred.



Retrieve a held call by SLT



A held call is retrieved by **Flash twice** even when 3rd party does not answer the call.

Ringback tone is also sent after 1st Flash.
Usually Flash is pressed twice quickly.

Held call can be retrieved by **Flash once** before 3rd party is called.
(No need Flash twice)

KX-HDV can retrieve a held call by one operation always.

Other SIP phone also can do it usually.

Other PBX Features


CO Access without dial 9/0

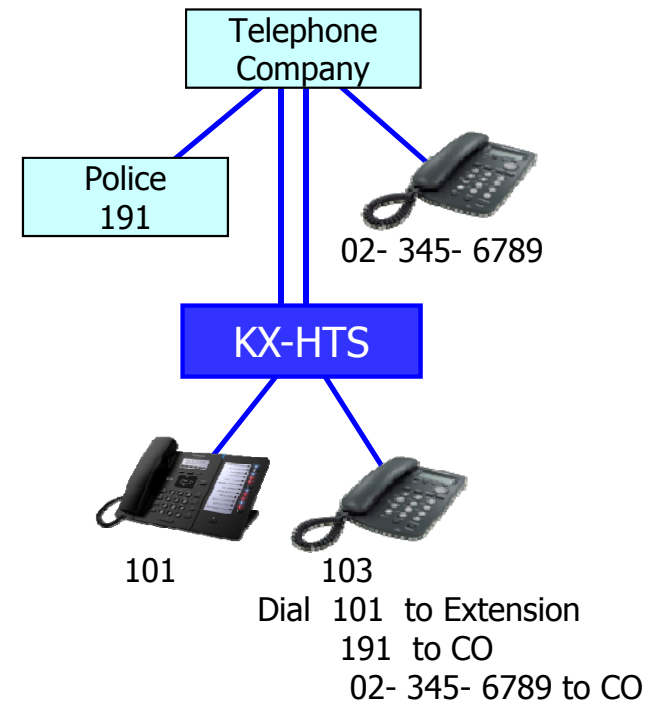
KX-HTS824BX รองรับการทำงานแบบโทรออกสายนอกโดยไม่กดเลข 9/0 ก่อน?

โดยสามารถทำได้โดยกำหนดเงื่อนไขดังนี้

- ไม่มีการโปรแกรม Local CO access number .
- หมายเลขโทรออกไม่ซ้ำกับหมายเลขสายใน
- 1st digit of dialed number ไม่ใช่ "*" .
- หมายเลขโทรออกไม่ซ้ำกับหมายเลข Feature ต่างๆ

Trunk Line / Trunk Group	8
Idle Line Access (Local Access) - 1	9
Idle Line Access (Local Access) - 2	0





Concurrent Call

KX-HTS824BX limited concurrent call

- Call โดย remote SIP extension : 2

- Video call : 2

- Total call : 12

ตัวอย่าง, <8 calls จาก extension ไปที่ 8 trunk by 8 > และ <4 calls สำหรับ extension สนนากับ extension

Concurrent Call

At least one trunk is assigned to G.729.	At least one extension enables both video call and remote feature.	Concurrent Call
No. All trunks are Analog or G.711 SIP.	No	12
	Yes	10
Yes (Max. 4 SIP trunk + 2 Analog CO.)	No	10
	Yes	8

Phone Location Local Remote

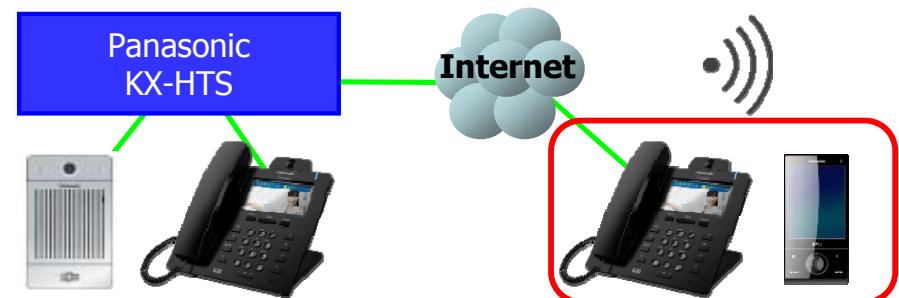
Alive Check Enable Disable

Alive Check - Interval 60 (seconds)

Packet Sampling Time 20 (ms)

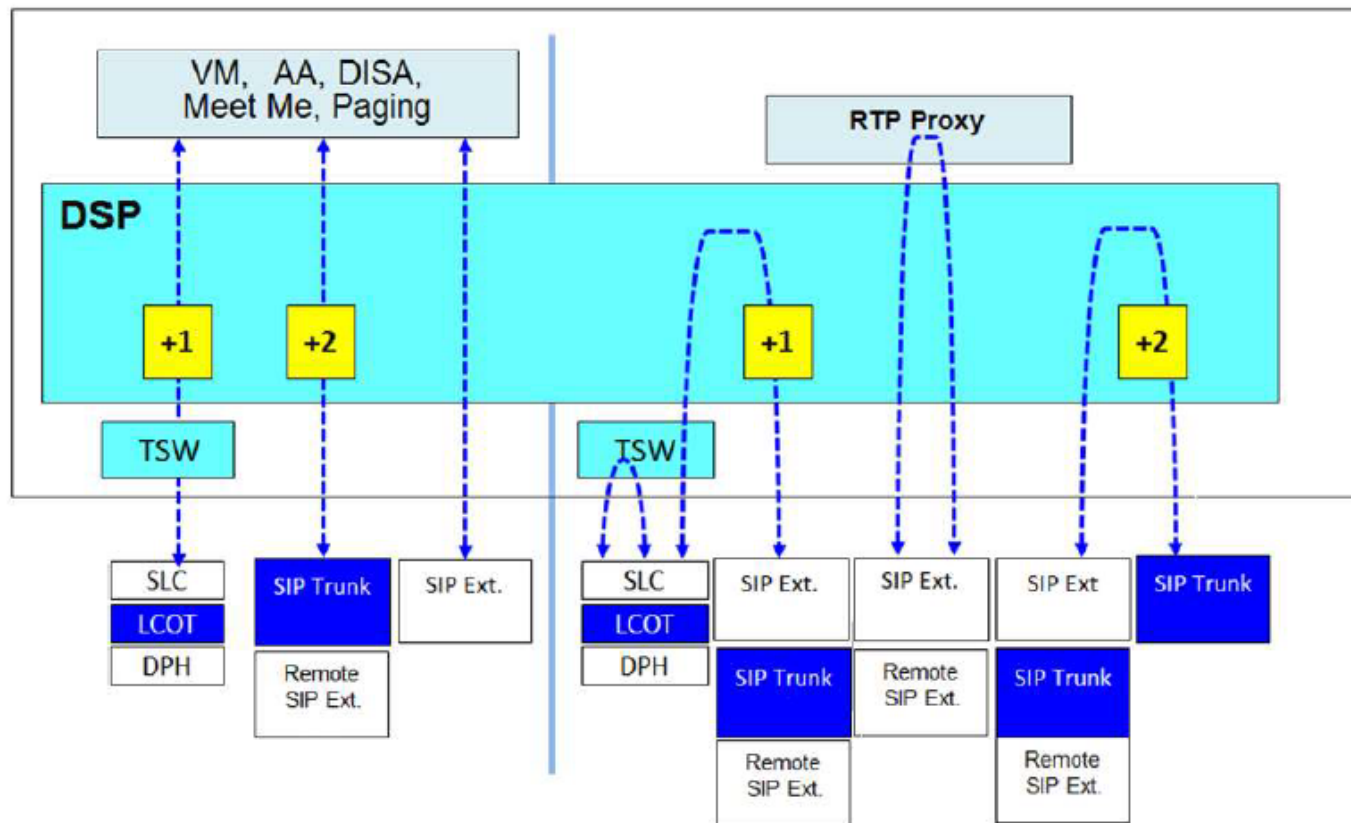
DTMF Outband(RFC2833)

Video Support Enable Disable



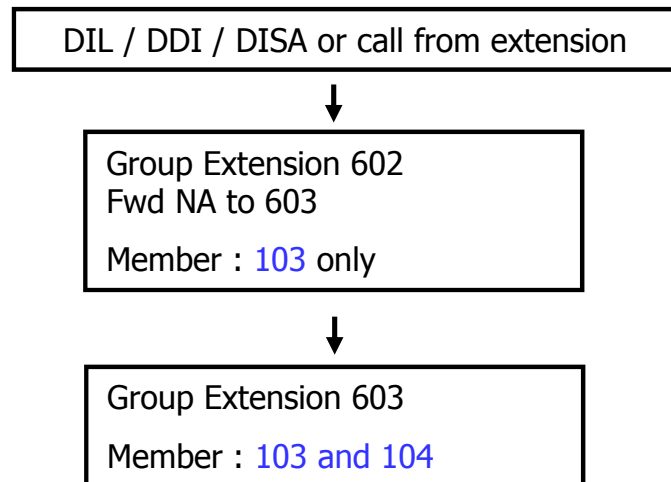
Concurrent Call

Call is limited by DSP also. DSP has 14ch. DSP is consumed as follows.



Delayed Ringing

KX-HTS824BX รองรับการทำงานแบบ Delayed Ringing



Extension Group

PBX Configuration > 2.Extension > 4.Extension Group

Group Number

Group Setting | Extension of Member

Group Number [0-9]

Group Name

Distribution Method

FWD

FWD Type

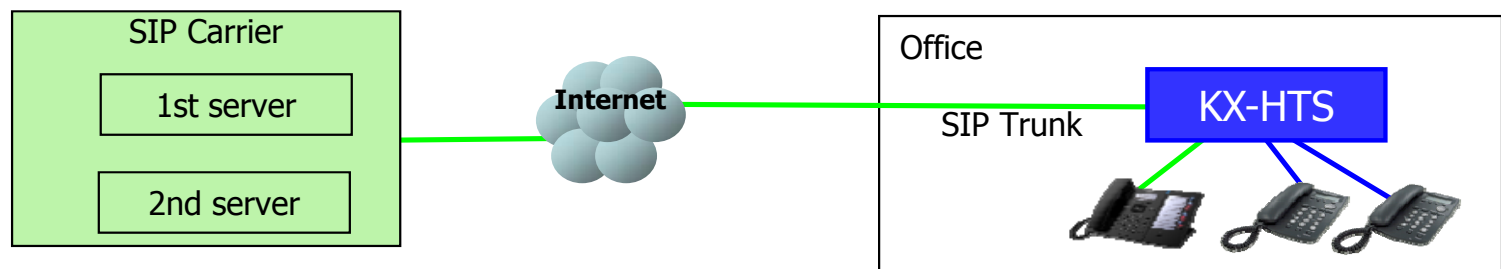
Destination Number [0-9 # *]

FWD No Answer Time Day (seconds)

SIP Trunk : Redundancy

KX-HTS824BX ไม่รองรับการทำงานแบบ Redundancy สำหรับ SIP Trunk.

เพราะไม่สามารถกำหนด 2nd server address เหมือน KX-NS series ได้



System Programming by Phone

KX-HTS824BX สามารถโปรแกรมผ่านโทรศัพท์ได้ที่ Extension 101 และ 103
(as Manager by default) เพื่อกำหนดเปิดหรือปิดใช้สายนอก

<KX-HDV>

Dial *# - 1234 #

400#

CO port number [1-8] #

0 (No Connect) / 1 (Connect)

#

and Off hook

=> Confirmation tone is sent.

<SLT>

Off hook and dial

*# - 1234 #

400#

CO port number [1-8] #

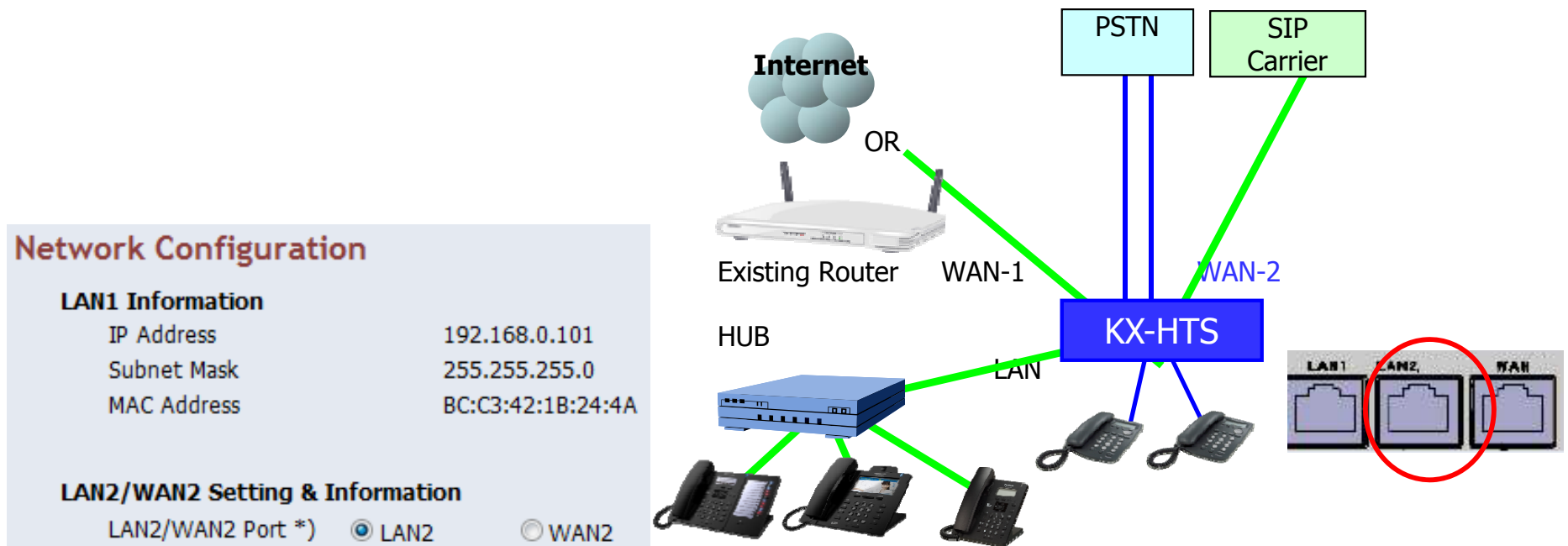
0 (No Connect) / 1 (Connect)

#

=> Confirmation tone is sent after 10s.

WAN

KX-HTS824BX รองรับ 2nd WAN port สำหรับสายนอกแบบ SIP Trunk



KX-HTS 824BX

Initial Set-up

August , 2016

Panasonic Siew Sales (Thailand)
Solution Engineer

Easy Installation

KX-HTS824BX ติดตั้งเพื่อใช้งานได้ง่าย.

ทำงานแบบ **Plug and Play** สำหรับการทำงานเบื้องต้น.

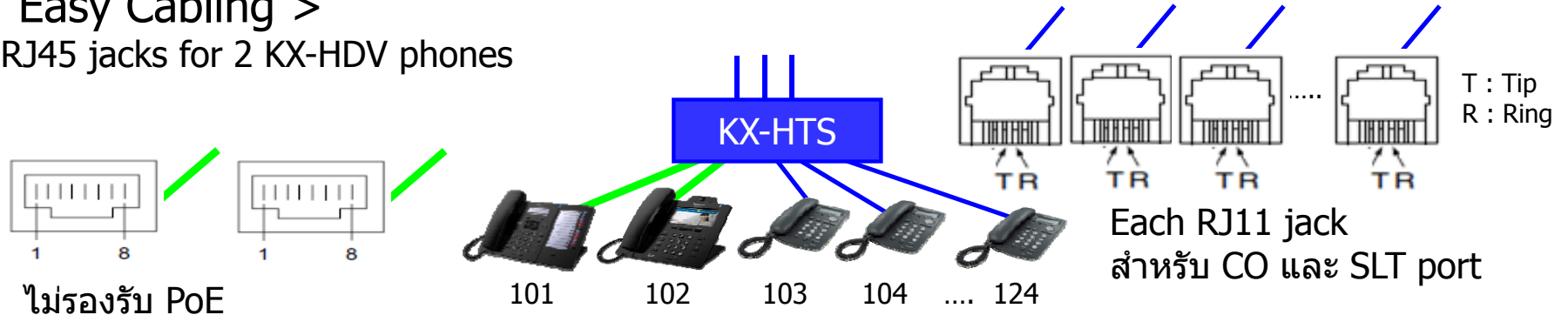
หลังจากทำการ initialize ตัวตู้สาขา จะสามารถใช้งานได้ทันที

- ทุกสายในสามารถโทรออกสายนอก (Analog CO) ได้ทันที.
- สายเรียกเข้ามาที่ Analog CO จะมาดังที่ทุกๆสายใน

Plug and Play สามารถทำงานร่วมกับ **KX-HDV SIP phone** ได้ !

< Easy Cabling >

2 RJ45 jacks for 2 KX-HDV phones



SLT = Analog Single Line Telephone

Software Version

KX-HTS version 1.5 supports followings.

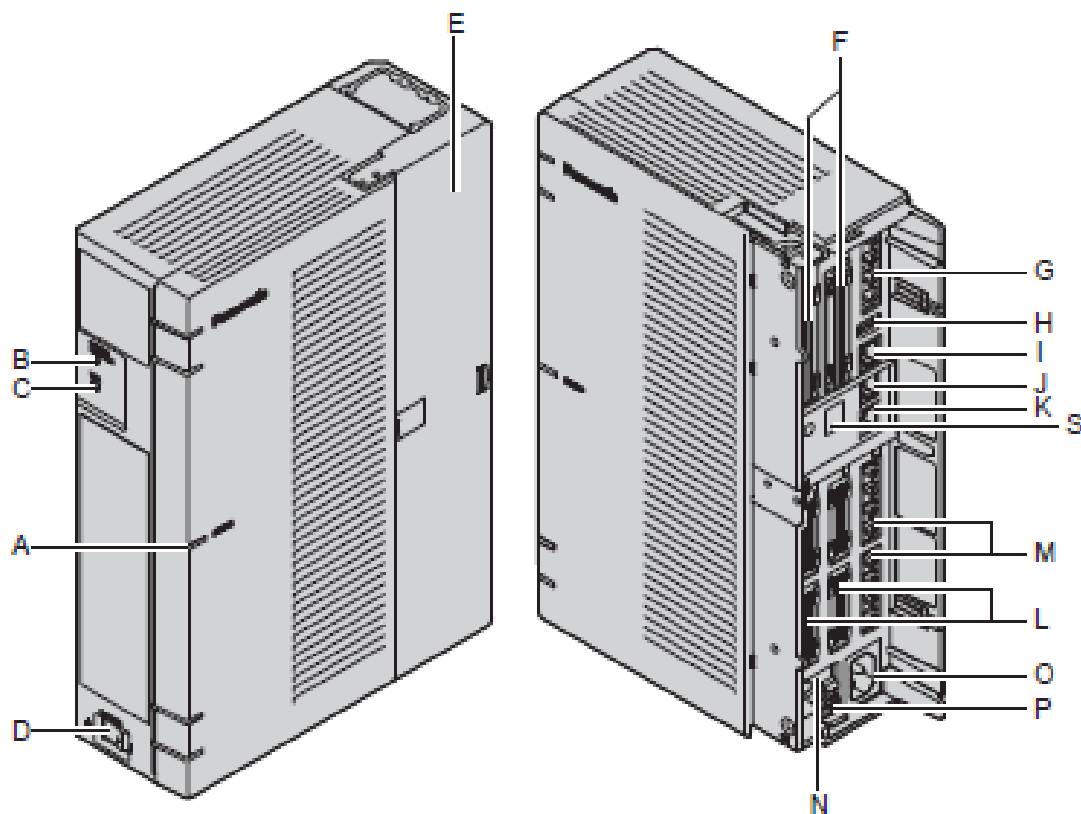
- (1) Phone book on LCD of KX-HDV by PBX system speed dial
- (2) CO button of KX-HDV230
- (3) Conference by SLT

Software สำหรับ **KX-NTV** จะต้อง version 0101e ขึ้นไป.

KX-HDV except KX-HDV230 does not support CO button.

Installation & Initialize

Appearance



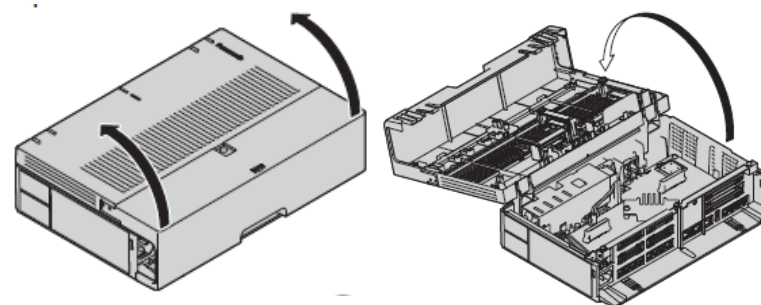
A	STATUS Indicator
B	Initialize Switch
C	WPS Switch
D	Power Switch
E	Cable Cover
F	Trunk/Doorphone Free Slot
G	CO4 Interface
H	USB Port
I	WAN port
J	LAN/WAN port
K	LAN port

L	Extension slot
M	SLT8 Interface
N	FG Terminal
O	AC Inlet
P	External Battery
Q	Extension Card Slot
R	Trunk/Doorphone Card Slot
S	Hook Clip

Card Installation

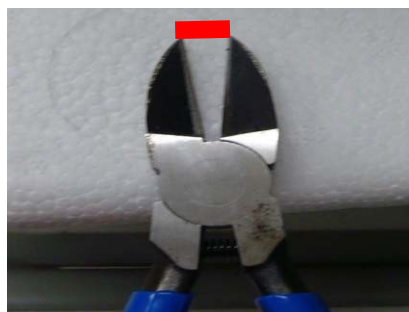
Optional card จะต้องติดตั้งตอนปิดไฟเท่านั้น (power-off).

1. Power Off.
2. ถอดสายไฟ AC แล้วเปิดฝาครอบตัวตู้.
3. ติดตั้งการ์ดต่างๆตามต้องการ.



This is not OK.
(This picture is not KX-HTS.)

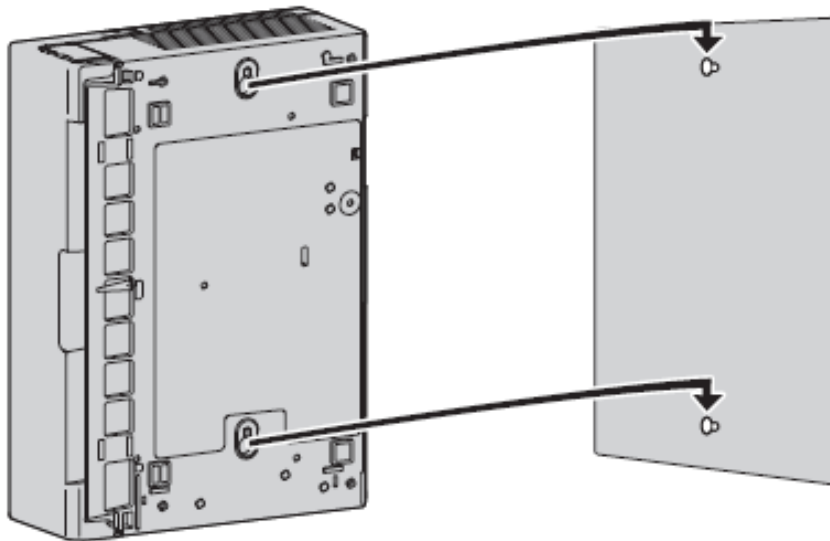
More than 1 cm



Wall Mounting

Install KX-HTS on wall.

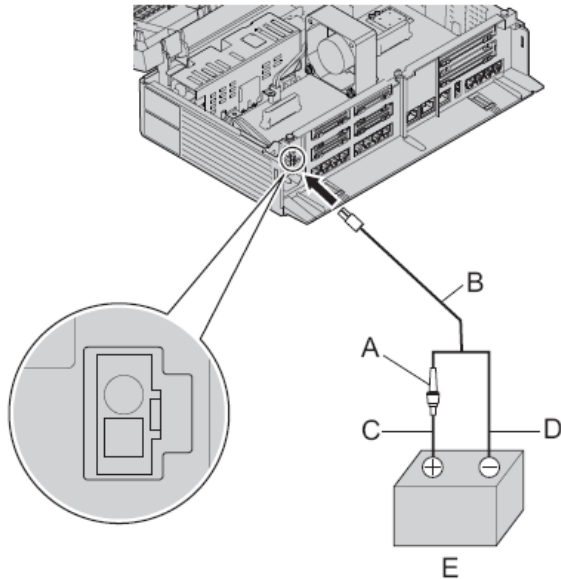
KX-HTS supports router with Wireless LAN function.



Unpack the box and check the items below:

- Main unit
- AC power cord
- Strap band
- Screw × 2 (For Wall Mounting)
- Washer × 2 (For Wall Mounting)

Battery Backup



A = Fuse

B = Backup Battery Cable (KX-A227X)

C = Red (สายสีแดง)

D = Black (สายสีดำ)

E = Battery ขนาด 12 VDC

ขนาดแบตเตอรี่

28Ah

ระยะเวลาสำรองการใช้งาน

9 ชั่วโมง

Initialize

KX-HTS824BX จะต้องทำการ initialized ในการติดตั้งครั้งแรกเสมอ Operation และ System LED ตำแหน่ง (A) ตามรูป.

1. กดปุ่ม Initialize ในตำแหน่ง (B) ค้างไว้.

2. Power On ในตำแหน่ง (D).

(a) ไฟสีส้มติด (Amber On) : 4 sec

(b) ไฟสีส้มกระพริบเร็วๆ (Amber rapid flash)

(c) ไฟสีเขียวกระพริบเร็ว (Green rapid flash).

3. During (c), release Initialize button.

(d) ไฟสีเขียวกระพริบเร็วๆ Green rapid flash : 60 sec

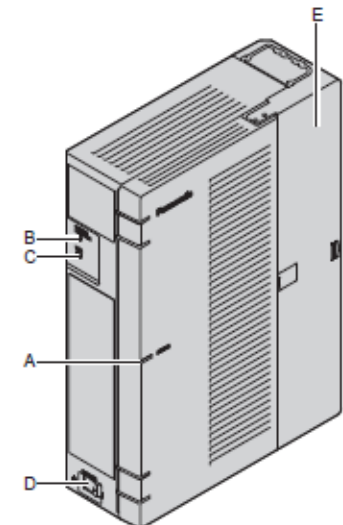
4 flash / sec

=> หลังจาก initialized, system LED

ไฟจะติดสีเขียว green on.

If only power on, green slow flash starts after (a).

It takes for 60 sec. 1 flash / sec



Default Data

Programmed จะทำการตั้งค่าอัตโนมัติ (automatically) หลังจาก initialize.

- ทุกสายในสามารถโทรออกสายนอก (Analog CO) ได้ทันที.
- สายเรียกเข้ามาที่ Analog CO จะมาตั้งที่ทุกๆสายใน

<Default of Floating Extension Number & Name>

Item	Name	Ext
VM	VM	500
DISA-1	DISA	501
DISA-2	DISA	502
DISA-3	DISA	503
DISA-4	DISA	504
DISA-5	DISA	505
DISA-6	DISA	506
DISA-7	DISA	507
DISA-8	DISA	508
DISA-9	DISA	509
DISA-10	DISA	510

Item	Name	Ext
Group -1	Group	601
Group -2	Group	602
Group -3	Group	603
Group -4	Group	604
Group -5	Group	605
Group -6	Group	606
Group -7	Group	607
Group -8	Group	608
Group -9	Group	609
Group -10	Group	610
Group -11	Group	611
Group -12	Group	612
Group -13	Group	613
Group -14	Group	614
Group -15	Group	615
Group -16	Group	616

Item	Name	Ext
Door-1	Door	665
Door-2	Door	666
Meet Me-1	Conference room	691
Meet Me-2	Conference room	692
Meet Me-3	Conference room	693

Web-MC

Connect PC.

ต่อคอมพิวเตอร์ ไปที่ พอร์ต LAN ของ KX-HTS824BX.
KX-HTS824BX จะเปิดการทำงาน DHCP server โดยค่าจากโรงงาน

IP 192.168.0.101 ค่าจากโรงงาน

Web application ที่ใช้งานได้.

- Internet Explorer 9-11
- Firefox
- Chrome



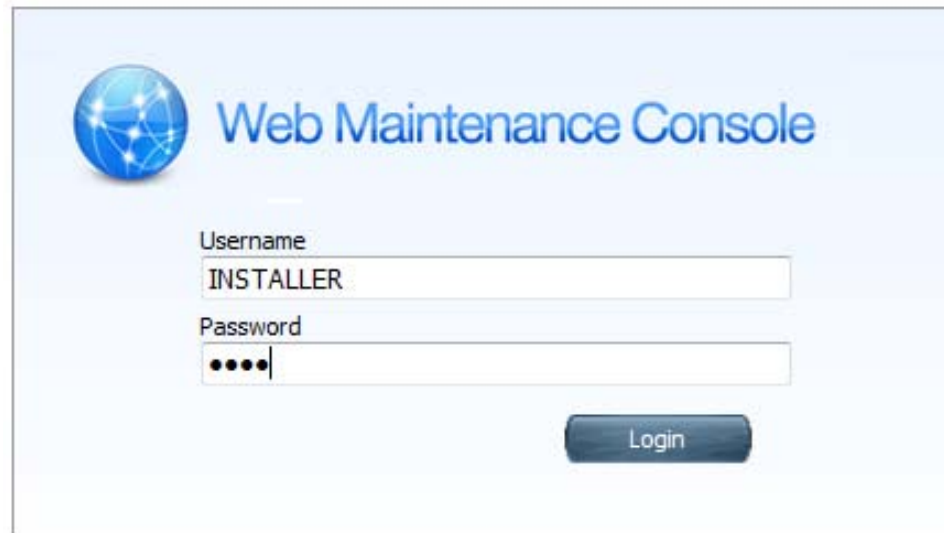
ไม่แนะนำให้ใช้ Smart-phone และ Tablet .

Log-in.

Username : INSTALLER

Password : 1234

Click [Login]



The screenshot shows a login window titled "Web Maintenance Console". It features a blue globe icon with a network diagram. Below the icon, there are two input fields: "Username" containing the text "INSTALLER" and "Password" containing four black dots. A "Login" button is positioned at the bottom right of the form.

Start Easy Set-up.

1. เลือกภาษา (Language)
2. Select location.
3. เปลี่ยน password จาก "1234" เป็นค่าที่ต้องการ
4. คลิก [Start Setup Wizard].

Easy Setup Wizard



Welcome to Panasonic KX-HTS

WebMC Language

English (US) ▼

Password Setting

Installer Password (4-16 characters, [A-Z,a-z,0-9])

•••••

Re-enter

•••••

CAUTION: It is strongly recommended that a password should be complex for maximum protection. Change the password periodically.

Start Setup Wizard

- English (US) ▼
- English (US)
- English (UK)
- Spanish
- French**
- Russian
- Portuguese (BR)

Step 1

1. เลือก Time zone และ Time.
2. คลิก [Next].

Easy Setup Wizard

1. Date & Time

Time Zone (Hour-Minute) +7 - 0

Local Time (Year-Month-Day) 2016 - 6 - 3

(Hour-Minute-Second) 12 - 39 - 1

Time is assigned using 24-hour.
12:00AM = 00:00 / 01:00AM = 01:00 / 12:00PM = 12:00
04:00PM = 16:00 / 08:00PM = 20:00 / 11:59PM = 23:59

Daylight Saving

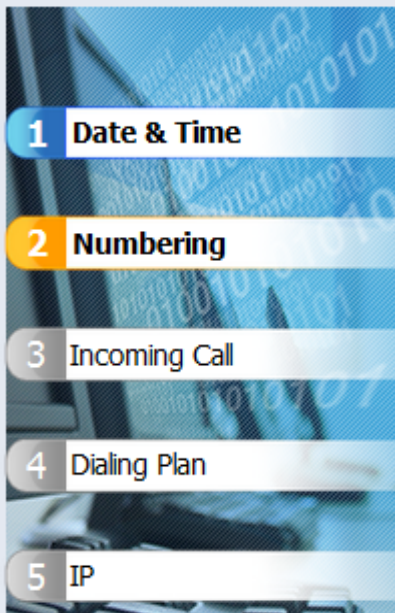
Enable Disable

Next Close

Step 2

1. เลือกค่า parameter. (Default is OK.)
2. คลิก [Next].

Easy Setup Wizard



2.Numbering

Idle Line Access (Local Access)

0 or 9

None

Extension Number

11-34

101-124

201-224

Previous

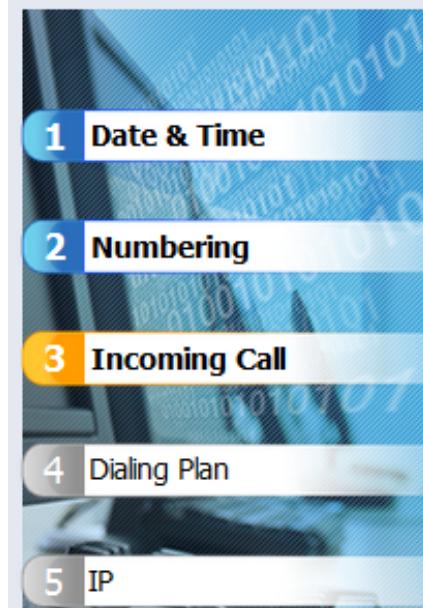
Next

Close

Step 3

1. เลือกค่า parameter. (Default is OK.)
2. คลิก [Next].

Easy Setup Wizard



3.Incoming Call

DIL / Doorphone

Destination

101

- 601 / Group
- 101
- 102
- 103
- 104
- 105
- 106
- 107
- 108
- 109
- 110
- 111
- 112
- 113
- 114
- 115
- 116
- 117
- 118
- 119
- 120
- 121
- 122
- 123
- 124
- 601 / Group

Previous

Next

Close

Step 4

1. เลือก **International access code** เป็นค่า **00**.
2. Dialing type is for USA. (Default is OK for other area.)
3. คลิก [Next].

Easy Setup Wizard

4. Dialling Plan

International Access Code

00 010 011

Other (6 digits) [0-9]

Local Area Code

Local Area Code (6 digits) [0-9]

National Dialing Type

None TypeA TypeB

TypeC

Leading Number (32 digits)

N11
NXXXXXX
1NXXNXXXXX
(N=2-9,X=0-9,P=0,1)

Previous Next Close

Dialing plan of PSTN in USA is very complicated.

Step 5

1. คลิก [Finish]. (Default is OK.)

Easy Setup Wizard

5.IP

1 Date & Time

2 Numbering

3 Incoming Call

4 Dialing Plan

5 IP

IP Address for LAN Port

IP Address: 192 . 168 . 0 . 101

Subnet Mask: 255 . 255 . 255 . 0

Use Built-in DHCP Server of KX-HTS

Starting IP address: 192 . 168 . 0 . 102

Ending IP address: 192 . 168 . 0 . 254

IP Address of SIP Extension in existing router

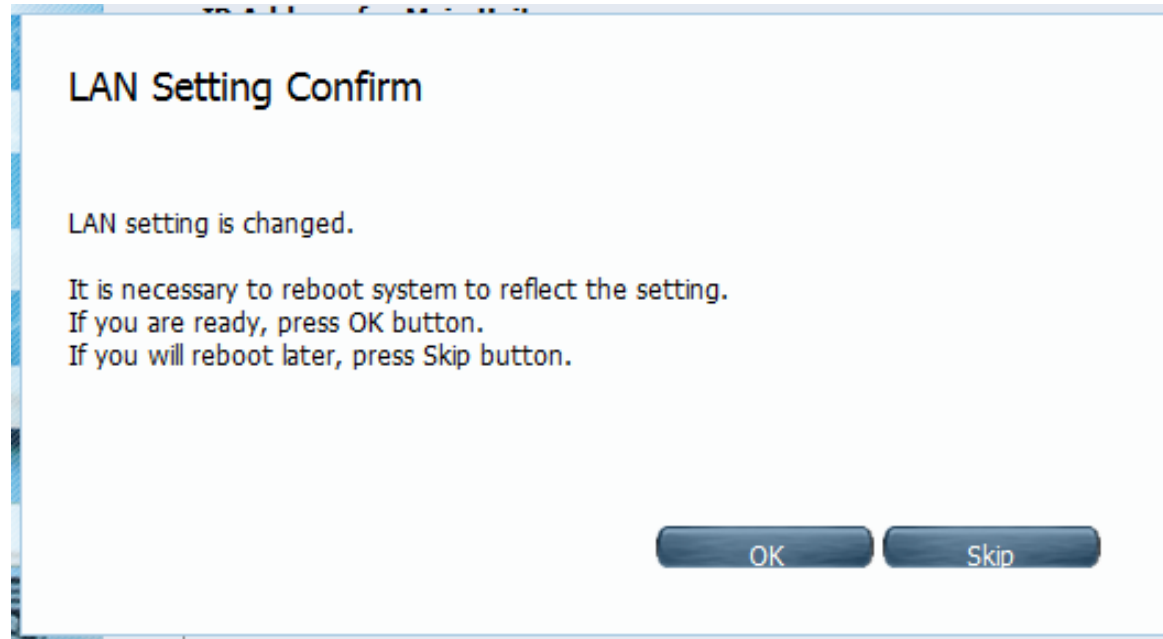
IP Address: 192 . 168 . X . X
(X:Wildcard)

This has to be programmed when WAN port of KX-HTS and SIP extensions are connected with the existing router.

Previous Finish Close

Finish Easy Set-up.

1. คลิก [Skip] เพื่อทำโปรแกรมอื่นๆต่อ.



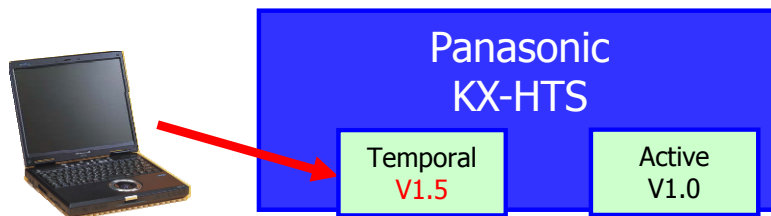
Web-MC Full Programming

จะต้องทำการ Up Grade Firmware ของ KX-HTS824BX ให้เป็นเวอร์ชันใหม่เสมอ นะครับ (Important to upgrade software to latest version) หลังจากทำ Easy Set-up.

The image shows the HTS Web Maintenance Console interface. On the left is the login page with fields for Username (INSTALLER) and Password, and a Login button. An arrow points to the main console page. The main page has a blue header with 'HTS Web Maintenance Console' and '000.00211'. Below the header is a navigation menu with 'PBX Configuration', 'Network Configuration', and 'Maintenance'. The 'PBX Configuration' menu is expanded, showing a tree view with items: 1. System, 2. Extension, 3. Trunk, 4. TRS/ARS, 5. System Speed Dialing, 6. Conference, and 7. Voice Mail. The main content area displays three rows of extension and trunk configuration buttons. The first row shows extensions 119-124 and 101-102, with 101 and 102 highlighted in blue. The second row shows extensions 111-118. The third row shows extensions 103-110. To the right of these rows are buttons for Doorphone (1, 2), Trunk (5, 6, 7, 8), and Trunk (1, 2, 3, 4). The top right of the console page includes a language dropdown set to 'English (US)' and a 'Save & Logout' button.

Firmware Transfer to PBX (Temporal Memory)

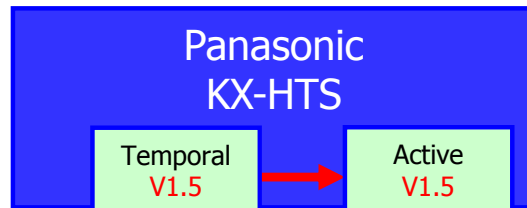
The screenshot shows the HTS Web Maintenance Console interface. The header includes the HTS logo, the text 'Web Maintenance Console 000.00211', and a language dropdown set to 'English (US)'. A left-hand navigation menu is visible with categories: PBX Configuration, Network Configuration, and Maintenance. Under Maintenance, there are sub-items: 1. Management, 2. System Control (expanded), and 3. Utility. Under System Control, the following options are listed: 1. Firmware Transfer to PBX (highlighted), 2. Firmware Update, 3. System Data Backup & Restore, and 4. System Reset. The main content area is titled 'Firmware Transfer to PBX' and shows a breadcrumb trail: Maintenance > 2. System Control > 1. Firmware Transfer to PBX. It features two radio buttons for 'Transfer from': 'Local PC' (selected) and 'USB Memory'. Below the 'Local PC' option, there is a 'File Name' input field and a 'Browse' button. Below the 'USB Memory' option, there is a 'File Name' dropdown menu. At the bottom of this section, it states: 'Firmware should be placed /private/meigroup/psn/hts/update/'.



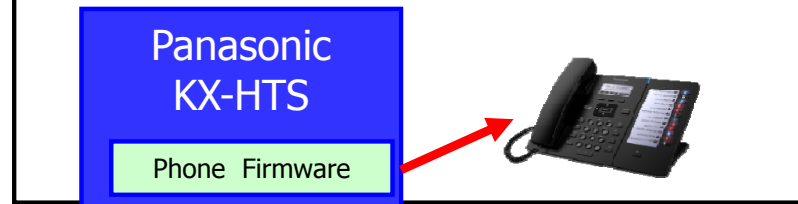
Firmware Update (Activate)

The screenshot shows the HTS Web Maintenance Console interface. The top header includes the HTS logo, the text 'Web Maintenance Console 001.00001', a language dropdown set to 'English (US)', and a 'Logout' button. On the left, there is a navigation menu with categories: 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'Maintenance', there are sub-items: '1. Management', '2. System Control', '1. Firmware Transfer to PBX', '2. Firmware Update', and '3. System Data Backup & Restore'. The main content area displays a table with columns 'Target', 'Type', 'Port', and 'Current Version'. Above this table, there is a 'Delete' button. The table contains three rows of update targets.

Target	Type	Port	Current Version
<input type="checkbox"/>	Main Unit	-	versionXXX
<input type="checkbox"/>	KX-HDV100	1	versionXXX
<input type="checkbox"/>	KX-HDV100	2	versionXXX



Software of KX-HDV Phone also can be upgraded from KX-HTS.



System Data Backup

HTS Web Maintenance Console
000.00211 English (US) ▾

- PBX Configuration
- Network Configuration
- Maintenance
 - 1. Management
 - 2. System Control
 - 1. Firmware Transfer to PBX
 - 2. Firmware Update
 - 3. System Data Backup & Restore**
 - 4. System Reset
 - 3. Utility

System Data Backup & Restore

Maintenance > 2. System Control > 3. System Data Backup & Restore

System Data Backup System Data Restore

Backup to Local PC USB Memory

If you selected USB Memory, System Data will be placed `/private/meigroup/psn/hts/backup/dsys/`

System Data Restore

HTS Web Maintenance Console 000.00211 English (US) ▼

System Data Backup & Restore
Maintenance > 2.System Control > 3.System Data Backup & Restore

System Data Backup **System Data Restore**

Restore from Local PC USB Memory

Restore from Local PC
File Name

Restore from USB Memory
File Name
System Data should be placed /private/meigroup/psn/hts/backup/dsys/

System Reset

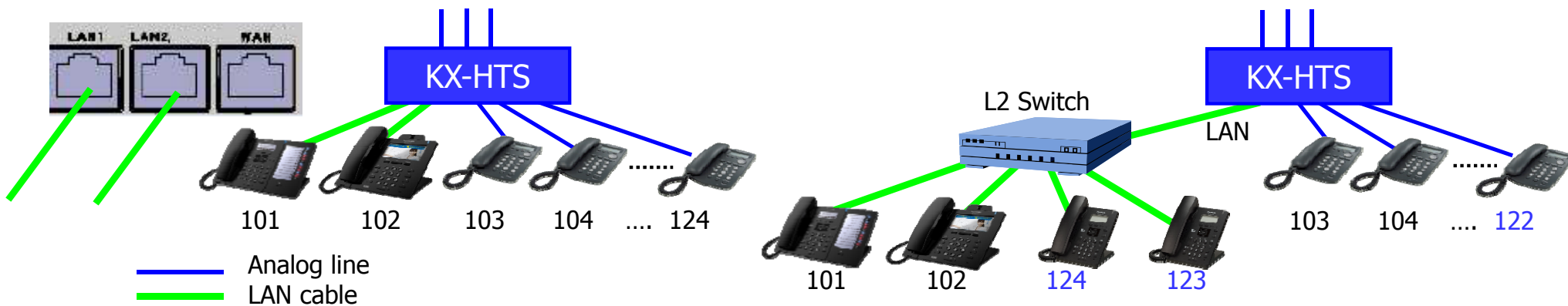
The screenshot displays the HTS Web Maintenance Console interface. The top navigation bar includes the HTS logo, the text 'Web Maintenance Console' with the ID '000.00211', and a language dropdown menu set to 'English (US)'. On the left side, there is a sidebar menu with categories: 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'Maintenance', there are sub-items: '1. Management', '2. System Control', and '3. Utility'. The '2. System Control' category is expanded, showing a list of options: '1. Firmware Transfer to PBX', '2. Firmware Update', '3. System Data Backup & Restore', and '4. System Reset'. The main content area is titled 'System Reset' and shows a breadcrumb trail: 'Maintenance > 2. System Control > 4. System Reset'. Below the title, there is a 'System Reset' label and a blue 'Reset' button. A 'Memo' section with a large empty text area is located below the button.

Phone Connection

Connect Phones.

สามารถต่อโทรศัพท์แบบ KX-HDV phone และ SLT phone ได้สูงสุด 24 เครื่อง **without any programming.**

- SIP phone registration แบบ manual สำหรับ SIP phone ยี่ห้ออื่นรวมทั้ง KX-NTV.
- Extension 101 และ 102 สำหรับ KX-HDV. Extension 103 ถึง 124 สำหรับ SLT.

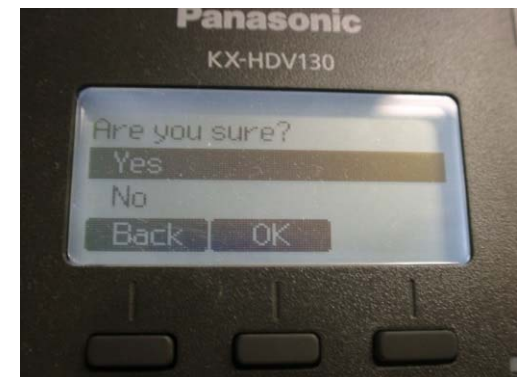
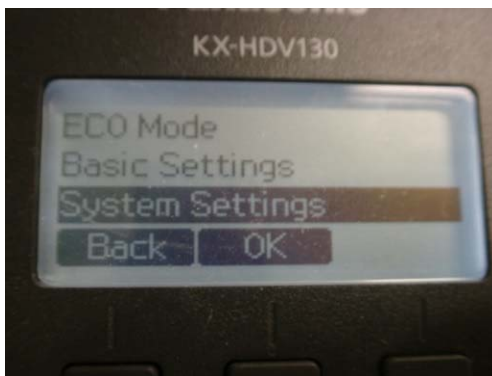


For example, 4 KX-HDV phones and 8 SLT phones can be connected without optional 8-port SLT card. Virtual card installation (like KX-NS) is also not required.

Initialize KX-HDV Phone.

ในกรณีเครื่อง KX-HDV phone ทำการใช้งานกับ PBX หรือ SIP server อื่นๆอยู่แล้ว จะต้องทำการ Initializing ตามขั้นตอนดังนี้

1. เลือก "System Settings".
2. กดปุ่ม #136.
3. เลือก "Yes".



Connect Fax.

Fax สามารถต่อได้ที่พอร์ต SLT ตามการโปรแกรมกำหนดไว้

Port

PBX Configuration > 2.Extension > 1.Port

Extension Number	108	[0-9]
Extension Name		
Attribution	Analog SLT6	
FAX Connection	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Manager	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable
TRS Level (COS)		



<Apply> is required for any programming.

T.38 is not supported for SIP trunk and SIP extension.

G.711 and analog line are available for fax.

4 analog trunks (CO) and 8 analog extensions (SLT) are pre-installed by factory.

Adjust Flash Time of SLT.

Flash from analog SLT phone has to be adjusted.

On-hook roughly after talking becomes "Flash" sometimes.

This becomes cause of unexpected transferring or holding a analog CO.

This can be reduced by programming for range of Flash.

Analog SLT Property

PBX Configuration > 2.Extension > 6.Analog SLT Property

SLT Off Hook Time	24 ms
SLT Off Hook Guard Time	96 ms
SLT Flash Detection	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Flash Timing - Min.	24 ms
Flash Timing - Range	1528 ms

If the extension talked with other extension or SIP trunk, call is disconnected automatically because KX-HTS can detect disconnect from other party.

**504ms (Min) and
208ms (Range)
if Flash of SLT in your market
is 600ms .**

Hold recall starts immediately after Flash + On-hook.

If PBX is other Panasonic KX PBX and SLT flash mode is 1, hold recall starts after 60 seconds as "Ghost call".

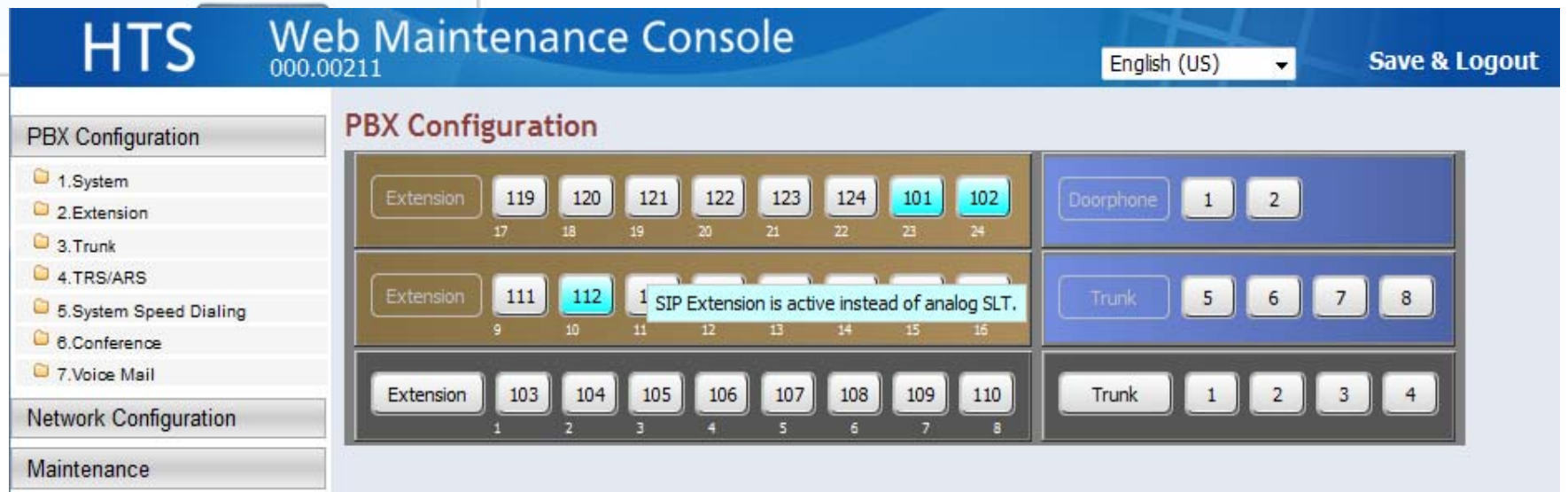
Web-MC PBX Configuration



Web Maintenance Console

Username
INSTALLER

Password
••••



HTS Web Maintenance Console 000.00211 English (US) Save & Logout

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

PBX Configuration

Extension	119	120	121	122	123	124	101	102	Doorphone	1	2		
	17	18	19	20	21	22	23	24					
Extension	111	112							Trunk	5	6	7	8
	9	10	11	12	13	14	15	16					
Extension	103	104	105	106	107	108	109	110	Trunk	1	2	3	4
	1	2	3	4	5	6	7	8					

1 SIP Extension is active instead of analog SLT.

Table of Contents

Chapter	Contents
1	System
2	Extension
3	Trunk
4	ARS/TRS
5	Speed Dial
6	Conference
7	VM

1.System

1.System->1.Date & Time

HTS Web Maintenance Console 000.00211 English (US)

PBX Configuration

- 1. System
 - 1. Date & Time
 - 2. MOH
 - 3. Week Table
 - 4. Numbering Plan
 - 5. Timers
 - 6. System Options
 - 7. SMDR
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Date & Time

PBX Configuration > 1.System > 1.Date & Time

Date & Time Daylight Saving

Time Setting

Year-Month-Day: 2016 - 6 - 6

Hour-Minute-Second: 14 - 26 - 5

Automatic Time Adjustment

Disable Caller ID SNTP

SNTP Server IP Address: . . .

Time Zone

Hour: +7

Minute: 0

กำหนดปี (Year)/เดือน (Month)/วัน (Day)

กำหนดชั่วโมง (Hour)/นาที (Minute)/วินาที (Second)

1.System->2.Music on Hold (MOH)

HTS Web Maintenance Console
000.00211 English (US) Save &

PBX Configuration

- 1. System
 - 1. Date & Time
 - 2. MOH
 - 3. Week Table
 - 4. Numbering Plan
 - 5. Timers
 - 6. System Options
 - 7. SMDR
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

MOH
PBX Configuration > 1. System > 2. MOH

Music on Hold

Upload Music File

Sound on Transfer

Sound on DISA

Original Music

Uploaded Music

Browse

Upload

Same as Music on Hold

Ringback Tone

Apply

เลือกเสียงเพลงขณะเรียกสายในผ่าน DISA

เลือกเสียง Ring back Tone ขณะเรียกสายในผ่าน DISA

การกำหนดเสียงเพลงขณะพักสายเลือกเพลงภายใน PBX

Upload เพลงแบบ Wave ไฟล์ลงไปใน PBX

Memo
When an extension user holds a call, the held party hears music.
A WAV file of any format can be copied to KX-HTS.
Cuando la extension pone una llamada en espera, la otra persona escuchara musica.
Archivos WAV de cualquier formato puede ser copiada al KX-HTS.

1.System->3.Week Table

HTS
Web Maintenance Console
000.00211
English (US) ▾
Save & L

PBX Configuration

- 1. System
- 1. Date & Time
- 2. MOH
- 3. Week Table
- 4. Numbering Plan
- 5. Timers
- 6. System Options
- 7. SMDR

- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Week Table

PBX Configuration > 1. System > 3. Week Table

Time Service Switching Mode
 Manual Automatic

Current Mode

Day ▾
 Day
 Lunch
 Night

Week	Day 1 Start			Day 2 Start			Night Start					
	Enable	Hour	Minute	Enable	Hour	Minute	Enable	Hour	Minute	Enable	Hour	Minute
Sunday	<input checked="" type="checkbox"/>	9 ▾	0 ▾	<input type="checkbox"/>	12 ▾	0 ▾	<input type="checkbox"/>	13 ▾	0 ▾	<input checked="" type="checkbox"/>	17 ▾	0 ▾
Monday	<input checked="" type="checkbox"/>	9 ▾	0 ▾	<input type="checkbox"/>	12 ▾	0 ▾	<input type="checkbox"/>	13 ▾	0 ▾	<input checked="" type="checkbox"/>	17 ▾	0 ▾
Tuesday	<input checked="" type="checkbox"/>	9 ▾	0 ▾	<input type="checkbox"/>	12 ▾	0 ▾	<input type="checkbox"/>	13 ▾	0 ▾	<input checked="" type="checkbox"/>	17 ▾	0 ▾
Wednesday	<input checked="" type="checkbox"/>	9 ▾	0 ▾	<input type="checkbox"/>	12 ▾	0 ▾	<input type="checkbox"/>	13 ▾	0 ▾	<input checked="" type="checkbox"/>	17 ▾	0 ▾

Time Service Day/Lunch/Night Switch

*7800 (Day Mode) + มีเสียงพูด "Day"
 *7801 (Night Mode) + มีเสียงพูด "Night"
 *7802 (Lunch Mode) + มีเสียงพูด "Lunch"

กำหนดการทำงานตามช่วงเวลา Day/Lunch/Night
 Manual : เปลี่ยนแปลงเวลาเอง
 Automatic : เปลี่ยนเวลาอัตโนมัติตามที่กำหนดเวลา

1.Ystem->4.Numbering Plan

HTS Web Maintenance Console 000.00211 English (US)

PBX Configuration

- 1. System
- 1. Date & Time
- 2. MOH
- 3. Week Table
- 4. Numbering Plan
- 5. Timers
- 6. System Options
- 7. SMDR

2. Extension

3. Trunk

4. TRS/ARS

5. System Speed Dialing

6. Conference

7. Voice Mail

Network Configuration

Maintenance

Numbering Plan

PBX Configuration > 1. System > 4. Numbering Plan

Main Features Quick Dial Dialing Plan

No.	Feature	Dial (1 digit) [0-9]	Additional Dial
4	Extension Numbering Scheme 4	<input type="text"/>	XX
5	Extension Numbering Scheme 5	5	XX
6	Extension Numbering Scheme 6	6	XX
7	Call Park	7	XX
8	Trunk Line / Trunk Group	8	0X or #X
9	Idle Line Access (Local Access) - 1	9	<input type="text"/>
10	Idle Line Access (Local Access) - 2	0	<input type="text"/>
11	Feature	*	<input type="text"/>

การกำหนดหมายเลขเพื่อใช้งานต่างๆใน PBX

1.System->5.Timers

HTS Web Maintenance Console
000.00211 English (US)

PBX Configuration

- 1. System
 - 1. Date & Time
 - 2. MOH
 - 3. Week Table
 - 4. Numbering Plan
 - 5. Timers
 - 6. System Options
 - 7. SMDR
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Timers

PBX Configuration > 1. System > 5. Timers

Dial

Inter-digit (s) 10

Recall

Hold Recall (s) 60

Disconnect after Recall (x60s) 30

Limited Call Time

CO-CO Duration Time (x60s) 10

Extension-CO/Extension Duration Time (x60s) None

กำหนดเวลาระหว่างการกดเลขหมายเพื่อโทรออก

การกำหนดเวลาในการพักสายนานเท่าไร

การกำหนดเวลาดัดสายหลังจากพักสายใน

การกำหนดเวลาดัดสาย CO to CO

การกำหนดเวลาดัดสาย เมื่อสายในใช้งานสายนอก

1.System->6.System Options

HTS Web Maintenance Console 000.00211 English (US) Save

PBX Configuration

- 1.System
- 2.Extension
- 3.Trunk
- 4.TRS/ARS
- 5.System Speed Dialing
- 6.Conference
- 7.Voice Mail

System Options
PBX Configuration > 1.System > 6.System Options

กำหนดรูปแบบการใช้งานสายนอก
CO-8 to CO-1 ใช้สายนอกสูงมาต่ำ
CO-1 to CO-8 ใช้สายนอกต่ำมาสูง
Rotation หมุนเวียนใช้สายนอกแบบไม่ซ้ำเดิม

Trunk Access Priority
 CO-8 to CO-1 CO-1 to CO-8 Rotation

Reserved concurrent trunk call: 8

Reserved concurrent G.729 call: No Reservation

Forced Assignment to SIP Extension Port
 Enable Disable

Ring Tone Pattern

Trunk: Single Double

Extension/Doorphone: Single Double

DSP for VM / DISA

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

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

สำรอง Concurrent สำหรับสายนอก

ระบบรองรับได้สูงสุด 12 Concurrent

1.System->7.SMDR

The screenshot displays the HTS Web Maintenance Console interface. The top header includes the HTS logo, the text 'Web Maintenance Console' with the ID '000.00211', and a language dropdown menu set to 'English (US)'. On the left, a navigation menu is visible with categories: 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'PBX Configuration', a list of sub-items is shown, with '7.SMDR' selected. The main content area is titled 'SMDR' and shows the breadcrumb path 'PBX Configuration > 1.System > 7.SMDR'. A blue-bordered box contains the Thai text 'กำหนดให้ระบบทำการบันทึกการใช้งานโทรศัพท์'. Below this, the 'SMDR Recording' section has radio buttons for 'Enable' (selected) and 'Disable'. A 'Save SMDR to PC' button is present with a 'Save' label. A 'Memo' section contains text in English and Spanish: 'Call records are saved in 1 new CSV file and 4 old CSV files. The maximum size of each file is 2.5 megabytes. Around 10,000 calls can be saved in each file.' and 'Los registros de llamadas son almacenados en 1 archivo CSV nuevo y 4 archivos CSV anteriores. El tamaño máximo de cada archivo es de 2.5 Mega Bytes. Alrededor de 10.000 llamadas son almacenadas en cada archivo.'

2.Extension

2.Extension->1.Port

HTS Web Maintenance Console

000.00211

Port

PBX Configuration > 2.Extension > 1.Port

กด Edit เพื่อเปลี่ยนแปลงค่าภายใน

Main Analog Extension SIP Extension

Extension Number	Extension Name	Attribution	FAX Connection	Manager	TRS Level (COS) Day	TRS Level (COS) Lunch
101	Edit	SIP 23	No	Enable	2	2
102	Edit	SIP 24	No	Disable	2	2
103	Edit	Analog SLT1	No	Enable	2	2
104	Edit	Analog SLT2	No	Disable	2	2

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
- 5.System Speed Dialing
- 6.Conference
- 7.Voice Mail

Network Configuration

Maintenance

2.Extension->1.Port

HTS Web Maintenance Console
000.00211

Port
PBX Configuration > 2.Extension > 1.Port

Extension Number 102 [0-9]

Extension Name

Attribution SIP 24

FAX Connection Yes No

Manager Enable Disable

TRS Level (COS)

Day	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
Lunch	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
Night	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
Speed Dial	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 5
Dial Lock	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/> 5

หมายเหตุ:

- หมายเลขสายใน
- ชื่อสายใน
- เลือกสายในแบบ SLT หรือ SIP
- ต่อใช้งานเป็นเครื่อง FAX
- กำหนดเป็นเครื่อง Manager
- กำหนดระดับการโทรออกสาย นอกแต่ละสายในตาม ช่วงเวลา รวมทั้ง Speed Dial และ Station Lockout

2.Extension->2.Phone

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
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Phone
PBX Configuration > 2.Extension > 2.Phone

Extension Number 101/

Web User Account

ID 101

Password *****

PIN

Contact

Phone (Home) [0-9 # *]

Phone (Mobile1) [0-9 # *]

Phone (Mobile2) [0-9 # *]

Email Address

FWD/DND

FWD/DND Type Off

การกำหนดหมายเลข ID และรหัสผ่าน (Password) ให้แต่ละสายในเพื่อเข้าหน้า Webpage เพื่อกำหนดการทำงานต่างๆของแต่ละสายใน

Phone (Log-in by Extension)

HTS Web Maintenance Console 000.00211 English (US) ▼

Phone

Extension Number 101/

Web User Account

ID

Password *****

PIN

Contact

Phone (Home) [0-9 # *]

Phone (Mobile1) [0-9 # *]

Phone (Mobile2) [0-9 # *]

Phone (Log-in by Extension)

HTS Web Maintenance Console
000.00211 English (U)

Voice Mail 500
 Other [0-9 # *]

FWD No Answer Time
Day 30 (seconds)
Lunch 30 (seconds)
Night 30 (seconds)
Transferred call no answer option FWD Priority(If Fwd is n

Voice Mail
Send Email when Message is left Enable Disable
Delete Message after Email Enable Disable

Call Waiting Enable Disable

Extension Dial Lock (Local) Unlock

Flexible Buttons
[Edit Flexible Buttons](#)

500=เลขหมายของ Voice Mail

เลขหมายปลายทางของการ
ตั้ง Forwarding ตามช่วงเวลา

กำหนดฝากข้อความทาง Email

การตั้งสายเรียกซ้อน (Call Waiting)

กำหนด Electronic Station Lockout

2.Extension->3.Flexible Button

HTS
Web Maintenance Console
000.00211

PBX Configuration

- 1. System
- 2. Extension
- 3. Flexible Buttons
- 4. Extension Group
- 5. Doorphone
- 6. Analog SLT Property
- 7. SIP Extension Property

3. Trunk

4. TRS/ARS

5. System Speed Dialing

6. Conference

7. Voice Mail

Network Configuration

Maintenance

Flexible Buttons

PBX Configuration > 2.Extension > 3.Flexible Buttons

การกำหนดการทำงานให้ปุ่มต่างๆบนเครื่องโทรศัพท์แบบ SIP Phone (KX-HDV Series)

Extension Number

101/

Telephone

Flexible button is for Panasonic KX-HDV phone only.
KX-HDV100 and KX-HDV130 have 2 buttons.
[DN] key is not available for KX-HDV100.
[CO] key is available for KX-HDV230 only.

Flexible Buttons

Key Location	Type	CO Line Number/Extension Number/Dial [0-9] (One-touch)	Key Name
1	Not Stored	-	01
2	Not Stored	-	02
3	Not Stored	-	03

2.Extension->4.Extension Group

HTS Web Maintenance Console
000.00211

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Extension Group

PBX Configuration > 2.Extension > 4.Extension Group

Group Number: 601/Group

หมายเหตุกลุ่มสายในกำหนดได้สูงสุด 16 กลุ่ม

Group Setting | Extension of Member

Group Number: 601 [0-9]

Group Name: Group

Distribution Method: Ring

หมายเหตุกลุ่ม
ชื่อกลุ่ม
รูปแบบการทำงานของกลุ่ม
Ring/Hunting

FWD

FWD Type: การทำงานแบบ Forwarding

Destination Number: 500 [0-9 # *]

FWD No Answer Time

Day	30	(seconds)
Lunch	30	(seconds)
Night	30	(seconds)

Transferred call no answer option: FWD Priority(If Fwd is r

Extension Group - Member

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
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Extension Group

PBX Configuration > 2.Extension > 4.Extension Group

Group Number: 601/Group

Group Setting | **Extension of Member**

	Extension No.	Setting
1	101/	
2	102/	
3	103/	
4	104/	
5	105/	
6	106/	
7	107/	

หมายเลขสายในที
อยู่ในกลุ่ม

2.Extension->5.Doorphone

HTS Web Maintenance Console
000.00211

Doorphone
PBX Configuration > 2.Extension > 5.Doorphone

**กำหนดการเรียกจาก Door Phone ให้กระดิ่งมา
ดังที่สายในใต้วง
จะต้องติดตั้งการ์ด KX-HTS82460 (DPH2)**

No.	Extension Number of Doorphone [0-9]	Name	Doorphone Call Destination Day	Doorphone Call Destination Lunch	Doorphone Call Destination Night
1	665	Door	101/	101/	101/
2	666	Door	101/	101/	101/

Doorphone Ring Duration: 15 (seconds)
Door Open Duration: 5 (seconds)

กำหนดเวลาที่ Door opener ทำงาน

กำหนดเวลาเรียกจาก Door phone กระดิ่งนานเท่าไร

Door Open *55 + ตำแหน่ง Door Phone (1-2)

2.Extension->6.Analog SLT Property

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
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Analog SLT Property

PBX Configuration > 2.Extension > 6.Analog SLT Property

SLT Off Hook Time	160	(ms)
SLT Flash Detection	Enable	
Flash Timing - Min.	112	(ms)
Flash Timing - Range	640	(ms)
Ring Tone Pattern Option	Type1	

Memo

2.Extension->7.SIP Extension Property

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
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

SIP Extension Property

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

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

IP Address of SIP Extension in existing router

IP Address . . .

Subnet Mask . . .

DSP

IP Side - Gain1 (Network to PBX)	<input type="text" value="+0"/>	(dB)
IP Side - Gain2 (PBX to Network)	<input type="text" value="+0"/>	(dB)
PCM Side - Gain1 (PBX to Network)	<input type="text" value="+0"/>	(dB)
PCM Side - Gain2 (Network to PBX)	<input type="text" value="+3"/>	(dB)
PCM Side - Echo Canceller Type	<input type="text" value="NE"/>	

การปรับความดังของเสียงใช้งานผ่าน DSP

3.Trunk

3.Trunk->1.Port

HTS Web Maintenance Console
000.00211

Port
PBX Configuration > 3.Trunk > 1.Port

กดปุ่ม Edit เพื่อเปลี่ยนแปลงค่าแต่ละสายนอก

Main Analog - Basic Analog - CPC Detection / DISA Analog - Dialing Analog - Caller ID Analog - Collect Call Reject (for Brazil)

CO Line Number	Attribution	Local Access	Trunk Group
1 <input type="button" value="Edit"/>	Analog	Enable	1
2 <input type="button" value="Edit"/>	Analog	Enable	1
3 <input type="button" value="Edit"/>	Analog	Enable	1
4 <input type="button" value="Edit"/>	Analog	Enable	1
5 <input type="button" value="Edit"/>	Analog	Enable	1
6 <input type="button" value="Edit"/>	Analog	Enable	1

3.Trunk->1.Port

HTS Web Maintenance Console
000.00211

Port
PBX Configuration > 3.Trunk > 1.Port

รูปแบบสายนอก
อนาล็อก

ชนิดของ Caller ID

Main **Analog - Basic** Analog - CPC Detection / DISA Analog - Dialing Analog - Caller ID Analog - Collect Call Reject (f

CO Line Number	Dialing Mode	Caller ID Detection	Caller ID Detection Pattern	Reverse Detection
1 <input type="button" value="Edit"/>	DTMF	Enable	FSK	Disable
2 <input type="button" value="Edit"/>	DTMF	Enable	FSK	Disable
3 <input type="button" value="Edit"/>	DTMF	Enable	FSK	Disable
4 <input type="button" value="Edit"/>	DTMF	Enable	FSK	Disable
5 <input type="button" value="Edit"/>	DTMF	Enable	FSK	Disable
6 <input type="button" value="Edit"/>	DTMF	Enable	FSK	Disable

กำหนดสายในให้รองรับ
Caller ID

เปิดการตรวจเช็ค
Line Reverse

PBX Configuration

- 1.System
- 2.Extension
- 3.Trunk
 - 1.Port
 - 2.DIL
 - 3.DDI
 - 4.Caller ID Modify & Block
 - 5.DISAS
 - 6.Analog CO Property
 - 7.SIP Trunk Property
- 4.TRS/ARS
- 5.System Speed Dialing
- 6.Conference
- 7.Voice Mail

Network Configuration

Maintenance

3.Trunk->1.Port

HTS Web Maintenance Console
000.00211

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analog CO Property
 - 7. SIP Trunk Property
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Port

PBX Configuration > 3.Trunk > 1.Port

CO Line Number: 2

Attribution: Analog

Local Access: กด "9" ได้สายนอกนี้หรือไม่

Trunk Group: 1

เลือกใช้งานเป็นสายนอกแบบ Analog หรือ SIP

กำหนดกลุ่มสายนอก 1-8

Analog - Basic

Dialing Mode: DTMF Pulse

Caller ID Detection: Enable Disable

Caller ID Detection Pattern: FSK DTMF

Reverse Detection: Disable Outgoing Both Call

Analog - CPC Detection

CPC Signal Detection Time Outgoing: None (ms)

CPC Signal Detection Time Incoming: None (ms)

3.Trunk->2.DIL

HTS Web Maintenance Console 000.00211

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1.Port
 - 2.DIL
 - 3.DDI
 - 4.Caller ID Modify & Block
 - 5.DISAS
 - 6.Analog CO Property
 - 7.SIP Trunk Property

- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

DIL

PBX Configuration > 3.Trunk > 2.DIL

CO Line Number	Day	Lunch	Night
1	101/	101/	101/
2	101/	124/ 501/DISA 502/DISA 503/DISA 504/DISA 505/DISA 506/DISA 507/DISA 508/DISA 509/DISA 510/DISA	101/
3	101/	601/Group 602/Group 603/Group 604/Group	101/
4	101/		101/
5	101/		101/
6	101/		101/
7	101/		101/
8	101/		101/

กำหนดสายเรียกเข้ามาที่แต่ละสายนอกมาตั้งที่ใดตามช่วงเวลา

Extension Number-สายในที่ต้องการ

501/DISA เสียงตอบรับอัตโนมัติ

601/group กลุ่มสายใน (กระดิ่งตั้งหลายๆเครื่อง)

3.Trunk->3.DDI

HTS Web Maintenance Console

000.00211

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1.Port
 - 2.DIL
 - 3.DDI
 - 4.Caller ID Modify & Block
 - 5.DISAS
 - 6.Analog CO Property
 - 7.SIP Trunk Property
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

DDI

PBX Configuration > 3.Trunk > 3.DDI

Dialing Plan

SIP Carrier	DDI	Remove Digit	Additional Dial [0-9 # *]
1	Enable ▼	0 ▼	<input type="text"/>
2	Enable ▼	0 ▼	<input type="text"/>

DDI Table

No.	DDI Number [0-9 # *]	Name	Destination Day	Destination Lunch	Destination Night
1	<input type="text"/>	<input type="text"/>	<input type="text" value="▼"/>	<input type="text" value="▼"/>	<input type="text" value="▼"/>
2	<input type="text"/>	<input type="text"/>	<input type="text" value="▼"/>	<input type="text" value="▼"/>	<input type="text" value="▼"/>

กำหนดสายเรียกเข้ามาที่แต่ละสายนอกมาตั้งที่ใดตามช่วงเวลาแบบตรวจสอบหมายเลข DDI

Extension Number-สายในที่ต้องการ

501/DISA เสียงตอบรับอัตโนมัติ

601/group กลุ่มสายใน (กระดิ่งดังหลายๆเครื่อง)

3.Trunk->4.Caller ID Modify & Block

HTS Web Maintenance Console

000.00211

Caller ID Modify & Block

PBX Configuration > 3.Trunk > 4.Caller ID Modify & Block

การกำหนดเมื่อรับหมายเลข Caller ID เข้ามาแล้ว ให้ทำการเปลี่ยนแปลงหรือไม่

Incoming Call Block when No Caller ID Enable Disable

Caller ID Modify Table

Item	Area Code (6 digits) [0-9]	Removed Number of Digits	Added Number (4 digits) [0-9 # *]
Local / International Call Data1	<input type="text" value="011"/>	<input type="text" value="0"/> ▼	<input type="text"/>
Local / International Call Data2	<input type="text"/>	<input type="text" value="0"/> ▼	<input type="text"/>
Local / International Call Data3	<input type="text"/>	<input type="text" value="0"/> ▼	<input type="text"/>
Local / International Call	<input type="text"/>	<input type="text"/>	<input type="text"/>

3.Trunk->5.DISA

HTS Web Maintenance Console
000.00211

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analog CO Property
 - 7. SIP Trunk Property
- 4. TRS/ARS

DISA
PBX Configuration > 3.Trunk > 5.DISA

Message System

OGM Number	Floating Extension Number [0-9]	Name	1 Digit AA Destination (Extension Number) Dial0	1 Digit AA Destination (Extension Number) Dial1
1	501	DISA		
		DISA		

การกำหนดของระบบเสียงตอบรับอัตโนมัติ (DISA)
 OGM Number 1-10
 Floating Extension Number –หมายเลขของแต่ละ OGM
 1 Digit AA Destination การกำหนดหมายเลข 0-9 ให้ไปตั้งที่ใด
 Extension Number-สายในที่ต้องการ
 501/DISA เสียงตอบรับอัตโนมัติ
 601/group กลุ่มสายใน (กระดิ่งตั้งหลายๆเครื่อง)

1 Digit AA Destination (Extension Number) Dial9	No Dial Destination	FAX Extension
	101/	

OGM Recording – บันทึกข้อความตอบรับของบริษัท	*36 + 1 + หมายเลข OGM(501-510) + บันทึกเสียง + วางหูโทรศัพท์
OGM Playback – ฟังข้อความตอบรับ	*36 + 2 + หมายเลข OGM(501-510) + ฟังเสียง + วางหูโทรศัพท์
OGM Clear – การลบข้อความตอบรับ	*36 + 0 + หมายเลข OGM (501-510) + วางหูโทรศัพท์

3.Trunk->5.DISA

HTS Web Maintenance Console 000.00211 English (US)

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analog CO Property
 - 7. SIP Trunk Property
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

DISA

PBX Configuration > 3.Trunk > 5.DISA

Message **System**

Timer

Delayed Answer Timer (s)	5
Mute & OGM Start Timer after answering (s)	1.8
No Dial Intercept Timer (s)	10
2nd Dial Timer for AA (s)	2

DISA Cyclic Tone

DISA Cyclic Tone Detection	Fixed
Tone on Maximum Time (ms)	112
Tone off Maximum Time (ms)	112
Repeating Times of ON/OFF for Detection	3

กำหนดเวลาก่อน DISA ทำงาน

กำหนดเวลาก่อนเสียง OGM ทำงาน

กำหนดเวลา Intercepted เมื่อจบ OGM แล้วไม่กดเลขหมายใดๆ

เวลาในการกดเลขหมายผ่าน DISA แต่ละ Digit

3.Trunk->6.Analog CO Property

HTS Web Maintenance Console 000.00211 English (US)

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1.Port
 - 2.DIL
 - 3.DDI
 - 4.Caller ID Modify & Block
 - 5.DISA
 - 6.Analog CO Property
 - 7.SIP Trunk Property
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Analog CO Property

PBX Configuration > 3.Trunk > 6.Analog CO Property

Caller ID Waiting to Receive	5	(seconds)
Outgoing Guard Time	3	(seconds)
First Dial Timer (CO)	1	(seconds)

Bell Detection

Bell Start Detection Timer	144	(ms)
Bell Off Detection Timer	6	(seconds)

Pulse / DTMF Dial

DTMF Inter-digit Pause	112	(ms)
Pulse Inter-digit Pause	830	(ms)

Low Speed Pulse Dial

Pulse % Break	67%
---------------	-----

การปรับค่าการรับ Caller ID

3.Trunk->7.SIP Trunk Property

HTS Web Maintenance Console

000.00211 English (US)

PBX Configuration

- 1.System
- 2.Extension
- 3.Trunk
 - 1.Port
 - 2.DIL
 - 3.DDI
 - 4.Caller ID Modify & Block
 - 5.DISAS
 - 6.Analog CO Property
 - 7.SIP Trunk Property
- 4.TRS/ARS
- 5.System Speed Dialing
- 6.Conference
- 7.Voice Mail

Network Configuration

Maintenance

SIP Trunk Property

PBX Configuration > 3.Trunk > 7.SIP Trunk Property

Common **SIP Carrier - 1** SIP Carrier - 2

SIP Registration Status: Not yet

Provider Name (20 characters):

SIP Server Name (100 characters):

SIP Server IP Address:

SIP Server Port Number: (1 - 65535)

SIP Service Domain (100 characters): [0-9 a-z A-Z - .]

Subscriber Number: [0-9 # *]

Account

User Name (64 characters):

Authentication ID (64 characters):

Authentication Password (32 characters):

From User:

การกำหนดพารามิเตอร์ของแต่ละผู้ให้บริการ SIP Trunk

4.ARS/TRS

4. TRS/ARS -> 1. Leading Digits

HTS Web Maintenance Console 000.00211 English (US) Save & Logout

Leading Digits
PBX Configuration > 4. TRS/ARS > 1. Leading Digits

การกำหนดการจำกัดการโทร
ออกด้วยเลขหมายต่างๆโดยมีผล
ต่อ Class Of Service (COS) 1-5

No.	Leading Digits [0-9 # * N X Z]	TRS Level (COS) 1	TRS Level (COS) 2	TRS Level (COS) 3	TRS Level (COS) 4
1	011	Allow	Deny	Deny	Deny
2		Allow	Deny	Deny	Deny

TRS Level (COS) 5	ARS Carrier Priority-1	ARS Carrier Priority-2	ARS Carrier Priority-3
Deny	None	None	None
Deny	1:	None	None
Deny	2:	None	None
Deny	3:	None	None
Deny	4:	None	None
Deny	None	None	None

4. TRS/ARS -> 2. ARS Carrier

HTS Web Maintenance Console 000.00211 English (US) Save &

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
 - 1. Leading Digits
 - 2. ARS Carrier
 - 3. Account Code
 - 4. Emergency Dial
 - 5. Options
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

ARS Carrier

PBX Configuration > 4 TRS/ARS > 2. ARS Carrier

การกำหนดรูปแบบการโทร
ออกแบบการเปลี่ยนแปลงเลข
หมายก่อนการโทรออก

No.	Carrier Name	Dial Modification Remove(digits)	Dial Modification Add [0-9 # *]	Trunk Group
1	<input type="text"/>	0 ▼	<input type="text"/>	TRG1 ▼
2	<input type="text"/>	0 ▼	<input type="text"/>	TRG1 ▼
3	<input type="text"/>	0 ▼	<input type="text"/>	TRG1 ▼
4	<input type="text"/>	0 ▼	<input type="text"/>	TRG1 ▼

4. TRS/ARS -> 3. Account Code

HTS Web Maintenance Console 000.00211 English (US) Save &

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
 - 1. Leading Digits
 - 2. ARS Carrier
 - 3. Account Code
 - 4. Emergency Dial
 - 5. Options
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Network Configuration

Maintenance

Account Code

PBX Configuration > 4 TRS/ARS > 3. Account Code

การกำหนดรหัสในการโทรออกแบบ Account Code

No.	Account Code [0-9]	TRS Level (COS) Standard Dial	TRS Level (COS) Speed Dial
1	<input type="text"/>	1 ▼	1 ▼
2	<input type="text"/>	1 ▼	1 ▼
3	<input type="text"/>	1 ▼	1 ▼
4	<input type="text"/>	1 ▼	1 ▼
5	<input type="text"/>	1 ▼	1 ▼
6	<input type="text"/>	1 ▼	1 ▼

Apply Ca

Memo

A TRS level for an Account Code is applied when a user dials *47* + account code + line access code (9 or 0) and the telephone number.

Nivel de Restriccion para codigos de cuenta son aplicados cuando el usuario marque *47*, codigo de cuenta, 9 o 0 y el numero telefonico.

4. TRS/ARS -> 4. Emergency Dial

HTS Web Maintenance Console
000.00211 English (US)

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
 - 1. Leading Digits
 - 2. ARS Carrier
 - 3. Account Code
 - 4. Emergency Dial
 - 5. Options
- 5. System Speed Dialing
- 6. Conference
- 7. Voice Mail

Emergency Dial
PBX Configuration > 4 TRS/ARS > 4. Emergency Dial

เลขหมายโทรออกฉุกเฉิน
10 เลขหมาย

No.	Emergency Number [0-9 # *]
1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>
6	<input type="text"/>

4.TRS/ARS->5.Options

The screenshot displays the HTS Web Maintenance Console interface. The top navigation bar includes the HTS logo, the text 'Web Maintenance Console' with the phone number '000.00211', and a language dropdown menu set to 'English (US)'. On the left, a 'PBX Configuration' sidebar lists various settings, with '4. TRS/ARS' expanded to show sub-items: '1. Leading Digits', '2. ARS Carrier', '3. Account Code', '4. Emergency Dial', and '5. Options'. The main content area is titled 'Options' and shows the breadcrumb 'PBX Configuration > 4 TRS/ARS > 5.Option'. It contains two configuration items: 'TRS Check for Dial * #' with radio buttons for 'No Check' (selected) and 'Check', and 'Dial Digits Limitation after Answering' with a dropdown menu set to '5'. Below these is a 'Memo' section with an empty text input field.

5.Speed Dial

5.System Speed Dialing->1.Speed Dial

HTS Web Maintenance Console 000.00211 English (US) Save & Logout

System Speed Dialing
PBX Configuration > 5.System Speed Dialing > 1.System Speed Dialing

หมายเลขโทรออกผ่าน System Speed Dialing 200 ตำแหน่ง (000-199)

System Speed Dialing Number	Name (20 characters)	CO Line Access Number + Telephone Number (32 digits) [0-9 # *]	CLI Destination
000	<input type="text"/>	<input type="text"/>	<input type="text"/>
001	<input type="text"/>	<input type="text"/>	<input type="text"/>
002	<input type="text"/>	<input type="text"/>	<input type="text"/>
003	<input type="text"/>	<input type="text"/>	<input type="text"/>
004	<input type="text"/>	<input type="text"/>	<input type="text"/>

การโทรออกผ่าน System Speed Dialing (SSD) ** + ตำแหน่ง SSD (000-199)

6.Conference

6.Conference->1.Meet Me

HTS Web Maintenance Console 000.00211 English (US) Save & Logout

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialing
- 6. Conference
- 1. Meet Me
- 7. Voice Mail

Network Configuration

Maintenance

Meet Me

PBX Configuration > 6.Conference > 1.Meet Me

Conference1

Conference Room Extension Number: 691 [0-9]

Name: Meet Me

Access Code: 1234 [0-9]

Conference2

Conference Room Extension Number: 692 [0-9]

Name: Meet Me

Access Code: [0-9]

Conference3

Conference Room Extension Number: 693 [0-9]

Name: Meet Me

Access Code: [0-9]

Apply Cancel

Memo: Each conference room has an extension number.
An access code is required after calling the extension number.

การกำหนดกลุ่มการประชุมสายและรหัสผ่านในการประชุมได้ 3 กลุ่ม

การใช้งาน ยกหูโทรศัพท์ -> 691 -> ได้ยินเสียงเตือน -> รหัสผ่าน (1234) -> สนทนา

7.Voice Mail (VM)

7.Voice Mail->1.Voice Mail

HTS Web Maintenance Console 000.00211 English (US) Save & Logout

PBX Configuration

- 1.System
- 2.Extension
- 3.Trunk
- 4.TRS/ARS
- 5.System Speed Dialing
- 6.Conference
- 7.Voice Mail
 - 1.Voice Mail

Network Configuration

Maintenance

Voice Mail

PBX Configuration > 7.Voice Mail > 1.Voice Mail

Voice Mail Extension Number: 500 [0-9]

Prompt Language: Prompt1: US-English

Option Prompt

Option Prompt Language: None

Upload Option Prompt:

Memo

The maximum recording duration is a total of 2 hours for: (1) Left voice messages, (2)Personal greetings for VM and (3)DISA greetings. Older recordings in (1) are deleted automatically when the memory is full.

El tiempo de grabacion maximo es de 2 horas para un total de (1) mensaje de voz dejado, (2) mensajes de bienvenida personales para CV y 3 bienvenida de DISA. Grabaciones anteriores en (1) son almacenadas automaticamente cuando la memoria esta llena.

เลขหมายของ Voice Mail

CO Line Connection

Disable unused Analog CO.

เลือก "No Connect" กรณีไม่ใช้งานพอร์ตสายนอก

Port

PBX Configuration > 3.Trunk > 1.Port

CO Line Number 4.

Attribution Analogue

Local Access SIP Carrier - 1

Trunk Group SIP Carrier - 2

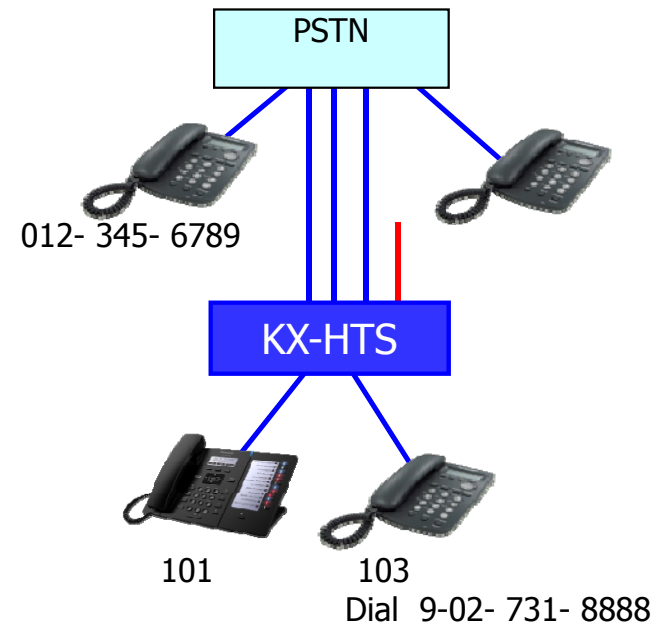
Analogue - Basic

Dialling Mode DTMF Pulse

Caller ID Detection Enable Disable

Caller ID Detection Pattern FSK DTMF

Reverse Detection Disable Outgoing B



PSTN = Public Switched Telephone Network

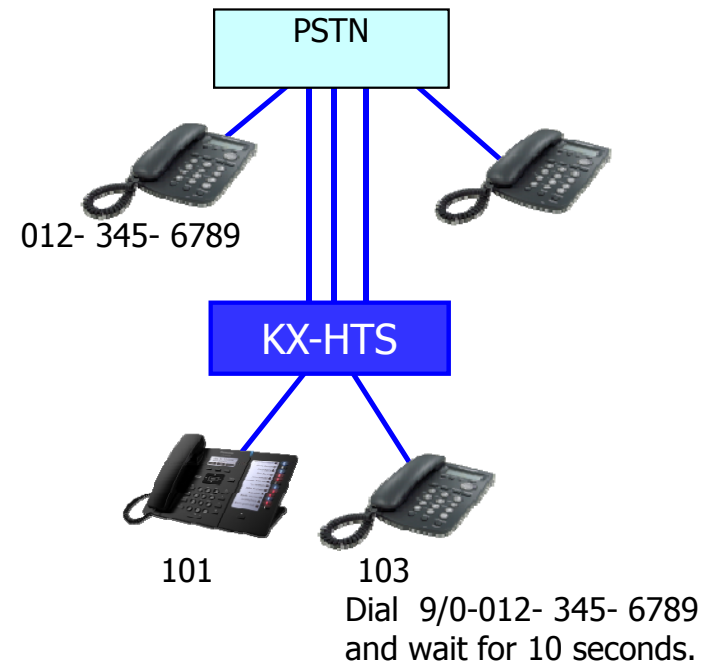
Assign PSTN Dialing Plan.

Dialing plan สำหรับ Analog CO และ SIP trunk จะต้องทำการโปรแกรมเพื่อให้การโทรออกได้เร็วไม่ต้องรอเวลา Inter-Digit ค่าจากโรงงาน 10 วินาที

Numbering Plan
PBX Configuration > 1.System > 4.Numbering Plan

Main Features Quick Dial **Dialing Plan**

No.	Trunk Dialing Plan (32 digits) [0-9 # * N X]
1	<input type="text" value="9N11"/>
2	<input type="text" value="9N00XXXX"/>



Connect Analog CO and Confirm it.

เมื่อ KX-HDV กดเลือกสายนอก (CO) จะได้ยินได้ Dial Tone จาก KX-HDV ไม่ใช่สัญญาณจากผู้ให้บริการ (PSTN)

<KX-HDV>

Dial 80 + CO number (1-8) + หมายเลขโทรศัพท์ปลายทาง + Off hook.

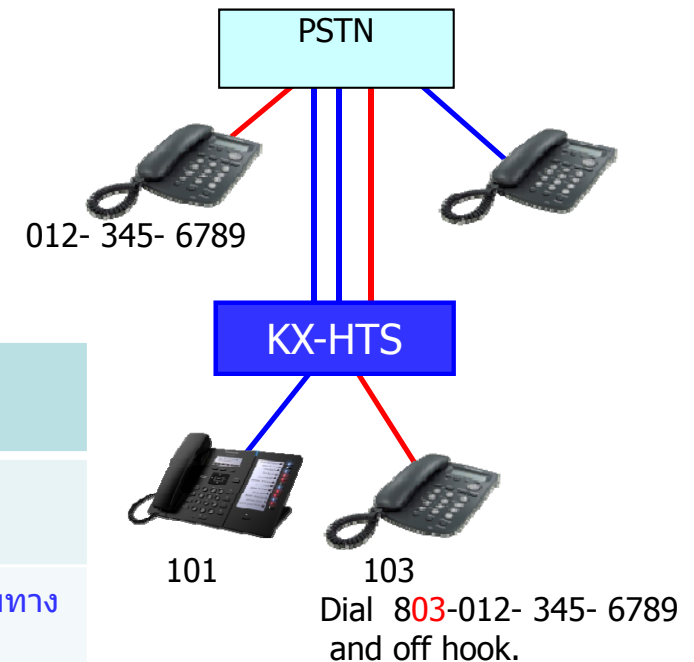
=> สนทนา

<SLT>

Off hook and Dial 80 + CO number (1-8)

+ หมายเลขโทรศัพท์ปลายทาง + Off hook.

=> สนทนา หลังจาก 10 วินาที



การโทรออกสายนอกแบบกดเลข "9"	9 + เลขหมายปลายทาง
การโทรออกแบบเจาะจงสายนอก	80 + ตำแหน่งสายนอก (0-8) + เลขหมายปลายทาง
การโทรออกแบบเจาะจงกลุ่มสายนอก	8# + ตำแหน่งกลุ่มสายนอก (0-8) + เลขหมายปลายทาง

IP Configuration

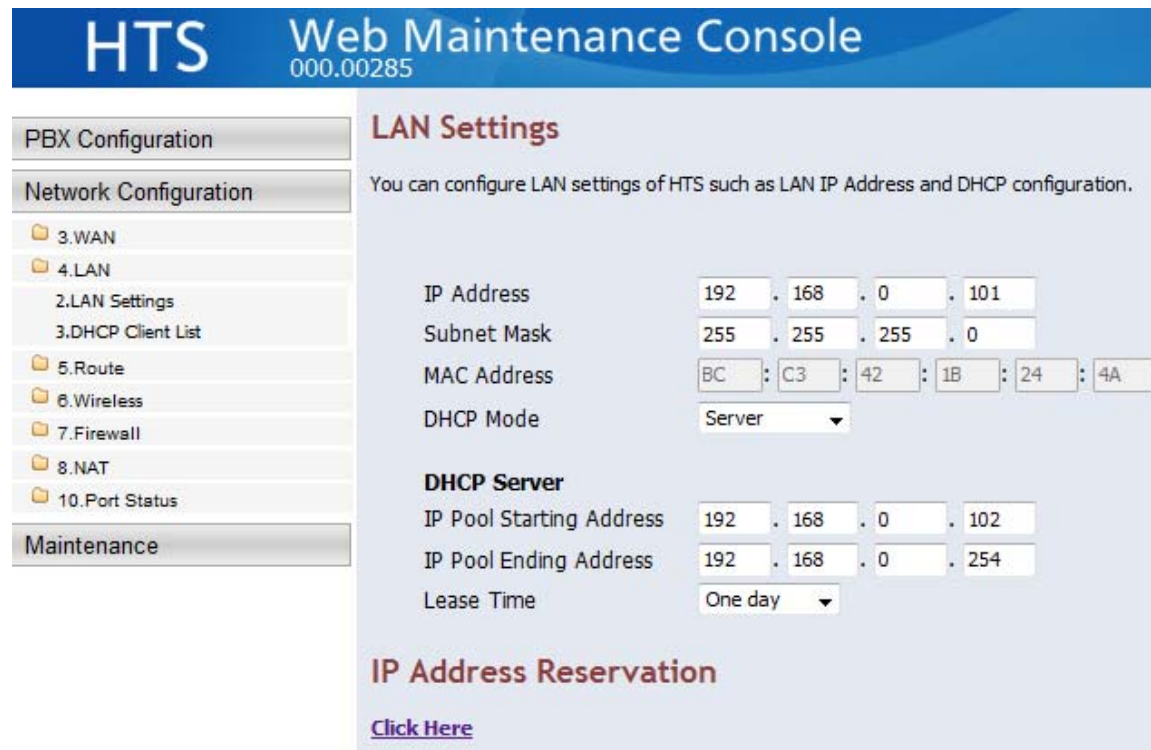
LAN / Wireless LAN / WAN

KX-HTS824BX จะมี Router ทำงานร่วมกับ PBX.



LAN

IP address สำหรับ IP terminal บนพอร์ต LAN ของ KX-HTS824BX จะได้รับ IP อัตโนมัติจาก DHCP server ภายใน KX-HTS824BX โดยค่า default.



The screenshot shows the 'LAN Settings' page in the HTS Web Maintenance Console. The page title is 'HTS Web Maintenance Console 000.00285'. The left sidebar shows a navigation menu with 'Network Configuration' selected, and '4.LAN' and '2.LAN Settings' highlighted. The main content area is titled 'LAN Settings' and contains the following configuration options:

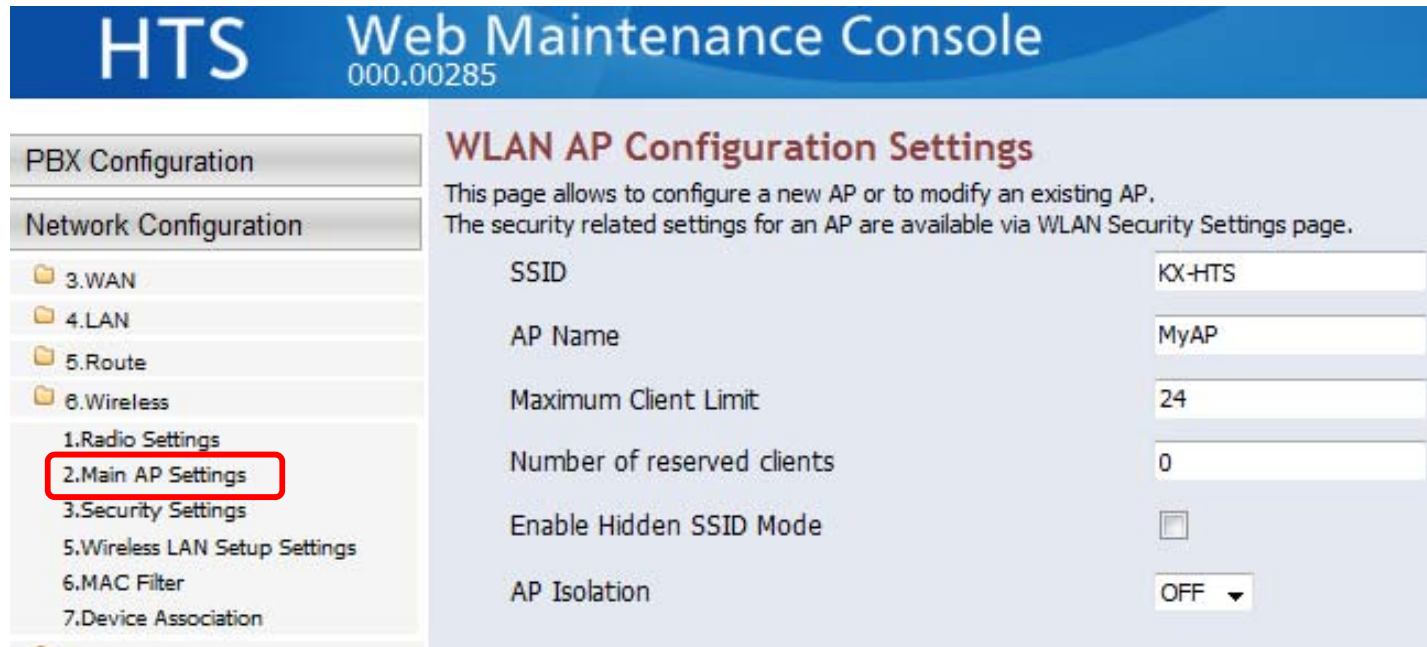
- IP Address:** 192 . 168 . 0 . 101
- Subnet Mask:** 255 . 255 . 255 . 0
- MAC Address:** BC : C3 : 42 : 1B : 24 : 4A
- DHCP Mode:** Server (dropdown menu)
- DHCP Server:**
 - IP Pool Starting Address:** 192 . 168 . 0 . 102
 - IP Pool Ending Address:** 192 . 168 . 0 . 254
 - Lease Time:** One day (dropdown menu)

At the bottom, there is a section for 'IP Address Reservation' with a link labeled 'Click Here'.


Wireless LAN : SSID

SSID และ Security Key สามารถโปรแกรมผ่าน Web-MC

Default of SSID is "KX-HTS".



The screenshot displays the HTS Web Maintenance Console interface. The left sidebar shows a navigation menu with '2.Main AP Settings' highlighted in a red box. The main content area is titled 'WLAN AP Configuration Settings' and includes a description: 'This page allows to configure a new AP or to modify an existing AP. The security related settings for an AP are available via WLAN Security Settings page.' Below this, several configuration fields are visible: SSID (KX-HTS), AP Name (MyAP), Maximum Client Limit (24), Number of reserved clients (0), Enable Hidden SSID Mode (checkbox), and AP Isolation (OFF).

Buffalo-G-ABAA 
App TEST AP 
Buffalo-G-3E3C 
KX-HTS 



Wireless LAN : Security Key

SSID และ Security Key สามารถโปรแกรมผ่าน Web-MC
Security key is not common by default to prevent from unexpected access.

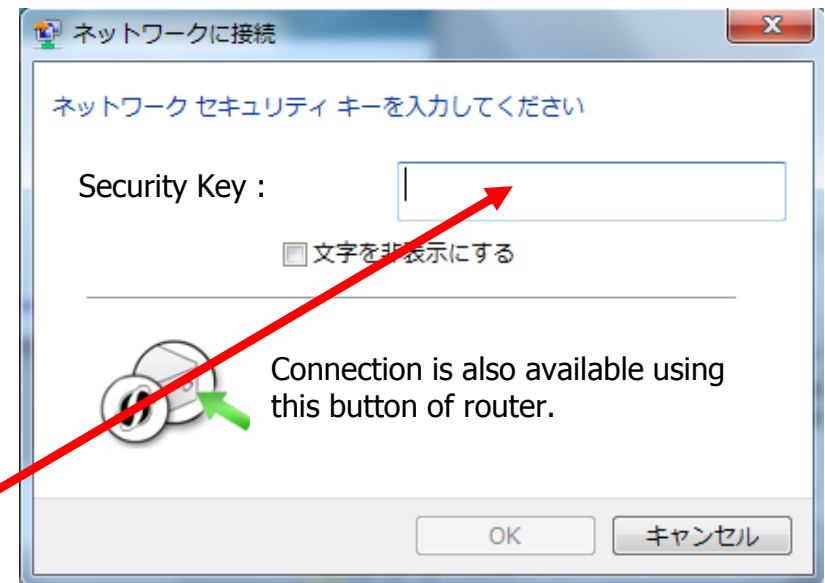
WLAN Security Settings
AP related security configuration settings.

AP name: MyAP
SSID: KX-HTS824

Security Selection
Security: WPA2
Authentication Type: Personal
Encryption Type: CCMP

WPA/WPA2 Settings
Re-Key Interval: 3600

Personal Settings
Use PSK:
Pre-Shared Key:
Passphrase: HTSBCC3421B244A
Display/Hide Passphrase/PSK

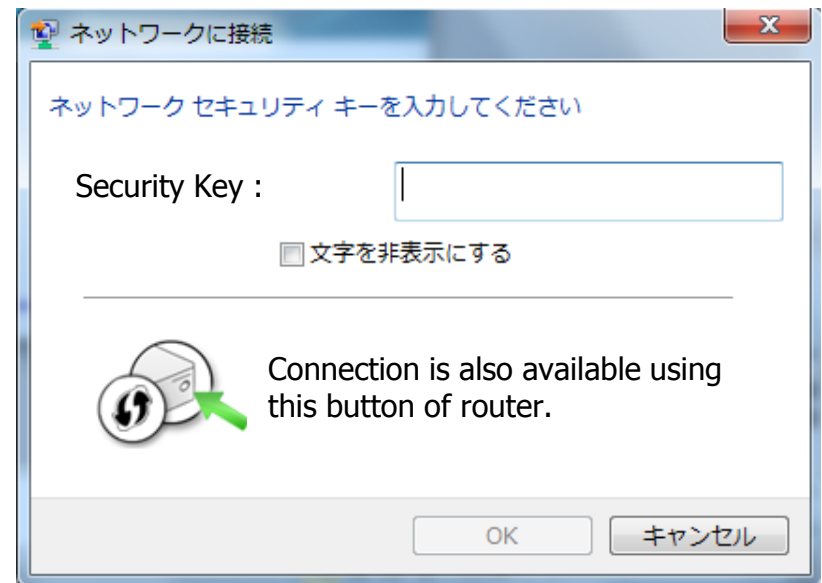
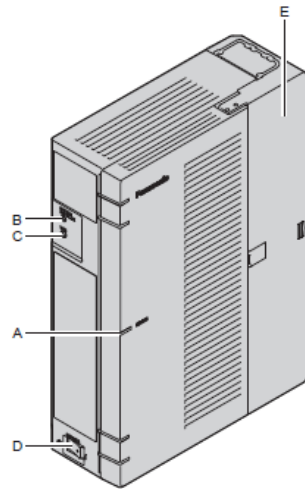


Wireless LAN : Setup button

กรณีใช้คอมพิวเตอร์ต่อผ่าน Wireless LAN สำหรับ Easy Set-up หลังจากที่ทำกร initialize โดยการกดปุ่ม Setup button โดยไม่ต้องใส่ค่า security key.

1. เลือก SSID บนคอมพิวเตอร์เป็น "KX-HTS" .
2. กดปุ่มตำแหน่ง C ที่ KX-HTS824BX.

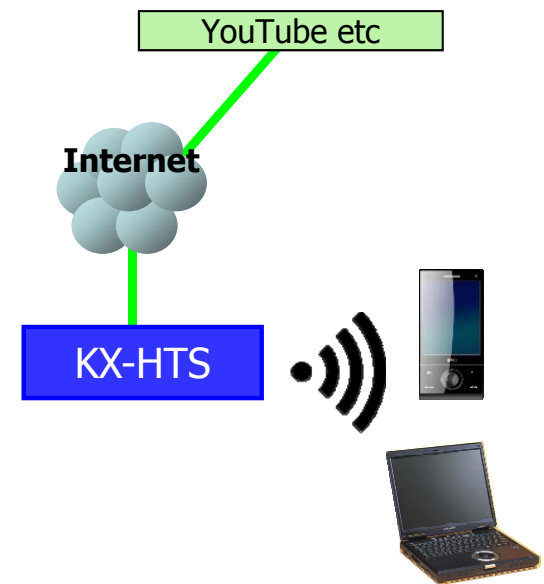
(C) is the button.



WAN for Internet

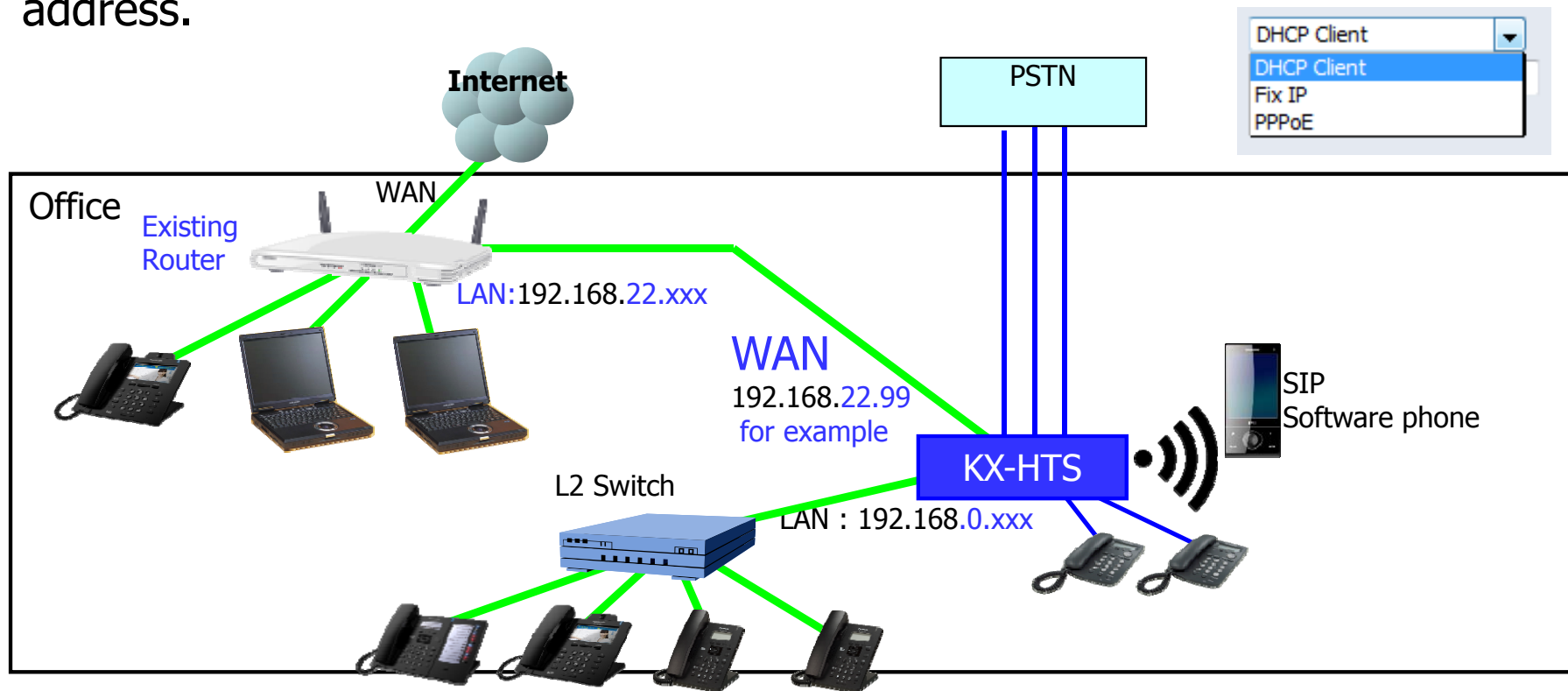
WAN port สามารถต่อออก internet by PPPoE .
Ask User Name and Password to your internet provider.

The screenshot shows the 'HTS Web Maintenance Console' interface. The title bar includes 'HTS' and 'Web Maintenance Console 000.00285'. On the left, there is a navigation menu with categories: 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'Network Configuration', '3.WAN' is selected, showing sub-items: '1.WAN Setting', '2.WAN Status', '4.DDNS', '4.LAN', '5.Route', '6.Wireless', '7.Firewall', '8.NAT', and '10.Port Status'. The main content area is titled 'WAN' and contains the text: 'HTS can be connected to your service provider in any of the following ways'. Below this, there are several configuration fields: 'WAN TYPE' (a dropdown menu with 'PPPoE' selected), 'WAN connection Name' (a text input field), 'User Name' (a text input field), 'Password' (a text input field), 'Please retype your password' (a text input field), 'Service Name' (a text input field with '(optional)' next to it), 'Access Concentrator Name' (a text input field with '(optional)' next to it), and 'Relay LAN site PPPoE session' (a checkbox).



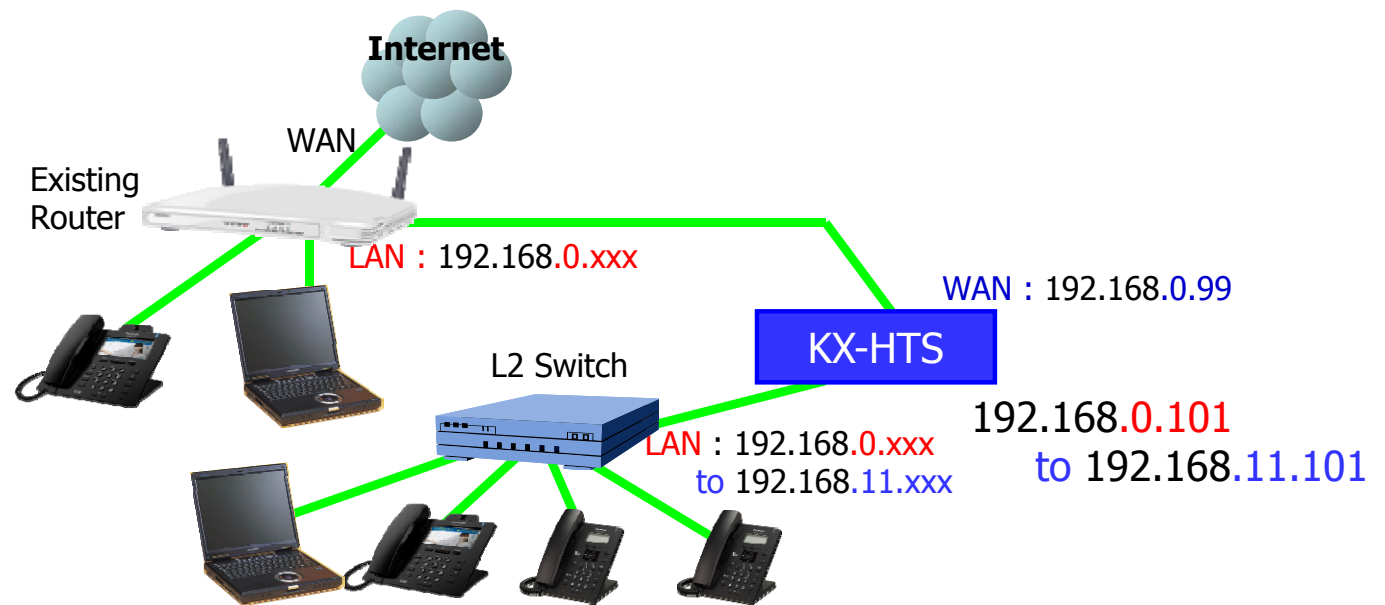
Connection to LAN of Existing Router

WAN port ของ KX-HTS824BX สามารถต่อแบบ DHCP client หรือ Fixed IP address.



LAN of Existing Router - Condition

จะต้องกำหนดให้ LAN พอร์ตของ Router ภายนอก กับ LAN พอร์ตของ KX-HTS824BX ให้มีค่าต่างกัน



Change IP address of LAN.

LAN Settings

You can configure LAN settings of HTS such as LAN IP Address and DHCP configuration.

IP Address 192 . 168 . 11 . 101
Subnet Mask 255 . 255 . 255 . 0
MAC Address BC : C3 : 42 : 1B : 24 : 4A
DHCP Mode Server

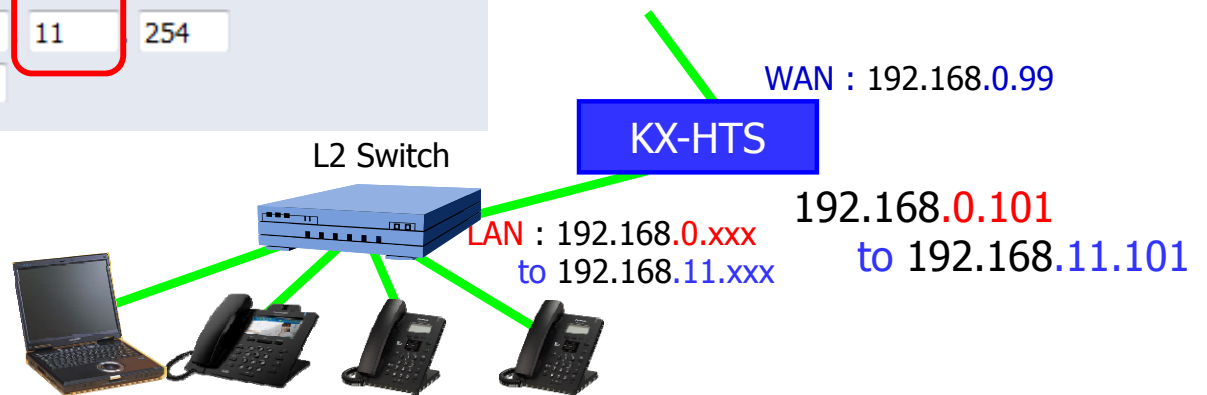
DHCP Server

IP Pool Starting Address 192 . 168 . 11 . 102
IP Pool Ending Address 192 . 168 . 11 . 254
Lease Time One day

The set values are effective after the system reset.
Before the system reset, please backup the system data to the storage memory.
You can use the System Reset feature in the System Control menu.

OK

キャンセル



Incoming Call

DIL

สามารถเลือกการทำงานสายเรียกเข้ามาได้หลายแบบ

เลือก "101" สำหรับ CO-1.

เลือก "602:Group" สำหรับ CO-2.

เลือก "501:DISA" สำหรับ CO-3.

HTS Web Maintenance Console
000.00285

DIL
PBX Configuration > 3.Trunk > 2.DIL

CO Line Number	Day	Lunch	Night
1	101/	101/	101/
2	602/Group	101/	101/
3	101/	101/	101/
4	501/DISA	101/	101/
5	101/	101/	101/

4. TRS/ARS

Week Table

Time service สามารถเลือกการทำงานได้ทั้งแบบ Automatically หรือ Manual สามารถดู Time service และ switched โดยการโปรแกรมผ่าน Web-MC.

HTS Web Maintenance Console
000.00285

PBX Configuration

- 1. System
 - 1. Date & Time
 - 2. MOH
 - 3. Week Table
 - 4. Numbering Plan
 - 5. Timers
 - 6. System Options
 - 7. SMDR
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialling
- 6. Conference
- 7. Voice Mail

Network Configuration

Week Table

PBX Configuration > 1. System > 3. Week Table

Time Service Switching Mode
 Manual Automatic

Current Mode
Day
Day
Lunch
Night

Week	Day 1 Start			Day 2 Start			Night Start					
	Enable	Hour	Minute	Enable	Hour	Minute	Enable	Hour	Minute	Enable	Hour	Minute
Sunday	<input checked="" type="checkbox"/>	9	0	<input type="checkbox"/>	12	0	<input type="checkbox"/>	13	0	<input type="checkbox"/>	17	0
Monday	<input checked="" type="checkbox"/>	9	0	<input type="checkbox"/>	12	0	<input type="checkbox"/>	13	0	<input type="checkbox"/>	17	0
Tuesday	<input checked="" type="checkbox"/>	9	0	<input type="checkbox"/>	12	0	<input type="checkbox"/>	13	0	<input type="checkbox"/>	17	0

Extension Group - Member

เลือก "101"และ"102" เป็นสมาชิกใน group "602".

The screenshot shows the HTS Web Maintenance Console interface. The left sidebar contains a navigation menu under 'PBX Configuration' with categories: 1. System, 2. Extension, 3. Trunk, 4. TRS/ARS, 5. System Speed Dialling, and 6. Conference. Under '2. Extension', there are sub-items: 1. Port, 2. Phone, 3. Flexible Buttons, 4. Extension Group, 5. Doorphone, 6. Analogue SLT Property, and 7. SIP Extension Property. The main content area is titled 'Extension Group' and shows a breadcrumb path: PBX Configuration > 2.Extension > 4.Extension Group. A 'Group Number' dropdown menu is set to '602/Group'. Below this, there are two tabs: 'Group Setting' and 'Extension of Member', with the latter being active. Under the 'Extension of Member' tab, there is a table with the following data:

	Extension No.	Setting
1	101/	
2	102/	
3		
4		

DISA

เลือก "602" สำหรับ AA-1 ของ DISA501.

HTS Web Maintenance Console
000.00285

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analogue CO Property
 - 7. SIP Trunk Property
- 4. TRS/ARS
- 5. System Speed Dialling
- 6. Conference
- 7. Voice Mail

DISA
PBX Configuration > 3.Trunk > 5.DISAS

Message System

OGM Number	Floating Extension Number [0-9]	Name	1 Digit AA Destination (Extension Number) Dial0	1 Digit AA Destination (Extension Number) Dial1
1	501	DISA		
2	502	DISA		
3	503	DISA		

124/
601/Group
602/Group
603/Group

Music on Hold for DISA

Sending Music หรือ Ring-back tone สามารถเลือกในกรณี DISA call.



The screenshot shows the HTS Web Maintenance Console interface. The header includes 'HTS Web Maintenance Console' and the phone number '000.00285'. On the left, a 'PBX Configuration' menu lists various settings, with '2.MOH' selected. The main content area is titled 'MOH' and shows the configuration path 'PBX Configuration > 1.System > 2.MOH'. It features several settings: 'Music on Hold' with a radio button selected for 'Original Music'; 'Upload Music File' with a text input field and a 'Browse' button; 'Sound on Transfer' set to 'Ringback Tone'; and 'Sound on DISA' with radio buttons for 'Same as Music on Hold' and 'Ringback Tone', where 'Ringback Tone' is selected. A 'Memo' section at the bottom states: 'When an extension user holds a call, the held party hears music. A WAV file of any format can be copied to KX-HTS PBX.'

Record DISA

Manager extension สามารถบันทึก DISA greeting.
Extension 101 และ 103 เป็นเครื่อง Manager โดยค่าจากโรงงาน.

<IP Phone>

Dial *36 1(Recording) + 501 + ยกหูโทรศัพท์.

บันทึกเสียงหลังจากได้ยินสัญญาณเสียงเตือน

"Hello this is Panasonic Travel...."

บันทึกเสียงจบกดปุ่ม #.

การลบ OGM: *36 0 + 501 + Off hook

การฟัง OGM: *36 2 + 501 + Off hook

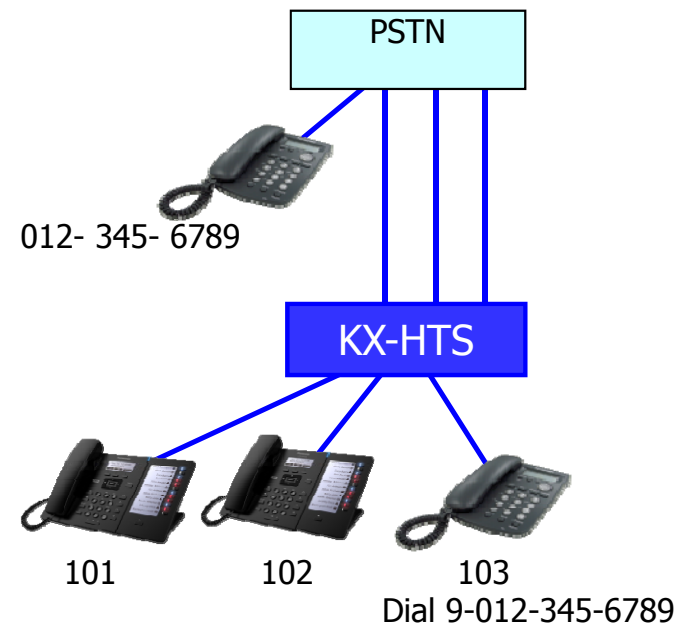
Test

Call CO 1 to 3 from PSTN.

CO-1 to Extension 101

CO-2 to Group (101 + 102)

CO-3 to DISA AA



Outgoing Call

TRS level for Extension

TRS level สามารถกำหนดให้แต่ละสายใน (extension) ตามช่วงเวลาการทำงาน (Time service)
For example, 101 for level 2 and 102 for level 3.

The screenshot shows the HTS Web Maintenance Console interface. The breadcrumb path is PBX Configuration > 2.Extension > 1.Port. The main content area displays a table of extension configurations. A red box highlights the TRS Level (COS) Day, Lunch, and Night columns for extensions 101 and 102.

Extension Number	Extension Name	Attribution	FAX Connection	Manager	TRS Level (COS) Day	TRS Level (COS) Lunch	TRS Level (COS) Night	TRS Level (COS) Speed Dial	TRS Level (COS) Dial Lock
101	Edit	SIP 23	No	Enable	2	2	2	1	5
102	Edit	SIP 24	No	Disable	3	3	3	1	5
103	Edit	Analogue SLT1	No	Enable	2	2	2	1	5

Leading Digits

Allow และ deny เป็นการโปรแกรมสำหรับการกำหนดการโทรออก

Phone number of public telephone network has to be programmed.

If programming is as follows,

9/0-011-xxxxxxxxxx except 9/0-011-81-xxxxxxxx is restricted for TRS level 2.

9/0-011-xxxxxxxxxx including 9/0-011-81-xxxxxxxx is restricted for TRS level 3.

HTS Web Maintenance Console
000.00312

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
 - 1. Leading Digits
 - 2. ARS Carrier
 - 3. Account Code
 - 4. Emergency Dial
 - 5. Options
- 5. System Speed Dialling

Leading Digits

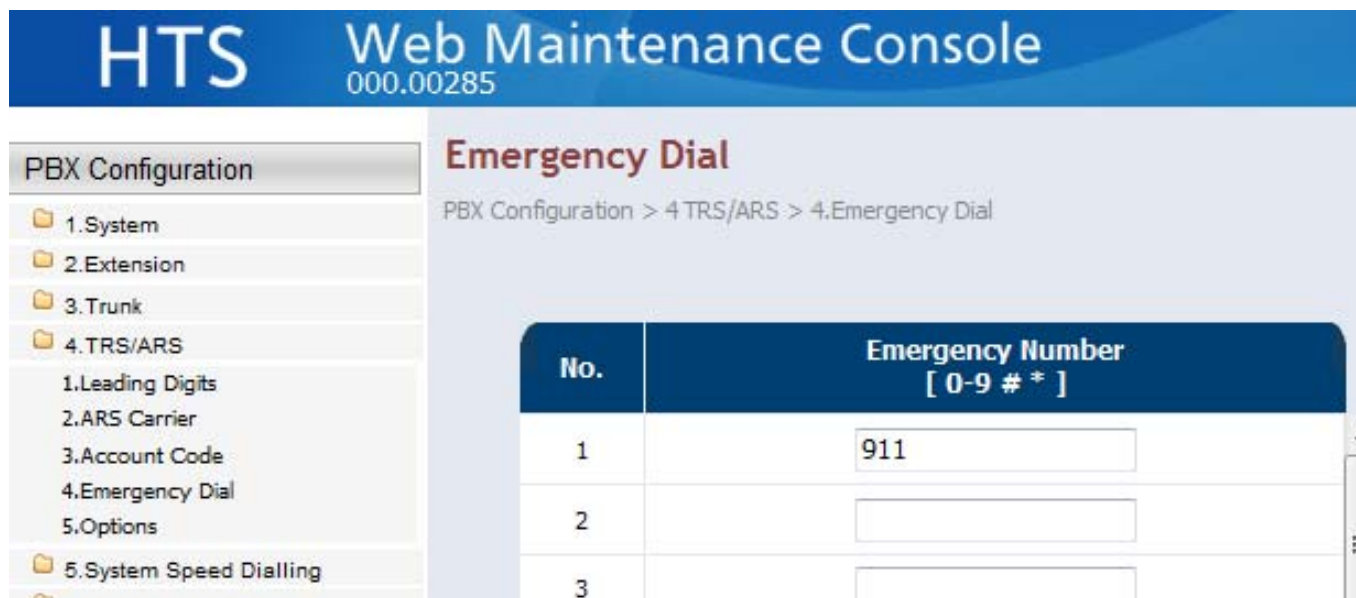
PBX Configuration > 4 TRS/ARS > 1. Leading Digits

No.	Leading Digits [0-9 # * N X Z]	TRS Level (COS) 1	TRS Level (COS) 2	TRS Level (COS) 3
1	011	Allow ▼	Deny ▼	Deny ▼
2	01181	Allow ▼	Allow ▼	Deny ▼
3		Allow ▼	Deny ▼	Deny ▼

011 is international access code from Canada. 81 is country code of Japan.

Emergency Dial

Emergency dial overrides TRS (Restriction).



HTS Web Maintenance Console
000.00285

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
 - 1. Leading Digits
 - 2. ARS Carrier
 - 3. Account Code
 - 4. Emergency Dial
 - 5. Options
- 5. System Speed Dialling

Emergency Dial

PBX Configuration > 4 TRS/ARS > 4.Emergency Dial

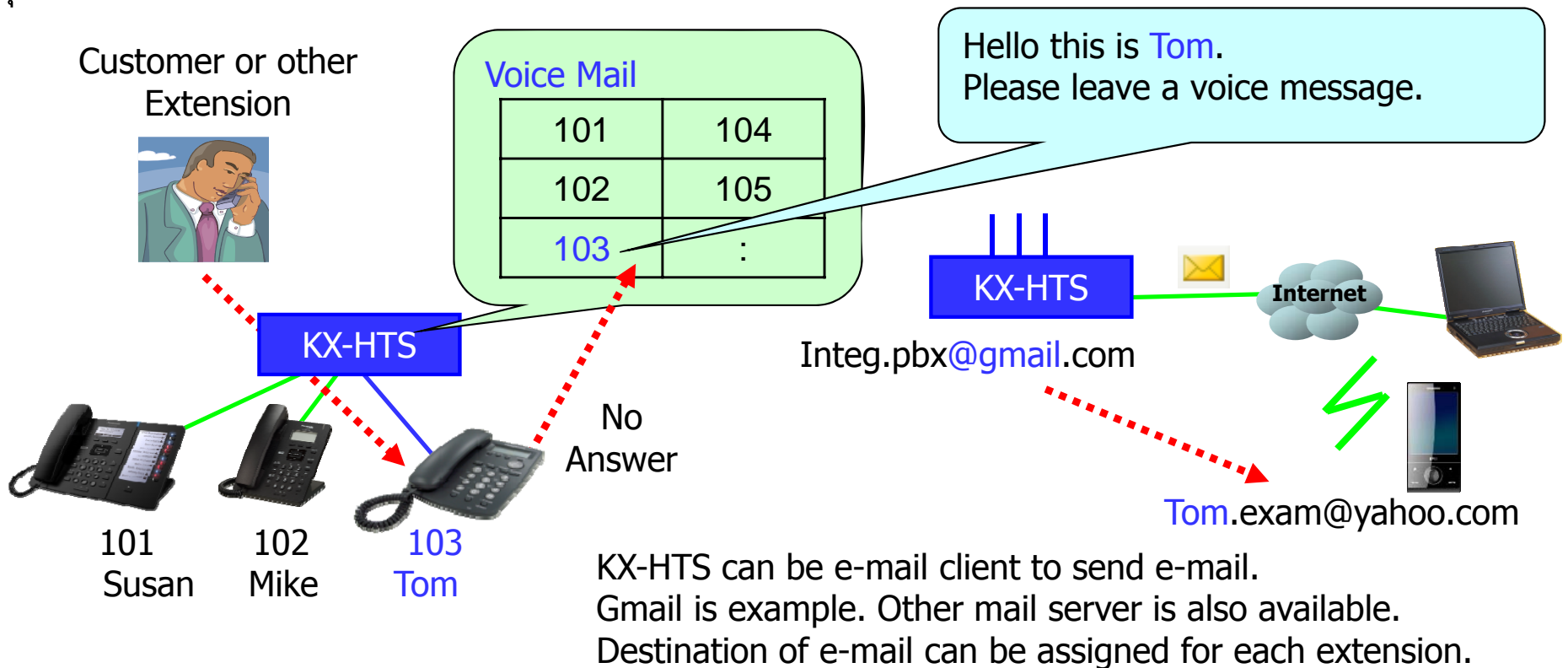
No.	Emergency Number [0-9 # *]
1	911
2	
3	

911 is to call police in Canada.

Fwd to VM

Overview

สามารถรับ voice message แบบ e-mail ด้วยคอมพิวเตอร์ หรือ smart-phone ได้ทุกที่
ทุกเวลา



Assign Fwd to VM for Ext 103.

PBX Configuration > 2.Extension > 2.Phone

Extension Number

103/

Contact

Phone (Home) 9012345678 [0-9 # *]
Phone (Mobile1) 9087654321 [0-9 # *]
Phone (Mobile2) 105 [0-9 # *]
Email Address tom.exam@yahoo.com

FWD/DND

FWD/DND Type

FWD Busy & N/A

Destination Number

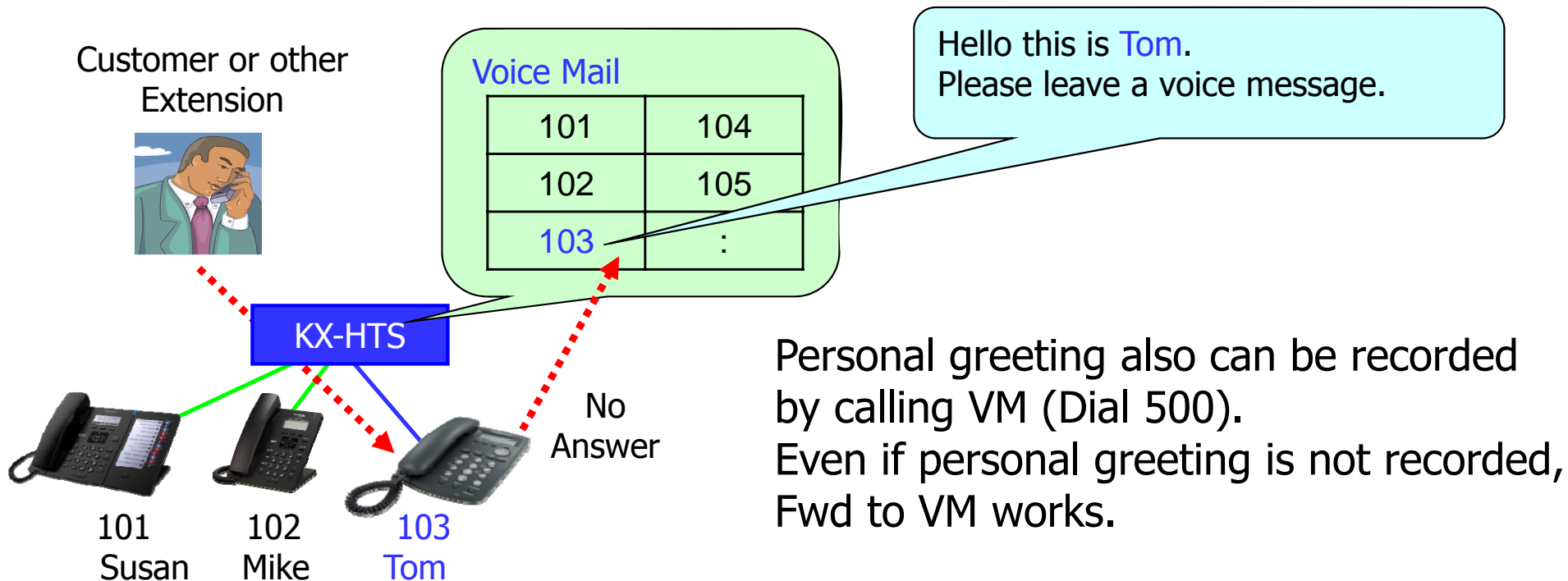
Phone (Home) 9012345678
 Phone (Mobile1) 9087654321
 Phone (Mobile2) 105
 Voice Mail 500
 Other [0-9 # *]

FWD No Answer Time

Day 30 (seconds)
Lunch 30 (seconds)
Night 30 (seconds)

Call Ext 103 and leave message.

หลังจากมีการฝาก message, Ext 103 สามารถฟังข้อความโดยการเรียกไปที่ VM (Dial 500). KX-HDV หรือ SIP phone, ปุ่ม Message สามารถกดเรียกไปที่ Voice mail ได้



Allow Extension User to Set Fwd by Web.

PBX Configuration > 2.Extension > 2.Phone

Extension Number


Web User Account

ID

Password

PIN

Do not forget "Apply".

 Web Maintenance Console

Username

Password

แต่ละสายในสามารถกำหนด Fwd, e-mail address เองได้โดยผ่านทาง Web Maintenance

E-mail with VM

Assign E-mail destination for Ext 103.

PBX Configuration > 2.Extension > 2.Phone

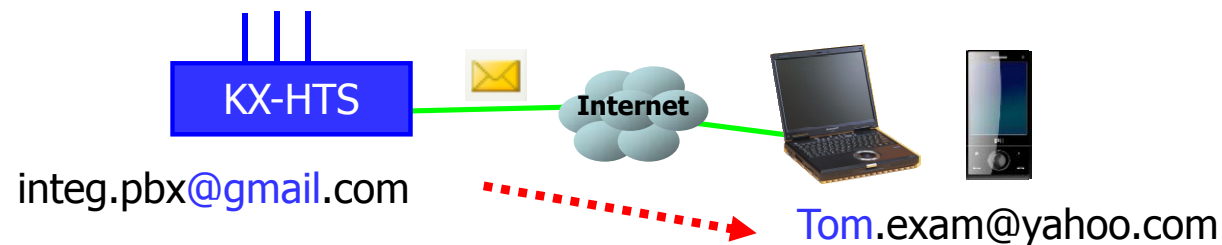
Extension Number 103/

Contact

Phone (Home)	9012345678	[0-9 # *]
Phone (Mobile1)	9087654321	[0-9 # *]
Phone (Mobile2)	105	[0-9 # *]
Email Address	tom.exam@yahoo.com	

Voice Mail

Send Email when Message is left	<input checked="" type="radio"/> Enable	tom.exam@yahoo.com
	<input type="radio"/> Disable	
Delete Message after Email	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable



Assign KX-HTS as Gmail Client.

Navigation Menu:

- PBX Configuration
- Network Configuration
- Maintenance
 - 1. Management
 - 2. System Control
 - 3. Utility
 - 1. USB
 - 2. System Log
 - 3. Email Notification

Email Notification Configuration (SMTP):

- Maintenance > 3.Utility > 3.Email Notification
- SMTP
- Mail Sender Information Name: KX-HTS
- Mail Address: integ.pbx@gmail.com
- SMTP Server for Relay
 - SMTP Server Address: IP Address Name
 - IP Address: 0 . 0 . 0 . 0
 - Name: smtp.gmail.com
 - SMTP Server Port Number: 587
 - SMTP Over TLS: Enable Disable
- SMTP Authentication
 - SMTP Authentication: Enable Disable
 - User Name: integ.pbx
 - Password: [Masked]

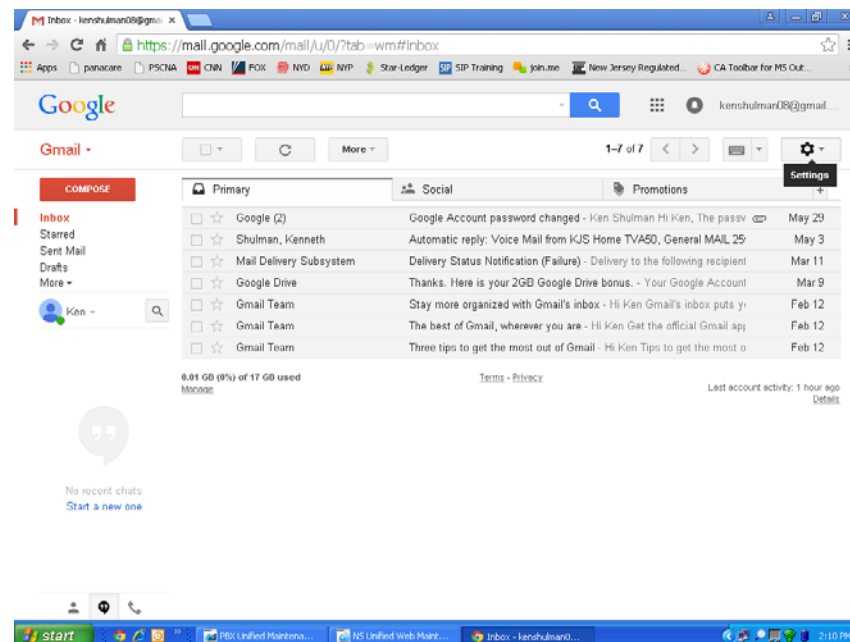
KX-HTS824BX สามารถส่ง e-mail ได้เท่านั้น ไม่สามารถรับ (receive) e-mail ได้.

Allow SMTP for Gmail.

Gmail does not support SMTP by default.

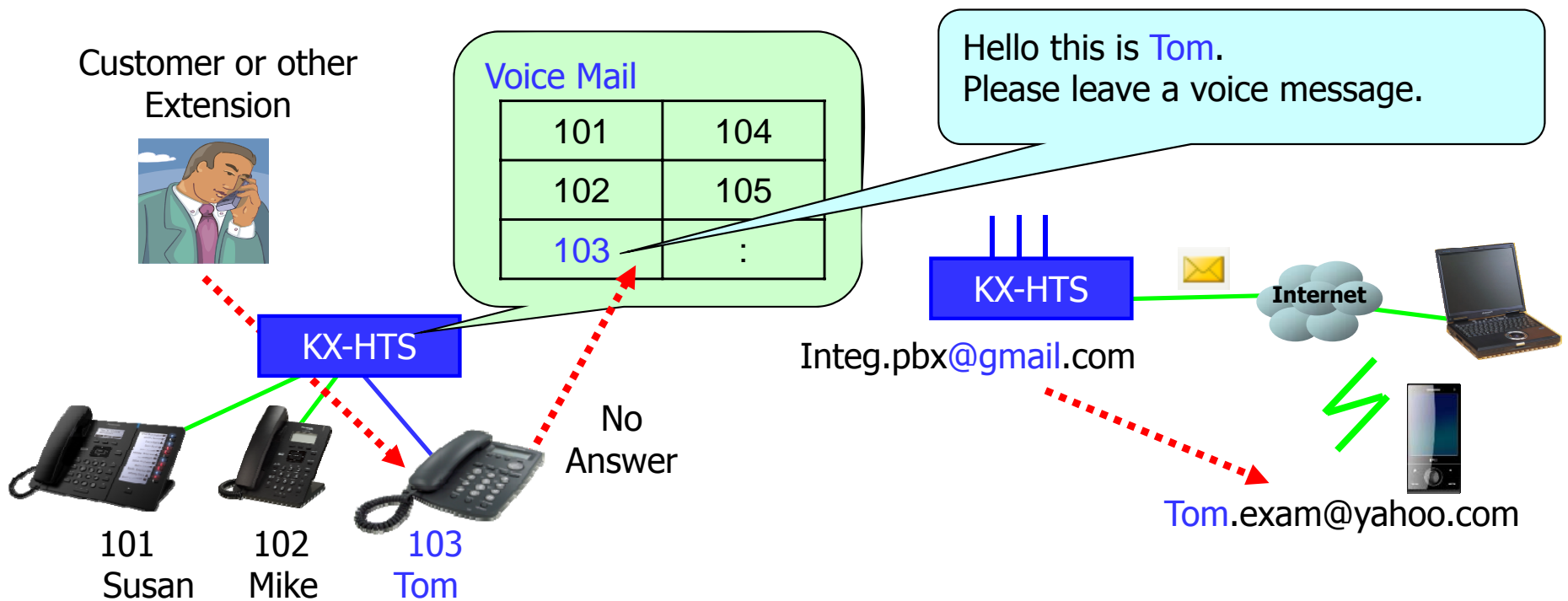
Log in to Gmail account for KX-HTS and enable it.

See <Gmail account settings required.doc> in Reference folder for details.



Call Ext 103 and leave message.

หลังจากมีผู้ฝาก message, e-mail จะถูกส่งไปพร้อม voice message.



E-mail notification for System Alarm

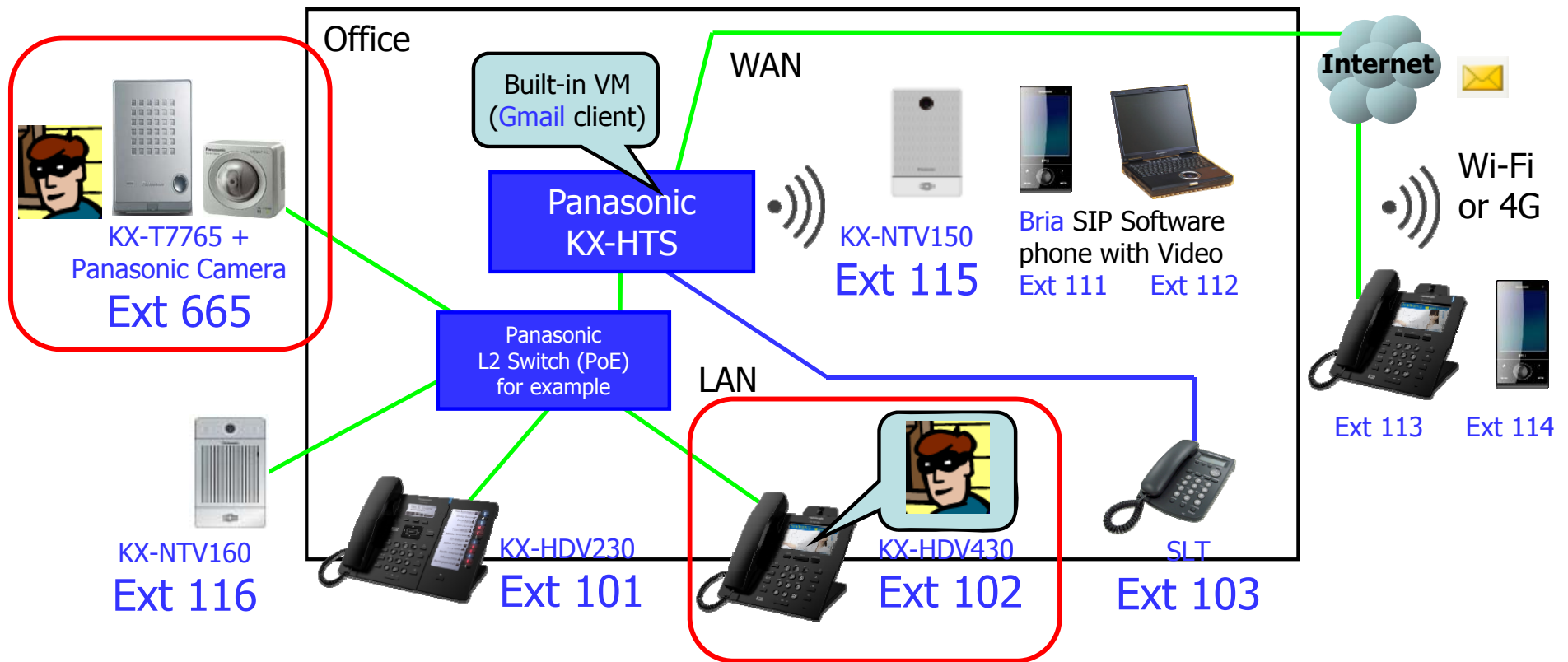
E-mail สามารถส่งออกไปเมื่อ system เกิด alarm ได้ด้วย.

The screenshot displays the configuration interface for email notifications. On the left is a navigation menu with categories: PBX Configuration, Network Configuration, and Maintenance. Under Maintenance, there are sub-items: 1. Management, 2. System Control, 3. Utility, 1. USB, 2. System Log, and 3. Email Notification. The main content area is titled 'Email Notification' and includes a breadcrumb trail: Maintenance > 3.Utility > 3.Email Notification. There are two tabs: 'Email Notification' (selected) and 'SMTP'. The 'System Alarm' section contains: 'Filtering Setting' with checkboxes for 'Major' and 'Minor'; 'Email Address 1' and 'Email Address 2' as text input fields; and 'Subject' as a text input field containing 'HTS System Alarm'. The 'Voice Mail' section has a 'Subject' text input field containing 'Voice Message Recording'. The 'Send Test Email' section has 'Email Address' and 'Subject' text input fields, with the subject field containing 'Test Email from HTS'. An 'Execute' button is located at the bottom right of the configuration area.

SIP Phone **KX-HDV**

Overview

PBX, phone และ security camera เป็นอุปกรณ์ของ Panasonic.



Plug & Play

Connect Phones.

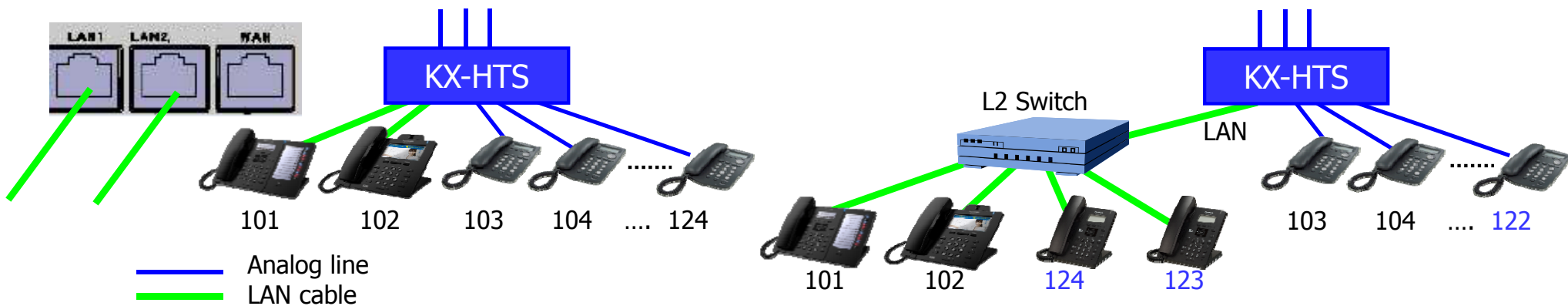
KX-HTS824BX ติดตั้งเพื่อใช้งานได้ง่าย.

ทำงานแบบ **Plug and Play** สำหรับการทำงานเบื้องต้น.

หลังจากทำการ initialize ตัวตู้สาขา จะสามารถใช้งานได้ทันที

- ทุกสายในสามารถโทรออกสายนอก (Analog CO) ได้ทันที.
- สายเรียกเข้ามาที่ Analog CO จะมาดังที่ทุกๆสายใน

Plug and Play สามารถทำงานร่วมกับ **KX-HDV SIP phone** ได้ !

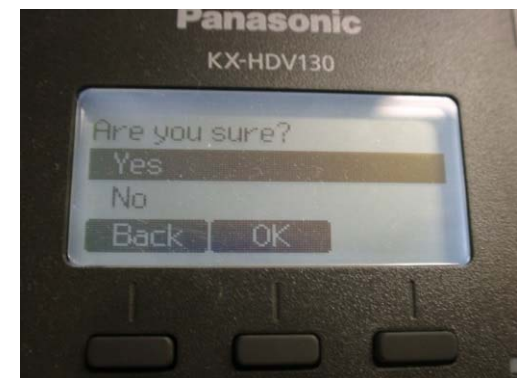
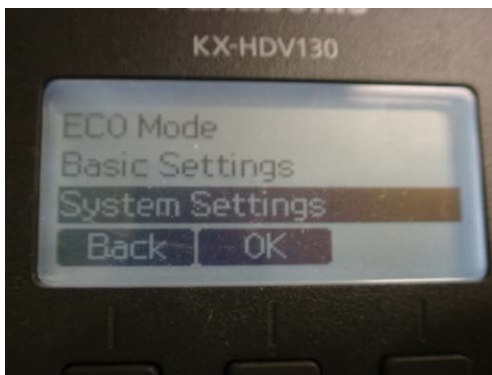


For example, 4 KX-HDV phones and 8 SLT phones can be connected without optional 8-port SLT card. Virtual card installation (like KX-NS) is also not required.

Initialize KX-HDV Phone.

ในกรณีเครื่อง KX-HDV phone ทำการใช้งานกับ PBX หรือ SIP server อื่นๆอยู่แล้ว จะต้องทำการ Initializing ตามขั้นตอนดังนี้

1. เลือก "System Settings".
2. กดปุ่ม #136.
3. เลือก "Yes".



Disable KX-HDV Automatic Registration.

สามารถกำหนดไม่ให้อัตโนมัติ SLT ทำงานแบบ SIP (KX-HDV) อัตโนมัติได้

The screenshot shows the HTS Web Maintenance Console interface. The left sidebar contains a navigation menu for PBX Configuration, with '6. System Options' selected. The main content area is titled 'System Options' and shows a breadcrumb trail: 'PBX Configuration > 1. System > 6. System Options'. Below the breadcrumb, there are tabs for 'Feature', 'Audio Gain', 'DSP', and '[Reserved]'. The 'Feature' tab is active, displaying several configuration items. The 'Forced Assignment to SIP Extension Port' option is highlighted with a red box, showing radio buttons for 'Enable' and 'Disable', with 'Disable' selected. Other options include 'Trunk Access Priority' (radio buttons for CO-8 to CO-1, CO-1 to CO-8, and Rotation), 'Reserved concurrent trunk call' (dropdown menu set to 4), and 'Reserved concurrent G.729 call' (dropdown menu set to No Reservation). Below these, the 'Ring Tone Pattern' section shows radio buttons for 'Single' and 'Double' for both 'Trunk' and 'Extension/Doorphone'.

HTS Web Maintenance Console
000.00312

PBX Configuration

- 1. System
 - 1. Date & Time
 - 2. MOH
 - 3. Week Table
 - 4. Numbering Plan
 - 5. Timers
 - 6. System Options
 - 7. CDR
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialling
- 6. Conference
- 7. Voice Mail

System Options
PBX Configuration > 1. System > 6. System Options

Feature Audio Gain DSP [Reserved]

Trunk Access Priority CO-8 to CO-1 CO-1 to CO-8 Rotation

Reserved concurrent trunk call 4

Reserved concurrent G.729 call No Reservation

Forced Assignment to SIP Extension Port Enable Disable

Ring Tone Pattern

Trunk Single Double

Extension/Doorphone Single Double

Register KX-HDV to desired extension.

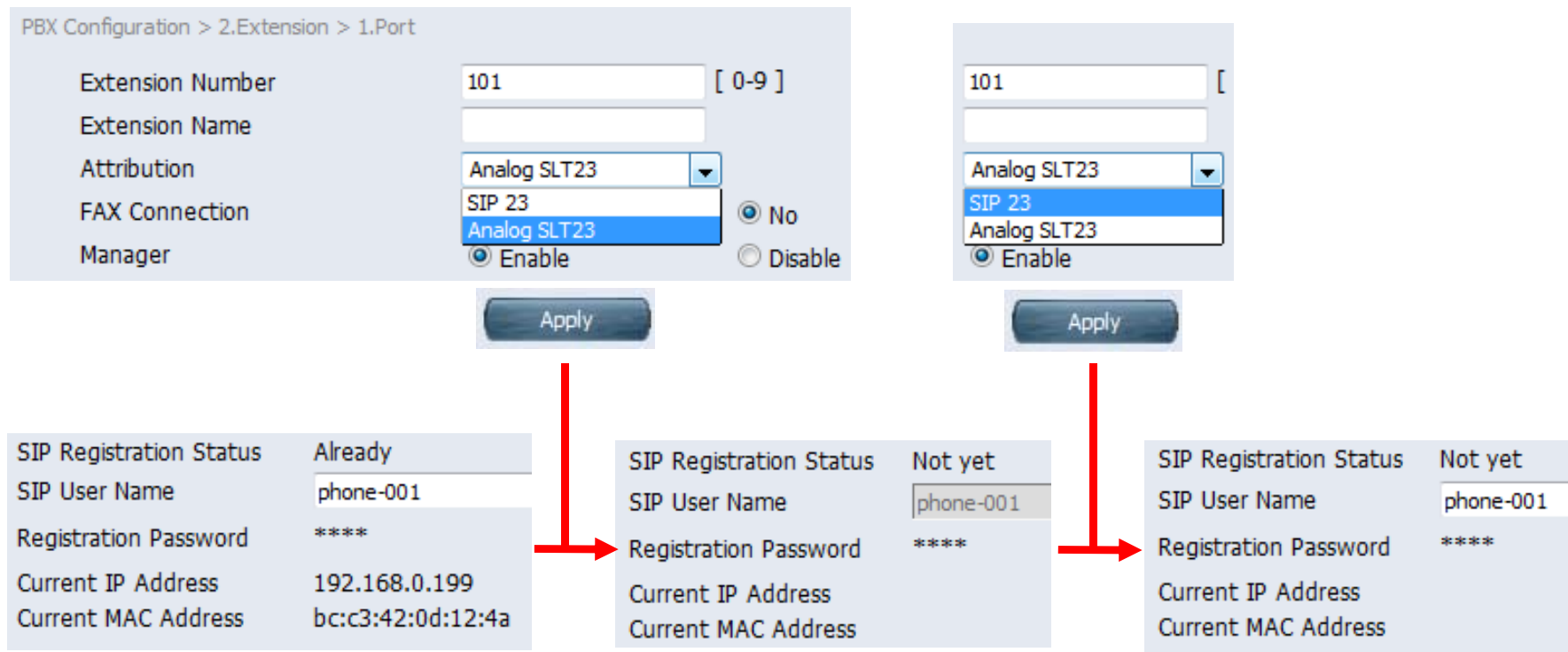
คลิกที่พอร์ต 105 เพื่อเปลี่ยนเป็น SIP.

The screenshot shows the HTS Web Maintenance Console interface. The main area displays the PBX Configuration grid with three rows of extension buttons. The first row contains extensions 119-124, the second row 111-118, and the third row 103-110. Extension 105 is highlighted with a red box. To the right of the grid are sections for Doorphone (1-2), Trunk (5-8), and another Trunk (1-4) section. Below the grid, the 'Extension Number' field is set to 105. The 'Attribution' dropdown menu is open, showing options: Analogue SLT3, SIP 3 (selected), and Analogue SLT3. There is also a radio button for 'Enable'.

When KX-HDV is connected newly, it is registered to 105 automatically.

Remove KX-HDV.

KX-HDV phone สามารถยกเลิกการใช้งานกลับ KX-HTS824BX (เพื่อการเปลี่ยนเครื่องโทรศัพท์).
KX-HDV phone is registered using **MAC-address** of each KX-HDV phone.

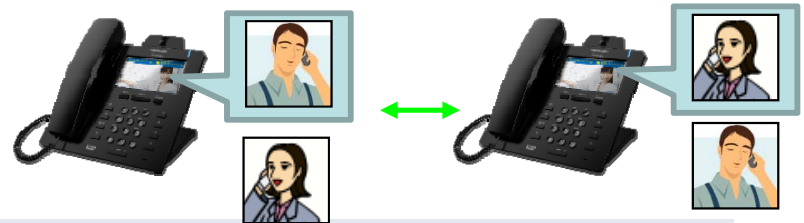


KX-HDV430

Enable Video Call for KX-HDV430.

Video call has be enabled manually.

PBX Configuration > 2.Extension > 1.Port

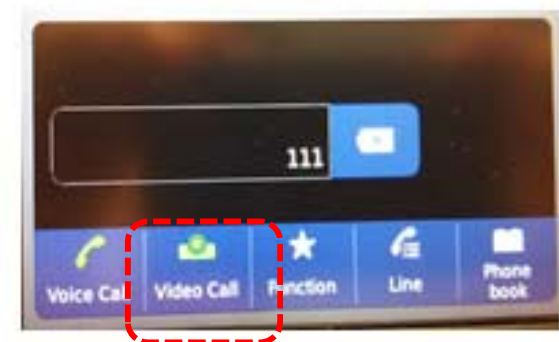
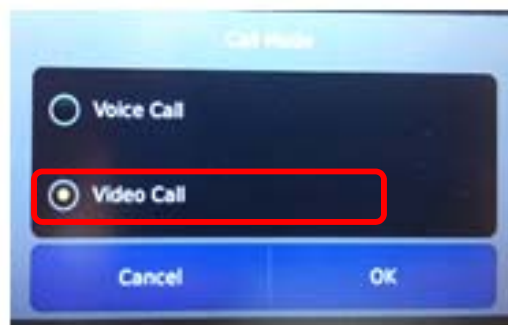
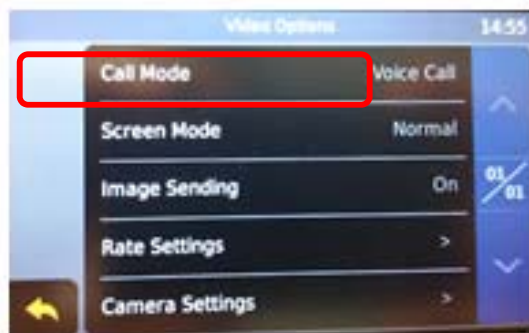
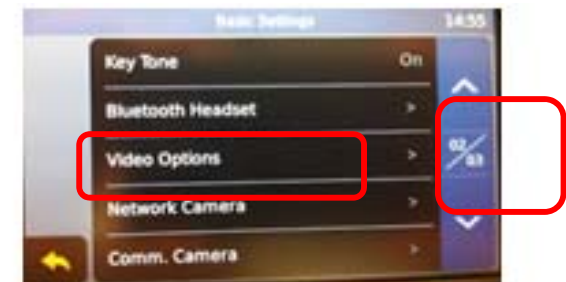
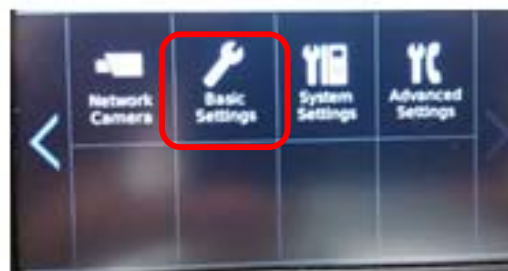
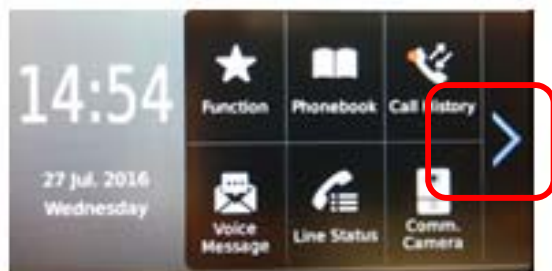


SIP Extension	
SIP Registration Status	Already
SIP User Name	phone-002 [0-9 a-z A-Z - .]
Registration Password	**** <input type="button" value="Edit"/>
Current IP Address	192.168.0.105
Current MAC Address	08:00:23:f6:71:a0
Phone Location	<input checked="" type="radio"/> Local <input type="radio"/> Remote <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(REC2833)
Video Support	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Call Limit	2

Enable Automatic Video Call.

Video call สามารถทำงานอัตโนมัติเมื่อยกหูโทรศัพท์ (Off hook) โดยไม่ต้องกดปุ่ม <Video Call> เพื่อการโทรออก

When PBX is KX-HTS, video cannot start during talking. Video has to start when talking starts.

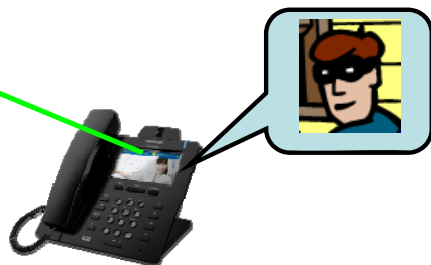


Compatible IP Camera for KX-HDV430

KX-HDV430 เมื่อรับสายเรียกจาก door phone หรือ extension, สามารถใช้งานคู่กับ IP camera เพื่อให้แสดงภาพจากกล้องแบบอัตโนมัติได้



SLT
Ext 103
Dial 102.



KX-HDV430
Ext 102

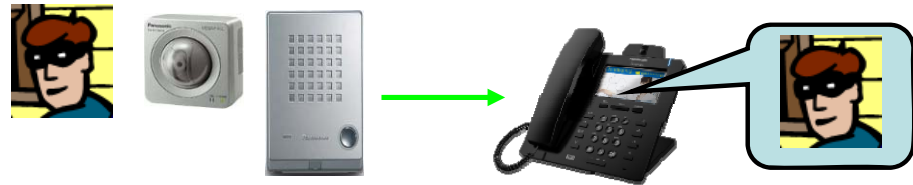


KX-T7765
Ext 665

<Panasonic Camera>

BB-SC384B
WV-SPN311A
WV-SFN631L
WV-SC385
WV-SW458
DG-SW396
and so on

Assign destination of call from Doorphone.



HTS Web Maintenance Console
000.00285

Doorphone
PBX Configuration > 2.Extension > 5.Doorphone

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

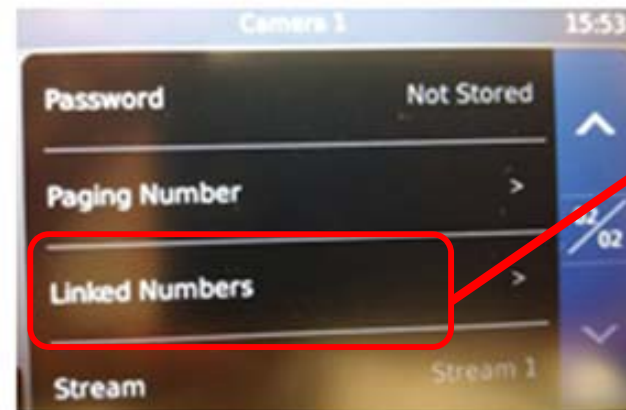
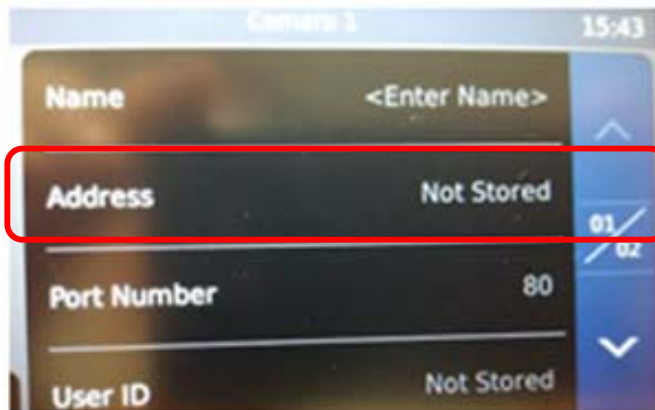
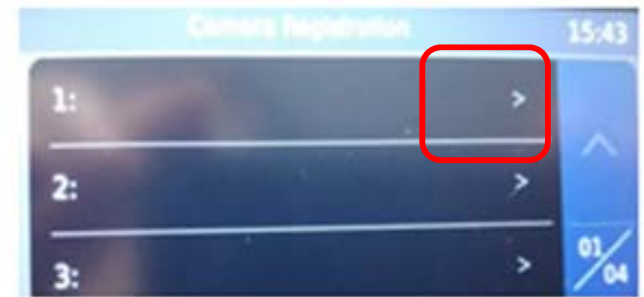
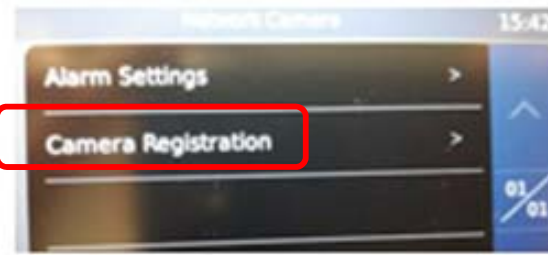
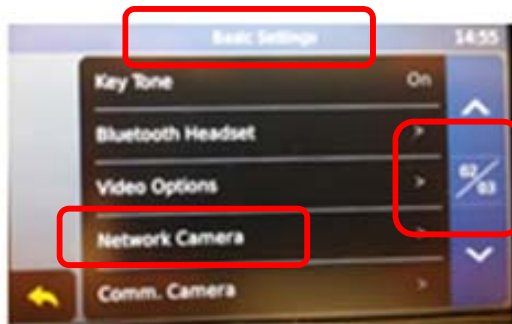
No.	Extension Number of Doorphone [0-9]	Name	Doorphone Call Destination Day	Doorphone Call Destination Lunch	Doorphone Call Destination Night
1	665	Door	102/	601/Group	101/
2	666	Door	601/Group	601/Group	101/

Doorphone Ring Duration: 15 (seconds)

Door Open Duration: 5 (seconds)

Assign IP address of Camera.

IP address จาก 16 IP cameras สามารถกำหนดลงไปในเรื่อง KX-HDV430 ได้



Software Version

Software Version

Software สำหรับ KX-HTS, KX-HDV และ KX-NTV จะต้องปรับให้ใหม่เสมอ

KX-HTS version 1.5 supports followings.

- (1) Phone book on LCD of KX-HDV by PBX system speed dial
- (2) CO button of KX-HDV230
- (3) Conference by SLT

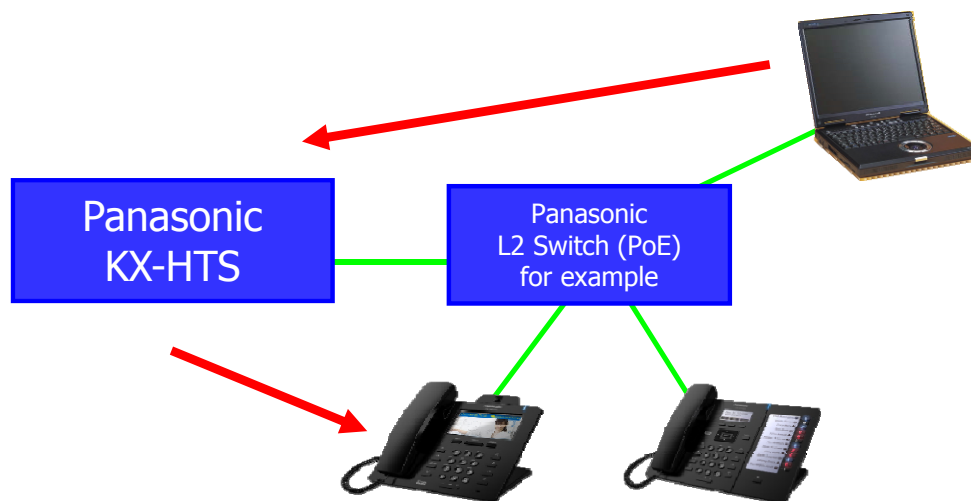
Software version up of **KX-HDV** phone is also required for (1) and (2).

KX-HDV except KX-HDV230 does not support CO button.

Version up of KX-HDV Phone

Even if firmware of KX-HTS is not latest, KX-HDV is registered as SIP extension automatically.

Version up of KX-HDV phone is available from PC which logs in to KX-HTS.



Transfer Latest Firmware to PBX.

The screenshot displays the HTS Web Maintenance Console interface. The header includes the HTS logo, the text 'Web Maintenance Console' with the version '000.00211', and a language dropdown set to 'English (US)'. A left-hand navigation menu lists categories: PBX Configuration, Network Configuration, and Maintenance. Under Maintenance, there are sub-items: 1. Management, 2. System Control (expanded), and 3. Utility. The expanded '2. System Control' menu shows: 1. Firmware Transfer to PBX (selected), 2. Firmware Update, 3. System Data Backup & Restore, and 4. System Reset. The main content area is titled 'Firmware Transfer to PBX' and shows a breadcrumb trail: 'Maintenance > 2. System Control > 1. Firmware Transfer to PBX'. Below this, there are radio buttons for 'Transfer from' with 'Local PC' selected and 'USB Memory' unselected. Under 'Transfer from Local PC', there is a 'File Name' input field and a 'Browse' button. Under 'Transfer from USB Memory', there is a 'File Name' dropdown menu. At the bottom of this section, it states: 'Firmware should be placed /private/meigroup/psn/hts/update/'.



Panasonic
KX-HTS

Update the Firmware to KX-HDV.

HTS Web Maintenance Console 001.00001 English (US) Logout

PBX Configuration

Network Configuration

Maintenance

- 1. Management
- 2. System Control
 - 1. Firmware Transfer to PBX
 - 2. Firmware Update
 - 3. System Data Backup & Restore
 - 4. System Reset
- 3. Utility
 - 1. USB
 - 2. System Log
 - 3. Email Notification

KX-HDV230	xxxx.tar.gz	versionXXX	Delete
-----------	-------------	------------	--------

Update Target

Target	Type	Port	Current Version
<input type="checkbox"/>	Main Unit	-	versionXXX
<input type="checkbox"/>	KX-HDV100	1	versionXXX
<input type="checkbox"/>	KX-HDV100	2	versionXXX
<input type="checkbox"/>	KX-HDV130	3	versionXXX
<input type="checkbox"/>	KX-HDV230	4	versionXXX
<input type="checkbox"/>	KX-HDV100	5	versionXXX

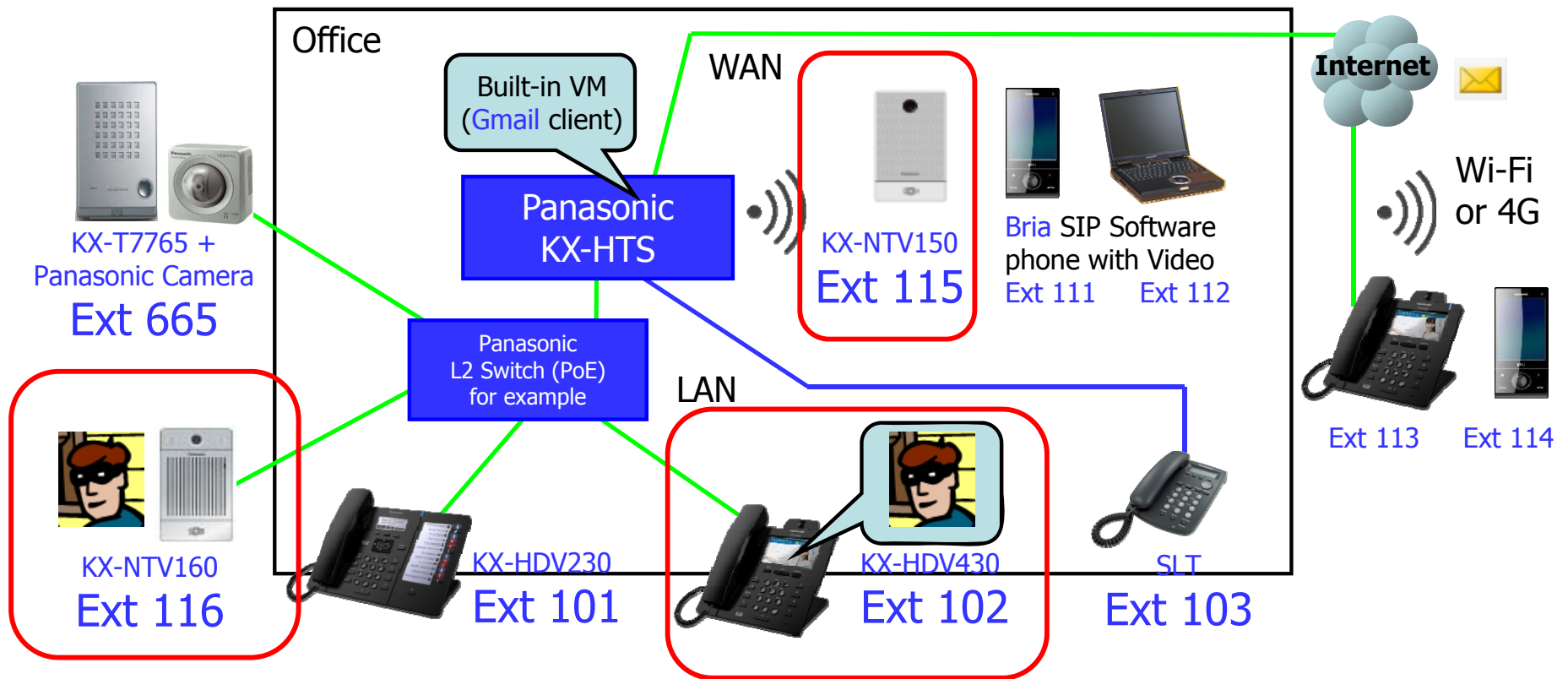
Panasonic
KX-HTS



KX-NTV

Overview

PBX, phone และ security camera เป็นอุปกรณ์ของ Panasonic.



KX-HTS Programming

Click Port to change to SIP.

คลิกที่พอร์ต 116

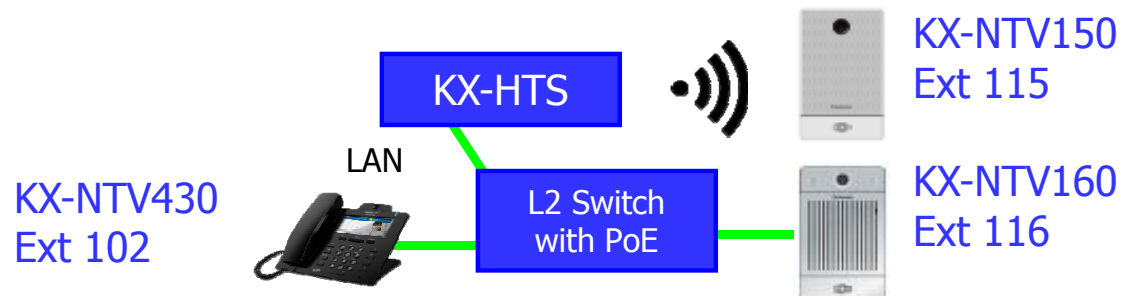
HTS Web Maintenance Console
000.00211

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

PBX Configuration

Extension	119	120	121	122	123	124	101	102	Doorphone	1	2		
	17	18	19	20	21	22	23	24					
Extension	111	112	113	114	115	116	117	118	Trunk	5	6	7	8
	9	10	11	12	13	14	15	16					
Extension	103	104	105	106	107	108	109	110	Trunk	1	2	3	4
	1	2	3	4	5	6	7	8					



Change the port to SIP.

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, there is a navigation menu with 'PBX Configuration' and 'Network Configuration' sections. Under 'PBX Configuration', there are seven sub-items: 1. System, 2. Extension, 3. Trunk, 4. TRS/ARS, 5. System Speed Dialling, 6. Conference, and 7. Voice Mail. The main content area is titled 'Port' and shows the breadcrumb 'PBX Configuration > 2.Extension > 1.Port'. The configuration fields are: Extension Number (116), Extension Name (empty), Attribution (Analogue SLT14), FAX Connection (SIP 14), and Manager (empty). The FAX Connection dropdown menu is open, showing 'Analogue SLT14' and 'SIP 14' as options. There are radio buttons for 'Enable' and 'Disable', with 'Disable' selected.

HTS Web Maintenance Console
000.00285

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
- 5. System Speed Dialling
- 6. Conference
- 7. Voice Mail

Network Configuration

Port
PBX Configuration > 2.Extension > 1.Port

Extension Number: 116 [0-9]

Extension Name:

Attribution: Analogue SLT14

FAX Connection: SIP 14

Manager:

Enable Disable

Assign SIP Password.

Confirm User Name และ Location แล้ว คลิก [Apply].

PBX Configuration > 2.Extension > 1.Port

SIP Extension	
SIP Registration Status	Not yet
SIP User Name	phone-016 [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
	<input type="button" value="Apply"/> <input type="button" value="Cancel"/>

Extension	111	112	113	114	115	116	117	118
	9	10	11	12	13	14	15	16

Enable Video Call.

PBX Configuration > 2.Extension > 1.Port

SIP Extension	
SIP Registration Status	Not yet
SIP User Name	phone-016 [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

Assign SIP Domain Name.

SIP domain name สำหรับความปลอดภัย (security) ในการใช้งาน

ตัวอย่าง IP 123.45.67.89

SIP phone บางรุ่นไม่รองรับตัวอักษร character (a-z A-Z) สำหรับ SIP domain name.

The screenshot shows the HTS Web Maintenance Console interface. The left sidebar contains a tree view for PBX Configuration, with '2.Extension' selected. The main content area is titled 'SIP Extension Property' and shows the breadcrumb '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 has a character set restriction '[0-9 a-z A-Z - .]'. Below this, there are fields for 'IP Address of SIP Extension in existing router', with 'IP Address' and 'Subnet Mask' both set to '0 .0 .0 .0'.

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 OnS-DSCP: CS7 (56)

KX-NTV (Initial Setup)

Initialize KX-NTV.

IKX-NTV ให้กดปุ่ม reset ค้างไว้ประมาณ 30 วินาที

<KX-NTV150>

<KX-NTV160>



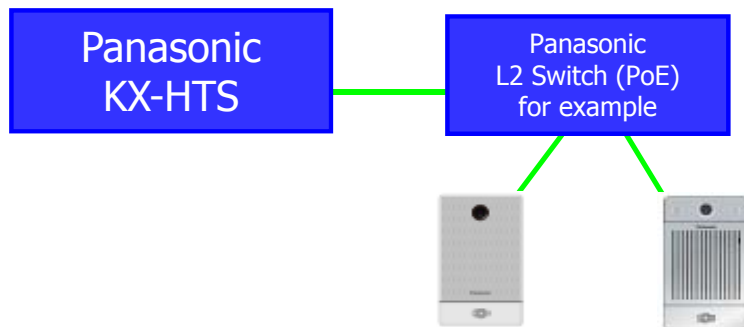
Connect KX-NTV to PoE L2-Switch.

KX-NTV150/160 ต่อเข้ากับ KX-HTS824BX ผ่าน Switching-Hub

KX-NTV150/160 ได้รับ IP address.

(KX-NTV จะไม่สามารถกำหนด SIP extension automatically ไม่ได้

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

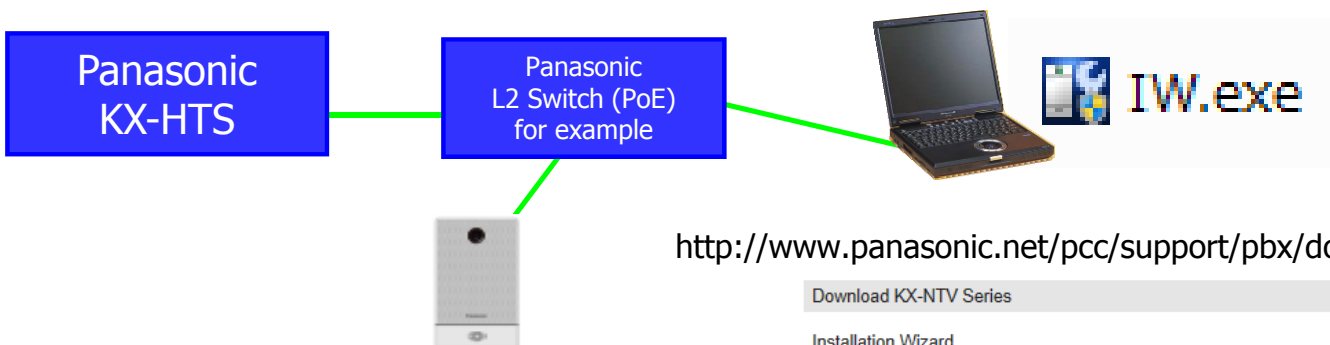


Find IP address of KX-NTV using IW.exe.

Installation Wizard

Search

#	MAC	IP Address	Model	Firmware Version
1	00-02-D1-3D-F7-41	192.168.0.153	KX-NTV160	0101a
2	E8-B1-FC-B5-5E-32	10.75.70.127	ST7501	1.11.0.1



<http://www.panasonic.net/pcc/support/pbx/download/ntv/index1.html>

Download KX-NTV Series

Installation Wizard


Category	Name	Size
Application	▶ IW_v1.02.zip	2.52MB
Manual	▶ Installation Wizard User's Manual	

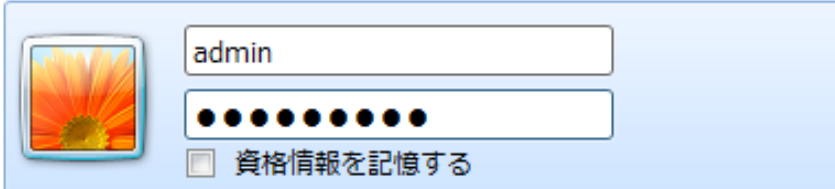
Log-in using Internet Explorer.

Log-in to KX-NTV.

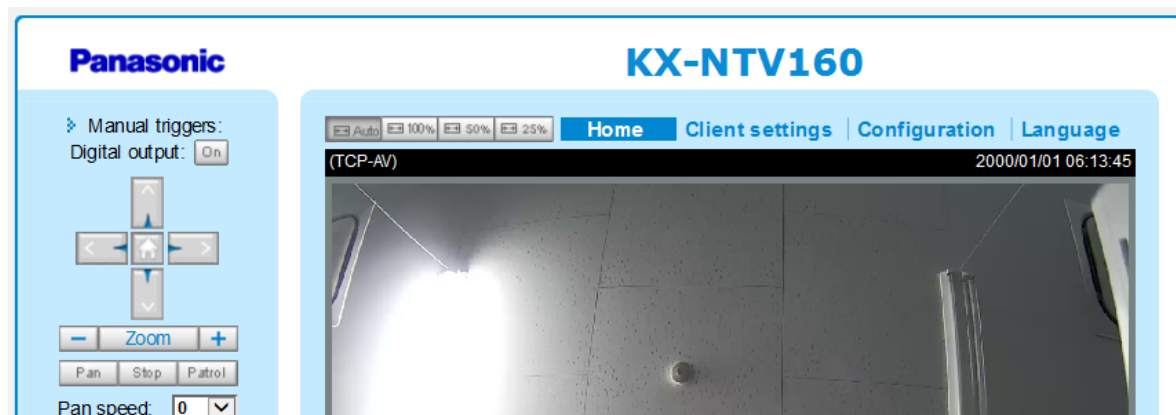
ID = admin

Password = adminpass

 http://192.168.0.153



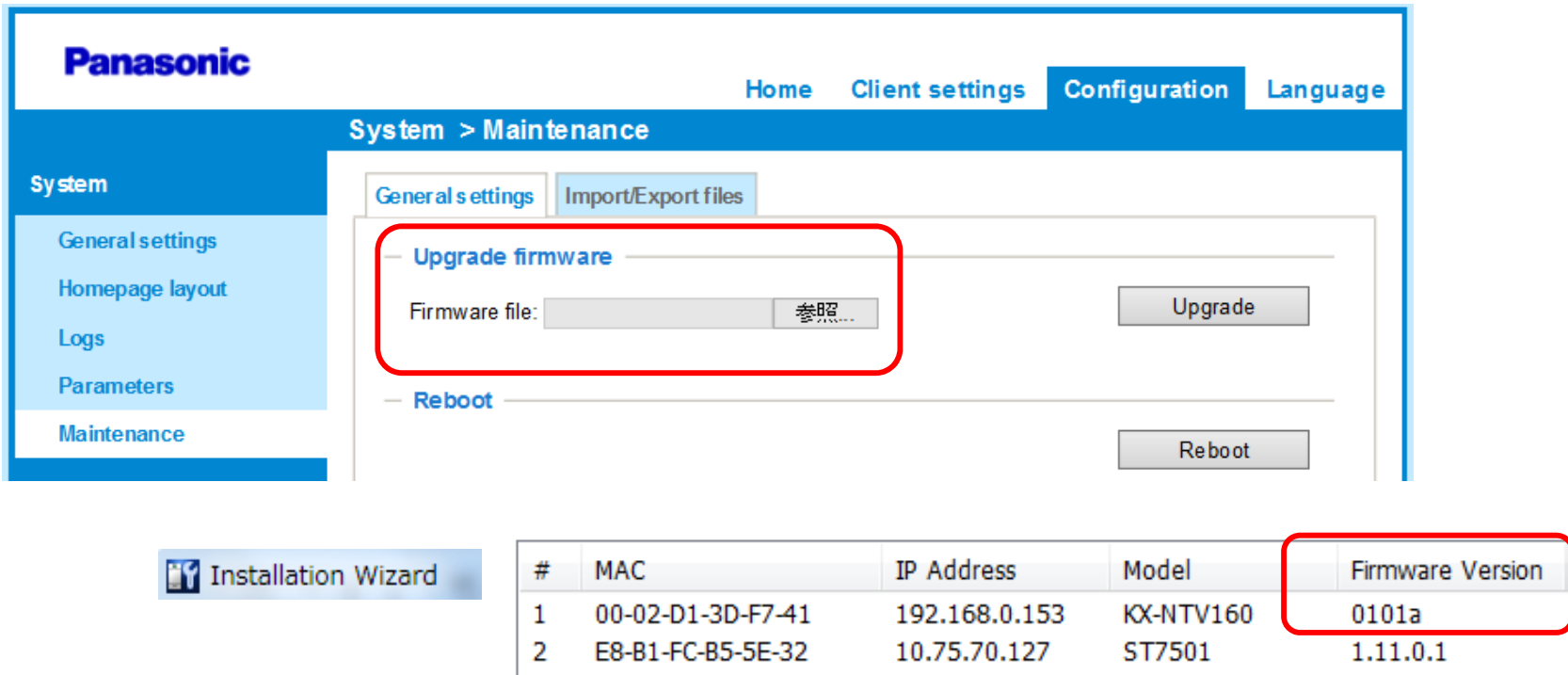
If web browser is **Internet Explorer**, add-in module is installed automatically as camera viewer.



Update Firmware.

Software of **KX-NTV** จะต้องเป็น version 0101e ขึ้นไป

If software version is 0101d (first mass production version), KX-NTV SIP registration is not possible for KX-HTS.



The screenshot shows the Panasonic web interface for system maintenance. The 'Upgrade firmware' section is highlighted with a red box. Below it, a table shows the current firmware versions for two devices.

#	MAC	IP Address	Model	Firmware Version
1	00-02-D1-3D-F7-41	192.168.0.153	KX-NTV160	0101a
2	E8-B1-FC-B5-5E-32	10.75.70.127	ST7501	1.11.0.1

Connect KX-NTV150 by Wireless.

Panasonic

Home Client settings **Configuration**

Network > Wireless

Enable WiFi

WLAN configuration

SSID: KX-HTS

Wireless mode: Infrastructure

Security: WPA-PSK

pre-shared key: [Empty field]

System

SIP

Media

Network

General settings

Wireless

HTS Web Maintenance Console
000.00285

Configuration

WLAN Security Settings

AP related security configuration settings.

AP name: MyAP

SSID: KX-HTS


Work Configuration

WAN

LAN

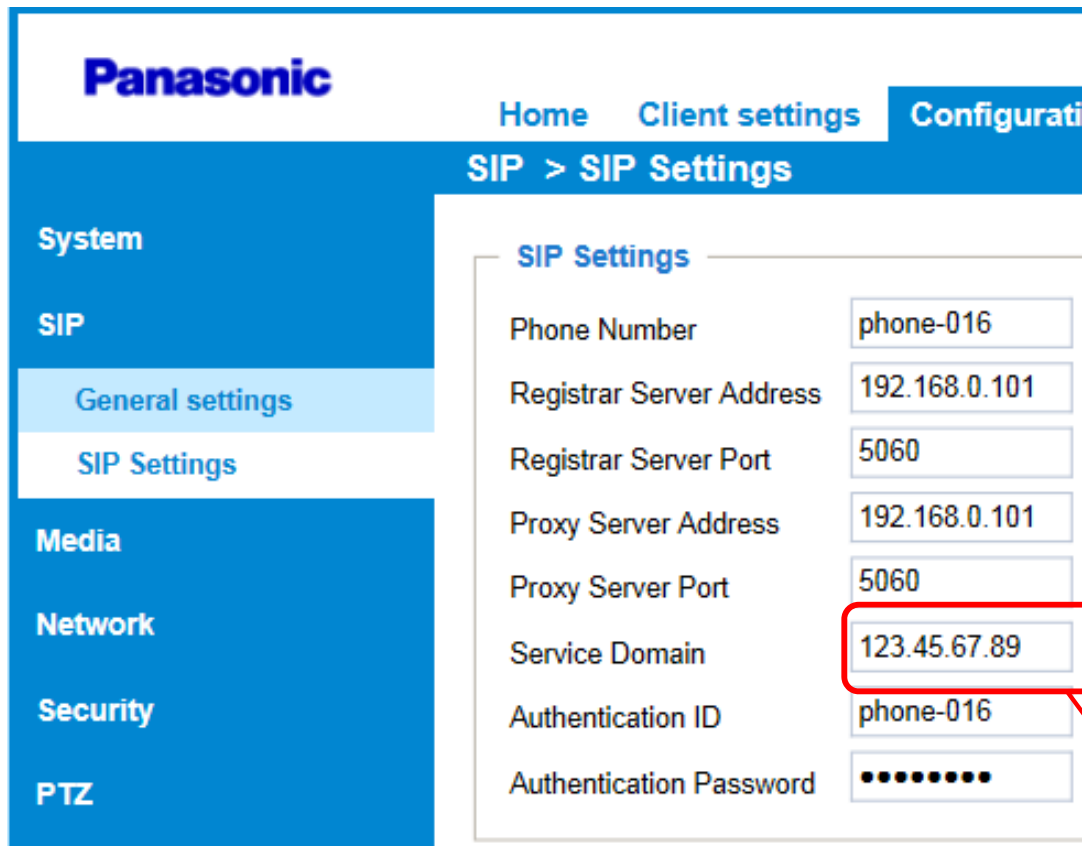
Route

KX-HTS   Remove LAN and connect AC Adapter.

 **IW.exe** IP address of KX-NTV150 does not change usually, even if Wi-Fi is used..

KX-NTV (SIP & Video)

Log in to KX-NTV for SIP registration.



The screenshot shows the Panasonic KX-NTV web interface for SIP settings. The left sidebar contains a menu with categories: System, SIP, Media, Network, Security, and PTZ. Under the SIP category, 'General settings' and 'SIP Settings' are visible. The main content area is titled 'SIP Settings' and contains the following fields:

Field	Value
Phone Number	phone-016
Registrar Server Address	192.168.0.101
Registrar Server Port	5060
Proxy Server Address	192.168.0.101
Proxy Server Port	5060
Service Domain	123.45.67.89
Authentication ID	phone-016
Authentication Password	••••••••

KX-HTS
192.168.0.101 : 5060
Domain : 123.45.67.89
115 : phone-015 : ****
116 : phone 016 : ****



LED becomes green after registration.

192.168.0.101 if domain is not programmed in KX-HTS.

"Phone Number" ไม่ใช่ extension number.

Assign Destination of Call Button.

Video จะแสดงอัตโนมัติเมื่อรับสาย (Answered)

The screenshot shows the Panasonic SIP configuration interface. The top navigation bar includes 'Home', 'Configuration', and 'Language'. The left sidebar lists 'System', 'SIP', 'General settings', 'SIP Settings', and 'Media'. The main content area is titled 'SIP > General settings'. A red box highlights the 'Call button outgoing number' section, which includes a radio button for 'Basic mode' (selected), an 'Outgoing number' input field containing '102', and a radio button for 'Advanced mode'. Below this is a 'General settings' section.



KX-NTV115
Ext 115



SIP Software phone
Ext 111



KX-NTV160
Ext 116



KX-HDV430
Ext 102

Reference : Group Call

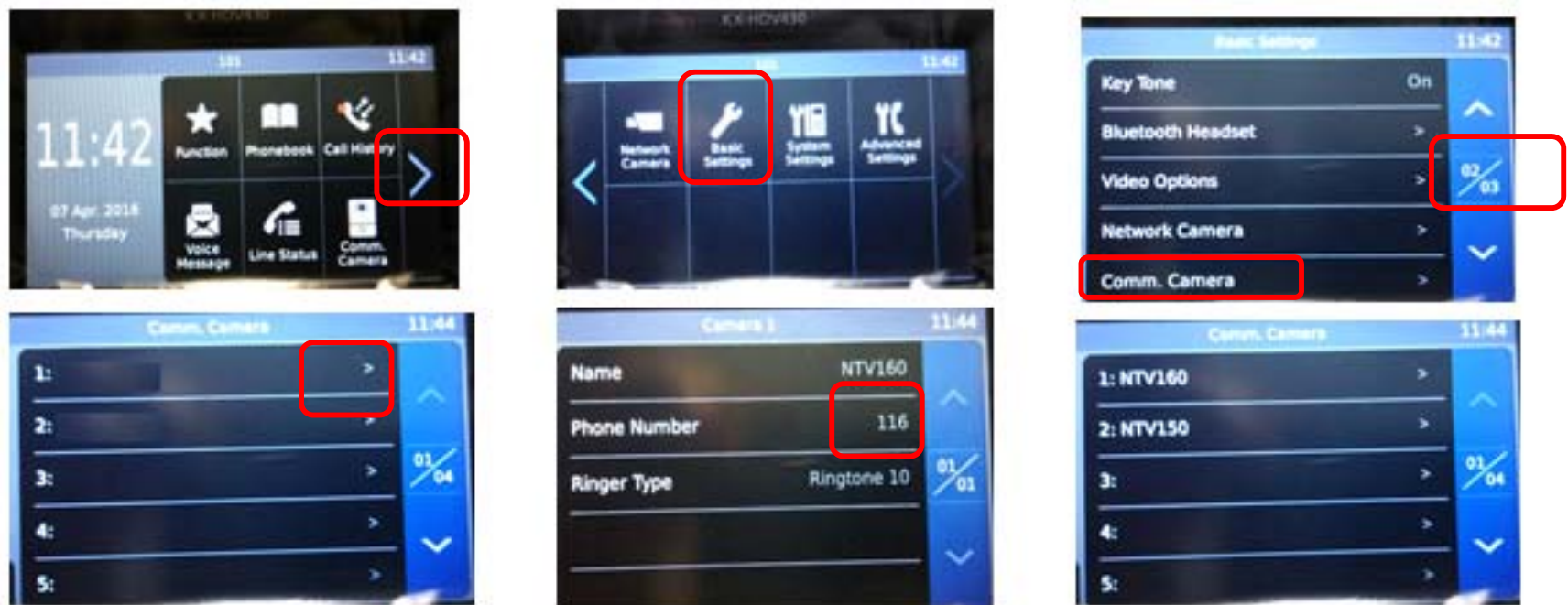
สามารถกำหนดการกดปุ่มที่เครื่อง KX-NTV ไปที่กลุ่มสายในได้



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.



Adjust General Settings.

<KX-NTV150>

Home Client settings Configuration

SIP > General settings

Call button outgoing number

Basic mode

Outgoing number

Advanced mode

General settings

Call ring duration second

Call duration second

Video monitor before answer

Ringback tone after finish video monitor

Indication of call status when receiving call

<KX-NTV160>

Home Client settings Configuration

SIP > General settings

Call button outgoing number

Basic mode

Outgoing number

Advanced mode

General settings

Call ring duration second

Call duration second

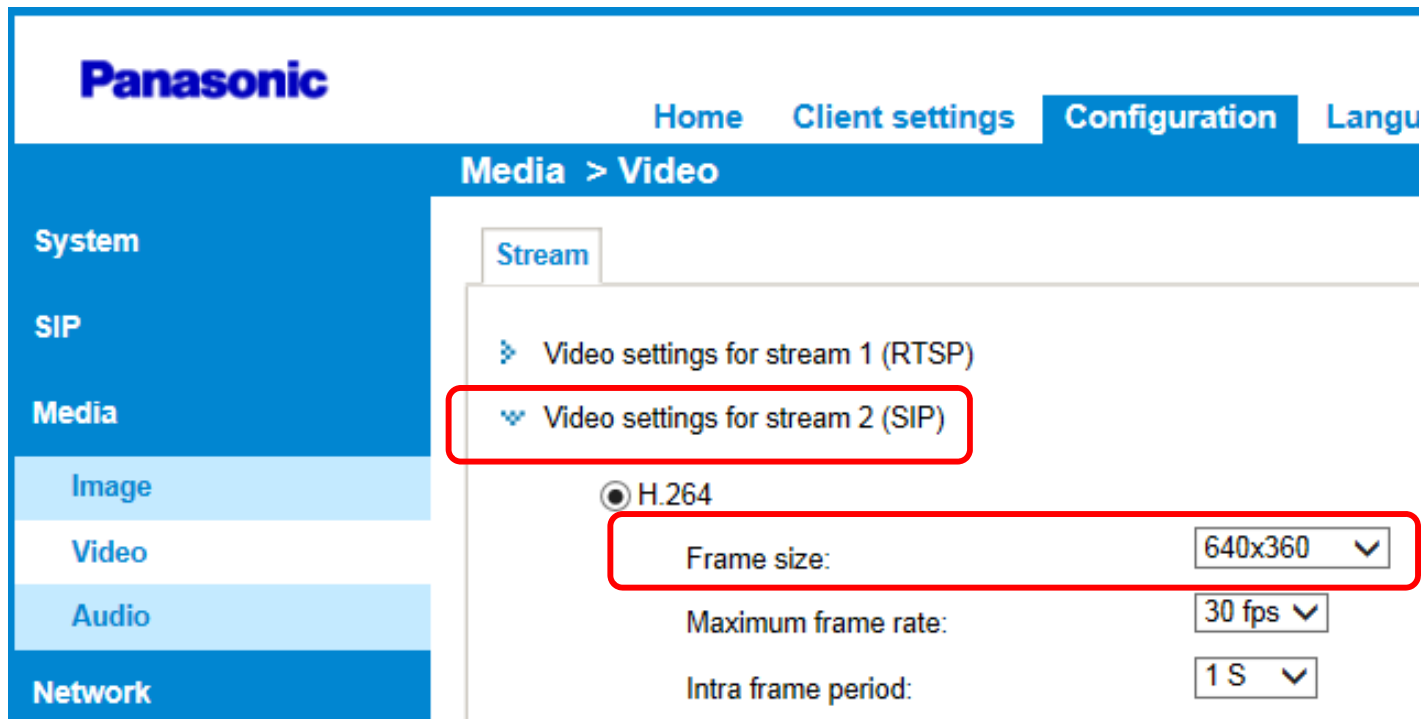
Video monitor before answer

Ringback tone after finish video monitor

Indication 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.

Adjust Video for KX-HDV430 display.



Panasonic

Home Client settings **Configuration** Langu

Media > Video

Stream

Video settings for stream 1 (RTSP)

Video settings for stream 2 (SIP)

H.264

Frame size: 640x360

Maximum frame rate: 30 fps

Intra frame period: 1 S

Assign 512 K bps to Maximum bit rate.

Media > Video

Stream

▶ Video settings for stream 1 (RTSP)

▼ Video settings for stream 2 (SIP)

H.264

Frame size:

1280x720 ▼

Maximum frame rate:

30 fps ▼

Intra frame period:

1 S ▼

Video quality

Constant bit rate:

Fixed quality:

Quality:

Good ▼

Maximum bit rate:

Customized ▼

512 Kbps [20~8000]

Default is 1000 K bps.

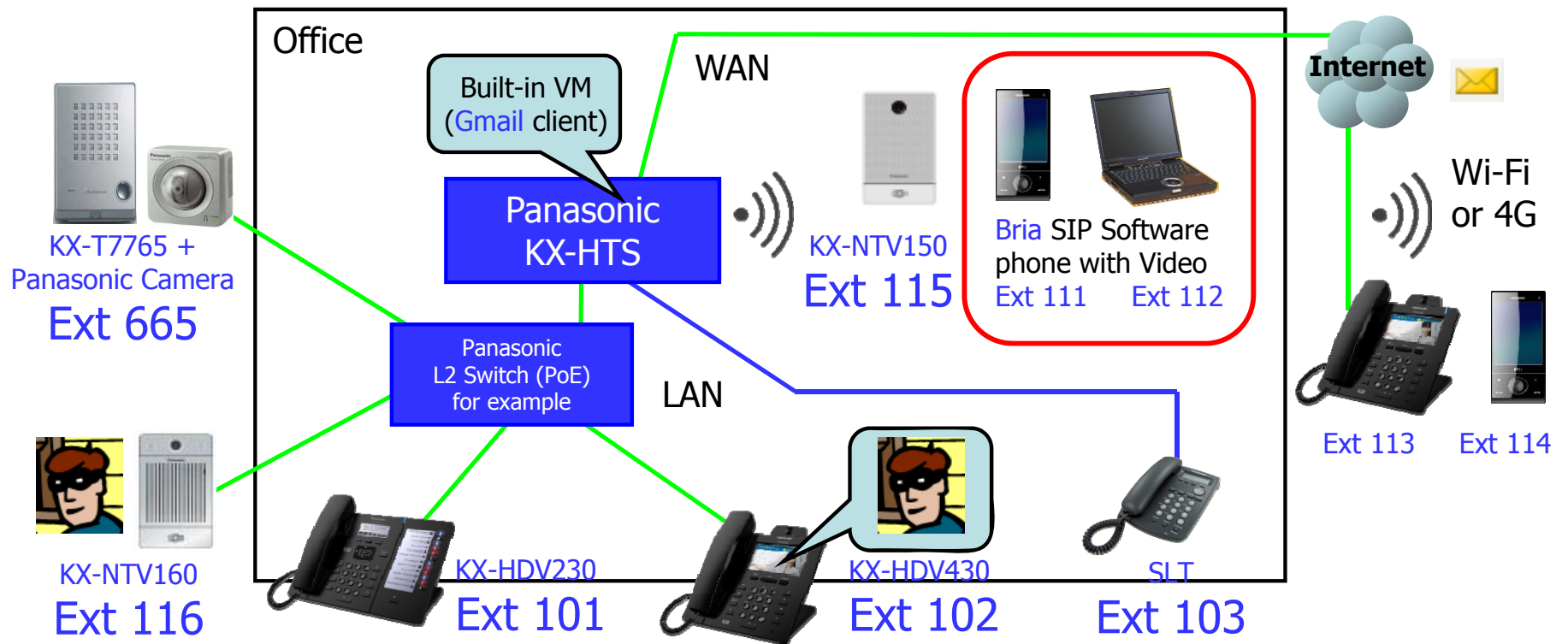
Default is too big if KX-NTV to call SIP extension through internet.

KX-HTS Step by Step Guide

SIP Software Phone

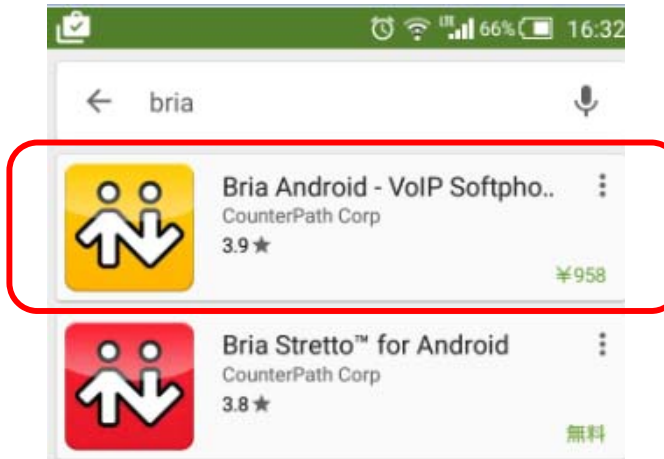
Overview

PBX, phone และ security camera เป็นอุปกรณ์ของ Panasonic



Contents

Bria รองรับ Video call. Media5phone ไม่รองรับ Video call.

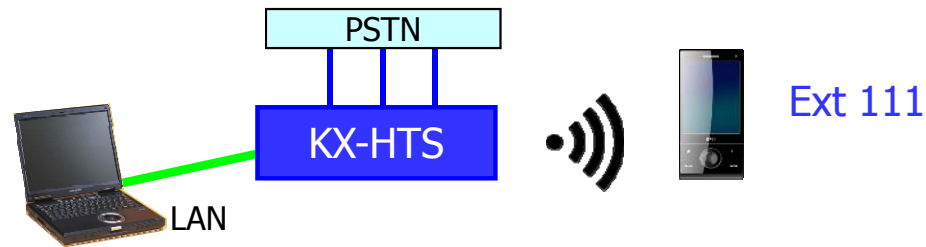


KX-HTS Programming

Click Port to change to SIP.

คลิกที่พอร์ต 111

The screenshot shows the HTS Web Maintenance Console interface. The title bar includes 'HTS' and 'Web Maintenance Console' with the phone number '000.00211'. On the left is a 'PBX Configuration' sidebar with a tree view containing folders for '1.System', '2.Extension', and '3.Trunk', and sub-items like '1.Port', '2.Phone', '3.Flexible Buttons', '4.Extension Group', '5.Doorphone', '6.Analog SLT Property', and '7.SIP Extension Property'. 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 by a red rectangular box. 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.



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: Enable No Disable

Manager:

TRS Level (COS):

Assign SIP Password.

Confirm User Name และ Location แล้ว คลิก [Apply].

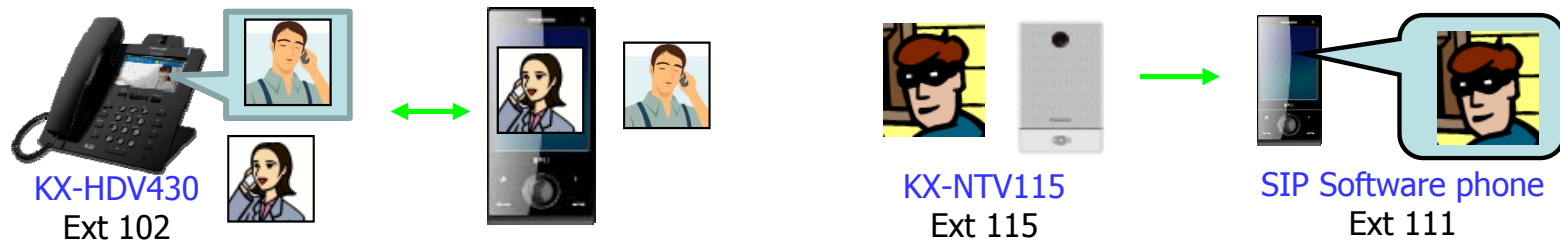
The screenshot shows a configuration interface for SIP Extension. It is divided into two main sections: 'Analog Extension' and 'SIP Extension'.
- Under 'Analog Extension', there is a 'Caller ID Signal Send' option with 'Enable' selected.
- Under 'SIP Extension', the 'SIP Registration Status' is 'Not yet'.
- The 'SIP User Name' field contains 'phone-011' and is highlighted with a red box.
- The 'Registration Password' field is empty, with a character set indicator '[0-9 a-z A-Z .]' and an 'Edit' button highlighted with a red box.
- The 'Current IP Address' and 'Current MAC Address' fields are empty.
- The 'Phone Location' section has 'Local' selected, highlighted with a red box, along with 'Remote' and 'Remote(G.729)' options.
- At the bottom right, the 'Apply' button is highlighted with a red box, next to a 'Cancel' button.
- Below the main form is a row of buttons labeled 'Extension' with numbers 111 through 118. The button for '111' is highlighted in blue.

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 .



Assign SIP Domain Name.

SIP domain name สำหรับความปลอดภัย (security) ในการใช้งาน

ตัวอย่าง IP 123.45.67.89

SIP phone บางรุ่นไม่รองรับตัวอักษร character (a-z A-Z) สำหรับ SIP domain name.

The screenshot shows the HTS Web Maintenance Console interface. The main heading is "HTS Web Maintenance Console" with the phone number "000.00285". On the left, there is a "PBX Configuration" menu with a tree view showing "1.System", "2.Extension", "1.Port", "2.Phone", "3.Flexible Buttons", "4.Extension Group", "5.Doorphone", "6.Analogue SLT Property", and "7.SIP Extension Property". The main content area is titled "SIP Extension Property" and shows the breadcrumb "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 has 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", both showing "0 .0 .0 .0".

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

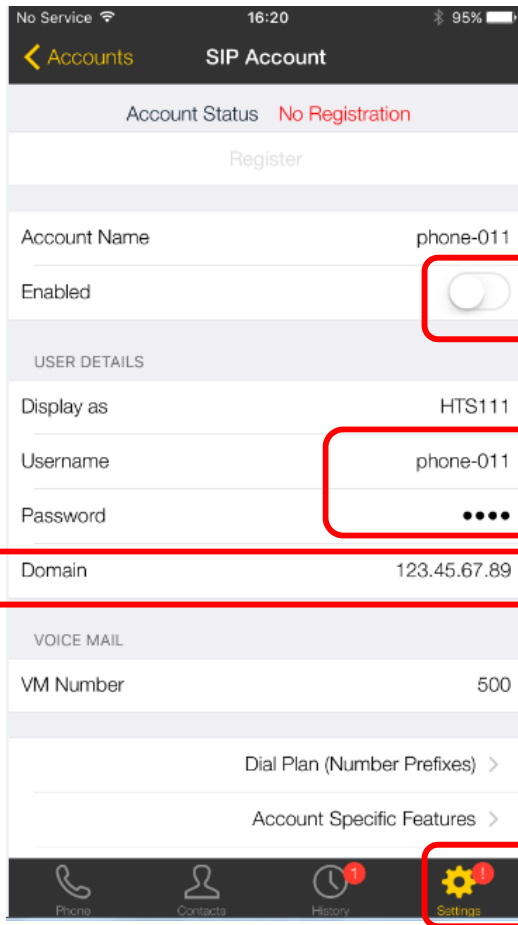
Voice (RTP) UDP Port No. (Server): 12000 (1024 - 65235)

SIP Port Number: 5060 (1024 - 65535)

SIP QoS-DSCP: CS7 (56)

Bria

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

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 >	



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

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	

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.

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

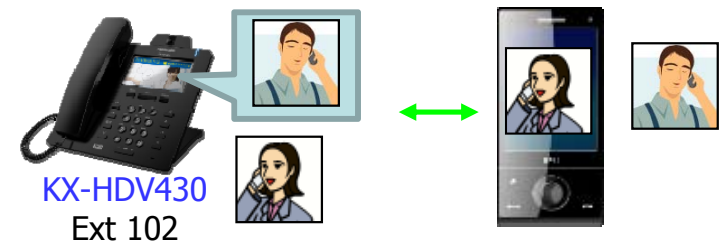
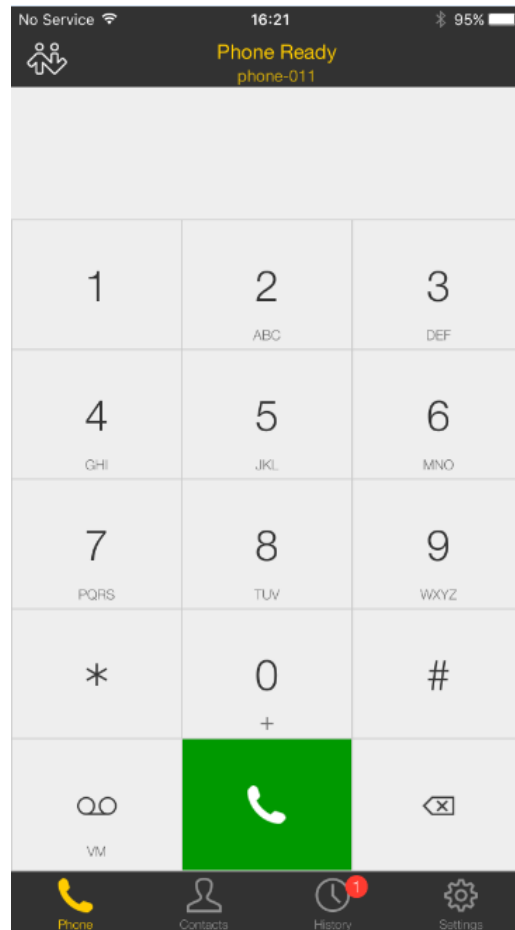
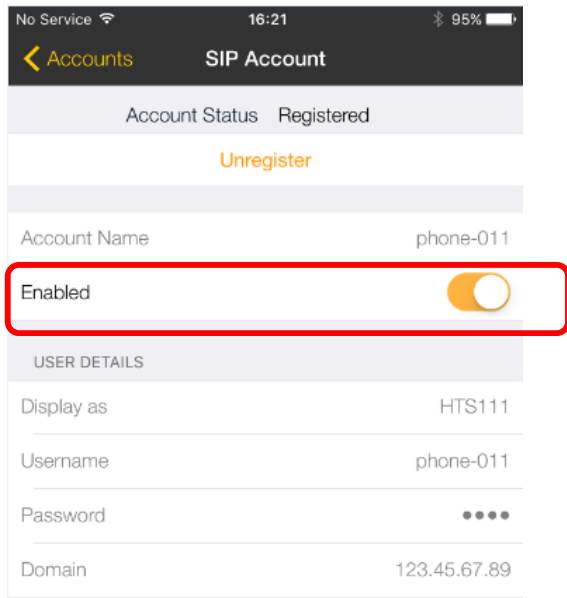
Enable Video

Always Offer Video

Auto Send Video

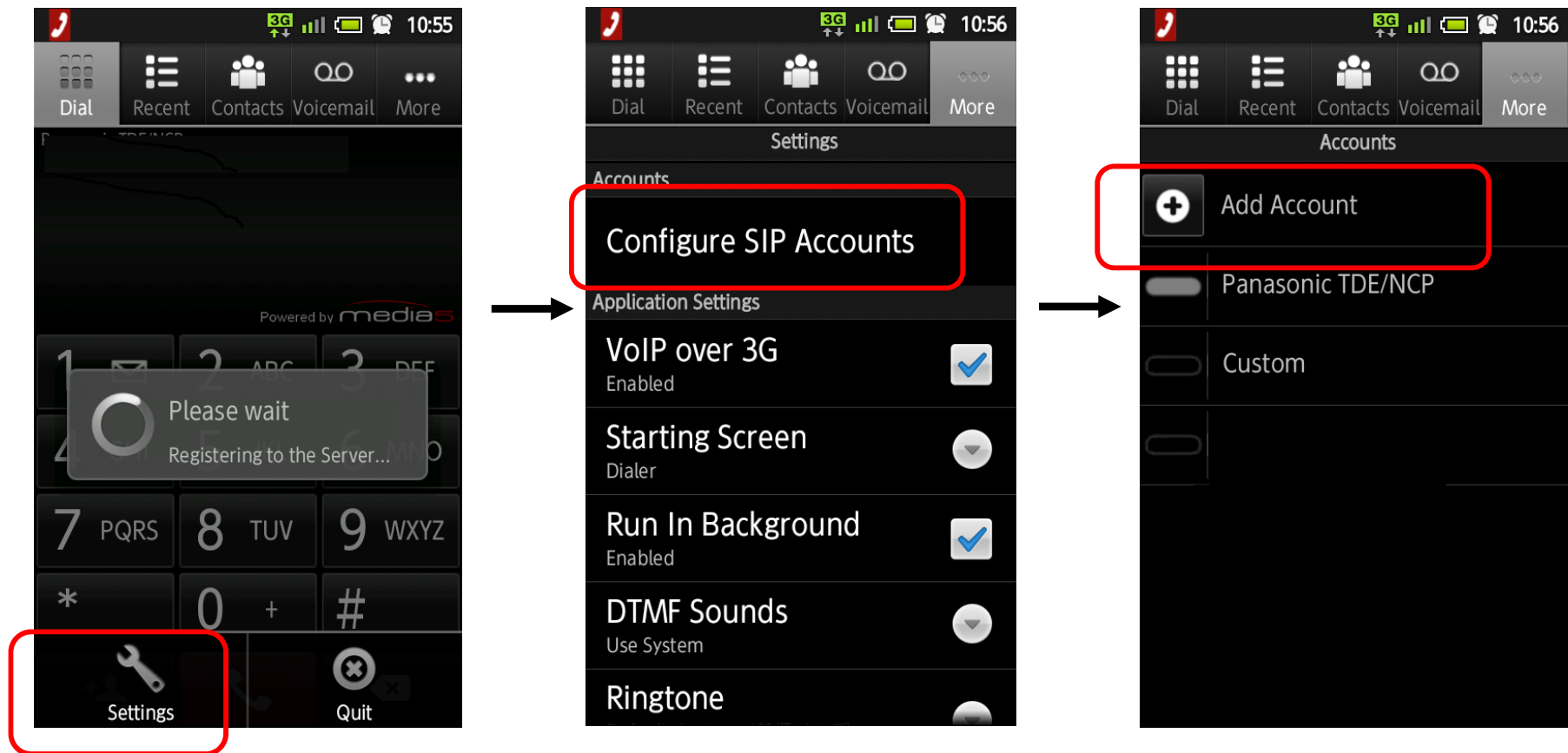
Auto Speaker On

Enable Account and Try.

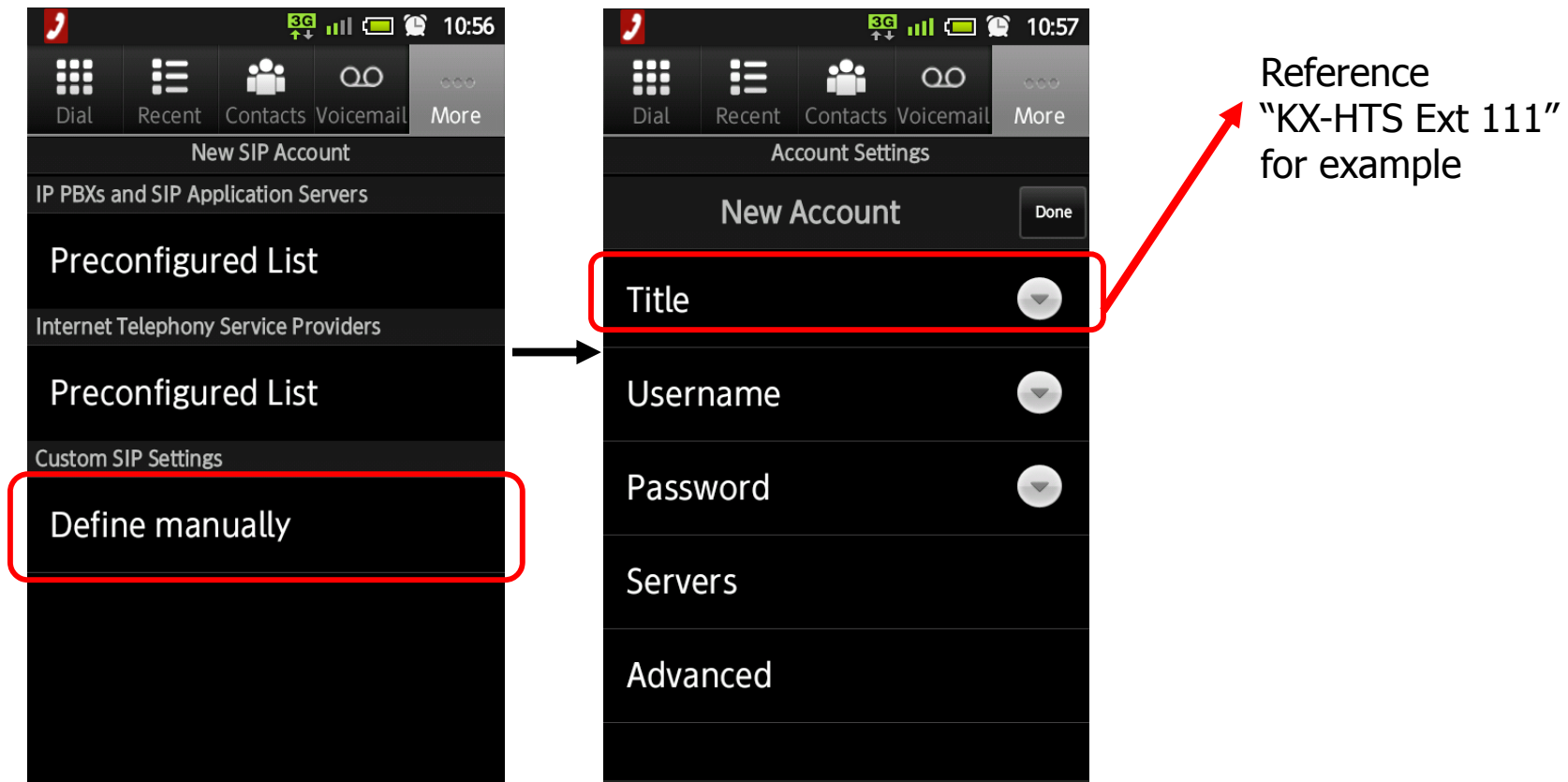


Media5phone

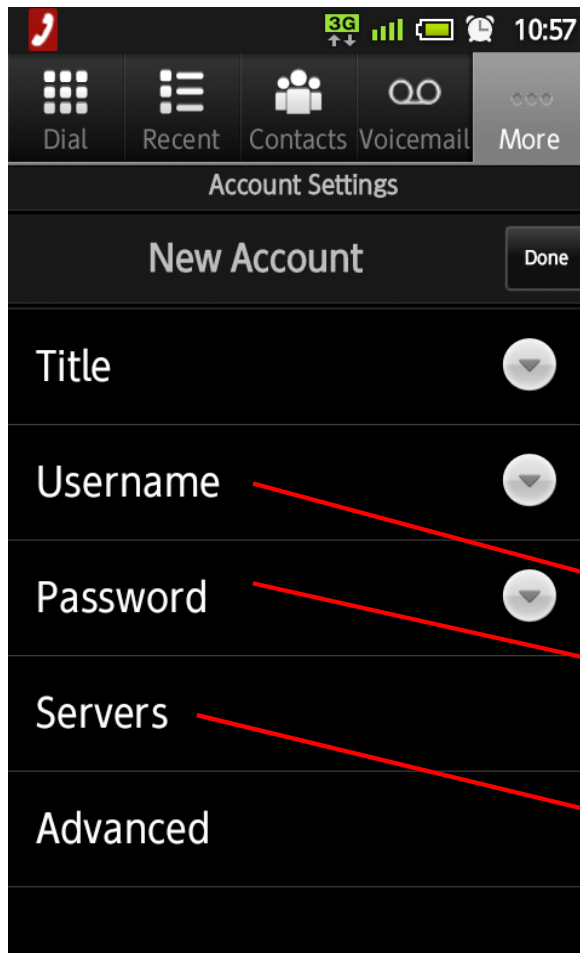
Start Setting.



Select "Define Manually".



Assign SIP Username and Password.

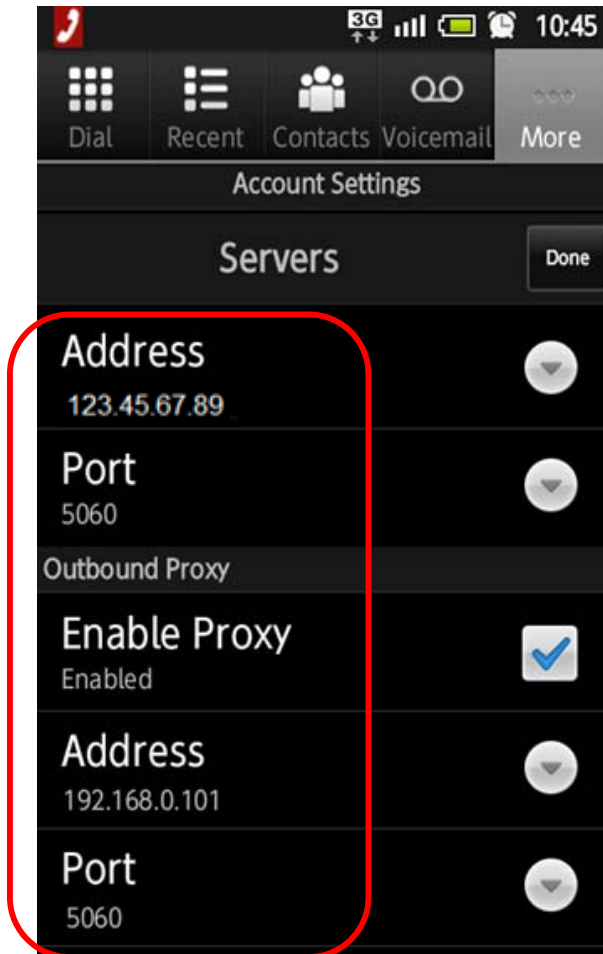


KX-HTS
192.168.0.101 : 5060
Domain : 123.45.67.89
111 : phone-011 : ****
112 : phone 012 : ****

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

See next page.

Assign PBX destination.



Proxy has to enabled.

123.45.67.89
5060



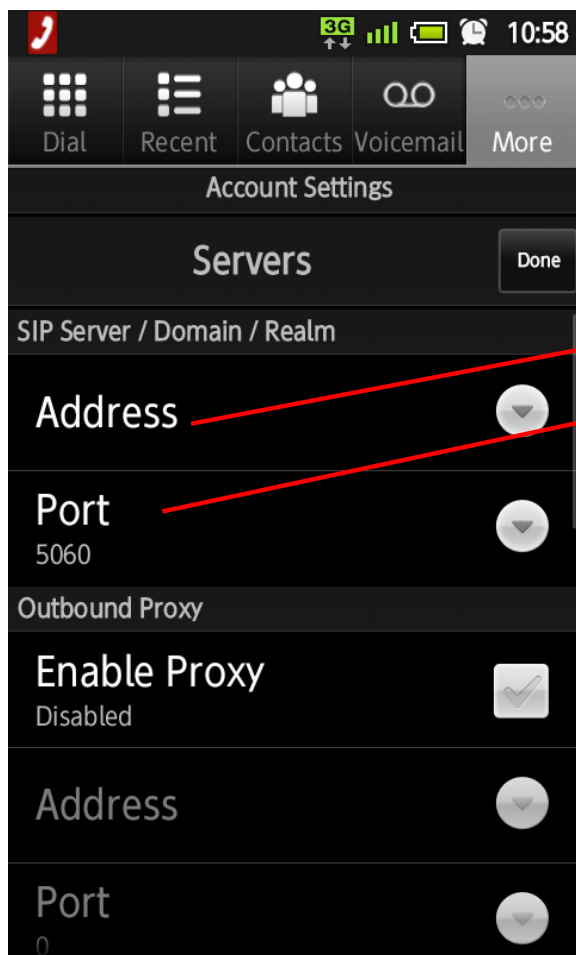
KX-HTS
192.168.0.101 : 5060
Domain : 123.45.67.89
111 : phone-011 : ****
112 : phone 012 : ****

Enable

192.168.0.101
5060

Reference

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



192.168.0.101
5060



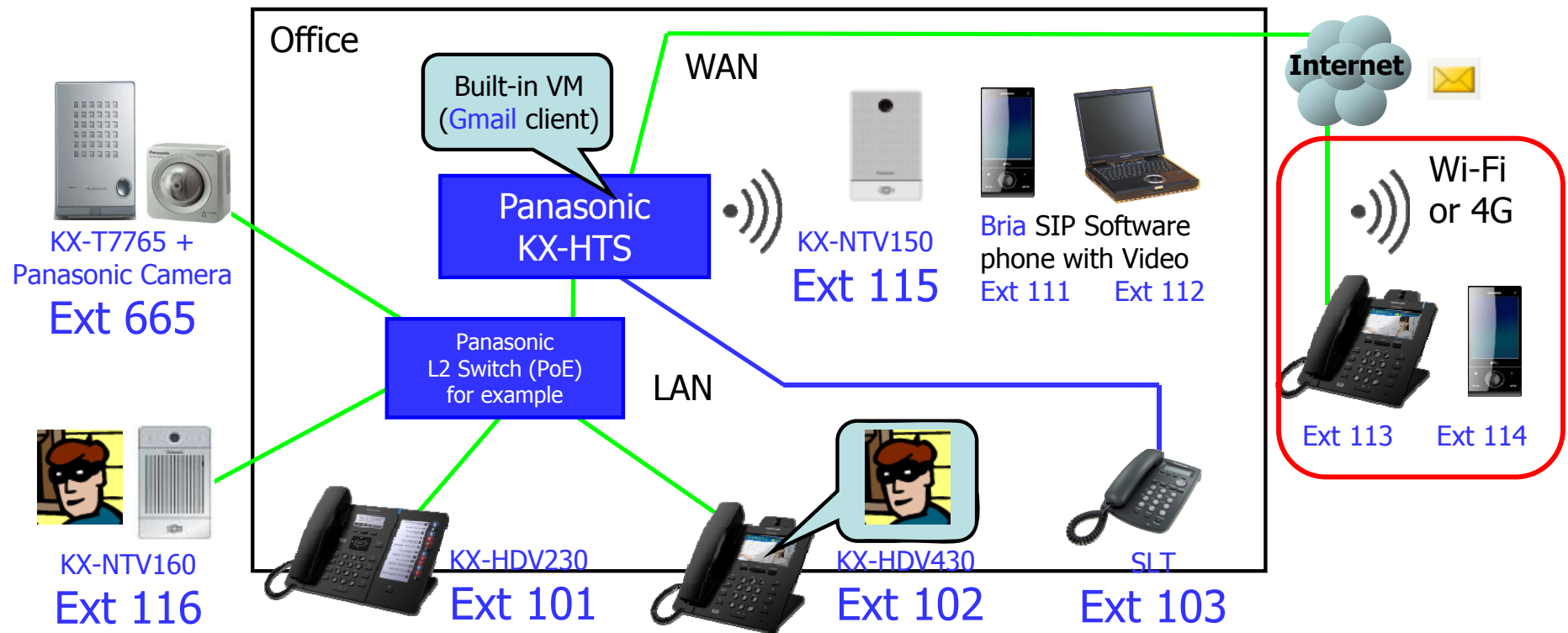
KX-HTS
192.168.0.101 : 5060
Domain : (N/A)
111 : phone-011 : ****
112 : phone 012 : ****

KX-HTS Step by Step Guide

SIP Phone Registration (WAN)

Overview

PBX, phone และ security camera เป็นอุปกรณ์ของ Panasonic



Diagram

KX-HDV ติดต่อผ่านพอร์ต LAN ของ KX-HTS824BX, ระบบจะจำ MAC address อัตโนมัติ. แต่ SIP phone registration จะต้องการค่าอื่นๆด้วย

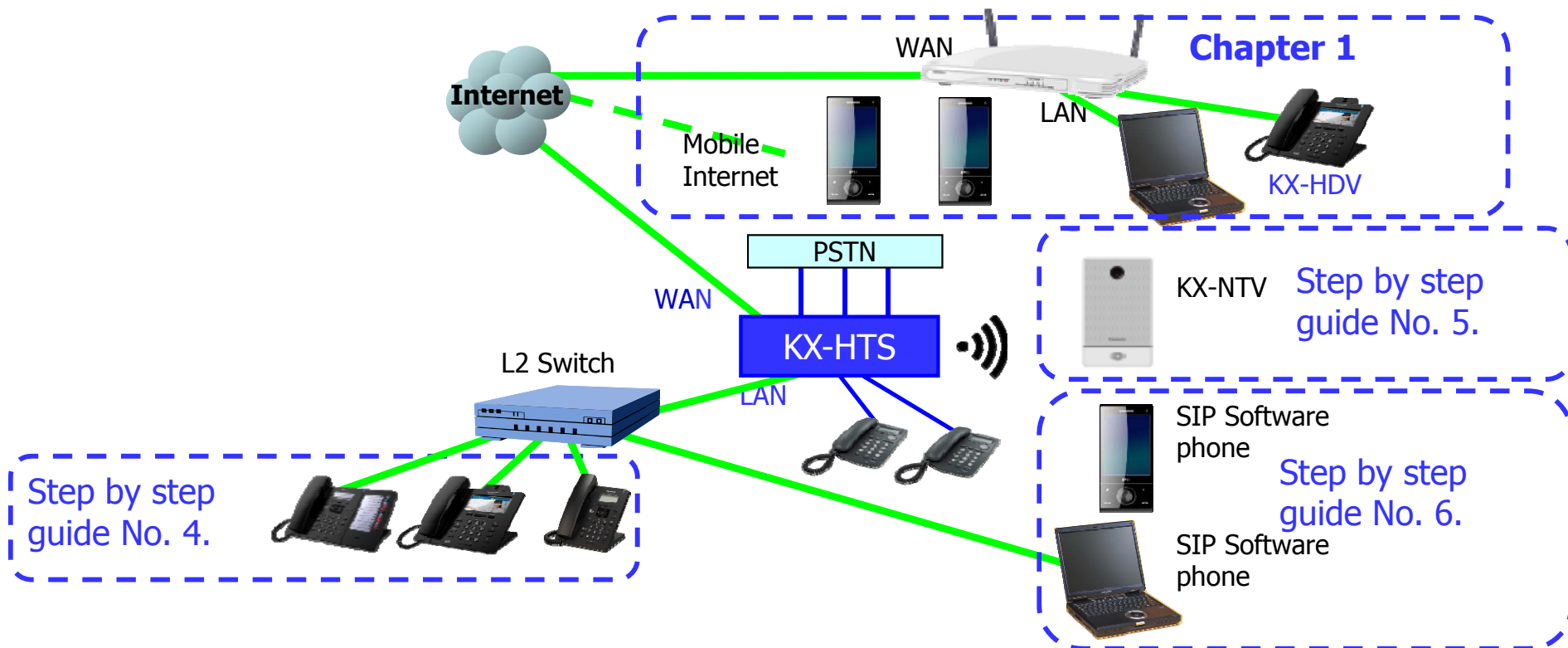


Diagram with Existing Router

KX-HDV ติดต่อผ่านพอร์ต LAN ของ KX-HTS824BX, ระบบจะจำ MAC address อัตโนมัติ. แต่ SIP phone registration จะต้องการค่าอื่นๆด้วย

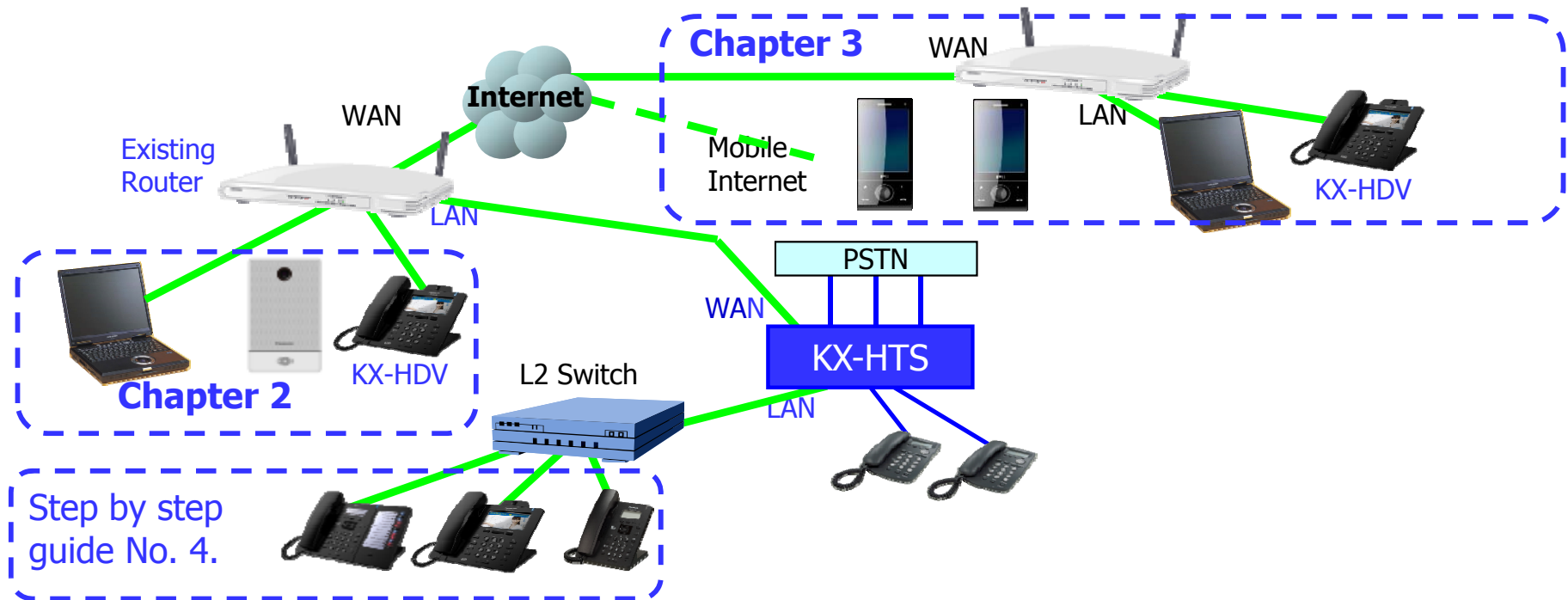


Table of Contents

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

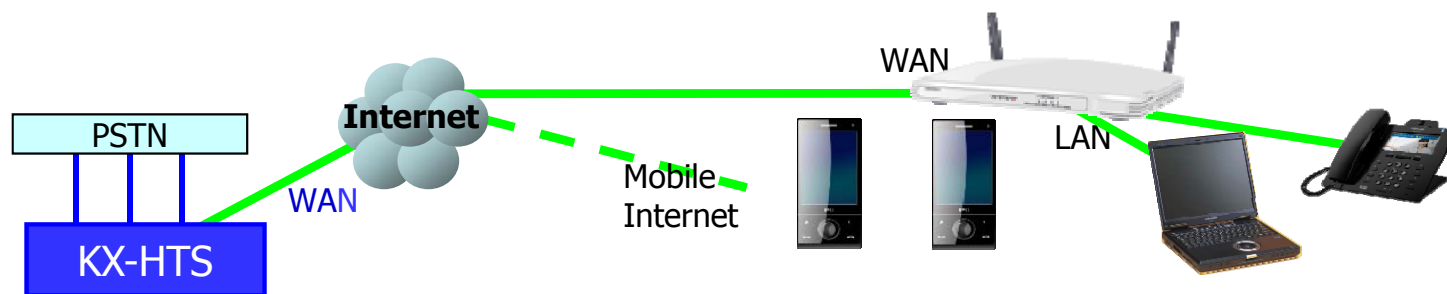
Media5pone is used as example for chapter 1.

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

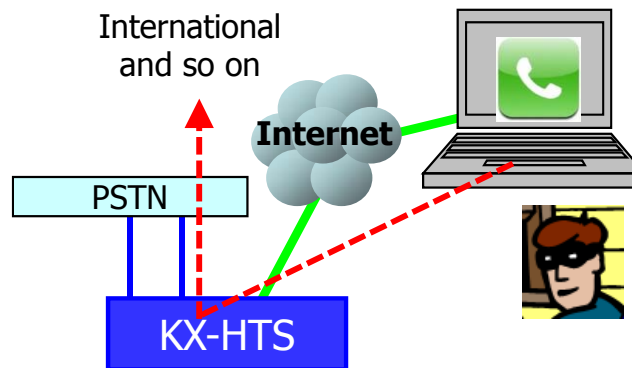


Important Notice

ไม่ควรกำหนด Username และ SIP password แบบง่ายๆ เช่น "1234abc" เพื่อป้องกัน Hacker

ควรกำหนดระดับการโทรออกให้เหมาะสม TRS level กับ SIP extension in internet. และที่สำคัญควรกำหนดห้ามโทรออกต่างประเทศไว้ก่อน (International calling)

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



Assign SIP Account for Remote.

SIP จะต้องถูกกำหนดจาก **attribution** ของแต่ละพอร์ตสายใน extension.
SIP Username สามารถเลือกกำหนดแบบ Automatically หรือแบบ Manually.
SIP Password กำหนดแบบ Manually.
"Remote" เมื่อมรการต่อใช้งานผ่าน Internet.

SIP Extension	
SIP Registration Status	Not yet
SIP User Name	phone-014 [0-9 a-z A-Z - .]
Registration Password	<input type="button" value="Edit"/>
Current IP Address	
Current MAC Address	
Phone Location	<input type="radio"/> Local <input checked="" type="radio"/> Remote <input type="radio"/> Remote(G.729)
Alive Check	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

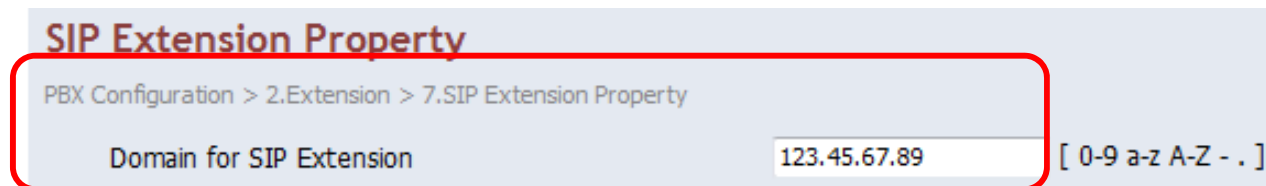
Assign SIP Domain Name.

Domain name has to be assigned.

Domain name สำหรับให้ SIP registration เพื่อความปลอดภัย **stronger security**.

Character (A-Z a-z) บางกรณีใช้ไม่ได้เพราะ SIP phone บางรุ่นไม่รองรับ Domain Name

IP address เช่น 123.45.67.89 แนะนำให้ใช้งาน แต่ IP 192.168.xx.xx ไม่แนะนำให้ใช้งานเพราะอาจถูกโจมตีจาก Hacker ได้ง่ายๆ



The screenshot shows a configuration window titled "SIP Extension Property". The breadcrumb path is "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". To the right of the field is a character set indicator: "[0-9 a-z A-Z - .]".

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)

SIP Phone : Registration 1/3

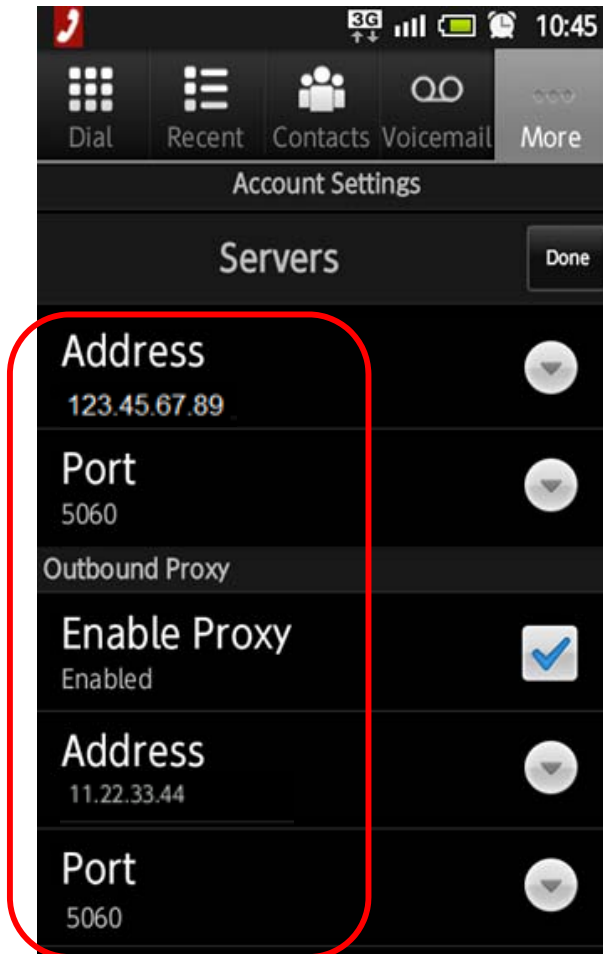
The image illustrates the first step of SIP phone registration on an iPhone. It shows two screenshots of the 'New SIP Account' setup process. In the first screenshot, the 'Define manually' option is selected under 'Custom SIP Settings'. In the second screenshot, the 'New Account' form is shown, with the 'Username', 'Password', and 'Servers' fields highlighted. A blue box on the right contains the registration details for 'KX-HTS'.

Registration Details:

```
KX-HTS
192.168.0.101 : 5060
Domain : 123.45.67.89
113 : phone-013 : ****
114 : phone 014 : ****
```

See next page.

SIP Phone : Registration 2/3

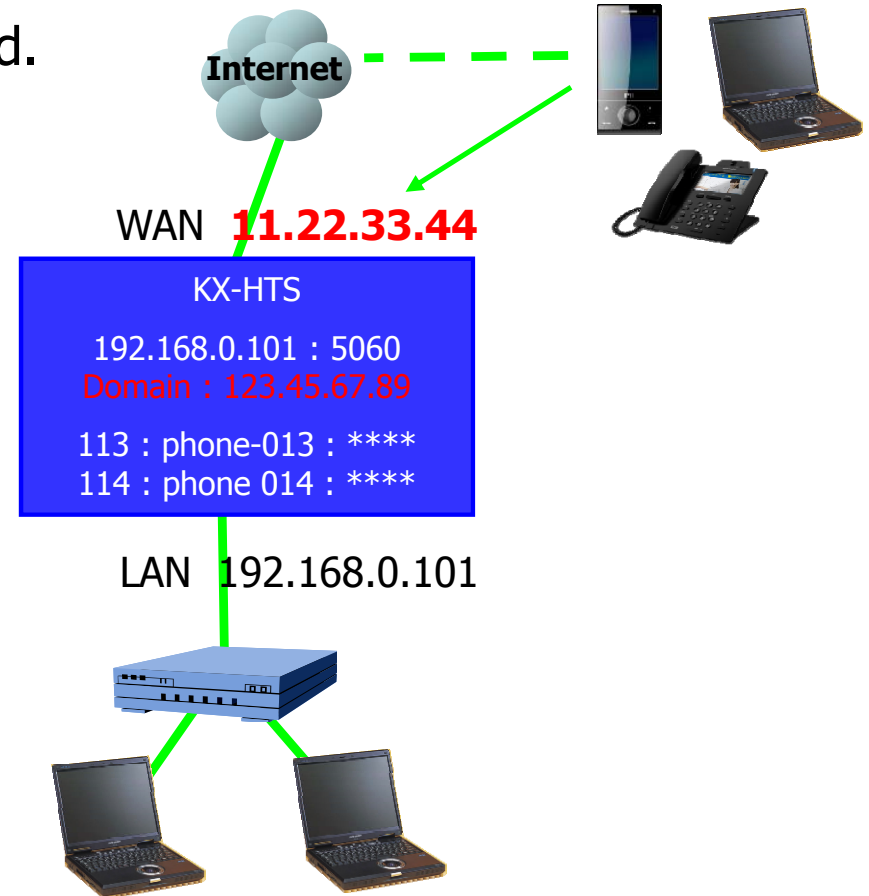


Proxy has to enabled.

123.45.67.89
5060

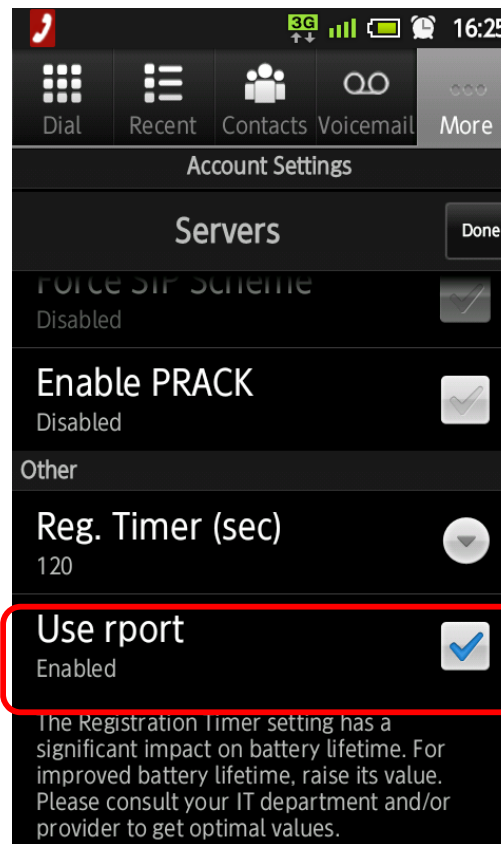
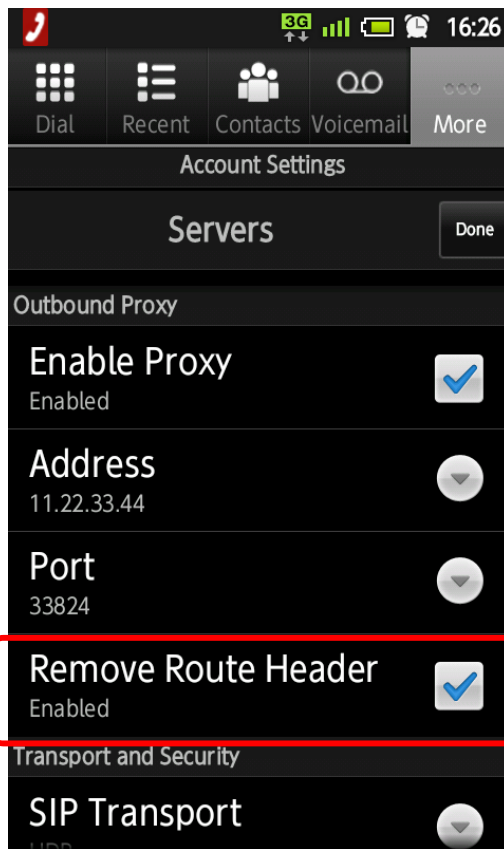
Enable

11.22.33.44
5060



IP address in above explanation is example.

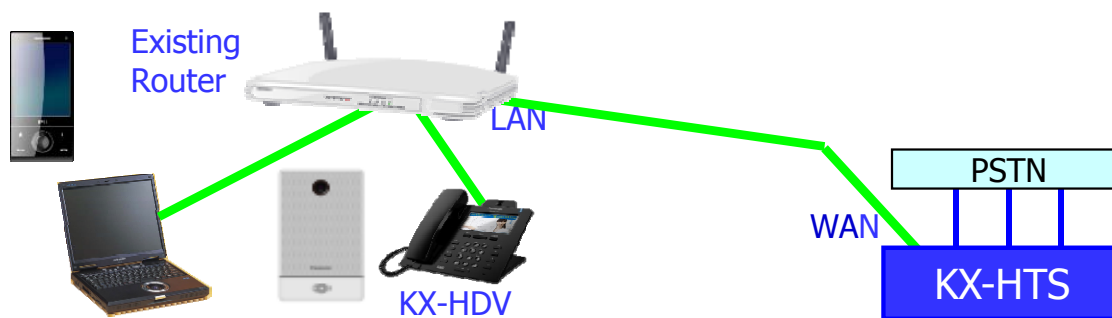
SIP Phone : Registration 3/3



Remove Router Header has to be enabled.
Use rport has to be enabled.

Chapter 2

WAN : LAN of Existing Router



Assign "Local" for the SIP extension.

"Local" สำหรับติดตั้งแบบไม่ผ่าน Internet. (Not Remote)
SIP domain name กำหนดเพื่อความปลอดภัย.

SIP Extension	
SIP Registration Status	Not yet
SIP User Name	<input type="text" value="phone-002"/> [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)

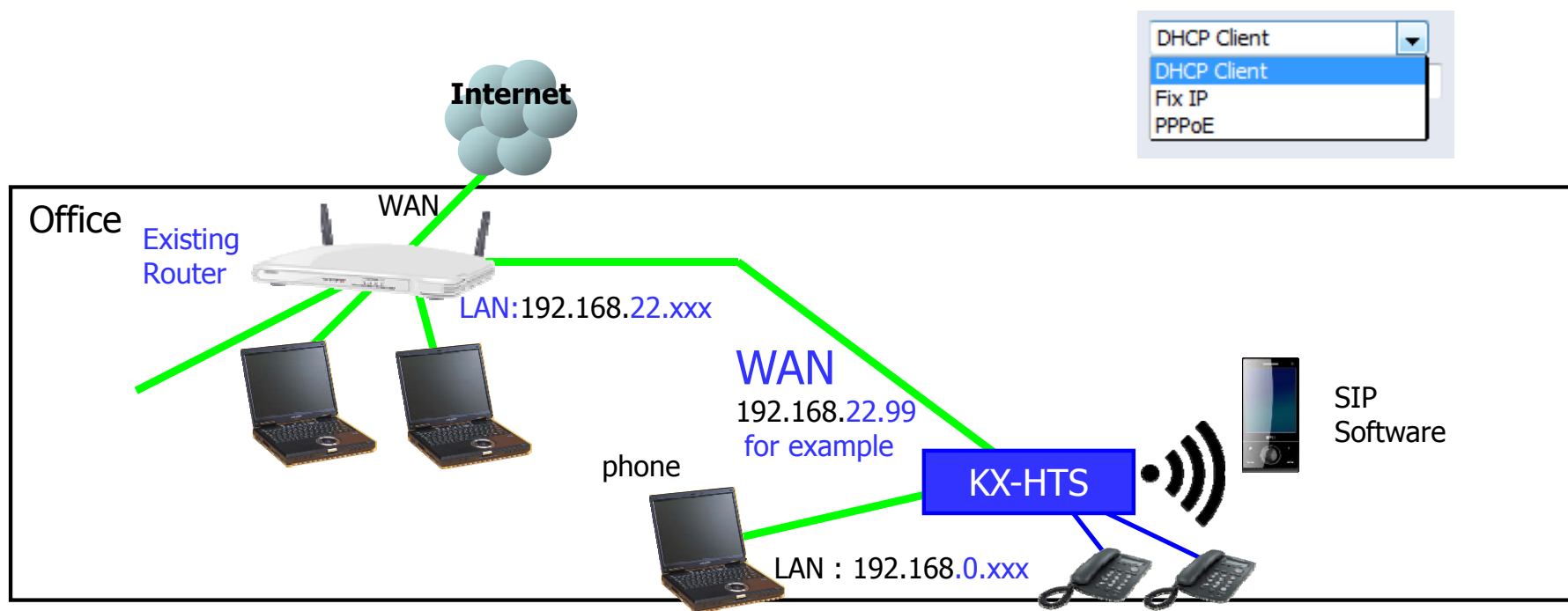
SIP Extension Property

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

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

Connect KX-HTS to LAN of Existing Router.

WAN port ของ KX-HTS824BX ต่อผ่านพอร์ต LAN ของ Router ภายนอก



Connect KX-HDV to LAN of Existing Router.

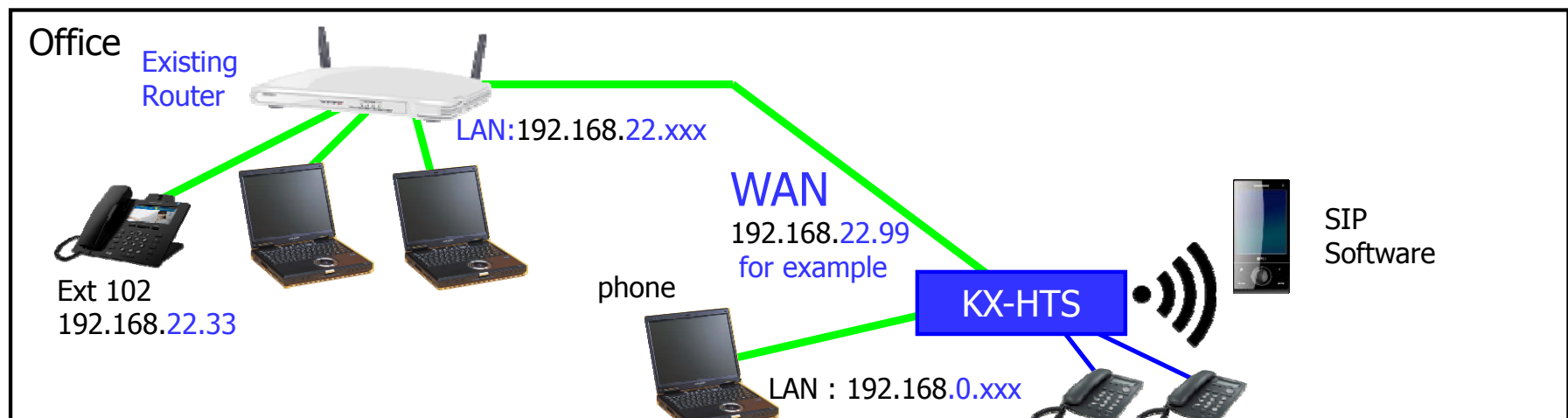
IP address ของ KX-HDV จะได้จาก DHCP server อัตโนมัติ

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



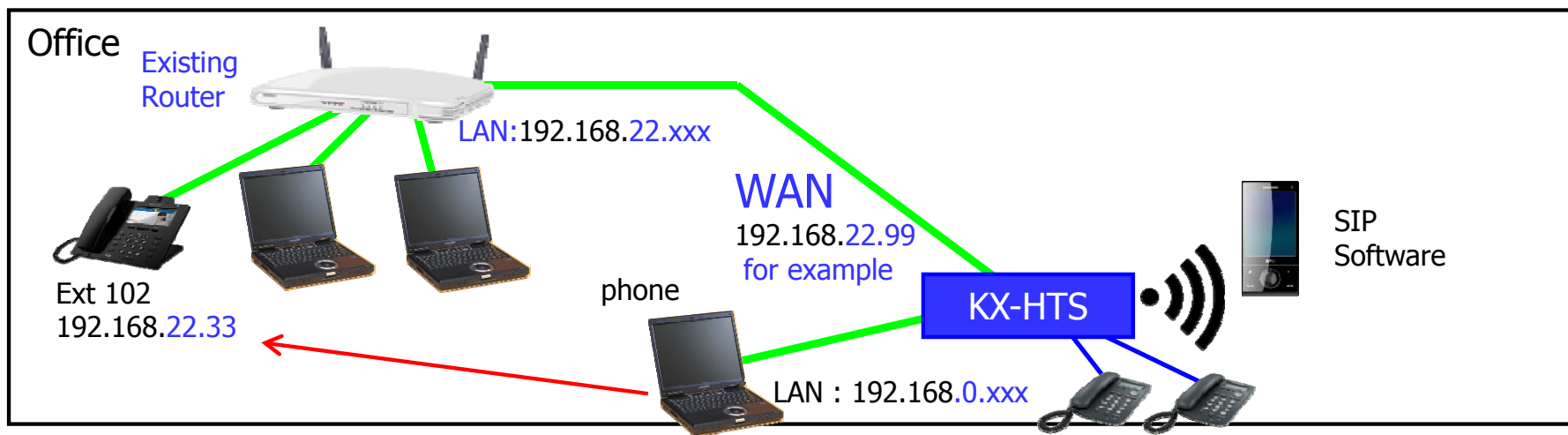
Log-in to KX-HDV for Web Programming.

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

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

 192.168.22.33

IP : admin
Password : adminpass



Assign SIP settings.

Panasonic
KX-HDV430

Status Network System **VoIP** Telephone Maintenance

SIP Settings [Line 1]

Web Port Close

VoIP

- SIP Settings
- Line 1
- Line 2
- Line 3
- Line 4
- Line 5
- Line 6
- Line 7
- Line 8
- Line 9
- Line 10
- Line 11
- Line 12
- Line 13
- Line 14

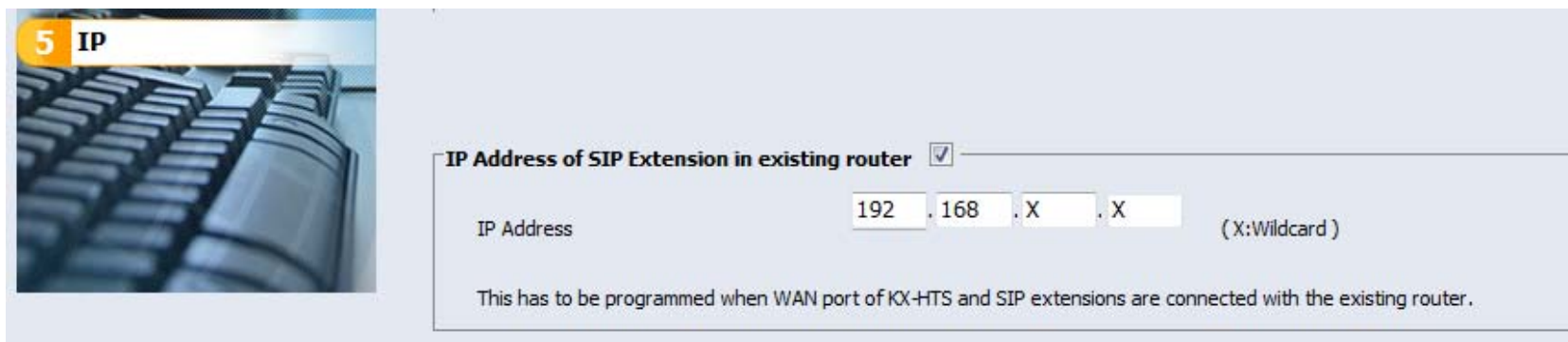
Basic	
Phone Number	102
Registrar Server Address	192.168.0.101
Registrar Server Port	5060 [1-65535]
Proxy Server Address	192.168.0.101
Proxy Server Port	5060 [1-65535]
Presence Server Address	192.168.0.101
Presence Server Port	5060 [1-65535]
Outbound Proxy Server Address	192.168.22.99
Outbound Proxy Server Port	5060 [1-65535]
Service Domain	123.45.67.89
Authentication ID	phone-002
Authentication Password

Advanced	
SIP Packet QoS (DSCP)	56 [0-63]



Reference

Only SIP phone ที่มี IP address 192.168.x.x ที่จะสามารถ Registered, ถ้าโปรแกรมตามนี้



5 IP

IP Address of SIP Extension in existing router

IP Address: 192 . 168 . X . X (X:Wildcard)

This has to be programmed when WAN port of KX-HTS and SIP extensions are connected with the existing router.

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 - .]

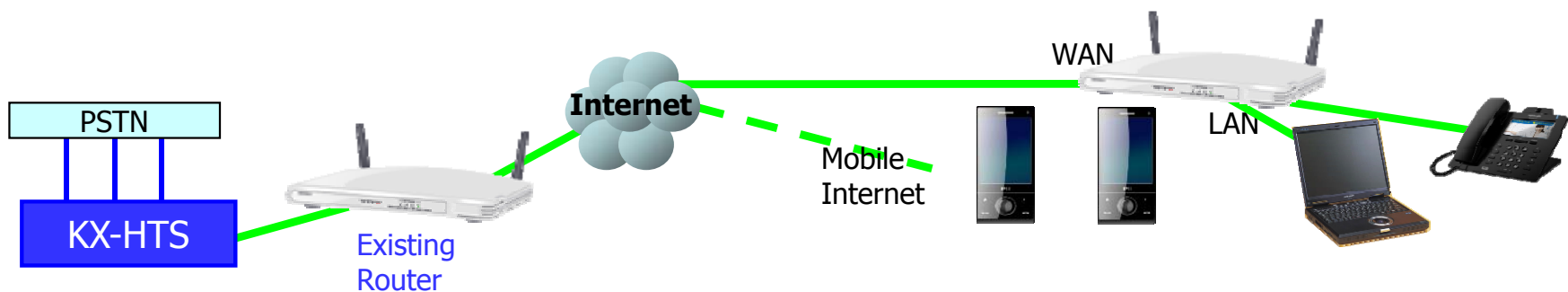
IP Address of SIP Extension in existing router

IP Address: 192 . 168 . 0 . 0

Subnet Mask: 255 . 255 . 0 . 0

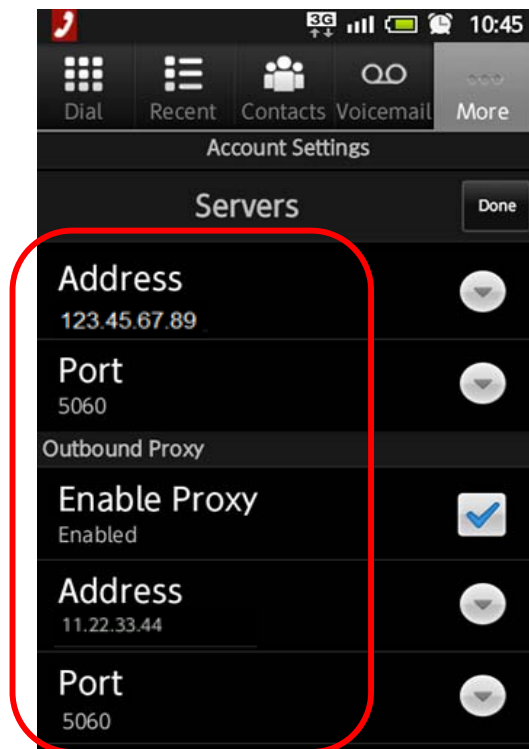
Chapter 3

Internet through Existing Router



Point of Programming

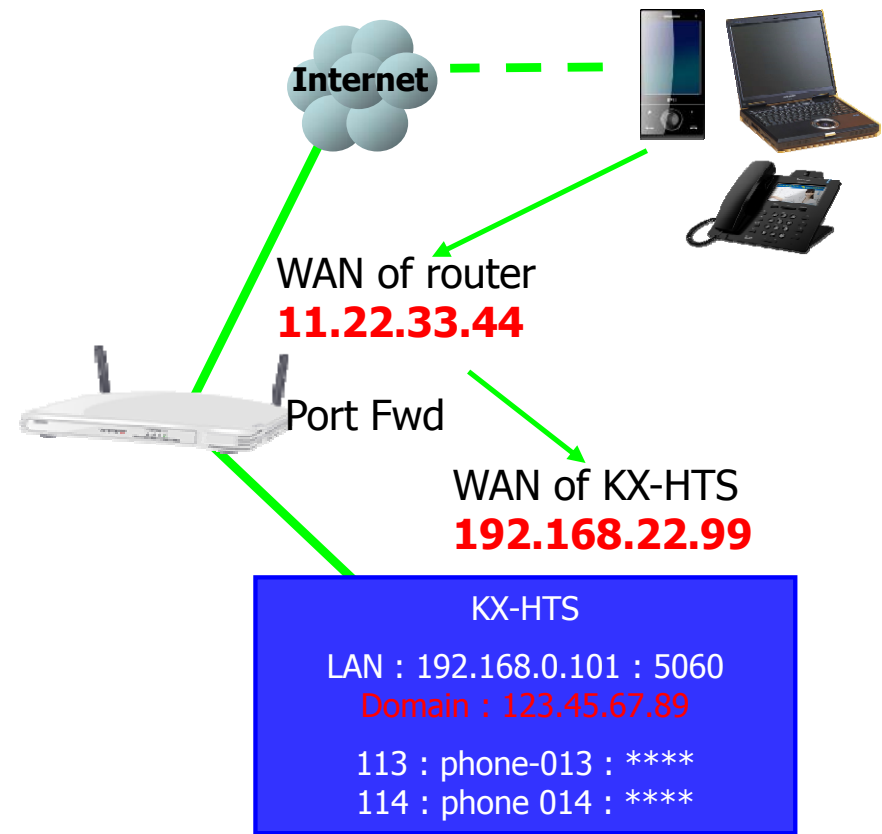
Notice and point of programming are same as chapter 1.
Port Fwd is required by existing router.



123.45.67.89
5060

Enable

11.22.33.44
5060



IP address in above explanation is example.

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.

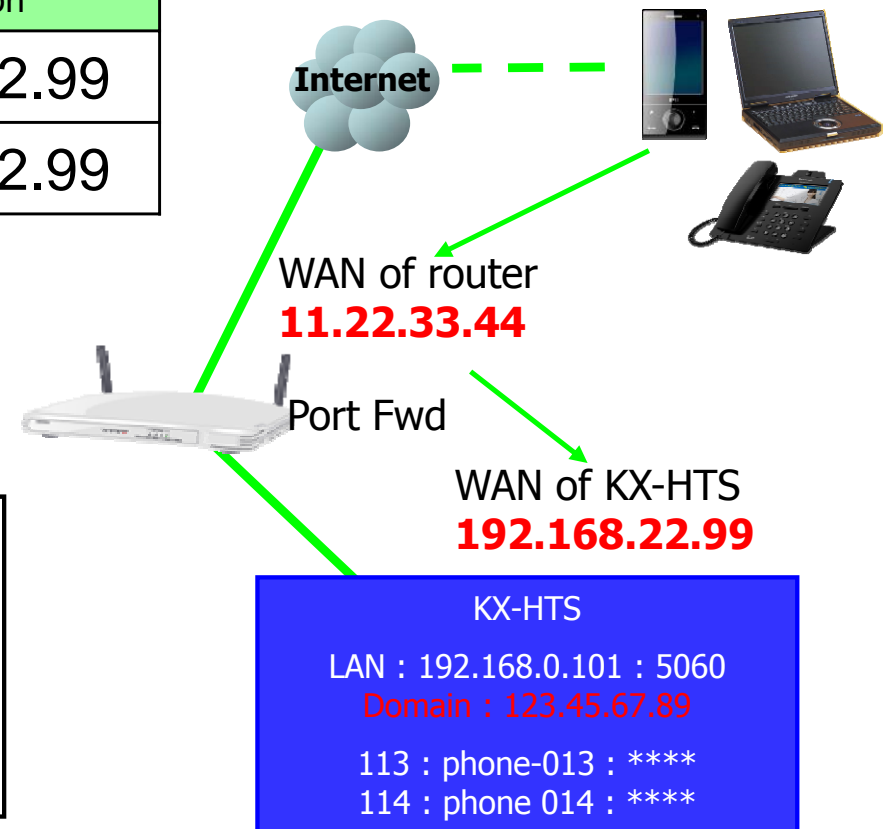
<Reference : Default port of KX-HTS>

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

SIP Extension & SIP Trunk Common

Voice (RTP) UDP Port No. (Server)

SIP Port Number

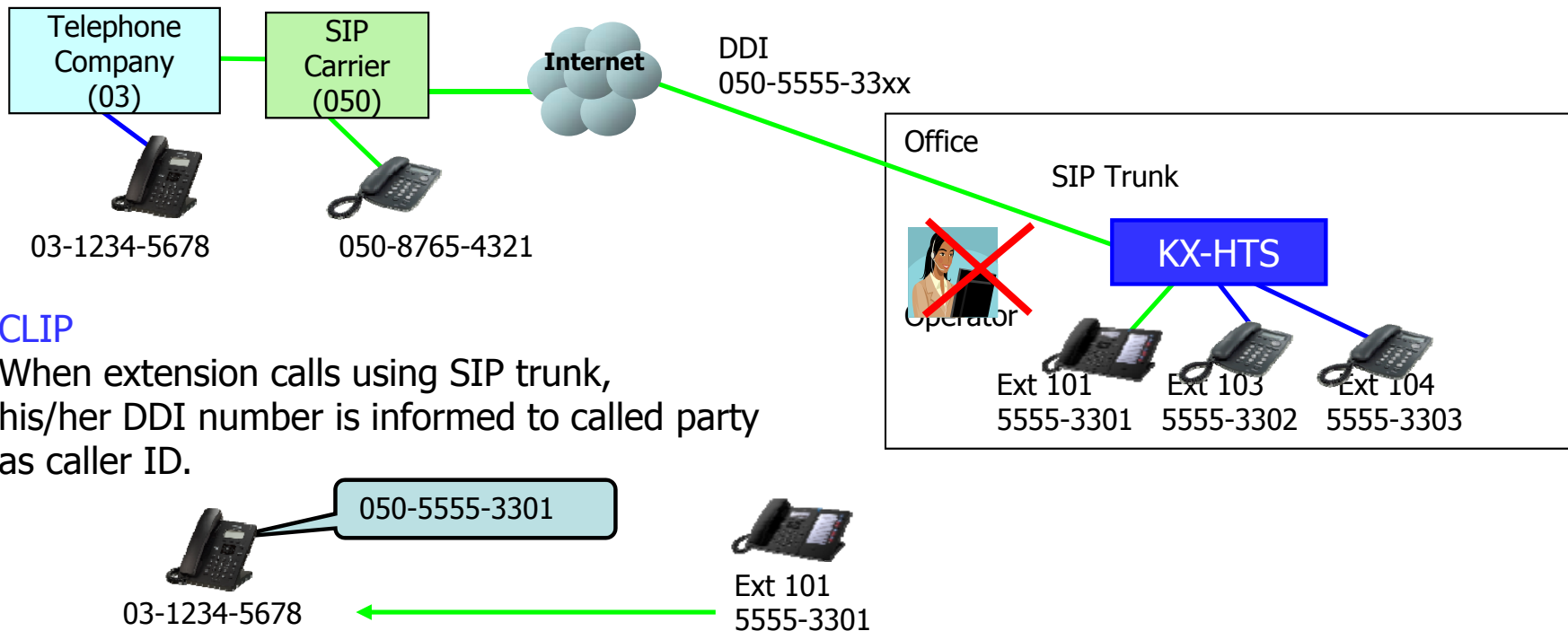


KX-HTS Step by Step Guide

SIP Trunk

Overview

SIP trunk กำลังเป็นที่นิยม เพราะสามารถช่วยให้ประหยัดค่าใช้จ่ายได้มาก
KX-HTS824BX รองรับ **200 DDI numbers** สำหรับ 1-2 SIP carriers.
สามารถเรียกไปที่สายในโดยตรงโดยไม่ผ่าน **Operator**.



Chapter 1

SIP Trunk Programming

Click Port to change to SIP.

คลิก พอร์ต 3

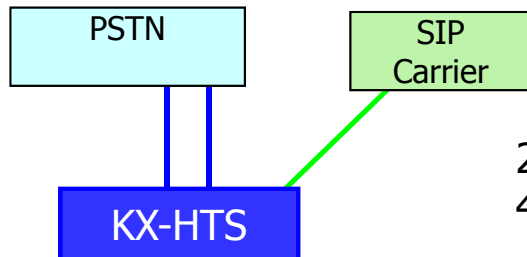
HTS Web Maintenance Console
000.00285

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analogue CO Property
 - 7. SIP Trunk Property

PBX Configuration

Extension	119	120	121	122	123	124	101	102	Doorphone	1	2		
	17	18	19	20	21	22	23	24					
Extension	111	112	113	114	115	116	117	118	Trunk	5	6	7	8
	9	10	11	12	13	14	15	16					
Extension	103	104	105	106	107	108	109	110	Trunk	1	2	3	4
	1	2	3	4	5	6	7	8					



2 lines of Analog CO and
4 ch of SIP for example.

Change the port to SIP.

HTS Web Maintenance Console
000.00285

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analogue CO Property
 - 7. SIP Trunk Property
- 4. TRS/ARS

Port
PBX Configuration > 3.Trunk > 1.Port

CO Line Number: 3

Attribution:

- Analogue
- SIP Carrier - 1**
- SIP Carrier - 2
- No Connect

Trunk Group: Analogue - Basic

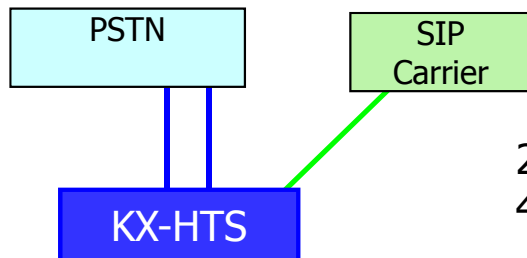
Assign Trunk Group.

The screenshot shows the HTS Web Maintenance Console interface. The breadcrumb path is PBX Configuration > 3.Trunk > 1.Port. The configuration page is titled "Port" and shows the following fields:

- CO Line Number: 3
- Attribution: SIP Carrier - 1
- Trunk Group: 1 (with a dropdown menu showing options 1, 2, 3, 4, where option 2 is selected)
- Analogue - Basic

The left sidebar shows the PBX Configuration menu with the following items:

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analogue CO Property
 - 7. SIP Trunk Property
- 4. TRS/ARS



2 lines of Analog CO for TRG1
4 ch of SIP for TRG2

Repeat to other trunk.

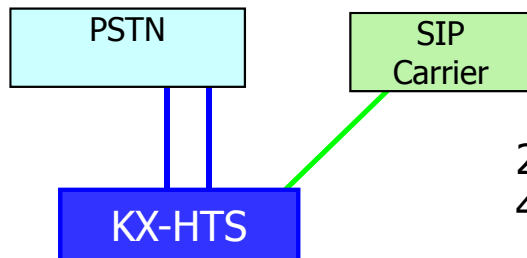
HTS Web Maintenance Console
000.00285

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
 - 1. Port
 - 2. DIL
 - 3. DDI
 - 4. Caller ID Modify & Block
 - 5. DISA
 - 6. Analogue CO Property
 - 7. SIP Trunk Property

PBX Configuration

Extension	119	120	121	122	123	124	101	102	Doorphone	1	2		
	17	18	19	20	21	22	23	24					
Extension	111	112	113	114	115	116	117	118	Trunk	5	6	7	8
	9	10	11	12	13	14	15	16					
Extension	103	104	105	106	107	108	109	110	Trunk	1	2	3	4
	1	2	3	4	5	6	7	8					



2 lines of Analog CO and
4 ch of SIP for example.

Assign SIP account.

สอบถาม SIP Account และ Password จาก ผู้ให้บริการ (SIP carrier)

The screenshot shows the HTS Web Maintenance Console interface. The left sidebar contains a navigation menu with categories: PBX Configuration, Network Configuration, and Maintenance. Under PBX Configuration, there are sub-items: 1. System, 2. Extension, 3. Trunk (selected), 4. TRS/ARS, 5. System Speed Dialling, 6. Conference, and 7. Voice Mail. The main content area is titled 'SIP Trunk Property' and shows the breadcrumb 'PBX Configuration > 3. Trunk > 7. SIP Trunk Property'. There are two tabs: 'Common' (selected) and 'SIP Carrier - 1'. The configuration fields are as follows:

Field	Value
SIP Registration Status	Not yet
Provider Name (20 characters)	
SIP Server Name (100 characters)	
SIP Server IP Address	0 . 0 . 0 . 0
SIP Server Port Number	5060 (1 - 65535)
SIP Service Domain (100 characters)	[0-9 a-z A-Z - .]
Subscriber Number	[0-9 # *]
Account	
User Name (64 characters)	
Authentication ID (64 characters)	
Authentication Password (32 characters)	
Register	
Register Ability	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Assign Voice Codec.

สอบถาม CODEC จาก ผู้ให้บริการ (SIP carrier)

If it is G.729, assign G729 for 1st priority and None for 2nd and 3rd priority.

PBX Configuration > 3.Trunk > 7.SIP Trunk Property

Voice

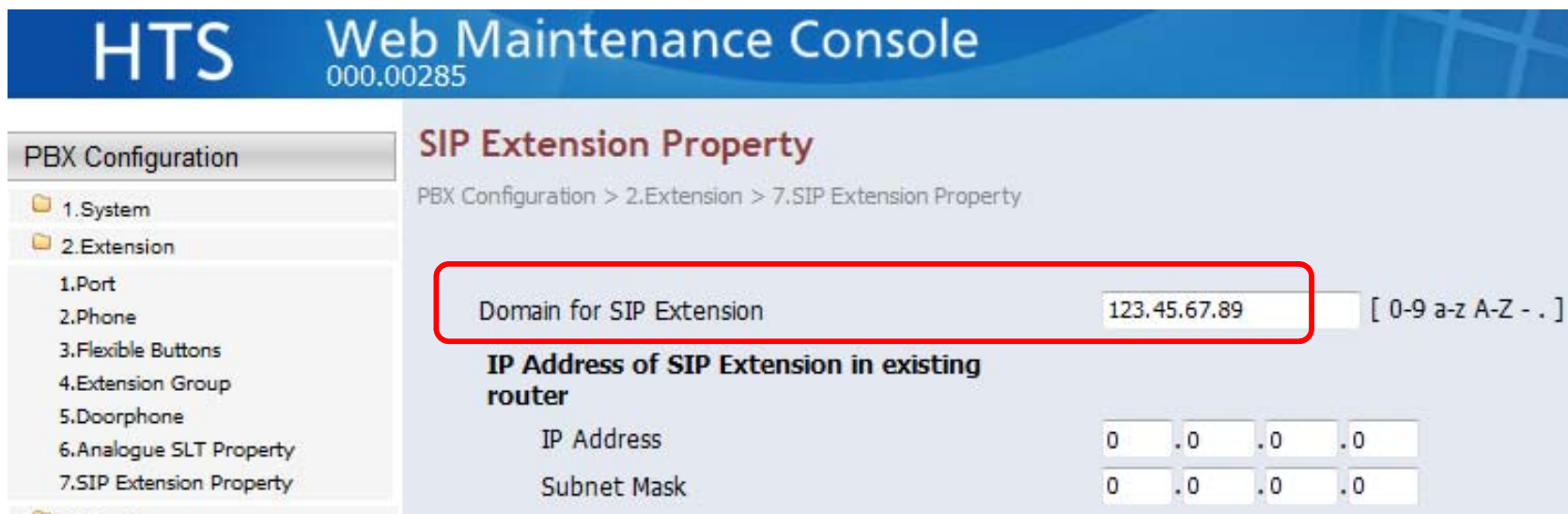
- | | |
|-----------------------|--|
| IP Codec Priority 1st | <input checked="" type="radio"/> G.711A
<input type="radio"/> G.711Mu
<input type="radio"/> G.729A |
| IP Codec Priority 2nd | <input type="radio"/> G.711A
<input checked="" type="radio"/> G.711Mu
<input type="radio"/> G.729A
<input type="radio"/> None |
| IP Codec Priority 3rd | <input type="radio"/> G.711A
<input type="radio"/> G.711Mu
<input type="radio"/> G.729A
<input checked="" type="radio"/> None |

Assign SIP Domain Name.

SIP domain name จะต้องกำหนดเมื่อใช้งานผ่าน WAN.

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 left sidebar is titled "PBX Configuration" and lists several menu items: 1.System, 2.Extension, 1.Port, 2.Phone, 3.Flexible Buttons, 4.Extension Group, 5.Doorphone, 6.Analogue SLT Property, and 7.SIP Extension Property. The main content area is titled "SIP Extension Property" and shows the breadcrumb "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 has a validation hint "[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", both showing "0 .0 .0 .0".

Assign DDI.

HTS Web Maintenance Console
000.00285

DDI
PBX Configuration > 3.Trunk > 3.DDI

DDI

DDI Configuration

SIP Carrier	DDI	Remove Digit	Additional Dial [0-9 # *]
1	Enable ▾	0 ▾	<input type="text"/>
2	Enable ▾	0 ▾	<input type="text"/>

DDI Table

No.	DDI Number [0-9 # *]	Name	Destination Day	Destination Lunch	Destination Night
1	<input type="text" value="55553301"/>	<input type="text"/>	101/ ▾	111/ ▾	501/DISA ▾
2	<input type="text" value="55553302"/>	<input type="text"/>	102/ ▾	602/Group ▾	602/Group ▾
3	<input type="text" value="55553399"/>	<input type="text"/>	691/Meet Me ▾	691/Meet Me ▾	691/Meet Me ▾
4	<input type="text"/>	<input type="text"/>	▾	▾	▾

กำหนดการเรียกเข้ามาที่ตาราง DDI

Assign CLIP.

HTS Web Maintenance Console
000.00285

PBX Configuration

- 1.System
- 2.Extension
- 1.Port
- 2.Phone
- 3.Flexible Buttons
- 4.Extension Group

Port
PBX Configuration > 2.Extension > 1.Port

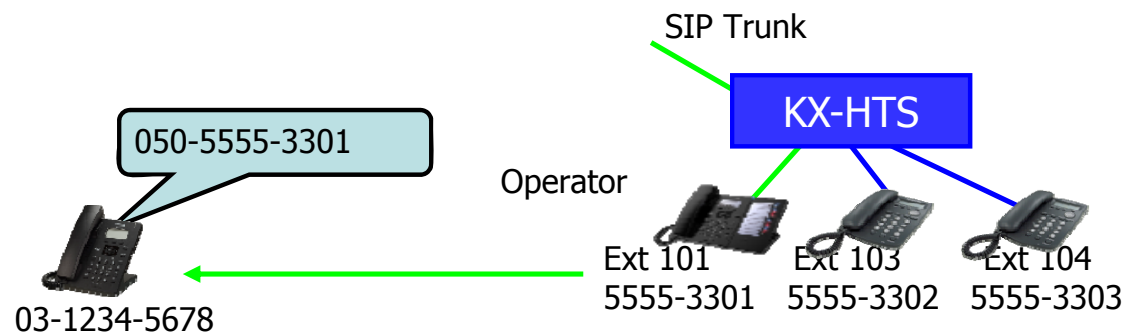
Extension Number [0-9]

Extension Name

CLIP

SIP Carrier - 1 [0-9]

SIP Carrier - 2 [0-9]



Chapter 2

Test after SIP Programming

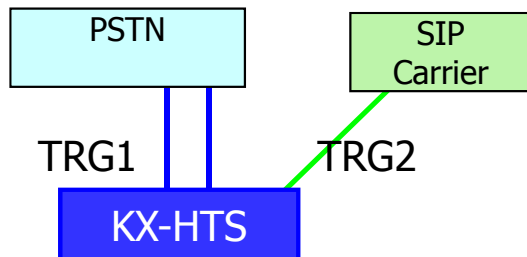
Confirm CO Access Number.

HTS Web Maintenance Console
000.00285

Numbering Plan
PBX Configuration > 1.System > 4.Numbering Plan

Main Features Quick Dial Dialling Plan

No.	Feature	Dial (1 digit) [0-9]	Additional Dial
5	Extension Numbering Scheme 5	5	XX
6	Extension Numbering Scheme 6	6	XX
7	Call Park	7	XX
8	Trunk Line / Trunk Group	8	0X or #X
9	Idle Line Access (Local Access) - 1	9	
10	Idle Line Access (Local Access) - 2	0	
11	Feature		



Dial 0 or 9 for any trunk + Phone number.
Dial 8#1 for TRG1 + Phone number.
Dial 8#2 for TRG2 + Phone number.

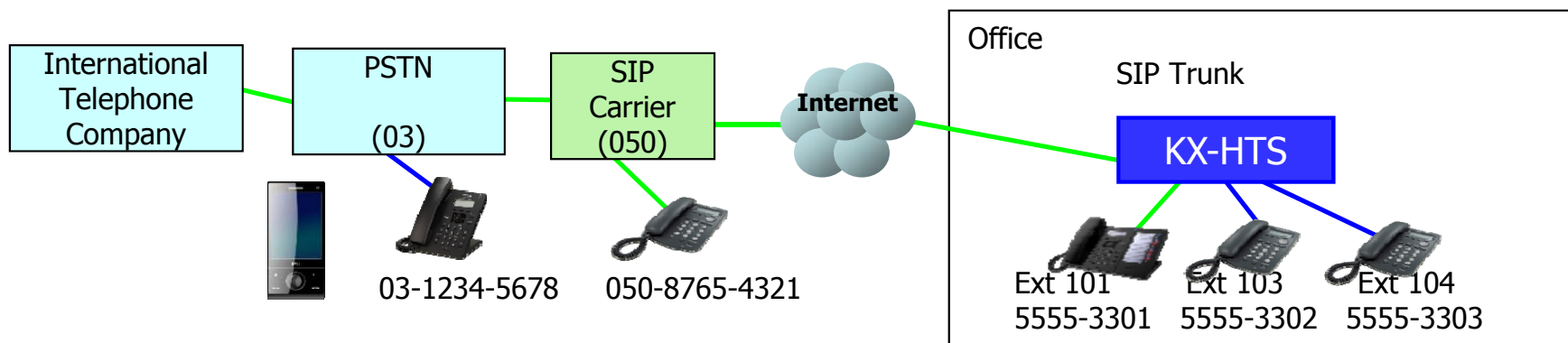
Phone number is 03-1234-5678 for example.

Make and Receive a call actually.

Outgoing call : CLIP as caller ID has to be sent to called party correctly.

Incoming call : Call has to be distributed to DDI destination with caller ID correctly.

Talking : Voice quality has to be good. DTMF can be sent.



Call	Phone	Check
Call from	Phone in SIP Carrier	
Call to	Phone in SIP Carrier	
Call from	Phone in PSTN (Analog)	
Call to	Phone in PSTN (Analog)	

Call	Phone	Check
Call from	Cellular Phone	
Call to	Cellular Phone	
Call from	International (if customer needs)	
Call to		

Chapter 3

ARS Programming

ARS : Automatic Route Selection

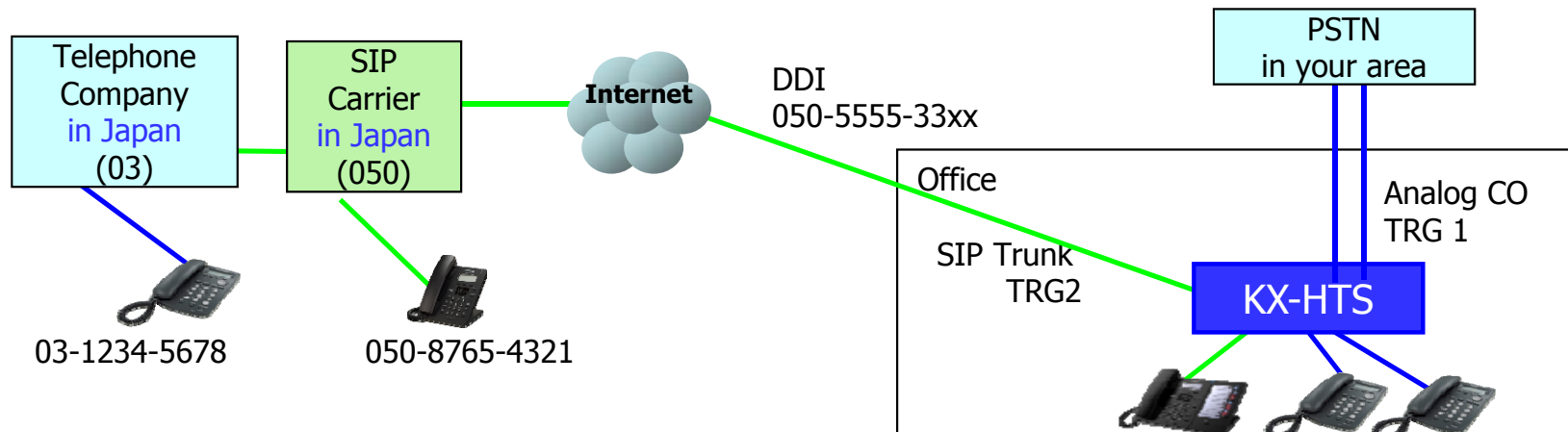
SIP trunk สามารถกำหนดการทำงานแบบ ARS เพื่อเปลี่ยนแปลงเลขหมายในการโทรออกได้.

9/0-011-81(Japan) selects SIP : TRG2. Remove 01181 and add 0.

Dialed number by user : 9/0-011-81-3-1234-5678

Dialed number by KX-HTS to SIP : 03-1234-5678

9/0-Other dial selects Analog CO : TRG1.



Assign Leading Digits & Change TRS.

HTS Web Maintenance Console
000.00314

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
 - 1. Leading Digits
 - 2. ARS Carrier
 - 3. Account Code
 - 4. Emergency Dial
 - 5. Options
- 5. System Speed Dialling
- 6. Conference
- 7. Voice Mail

Leading Digits
PBX Configuration > 4 TRS/ARS > 1. Leading Digits

No.	Leading Digits [0-9 # * N X Z]	TRS Level (COS) 1	TRS Level (COS) 2
1	011	Allow	Deny
2	01181	Allow	Allow
3	0X	Allow	Allow
4		Allow	Deny

Default of TRS level is 2 for all extensions.

Assign ARS Carrier.

No.	Leading Digits [0-9 # * N X Z]	TRS Level (COS) 1	TRS Level (COS) 2	ARS Carrier Priority-1	ARS Carrier Priority-2	ARS Carrier Priority-3
1	011	Allow ▾	Deny ▾	1: ▾	None ▾	None ▾
2	01181	Allow ▾	Allow ▾	2: ▾	1: ▾	None ▾
3	0X	Allow ▾	Allow ▾	1: ▾	None ▾	None ▾
4		Allow ▾	Deny ▾	None ▾	None ▾	None ▾

If carrier name is assigned as next page, it is displayed for selection.

ARS Carrier Priority-1	ARS Carrier Priority-2	ARS Carrier Priority-3
1:Local PSTN ▾	None ▾	None ▾
2:Japan SIP ▾	1:Local PSTN ▾	None ▾
1:Local PSTN ▾	None ▾	None ▾

Assign ARS Carrier.

HTS Web Maintenance Console
000.00314

PBX Configuration

- 1. System
- 2. Extension
- 3. Trunk
- 4. TRS/ARS
 - 1. Leading Digits
 - 2. ARS Carrier
 - 3. Account Code
 - 4. Emergency Dial
 - 5. Options
- 5. System Speed Dialling
- 6. Conference
- 7. Voice Mail

ARS Carrier
PBX Configuration > 4 TRS/ARS > 2. ARS Carrier

No.	Carrier Name	Dial Modification Remove(digits)	Dial Modification Add [0-9 # *]	Trunk Group
1	Local PSTN	0		TRG1
2	Japan SIP	5	0	TRG2
3		0		TRG1
4		0		TRG1

Programming is completed. Try making call by ARS.

KX-HTS Step by Step Guide Maintenance

Maintenance

เมื่อ KX-HTS824BX ไม่สามารถทำงานได้ตามปกติ ให้ปฏิบัติดังนี้

1. Restart KX-HTS โดยการ power off และ power on อีกครั้ง

2. ในกรณีที่ PBX ยังมีอาการเหมือนเดิม ให้ Upgrade software เป็นเวอร์ชันใหม่

3. ในกรณีที่ PBX ยังมีอาการเหมือนเดิม ให้ทำการ Save system data, syslog และ SMDR แล้วส่งมาที่ PST

Web-MC Maintenance

The screenshot displays the HTS Web Maintenance Console interface. The header includes the HTS logo, the text 'Web Maintenance Console' with the version '000.00211', and a language dropdown menu set to 'English (US)'. A left-hand navigation menu contains 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'Maintenance', there are sub-items: '1. Management', '2. System Control', and '3. Utility'. The main content area is titled 'Maintenance' and is divided into two sections: 'Version Information' and 'System Information'. The 'Version Information' section lists: Main Unit Version (000.00211), Bootloader Version (1.002), Router Version (UGW-6.1.1-1951-11May16), and WAVE300 Version (03.05.00.49). The 'System Information' section lists: MPR-ID (FAFF-3000-421B-244A), Main Unit Region (BX), and System Up Time (0 days 3 hours 21 minutes). At the bottom, there is a 'Copyright Notice' section with the text '© Panasonic System Networks Co., Ltd. 2016' and a 'View' button.

Version Information	
Main Unit Version	000.00211
Bootloader Version	1.002
Router Version	UGW-6.1.1-1951-11May16
WAVE300 Version	03.05.00.49

System Information	
MPR-ID	FAFF-3000-421B-244A
Main Unit Region	BX
System Up Time	0 days 3 hours 21 minutes

Copyright Notice © Panasonic System Networks Co., Ltd. 2016

[View](#)

Table of Contents

Chapter	Contents
1	Management
2	System Control (Firmware version up)
3	Utility
4	SMDR (CDR)
5	IP Trace

Chapter 1

Management

Web Programming

The screenshot displays the HTS Web Maintenance Console interface. The header includes the HTS logo, the title 'Web Maintenance Console' with the version '000.00211', and a language dropdown menu set to 'English (US)'. A left-hand navigation menu lists 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'Maintenance', there are sub-items: '1. Management', '1. Web Programming' (which is selected), '2. System Control', and '3. Utility'. The main content area is titled 'Web Programming' and shows a breadcrumb trail: 'Maintenance > 1. Management > 1. Web Programming'. The configuration items are as follows:

Configuration Item	Value / Status	Action
Remote Web Maintenance	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
Web Maintenance Password for Local Access	****	Edit
Web Maintenance Password for Remote Access		Edit
System PIN for Manager	****	Edit
Web Auto Logout Duration	120 (5 - 1440)	

Web Programming (Remote)

Password สำหรับ Remote access จะต่างกับ Local access.
Remote access ผ่าน WAN โดยใช้ https ค่าจากโรงงานปิดอยู่ (Disabled by default)

Remote access สามารถ enabled ผ่าน Web-MC (Local access) หรือ เครื่องโทรศัพท์ manager

Remote Web Maintenance

Enable Disable

Manager Extension :

Off hook + *# 1234 (System PIN) # + 196 + 1(Open) / 0(Close) #
=> Confirmation tone is sent after 10s.

Web Maintenance Password for Local Access	Web Maintenance Password for Remote Access	System PIN for Manager
New Password (must be 4-16 characters) [0-9 a-z A-Z]	New Password (must be 8-16 characters including numeric character and alpha character) [0-9 a-z A-Z]	New PIN (must be 4-10 numeric characters) [0-9]
Confirm Password [0-9 a-z A-Z]	Confirm Password [0-9 a-z A-Z]	Confirm PIN [0-9]
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	<input type="button" value="OK"/> <input type="button" value="Cancel"/>	<input type="button" value="OK"/> <input type="button" value="Cancel"/>

Web Programming (Condition)

Https จะปิดเองอัตโนมัติ (Closed automatically) เมื่อใส่ password ผิด 3 ครั้ง
Https จะปิดเองอัตโนมัติ (Closed automatically) เมื่อเวลาผ่านไป 24 ชั่วโมงในกรณีที่ไม่ได้เปิดแบบ

Remote access ไม่ทำงานจาก Extension user account.
(INSTALLER เท่านั้น)

Remote access control โดย phone is available และ Remote SIP phone

Remote access ผ่าน DISA

Call DISA + *47 + 101 (Manager Extension) + 1111 (PIN of 101 for example) + *# 1234 (System PIN) # + 196 # + 1 (https open) / 0 (https close) #.

Web Programming (Condition)

Local access โดย INSTALLER จะปิดเองภายใน 1 ชั่วโมงหรือกรณีใส่รหัสผ่านผิด 3 ครั้ง แก้ไขได้โดย Power-Off แล้ว Power-On

Log-in account ของแต่ละ จะปิดเองกรณีใส่รหัสผ่านผิด 3 ครั้ง

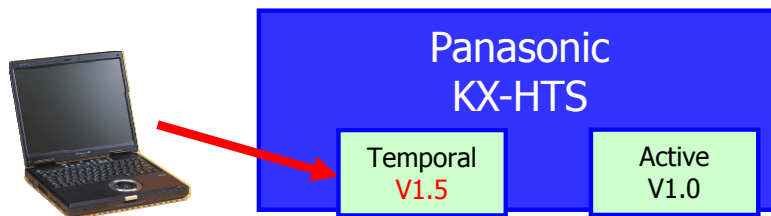
Maximum one INSTALLER and **xx** extension user can log in at the same time.

Chapter 2

System Control

Firmware Transfer to PBX (Temporal Memory)

The screenshot shows the HTS Web Maintenance Console interface. The header includes the HTS logo, the text 'Web Maintenance Console' with the phone number '000.00211', and a language dropdown menu set to 'English (US)'. On the left, a navigation menu is visible with categories: PBX Configuration, Network Configuration, and Maintenance. Under Maintenance, there are sub-menus for 1. Management, 2. System Control, and 3. Utility. The '2. System Control' menu is expanded, showing options: 1. Firmware Transfer to PBX, 2. Firmware Update, 3. System Data Backup & Restore, and 4. System Reset. The main content area is titled 'Firmware Transfer to PBX' and shows a breadcrumb trail: 'Maintenance > 2. System Control > 1. Firmware Transfer to PBX'. Below this, there are radio buttons for 'Transfer from' with 'Local PC' selected and 'USB Memory' unselected. Under 'Transfer from Local PC', there is a 'File Name' input field and a 'Browse' button. Under 'Transfer from USB Memory', there is a 'File Name' dropdown menu. At the bottom of this section, it states: 'Firmware should be placed /private/meigroup/psn/hts/update/'.



Firmware Update (Activate)

HTS Web Maintenance Console 001.00001 English (US) Logout

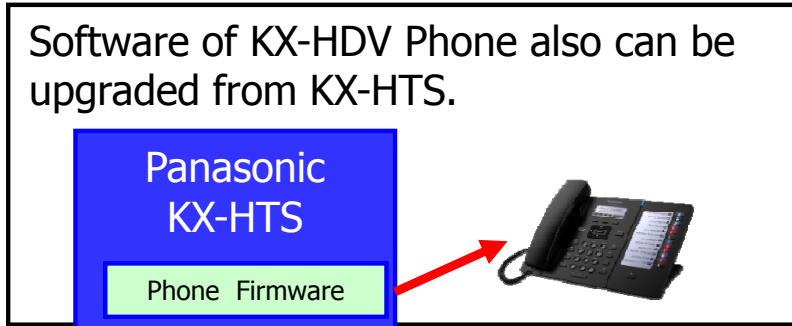
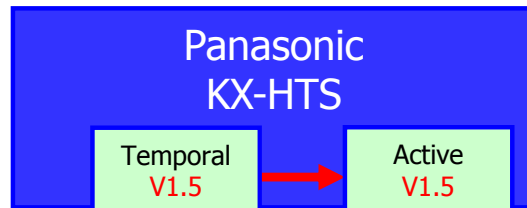
PBX Configuration
Network Configuration
Maintenance

- 1. Management
- 2. System Control
 - 1. Firmware Transfer to PBX
 - 2. Firmware Update
 - 3. System Data Backup & Restore
 - 4. System Reset

KX-HDV230	xxxx.tar.gz	versionXXX	Delete
-----------	-------------	------------	--------

Update Target

Target	Type	Port	Current Version
<input type="checkbox"/>	Main Unit	-	versionXXX
<input type="checkbox"/>	KX-HDV100	1	versionXXX
<input type="checkbox"/>	KX-HDV100	2	versionXXX



System Data Backup

HTS Web Maintenance Console
000.00211 English (US) ▼

- PBX Configuration
- Network Configuration
- Maintenance
 - 1. Management
 - 2. System Control
 - 1. Firmware Transfer to PBX
 - 2. Firmware Update
 - 3. System Data Backup & Restore**
 - 4. System Reset
 - 3. Utility

System Data Backup & Restore

Maintenance > 2. System Control > 3. System Data Backup & Restore

System Data Backup System Data Restore

Backup to Local PC USB Memory

If you selected USB Memory, System Data will be placed `/private/meigroup/psn/hts/backup/dsys/`

System Data Restore

HTS Web Maintenance Console 000.00211 English (US) ▼

System Data Backup & Restore
Maintenance > 2.System Control > 3.System Data Backup & Restore

System Data Backup **System Data Restore**

Restore from Local PC USB Memory

Restore from Local PC
File Name

Restore from USB Memory
File Name
System Data should be placed /private/meigroup/psn/hts/backup/dsys/

System Reset

The screenshot displays the HTS Web Maintenance Console interface. The top navigation bar includes the HTS logo, the text 'Web Maintenance Console' with the ID '000.00211', and a language dropdown menu set to 'English (US)'. On the left side, there is a sidebar menu with categories: 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'Maintenance', there are sub-items: '1. Management', '2. System Control' (which is expanded to show '1. Firmware Transfer to PBX', '2. Firmware Update', '3. System Data Backup & Restore', and '4. System Reset'), and '3. Utility'. The main content area is titled 'System Reset' and shows a breadcrumb trail: 'Maintenance > 2. System Control > 4. System Reset'. Below the title, there is a 'System Reset' label and a blue 'Reset' button. A 'Memo' section with a large empty text area is located below the button.

Chapter 3

Utility

USB

The screenshot displays the HTS Web Maintenance Console interface. The top header includes the HTS logo, the title 'Web Maintenance Console', the version number '001.00001', a language dropdown menu set to 'English (US)', and a 'Logout' link. The left sidebar contains a navigation menu with categories: 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'Maintenance', there are sub-items: '1. Management', '2. System Control', '3. Utility', and '3. USB' (which is highlighted with a dotted border). Below '3. Utility' are '1. Firmware Transfer to PBX', '2. Firmware Update', '3. System Data Backup & Restore', and '4. System Reset'. Under '3. System Control' are '1. System Log' and '3. Email Notification'. The main content area is titled 'USB' and shows a breadcrumb trail: 'Maintenance > 3. Utility > 1. USB'. Below this is a table with four columns: 'Capacity', 'Used', 'Available', and 'Unmount'. The table contains one row with the following values: '123,456 Bytes', '123,456 Bytes', '123,456 Bytes', and an 'Unmount' button. Below the table is a 'Memo' section with a text input area.

HTS Web Maintenance Console 001.00001 English (US) Logout

USB
Maintenance > 3. Utility > 1. USB

Capacity	Used	Available	Unmount
123,456 Bytes	123,456 Bytes	123,456 Bytes	Unmount

Memo

System Log

HTS Web Maintenance Console 000.00211 English (US) Save & Logout

System Log
Maintenance > 3.Utility > 2.System Log

Log Type Syslog Error Log - Major Error Log - Minor
Option

Log

```
[syslog_major]

[syslog_minor]
2016 Jun 7 09:16:23 (none) [#err] [AP][MN] MN ALM #002 10001000 System Restart
2016 Jun 6 09:52:11 (none) [#err] [AP][MN] MN ALM #002 10001000 System Restart
2016 Jun 2 21:33:39 (none) [#err] [AP][MN] MN ALM #002 10001000 System Restart
2016 Jun 2 13:59:15 (none) [#err] [AP][MN] MN ALM #002 10001000 System Restart

[syslog_update]
```

Save Log Save Clear Log

Email Notification

(VM to e-mail) for details.

The screenshot displays the HTS Web Maintenance Console interface. The top navigation bar includes the HTS logo, the text 'Web Maintenance Console' with the ID '000.00211', and a language dropdown menu set to 'English (US)'. A left-hand sidebar contains a tree view of configuration categories: PBX Configuration, Network Configuration, and Maintenance. Under Maintenance, there are sub-items: 1. Management, 2. System Control, 3. Utility, 1. USB, 2. System Log, and 3. Email Notification (which is currently selected). The main content area is titled 'Email Notification' and shows a breadcrumb trail: 'Maintenance > 3.Utility > 3.Email Notification'. Below this, there are two tabs: 'Email Notification' (active) and 'SMTP'. The configuration is divided into three sections: 'System Alarm' with fields for 'Filtering Setting' (checkboxes for Major and Minor), 'Email Address 1', 'Email Address 2', and 'Subject' (pre-filled with 'HTS System Alarm'); 'Voice Mail' with a 'Subject' field (pre-filled with 'Voice Message Recording'); and 'Send Test Email' with fields for 'Email Address' and 'Subject' (pre-filled with 'Test Email from HTS'). An 'Execute' button is located at the bottom of the form.

Chapter 4

SMDR (CDR)

SMDR

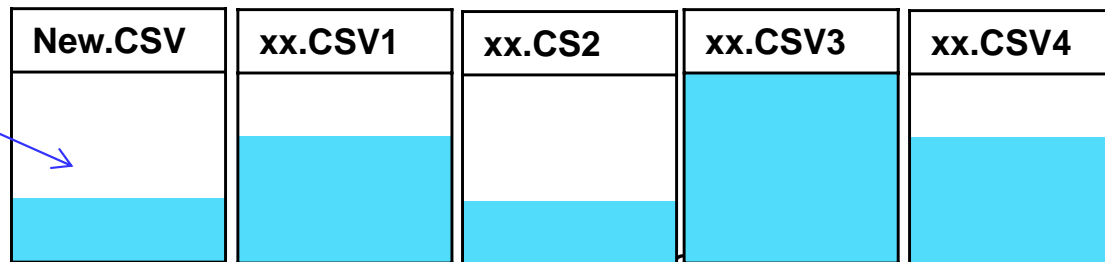
SMDR บันทึกผ่าน Web-MC แบบ Manually. (Not automatic)

The screenshot shows the HTS Web Maintenance Console interface. The top header displays 'HTS Web Maintenance Console' and the IP address '000.00314'. On the left, a navigation menu is visible with categories: 'PBX Configuration', 'Network Configuration', and 'Maintenance'. Under 'PBX Configuration', there are sub-menus for '1. System', '2. Extension', '3. Trunk', '4. TRS/ARS', '5. System Speed Dialling', '6. Conference', and '7. Voice Mail'. The '1. System' menu is expanded, showing options: '1.Date & Time', '2.MOH', '3.Week Table', '4.Numbering Plan', '5.Timers', '6.System Options', and '7.CDR'. The '7.CDR' option is selected, leading to the 'CDR' configuration page. The breadcrumb trail is 'PBX Configuration > 1.System > 7.CDR'. The main content area has a title 'CDR' and contains the following settings: 'CDR Recording' with 'Enable' selected (radio button), 'Disable' (radio button), and a 'Save CDR to PC' button. Below this is a 'Memo' section with a text area containing instructions in English and Spanish: 'Call records are saved in 1 new CSV file and 4 old CSV files. The maximum size of each file is 2.5 megabytes. Around 10,000 calls can be saved in each file.' and 'Los registros de llamadas son almacenados en 1 archivo CSV nuevo y 4 archivos CSV anteriores. El tamaño máximo de cada archivo es de 2.5 Mega Bytes. Alrededor de 10.000 llamadas son almacenadas en cada archivo.'

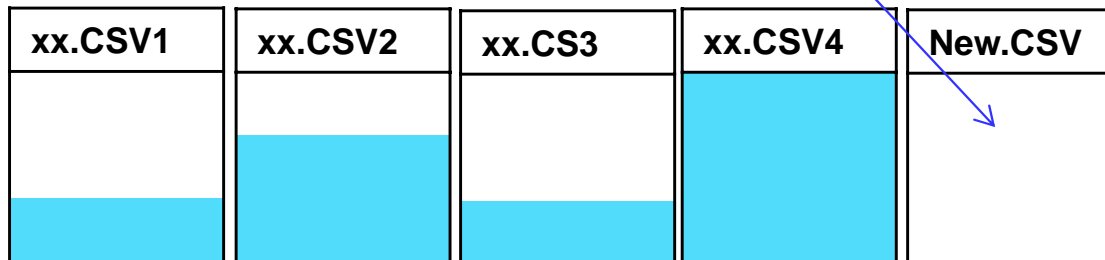
SMDR

Call records จะบันทึกเป็น 1 New CSV file และ 4 old CSV files.
แต่ละ File จะมีขนาดไม่เกิน 2.5 megabytes.
ประมาณ 10,000 calls ที่จะถูก Save ในแต่ละ file.

New Call



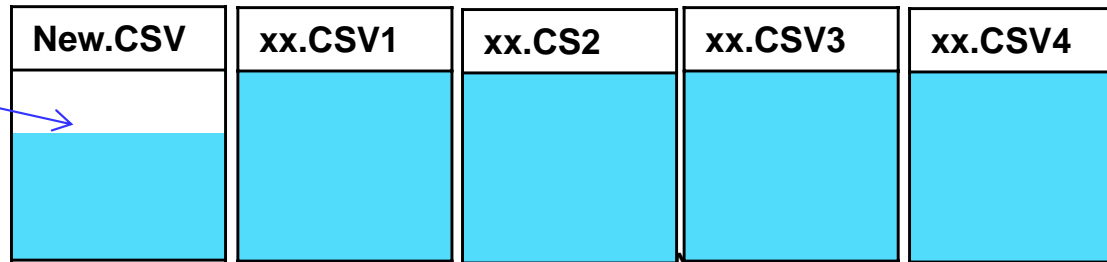
After back up to PC



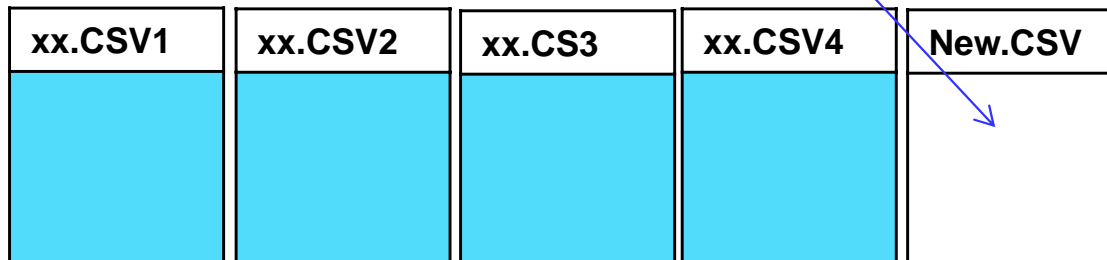
SMDR

ประมาณ 10,000 calls ที่จะถูก Save ในแต่ละ file.
40,000 – 50,000 calls จะถูก saved ลงใน KX-HTS824BX ในกรณีไม่ได้ Back-up
ด้วย Web-MC.

New Call



After overflow



Chapter 5

IP Trace

Port Mirroring

LAN 2 รองรับการทำงานแบบ Port Mirroring.

Network Configuration

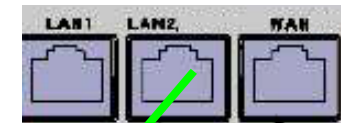
LAN1 Information

IP Address 192.168.0.101
Subnet Mask 255.255.255.0
MAC Address BC:C3:42:1B:24:4A

LAN2/WAN2 Setting & Information

LAN2/WAN2 Port *) LAN2 WAN2
Port Mirroring Disable
IP Address
Subnet Mask
MAC Address

- Disable
- LAN1 Port
- WAN1 Port
- WLAN Port
- LAN1&WLAN Port
- LAN1&WLAN&WAN1 Port



ขอบคุณจ้ะ!