

KX-NS300/1000BX V7,V8,KX-HDV800X and XML for HDV - Summary -

2019

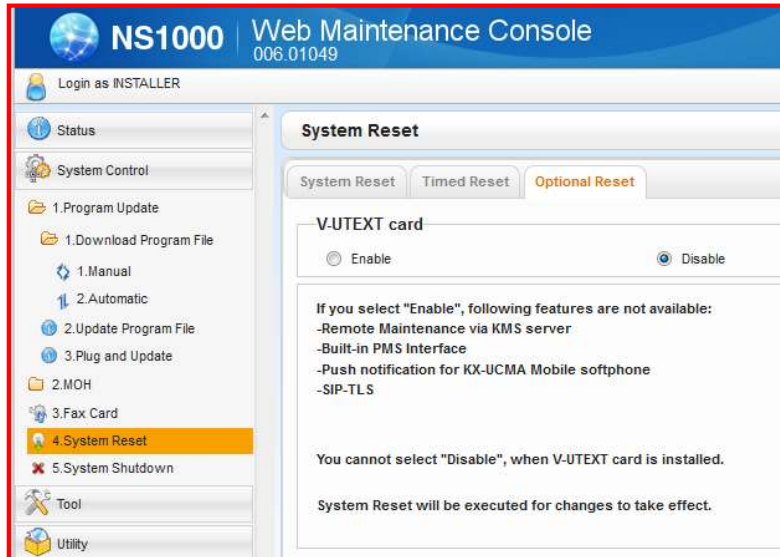


KX-NS300/1000BX V7.00 - Summary -

December 2018



เมื่อต้องการใช้งานการ์ด V-UTEXT จะต้อง enabled โดยโปรแกรมเพราะค่าจากโรงงาน (Default) disabled.



เมื่อเปลี่ยน Mode จะต้องทำการ Restart PBX ด้วยนะ

< When software is upgraded, >

KX-NS1000 V5 หรือ เก่ากว่า → KX-NS1000 V6 ขึ้นไป

with V-UTEXT → Start with "Enable" setting (New features do NOT work.)

Without V-UTEXT → Start with "Disable" setting (New features work.)

Chapter 1

Overview

Panasonic Table of Contents for V7

	Contents	KX-NS300 Version 7.0	KX-NS1000 Version 7.0
1	KX-NT630/680	Yes	Yes
2	Encryption for NT630/680	Yes	Yes (*)
3	FQDN setting at Remote Extension	Yes	Yes
4	Fidelio compatible FOS support	Yes	Yes (*)
5	FWD/DND Ease to Set	Yes	Yes
6	Other	Yes	Yes

(*) V-UTEXT cards have to be disabled for these features.

This condition is applied for KX-NS1000 and KX-NS300 in KX-NS1000 one look network.

KX-UT SIP phone can work with V-SIPEXT card without DSS/CO key.

Chapter 2

How to work?

KX-NT630/680BX

KX-NS300/1000BX version 7 รองรับการทำงานกับ KX-NT630/680 series.

KX-NT630
Flexible key label is
displayed on LCD.



KX-NT680
Color LCD is supported for more features
and easy operation.



มีให้เลือกทั้งสีขาวและสีดำ

- **KX-TDE/NCP ไม่สามารถใช้งาน KX-NT630 and NT680 ได้**
- **KX-NS1000 สามารถใช้งาน KX-NT630/680 ผ่าน KX-TDE/NCP โดยที่ KX-TDE/NCP ทำงานแบบ Legacy Gateway.**

Color LCD gives more features and easy operation. Up-to-date out look!

NT630	NT680	Other PT
No	Yes	No

Easy status display by icon



Absent message

Will return soon
202:Frank Newton



สามารถแสดงรูปภาพเพื่อการโฆษณาหรือ
การปรับปรุงภาพลักษณ์ขององค์กร.
สามารถ download ภาพผ่าน PBX

-การสนทนาด้วยเสียงพร้อมVideo co
และ ดูภาพผ่านกล้อง (camera)

ไม่สามารถทำได้

-ไม่รองรับ Touch Panel

No possibility of future enhancement due to hardware
limitation





Color LCD รองรับฟังก์ชันการทำงานที่มากขึ้นและใช้งานได้ง่าย

NT630	NT680	Other PT
No	Yes	No

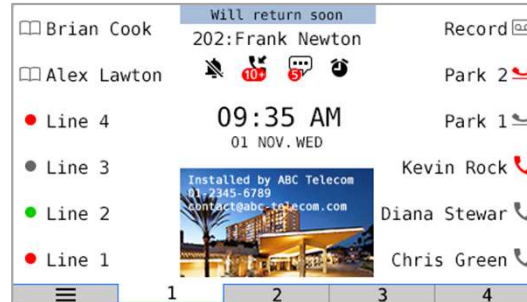
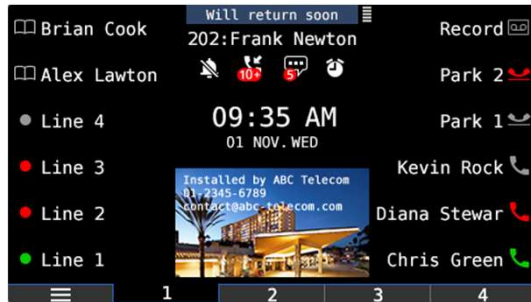
Easy status display by icon



Display when

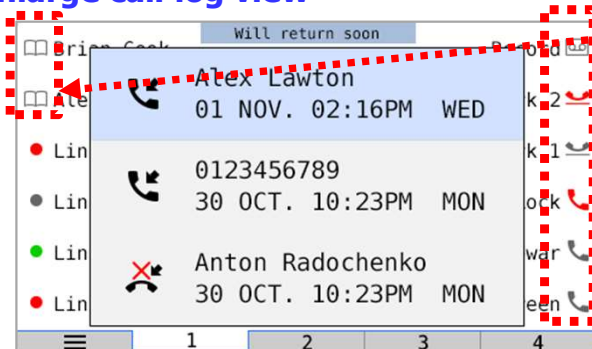
-  ในขณะที่ NT680 กำหนด No ring หรือ กำหนด volume เป็น 0, FWD All/DND On จะแสดง icon บนหน้าจอทำให้ดูง่าย
 - *Ringer volume can be adjusted during FWD All/DND active
-  Unread Incoming log > 0
-  Unread Voicemail > 0
-  Alarm On. เวลาปลุกที่ตั้งไว้จะแสดงให้เห็นบนหน้าจอ

สามารถเลือกสีได้ระหว่าง ดำหรือขาว (Black or White)



NT630	NT680	Other PT
No	Yes	No

Enlarge call log view



Sophisticated design icons for



2wayRec OneTouch Park DSS

DSS ICON : สีแดง/Busy, สีเทา/Idle

**Call Park ICON : กระพริบสีแดง/Parked call on the key,
สีเทา/No parked call on the key**

**2wayRec ICON : สีแดง/กำลังบันทึก (Recording conversation)
สีเทา/ Not recording**

Panasonic One touch access Key

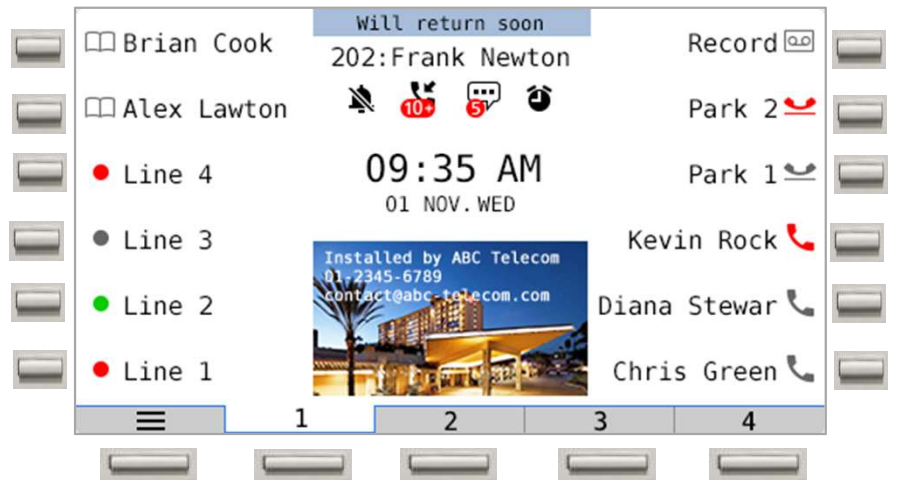
One Touch access key สำหรับแต่ละหน้าจอ

NT630	NT680	Other PT
Yes	Yes	No

KX-NT630 supports 4 pages x 6 keys.



KX-NT680 supports 4 pages x 12 keys.



One touch access key for "PT Programing"

NT630	NT680	Other PT
Yes	Yes	No



สามารถใช้ปุ่ม Pause ทำงานแทนปุ่ม "PAUSE / PROGRAM"
สำหรับ KX-NT630/680 เพราะไม่มีปุ่ม "Program"

Panasonic Up-to-date Log & Directory access

Quick access โดยปุ่ม Navigation

NT630	NT680	Other PT
Yes	Yes	No

[Up]

Ringer adjustment

[Left]

Incoming call log

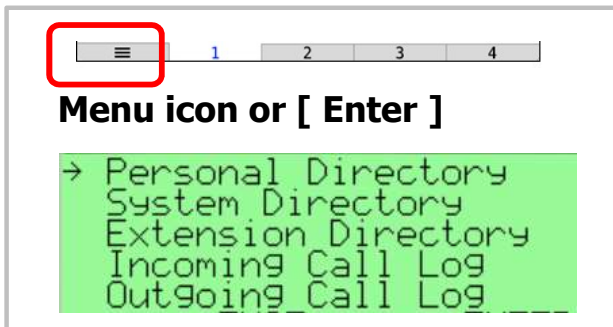


[Right]

Outgoing call log

[Down]

Extension Directory



[Auto Dial]

System Directory

เมื่อปุ่ม [Redial] ทำงานเป็นปุ่ม outgoing call log กด Navigation ทางขวามือเพื่อทำงานเป็น [Right] Personal Directory.

NT630	NT680	Other PT
No	Yes	No

Quick access โดยใช้ปุ่ม Navigation

ตัวอย่างการทำงานต่างๆบนปุ่ม Navigation



Above image is just an example.

The image is not stored inside PBX by default.

Step 1) เตรียมรูปที่ต้องการผ่านโปรแกรม Power Point หรือ Excel

Step 2) Copy โดยกดปุ่ม [Alt] + [Print Screen].

Step 3) วางลงบน MS Paint.



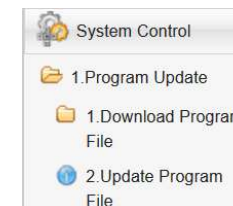
Step 4) กำหนดภาพขนาด 16:9 และ save เป็นไฟล์ PNG

(JPEG / PNG / BMP / GIF Max size : 1MB)

ชื่อไฟล์จะประกอบด้วย "0-9 A-Z a-z # % - . ="
ไม่เกิน 32 ตัวอักษร



NT630	NT680	Other PT
No	Yes	No



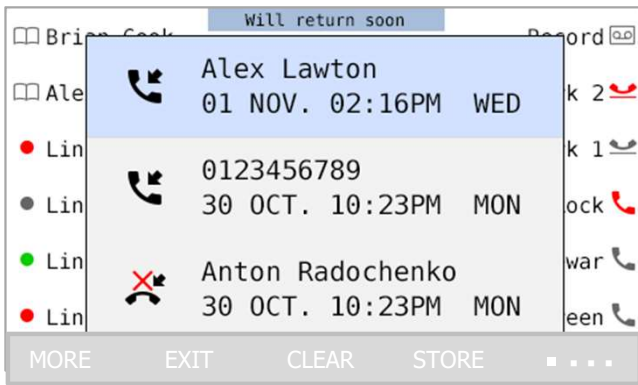
Step 5) Transfer ไฟล์ PNG ไปที่ PBX เหมือนทำ firmware upload.
=> PBX กำหนดเป็นไฟล์ชื่อ "PNTPICT"

Step 6) Transfer จาก PBX to KX-NT680
เหมือน firmware update.
=> Picture จะถูกปรับเป็น 16:9 อัตโนมัติ.



NT630	NT680	Other PT
No	Yes	No

[Left] Incoming call log

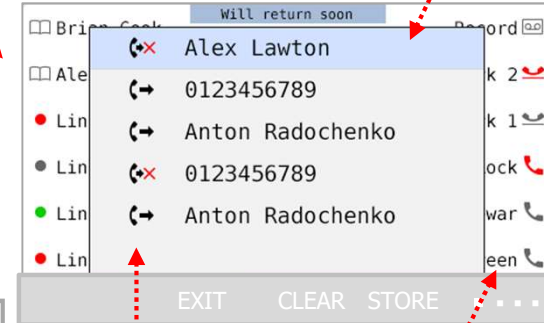


Direct page selection

KX-NT630 has fixed page key as well.



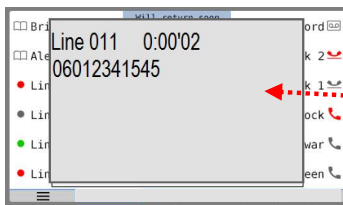
[Right] Outgoing call log
Name is displayed basically.



Icon จะแสดง "Answered" และ "Not Answered".

แสดงชื่อ 3 ตัวอักษรแรก

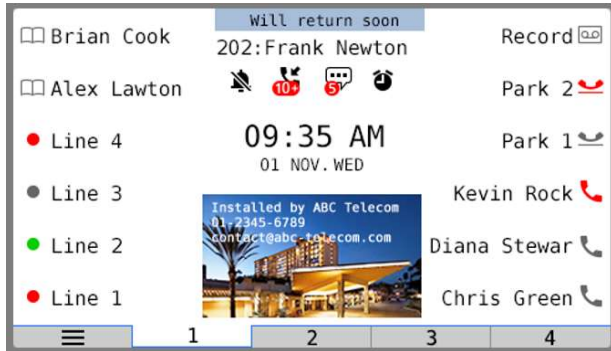
Other display is same as KX-NT556.



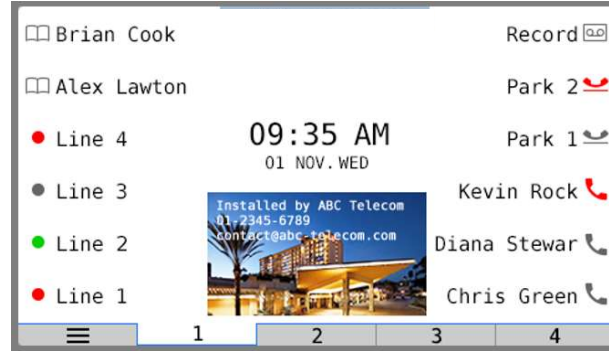
KX-NT556
Talking for example



Operation Example of KX-NT680



Off hook



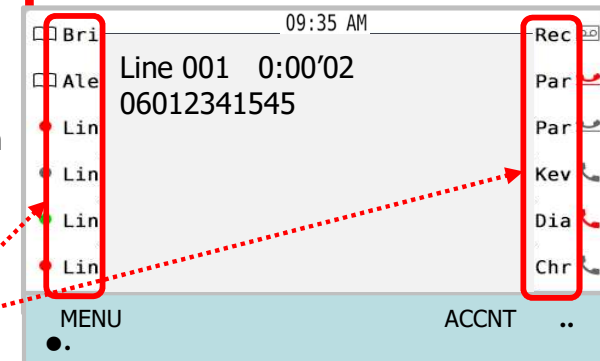
Dial

Press "Hold" or "Transfer" or "Conference" Button then child screen will be hid.

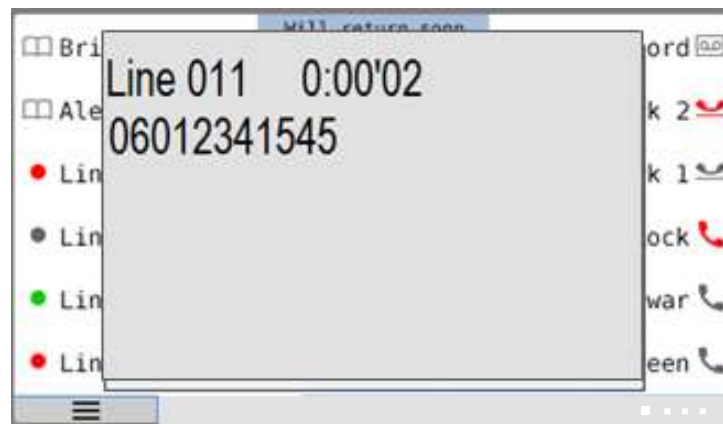


More dial

Establish conversation



While Child screen overwrap then first 3 character of Key label present.

Automatic switch page Mode (default : Disable)

KX-NT6XX series ค่าจากโรงงาน ไม่สามารถ
เปลี่ยนหน้าอัตโนมัติ เมื่อมีสายเรียกเข้ามา

Local "Setup" settings (เช่น IP address/DFGW/DNS) สามารถโปรแกรมบน PBX web programming.

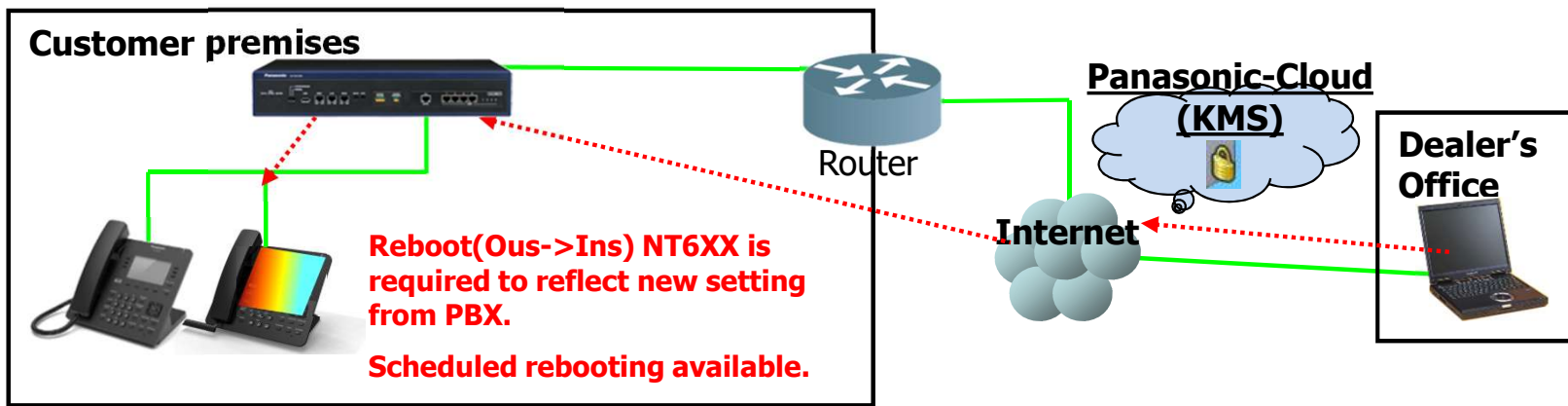
NT630	NT680	Other PT
Yes	Yes	No

Way to change Local settings at NT side

Supply power to the IP-PT. ▶ **SETUP** ▶▶

Press "SETUP" when it is displayed.

- Menu
- Network
- Speed / Duplex
- PBX
- IP Port
- QoS



Panasonic One touch access to VM

One touch access to VM (Built-in UM)

NT630	NT680	Other PT
Yes	Yes	Yes

ปุ่ม Message key ทำงานแบบ VM key. (Default)

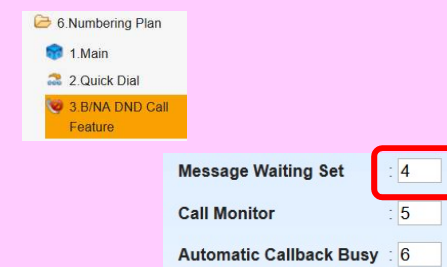
สามารถเลือกการทำงานระหว่าง "Message key" และ "VM Key" ผ่าน system programming.

VM key ออกมาสำหรับ business office. Message key เหมาะกับการทำงาน hotel guest room.

During	When you press the VM key,
Idle	VM is called even if zero new message.
Ringing by incoming call	Your mail box in VM answers.
Calling other extension Ring back tone Busy tone DND tone	Mail box of other extension in VM answers.
Talking	It works as VM transfer key.

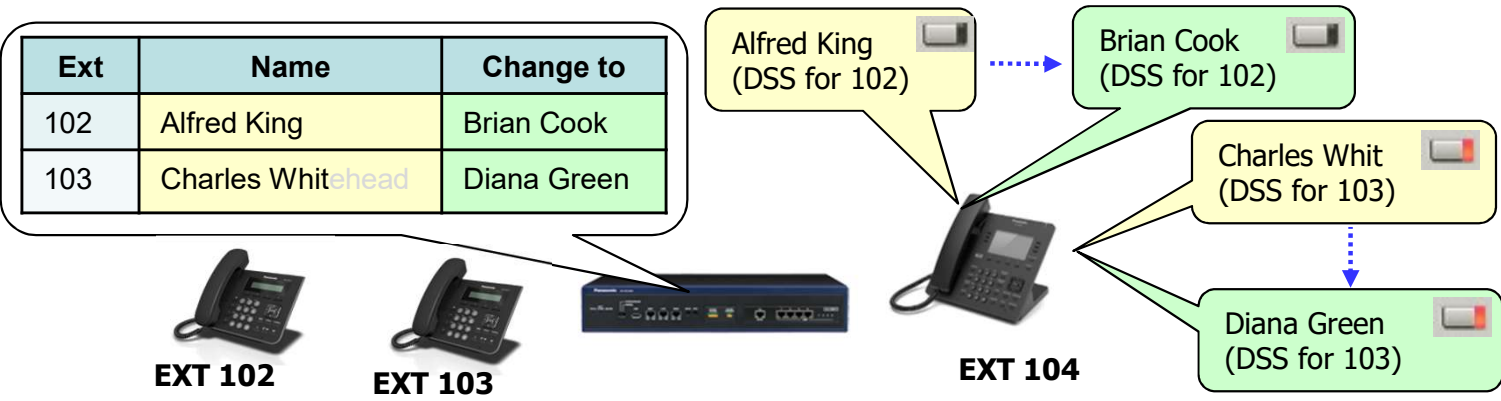
<Technical Tips>

Message key set at flexible key works as original message key behavior. And dialing *702 works for message reply. In case assign this key on FF then remove "4" to avoid leaving a message by mistake.



การเปลี่ยนชื่อที่โทรศัพท์แบบคีย์และ NT ทุกเครื่องทันทีเมื่อมีการโปรแกรมชื่อใหม่

NT630	NT680	Other PT
Yes	Yes	Yes



2. Encryption

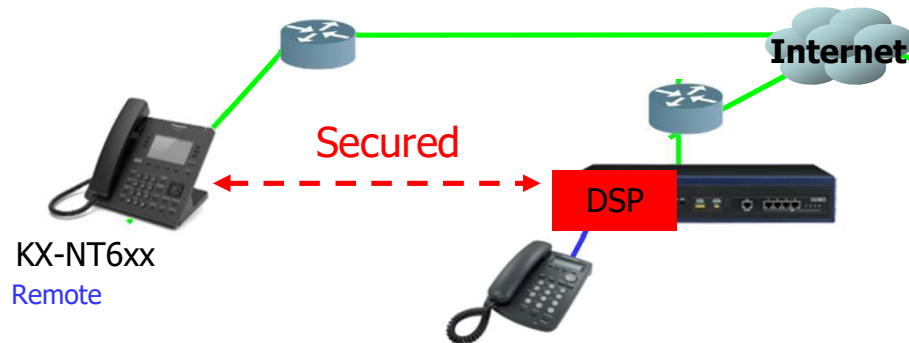
S RTP และ MGCP-TLS รองรับการทำงานเฉพาะ **Remote NT6XX**

S RTP : Secure Real-time Transport Protocol สำหรับ **Voice data**
MGCP-TLS : **Operation process information** เช่น **caller ID is encrypted.**

- S RTP สามารถ **Enabled** แต่ละ **IP extension port by web programming.** **MGCP-TLS** จะ **enabled** อัตโนมัติ เมื่อ **Enable S RTP**
- P2P** จะ **Disable** อัตโนมัติเมื่อ **Enable S RTP** . **Voice packet** จะส่งผ่านการ์ด **DSP**
- เมื่อมีการใช้งาน **S RTP** จะต้องพิจารณาเพิ่ม **Resource** ของ **DSP**

NT630	NT680	Other PT
Yes	Yes	No

Codec	No S RTP	S RTP
G.711	1	1.3
G.729	2.2	2.2 (No change)



KX-NS PBX has already supported SIP-TLS for SIP extension.

Free Wi-Fi by Hacker

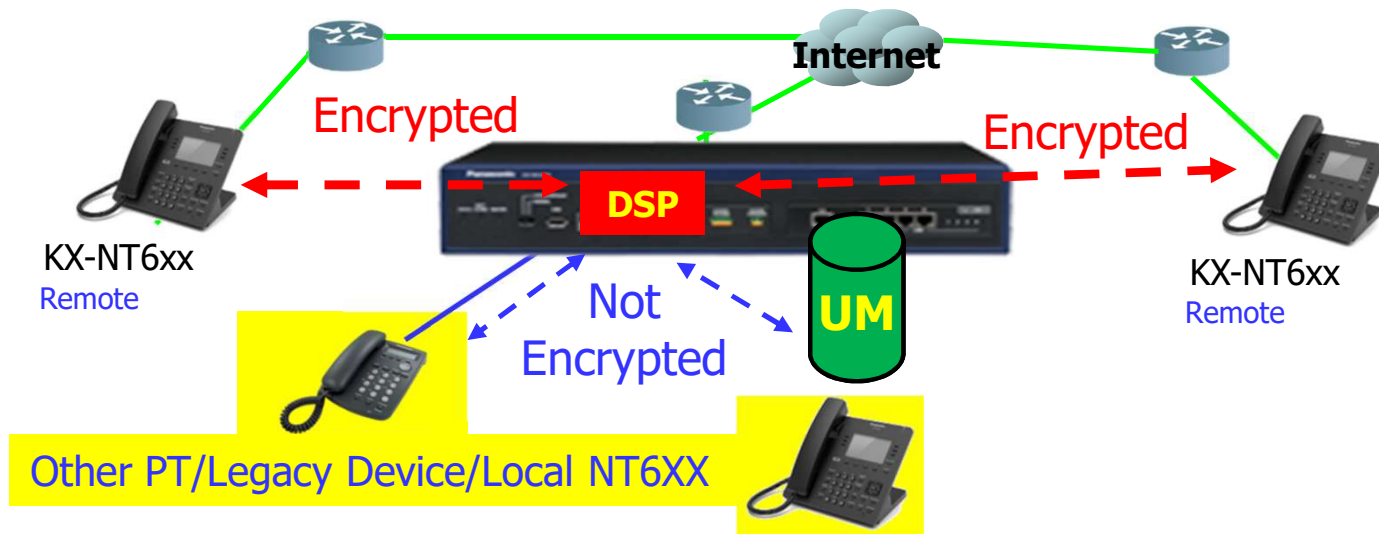
Cracker cannot see SIP password, call information and so on.

NT630	NT680	Other PT
Yes	Yes	No

SRTP and MGCP-TLS are supported Only for remote NT6XX

KX-NT6xx: Set "Remote + Local" and "MGCP-TLS/SRTP"=Enable

Even so if NT6XX is located local network same as PBX then there is no encryption.

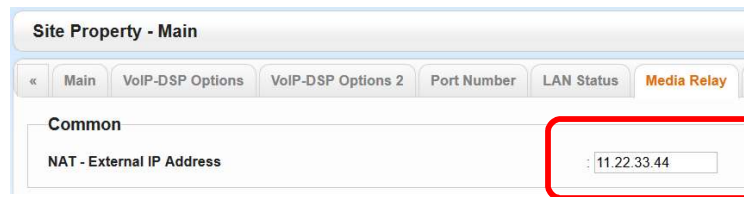
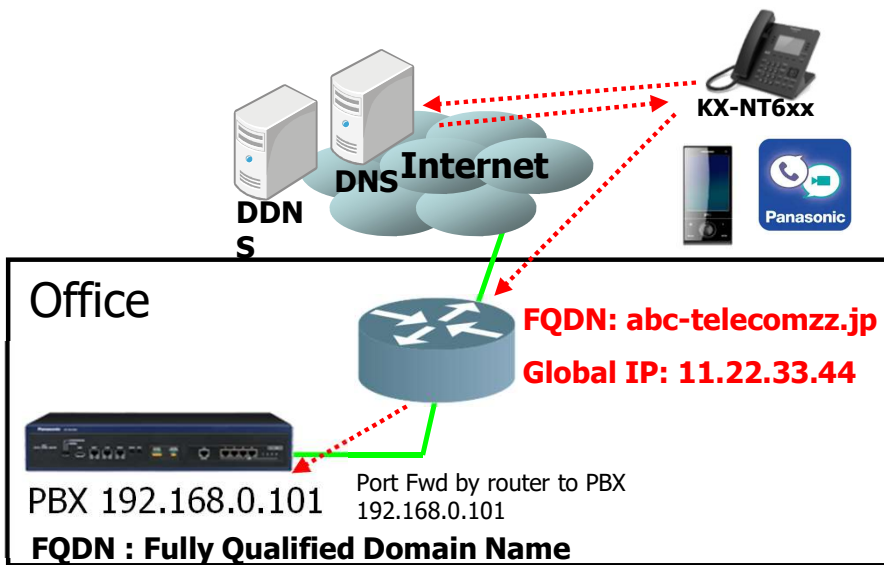


3.FQDN

Fully Qualified Domain Name

FQDN ออกมาเพื่อกำหนด PBX location แทนการกำหนด IP address สำหรับ remote IP extension.

NT630	NT680	Other PT
Yes	Yes	No



FQDN also can be set. (by Web-MC only) "abc-telecomzz.jp" for example
KX-NT6xx and KX-UCMA also has to connect to router using name.

HDV	UCMA	Other SIP
Yes	Yes	(*1)



(*1)No guarantee by Panasonic

FQDN สามารถกำหนด PBX location แทน IP address สำหรับ Remote IP Extension.

**While set FQDN : IP address DNS resolve is initiated at NT6's start up process only.
This process is not run during normal operation.
When FQDN related IP address is changed then Keep Alive time out , NT reboot and
then DNS resolve process is initiated again to get updated IP address.**

DNS จะต้องกำหนดเสมอสำหรับ NT630/680.

ในกรณี **FQDN** กำหนด **PBX location information**,

IP address สำหรับ **NT630/680** กำหนดเป็น **Static IP** และไม่ได้กำหนด **DNS server**

NT630/680 จะกำหนด **IP default GW** ไปเป็น **IP** ของ **DNS** อัตโนมัติ

Default GW	192.168.0.4
DNS-1	0.0.0.0
DNS-2	0.0.0.0



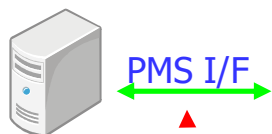
<i>Default GW</i>	<i>192.168.0.4</i>
<i>DNS-1</i>	<i>192.168.0.4</i>
<i>DNS-2</i>	<i>0.0.0.0</i>

4. Fidelio Compatible FOS Support

Fidelio Compatible FOS Support

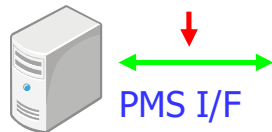
Built-in PMSi is improved in order to increase sales of PBX with **Fidelio compatible FOS** for small hotels.
- Room change is supported.

Opera by former **Fidelio**
(Current Oracle Hospitality)

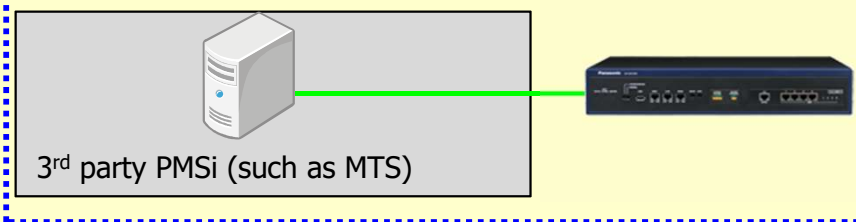


Same I/F

Fidelio compatible application
(by Juru data and so on)

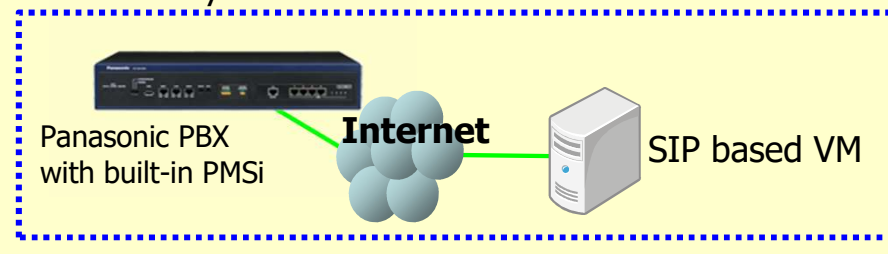


FOS connect to NS through external PMSi



or

FOS directly connect to NS

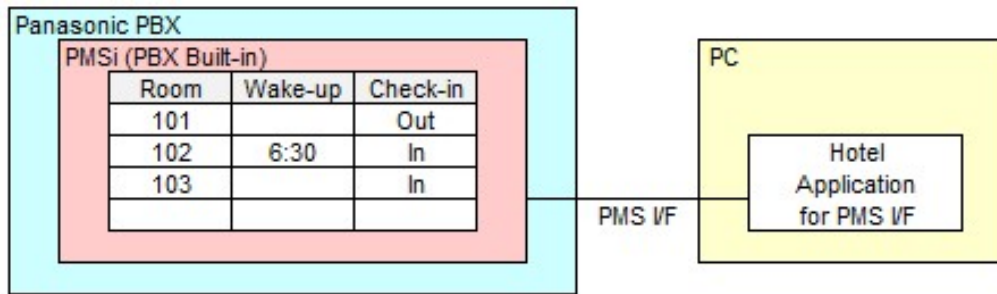
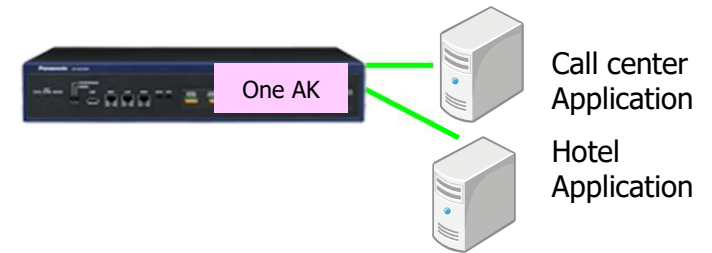


Built-in PMSi (Already supported)

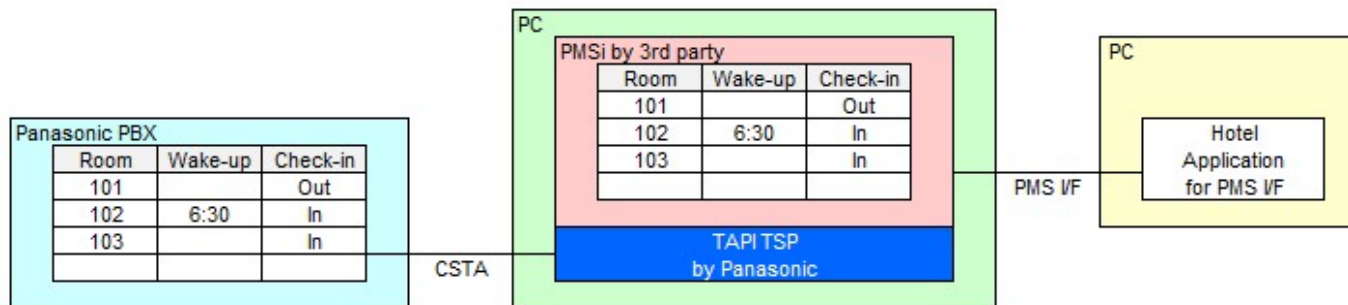
Built-in PMSi is supported. Programming is not required.

AK : KX-NSF101 or KX-NSA020 is required.

One AK รองรับการทำงานแบบ CTI และ built-in PMSi ในเวลาเดียวกัน

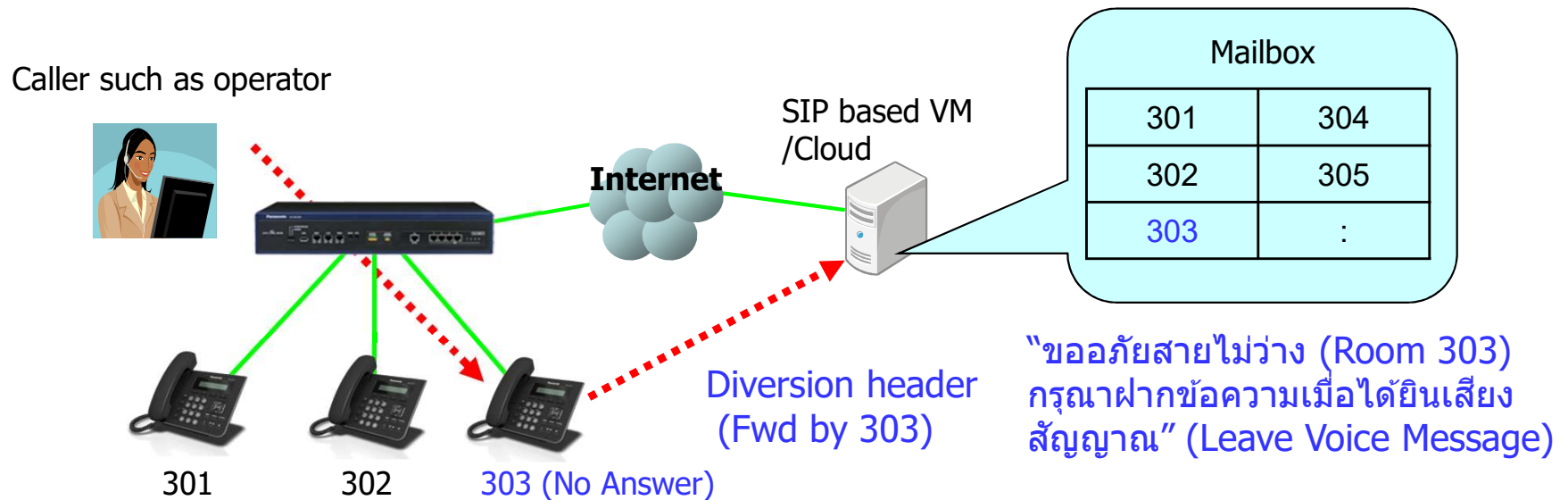


KX-NS older version need 3rd party solution with server.



Other improvement for hotel is as follows.

- COS of extension และ Name of extension สามารถเปลี่ยนแปลงผ่าน PMSi (และ CTI) always regardless of Web-MC connection. Exclusive for PMSi/CTI.
- Diversion header สำหรับ SIP extension เพื่อการทำงานร่วมกับ SIP Voice Mail SIP based Voice Mail นิยมใช้งานบริการของโรงแรม (Hotel) .



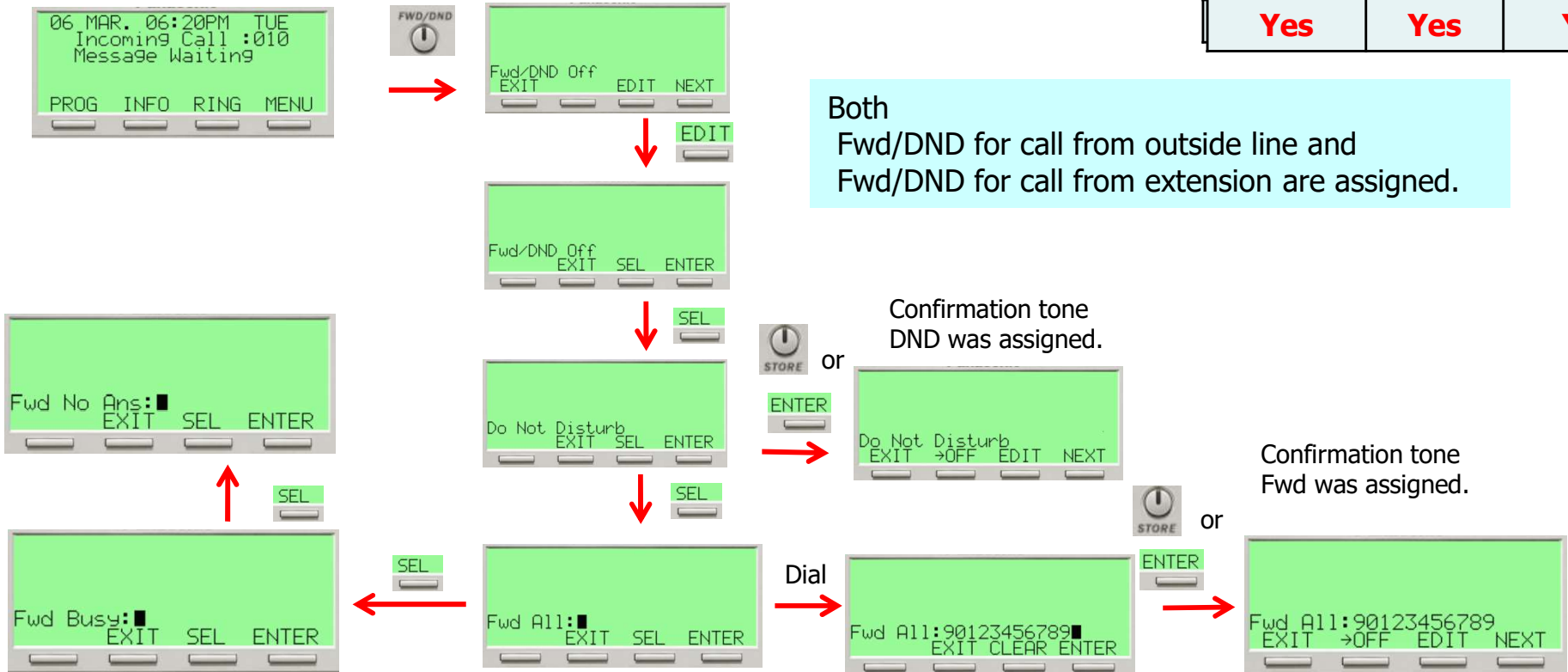
5.FWD/DND Ease to Set

FWD/DND set first time

FWD/DND can be assigned as follows.

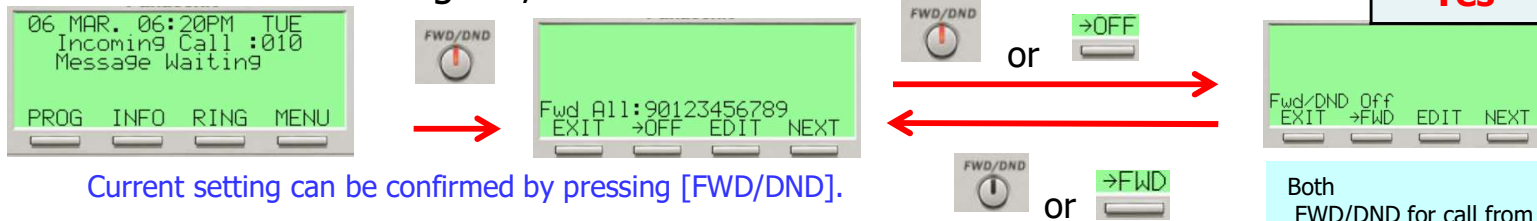
NT630	NT680	Other PT
Yes	Yes	Yes

Both Fwd/DND for call from outside line and Fwd/DND for call from extension are assigned.



NT630	NT680	Other PT
Yes	Yes	Yes

After FWD was assigned, FWD can be switched.

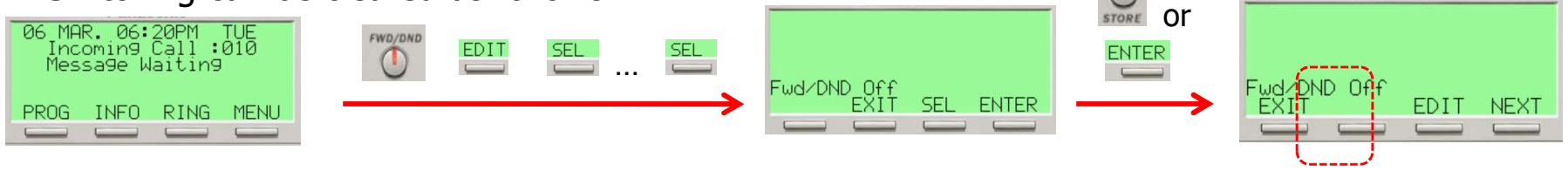


Both FWD/DND for call from outside line and FWD/DND for call from extension are switched.

After DND was assigned, DND can be switched.



Switching can be cleared as follows.



No Answer Time Setting

FWD/DND can be assigned in detail.

NT630	NT680	Other PT
Yes	Yes	Yes

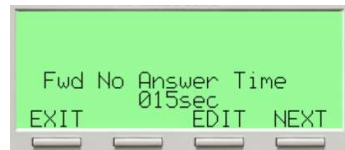
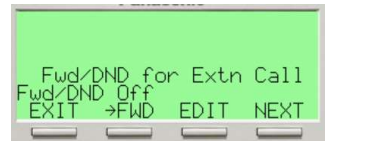
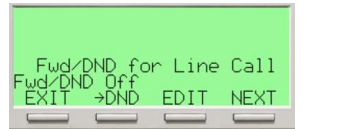
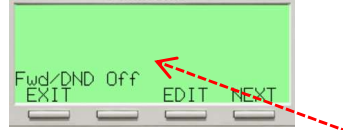
FWD/DND for both calls

Title is not displayed.
 If it is "Fwd/DND for Both calls", most of users can not understand meaning of "Both".
 If it is "Fwd/DND for All calls", it is confused with "Fwd All / Fwd Busy...".
 "Fwd/DND Off" is enough information for most of users.

FWD/DND for call from outside line

FWD/DND for call from extension

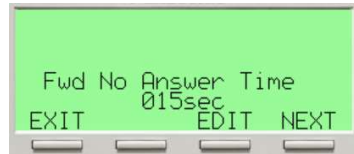
FWD no answer time



FWD/DND Setting mode (Original Operation)

Fwd/DND for "Both calls" is not supported.

NT630	NT680	Other PT
Yes	Yes	Yes



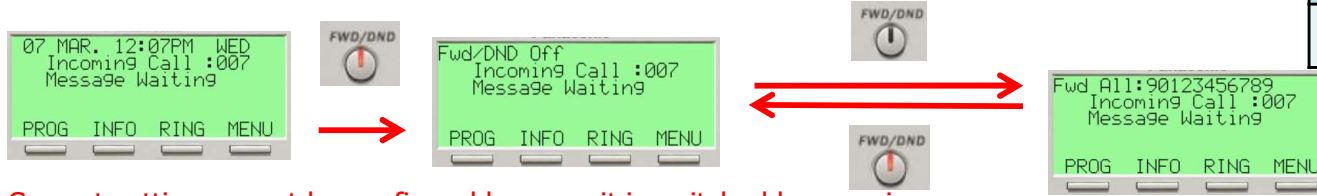
Fwd/DND for call from outside line

Fwd/DND for call from extension

Fwd no answer time

Panasonic FWD/DND Cycle Switch (Original Operation)

After Fwd was assigned, Fwd can be switched.



NT630	NT680	Other PT
Yes	Yes	Yes

Current setting cannot be confirmed because it is switched by pressing [FWD/DND].
"Edit" is not available.

After DND was assigned, DND can be switched.

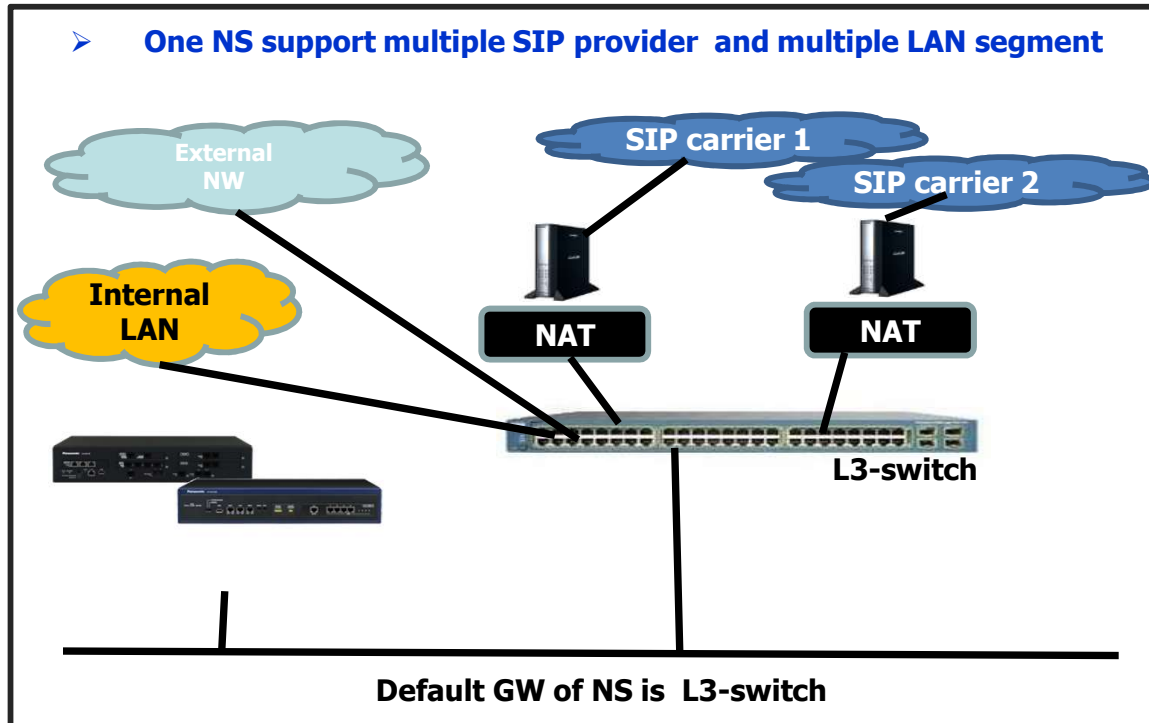


Switching can be cleared as follows.



6.Other

Multiple LAN network support



สามารถกำหนดใช้งานได้สูงสุด 8 Multiple SIP carrier (ผู้ให้บริการ)

UPnP function for SIP trunk (NAT traversal)

[Background]

Because of some reason, edge router for SIP trunk's WAN IP address may change. Since NS need global IP for NAT Traversal of SIP Trunk, if global IP of edge router change, it is required to change NAT traversal setting (IP Addr.) manually.

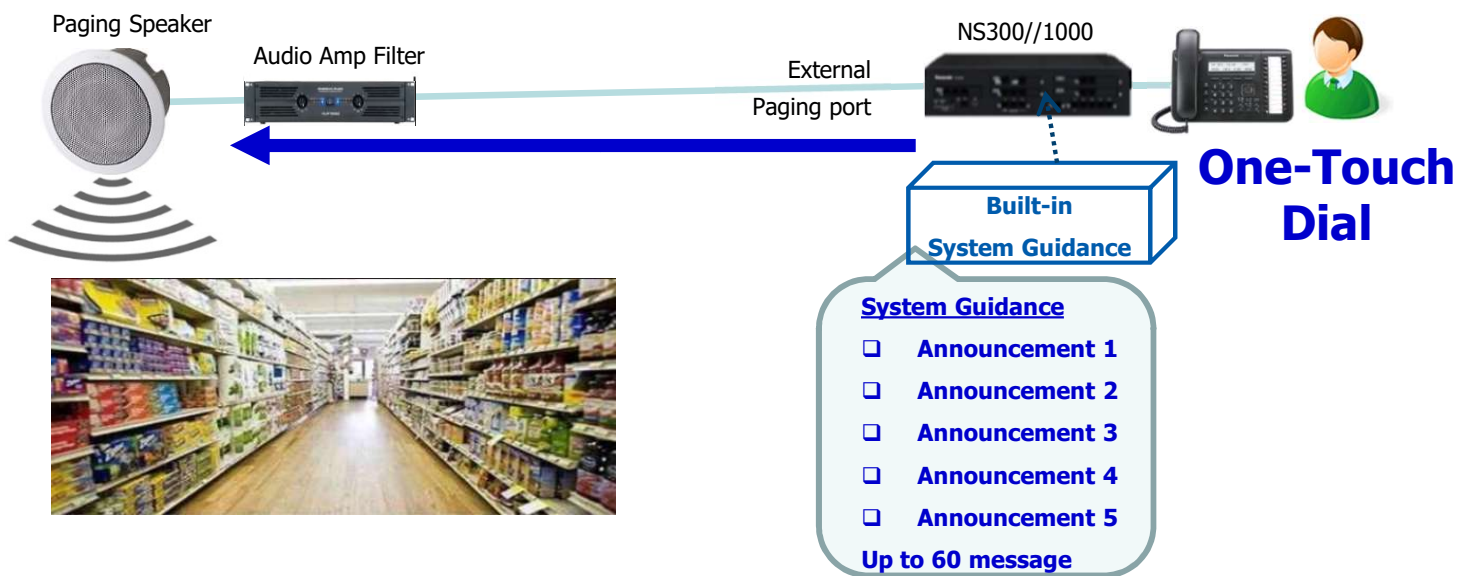
It is very inconvenient for SIP trunk customer, also for dealer.

Therefore we developed UPnP feature for NS to get WAN IP automatically.

IOT with Router is required before deploy this feature at user premises.

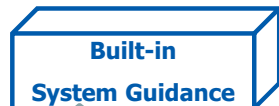
No additional feature AK is required.

การประกาศไปที่ External Paging โดยใช้ข้อความใน Prompt ของ Voice Mail



การทำงานนี้ต้อง **2 Channel** ของ **UM** สำหรับการประกาศไปที่ **1 External Paging**
1 Ch สำหรับเรียกไปที่ **Voice Mail**
1 Ch สำหรับนำเสียงจาก **Voice Mail** ไปที่ **External Paging**

Common announcement message is pre-recorded and prompted through External pager by simple operation .



**1:Up to 60 messages*

System Guidance

- Announcement 1**
- Announcement 2**
- Announcement 3**
- Announcement 4**
- Announcement 5**

Up to 60 message *1

Language Type	Remarks
English/Thai	UM System Prompt #1~#1371, #1432 have been used by default. 60 Prompt (#1372~#1431) สามารถกำหนดใช้งาน Automatic Paging

รูปแบบสำหรับไฟล์ WAV (Wave File)

- G.711 PCM codec
- 8 kHz, 8-bit sampling rate
- Monaural
- A-law or μ -law encoding

◆◆ **With a One-touch Button (One-touch Dialling)**

You can store a phone number into the flexible button for one-touch operation.

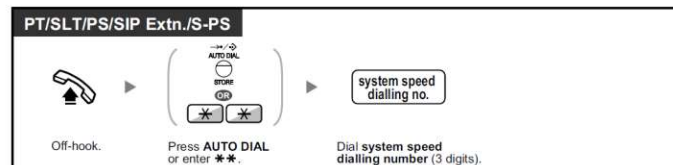


👉 **Customising Your Phone**

- 3.1.3 Customising the Buttons
Create or edit a One-touch Dialling button, store the desired phone number or feature number.

◆◆ **Using Numbers Stored in the PBX (System Speed Dialling)**

You can make calls using speed dialling numbers stored in the PBX.



- To call using a directory, refer to "1.14.2 Using the Directories".
- For SIP phone and S-PS users: Telephones display only system speed dialling numbers.

**-การทำงาน : เรียกไปที่ " UM FDN " + "#4"+ " External Pager FDN " + " # " + "UM System Prompt No."(4 digits number)
รหัสการใช้งานสามารถกำหนดลงไปที่ ปุ่ม One-touch หรือ SSD (System Speed dialling)**

-Announcement for different site can be generated by using FDN at different site,

"UM FDN" site 2 UM FDN = 501

" External Pager FDN " site2 EPG FDN= XXX



Web Maintenance of NS/NSX systems is restricted via password for stronger security, depending on network conditions of WebMC access.

The password for WebMC access in the network conditions described (see next page) must meet ALL of the following criteria:

- contains three different upper case letters from A to Z
- contains three different lower case letters from a to z
- contains two different numbers from 0 to 9
- does not contain sequential characters: "abc" or "1234"

The criteria applies to User, Admin and INSTALLER level login.

Sales Company login: **Sales001 from V7:**

If INSTALLER password is e.g. "ACEG1357bdfh2468" (max. 16 characters) then login as follows:

-From Local network, only enter the first 9 characters of the password (after *Sales#):

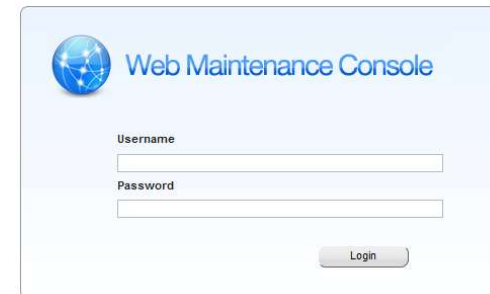
Password : **Sales#ACEG1357b* (total 16 characters)

-From Remote network through router port forwarding, password is same as INSTALLER (no need for *Sales#):

Password : *ACEG1357bdfh2468*

The criteria applies to both http and https type access.

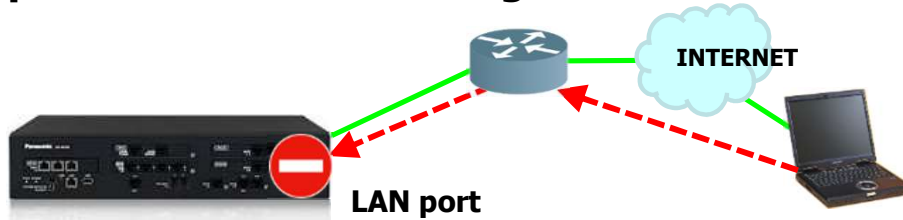
Remote maintenance via KMS is strongly recommended .



The password security criteria are applied under the following network conditions:

WebMC port forward through internet router/firewall

NS300
NS1000
NSX



WebMC local port on public IP

Access in valid private IP subnet is not restricted:

10.0.0.0 - 10.255.255.255 (Class A)

172.16.0.0 - 172.31.255.255 (Class B)

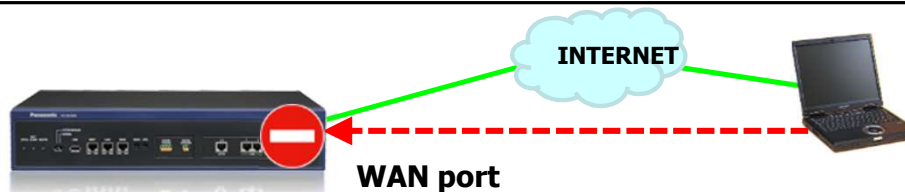
192.168.0.0 - 192.168.255.255 (Class C)

NS300
NS1000
NSX



WebMC port through NS1000 WAN port internet connection

NS1000



Exceptions

การโปรแกรมผ่านพอร์ต MNT (Maintenance) จะไม่ถูกจำกัด (Restricted)

Stronger Security for SIP Devices



SIP-TLS สามารถทำงานได้ ทั้งภายในสำนักงาน (Inside office)และ MRG สำหรับ Remote Extension

Chapter 3

How to program?

Port Property - Virtual SIP Extension

Copy to: Forced De-registration

Main Option **Location / P2P** FAX/T.38

No.	Site	Shelf	Slot	Port	Extension Number (SIP Username)	Password	Connection	Phone Location
		ALL					ALL	ALL
1	1	Virtual	18	1	135	1234	INS	Local only
2	1	Virtual	18	2	136	1234	Fault	Local only
3	1	Virtual	18	3	432	1234	INS	Remote + Local

กำหนด "Remote + Local" เพื่อให้สามารถทำงานได้ทั้ง Private IP และ Global IP address

Phone Location	MGCP-TLS / SRTP	P2P Group
ALL	ALL	ALL
Remote + Local	Disable	-

เมื่อกำหนด "Remote + Local" ต้องเลือกการทำงานผ่าน การ์ด DSP. หรือเป็น P2P Group (Peer to Peer)

Port Property - Virtual IP Extension

Registration De-registration Forced De-registration

Main Option Voice Secondary Setting **Location / P2P** NT Local Settings

No.	Extension Number	Extension Name (20 characters)	IP-PT Type	Shelf	Slot	Port	Connection	Phone Location
				ALL			ALL	ALL
1	103	Mar	-	Virtual	17	1	Fault	Local only
2	104		KX-NT5xx	Virtual	17	2	INS	Local only
3	105		KX-NT3xx	Virtual	17	3	INS	Remote + Local

กำหนด "Remote + Local" เพื่อให้สามารถทำงานได้ทั้ง Private IP และ Global IP address

Phone Location	MGCP-TLS / SRTP	P2P Group
ALL	ALL	ALL
Remote + Local	Disable	-

เมื่อกำหนด "Remote + Local" ต้องเลือกการทำงานผ่าน การ์ด DSP. หรือเป็น P2P Group (Peer to Peer)

Phone Location	MGCP-TLS / SRTP
ALL	ALL
Remote + Local	Disable
Local only	Disable
Local only	Enable (Remote only)

MGCP-TLS/SRTP can be set

"Enable(Remote only)" means both MGCP-TLS and SRTP is enabled.

Port Property - Virtual IP Extension

Registration De-registration Forced De-registration

Main Option Voice Secondary Setting Location / P2P **NT Local Settings**

Primary PBX IP Address	Secondary PBX IP Address	PBX Change Time	Primary PBX PTAP Server Port	Secondary PBX PTAP Server Port	PTAP Client Port	DHCP Server Port	DHCP Client Port
		ALL					

FTP Server Control Port	FTP Client Control Port	FTP Client Data Port	VLAN	VLAN - LAN Port VLAN ID	VLAN - LAN Port VLAN Priority	VLAN - PC Port VLAN ID	VLAN - PC Port VLAN Priority
			ALL		ALL		ALL

LLDP	LLDP - PC Port VLAN ID	LLDP - PC Port VLAN Priority	LLDP Interval Time	Diffserv	Diffserv - LAN Port DS Field	Network Speed & Duplex - LAN Port	Network Speed & Duplex - PC Port
ALL		ALL	ALL	ALL	ALL	ALL	ALL

“NT Local Setting” tab add for NT630/680 Local setup at PBX side.

ภายหลังจากกำหนดค่าเสร็จจะต้องทำการ reboot NT phones

สามารถทำได้ 2 วิธี

- 1) ทำการ OUS/INS ใน port ที่ต้องการ**
- 2) Timed Reboot (All NT phones reboot at once.)**

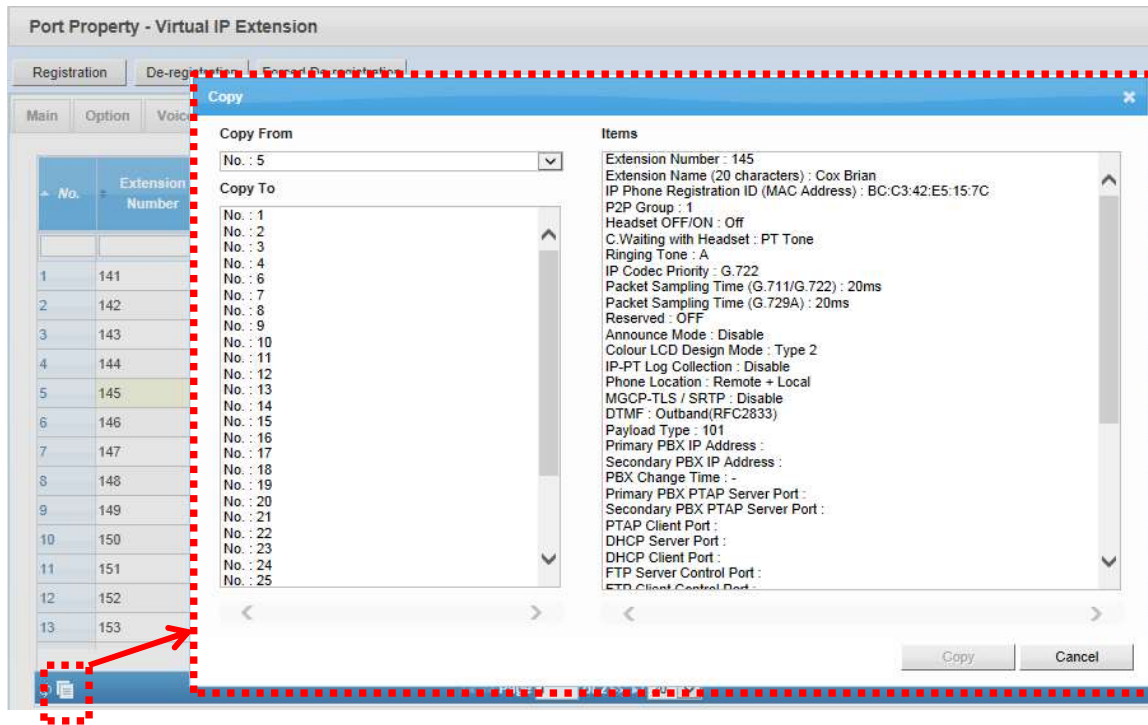
Port Property - Virtual IP Extension

Registration De-registration Forced De-registration

Main Option Voice Secondary Setting Location / P2P **NT Local Settings**

No.	Extension Number	Extension Name (20 characters)	IP-PT Type	Shelf	Slot	Port	Connection	Primary PBX IP Address	Secondary PBX IP Address
				ALL			ALL		

PBX IP address can be describe by actual IP address or FQDN(for NT6 only)



Parameter can be copied from one to other

Timed reboot (All NT phones reboot at once.)

System Reset

System Reset Timed Reset Optional Reset

Select Site : All Sites

Reset Mode : None

Reset Time : None

One Time

One Time (KX-NT only)

Daily

There is 2 way to validate these settings:

- 1) Make OUS/INS at each port
- 2) Timed reboot (All NT phones reboot at once.)

In both case if the EXT has no setting change they won't fully reboot. Instead they will reboot application level.

In case of using NS1000's Built-in Router**MyDNS.JP (私的DNS)****<http://www.mydns.jp/?MENU=000>****Japanese only, Free / HTTP(Basic) compatible <-NS1000's DDNS only support this protocol.****DDNS Server: <http://www.mydns.jp/login.html>****User Name(Master ID), Password <=Please register at the site and get ID and pass****Host Name <=Please register at the site and get ID and pass*****Account will be canceled in case no use more than 1 month.**

Site Property - Main

Main VoIP-DSP Options VoIP-DSP Options 2 **Port Number** LAN Status Media Relay SIP Extension Echo Cancellation

Voice (RTP) UDP Port No. (Server)	: 12000
Voice (RTP) UDP Port No. (IP-PT / SIP-MLT)	: 8000
UDP Port No. for SIP Extension Server	: 5060
TLS Port No. for SIP Extension Server	: 5061
Signalling (PTAP) UDP Port No. (Server)	: 9300
Signalling (MGCP) UDP Port No. (Server)	: 2727
Signalling (MGCP) TLS Port No. (Server)	: 2728

MGCP-TLS port setting is added.

Site Property - Main

Main VoIP-DSP Options VoIP-DSP Options 2 Port Number LAN Status **Media Relay** SIP Extension Echo Cancellation

Common

NAT - External IP Address / FQDN	: 0.0.0.0
DNS Interval Time (min)	: 10

IP Extension / IP-CS

NAT - MGCP Server Port No.	: 2727
NAT - MGCP-TLS Server Port No.	: 0

MRG

Site Property - Main

« Main VoIP-DSP Options VoIP-DSP Options 2 Port Number LAN Status **Media Relay**

Common

NAT - External IP Address / FQDN

“Media Relay” – “NAT-External IP Address/FQDN ”
สามารถเลือกใส่ IP address หรือ FQDN

Cancel SIP Settings OK

Enable when using mobile Network

SIP Server Address (Remote) marmar.dyndns...

SIP Server Port (Remote) 37060

SIP Server Address (Local) 192.168.0.101

SIP Server Port (Local) 5060

Service Domain 192.168.0.101

ในกรณีเลือกใช้งานแบบ "FQDN" จะต้องใส่หมายเลข Local IP address ที่ตำแหน่ง "Service Domain" บน Panasonic Mobile Softphone

Color LCD Design Mode: LCD Back color can be changed Black(Type 1)/White(Type 2)

Port Property - Virtual IP Extension

Registration De-registration Forced De-registration

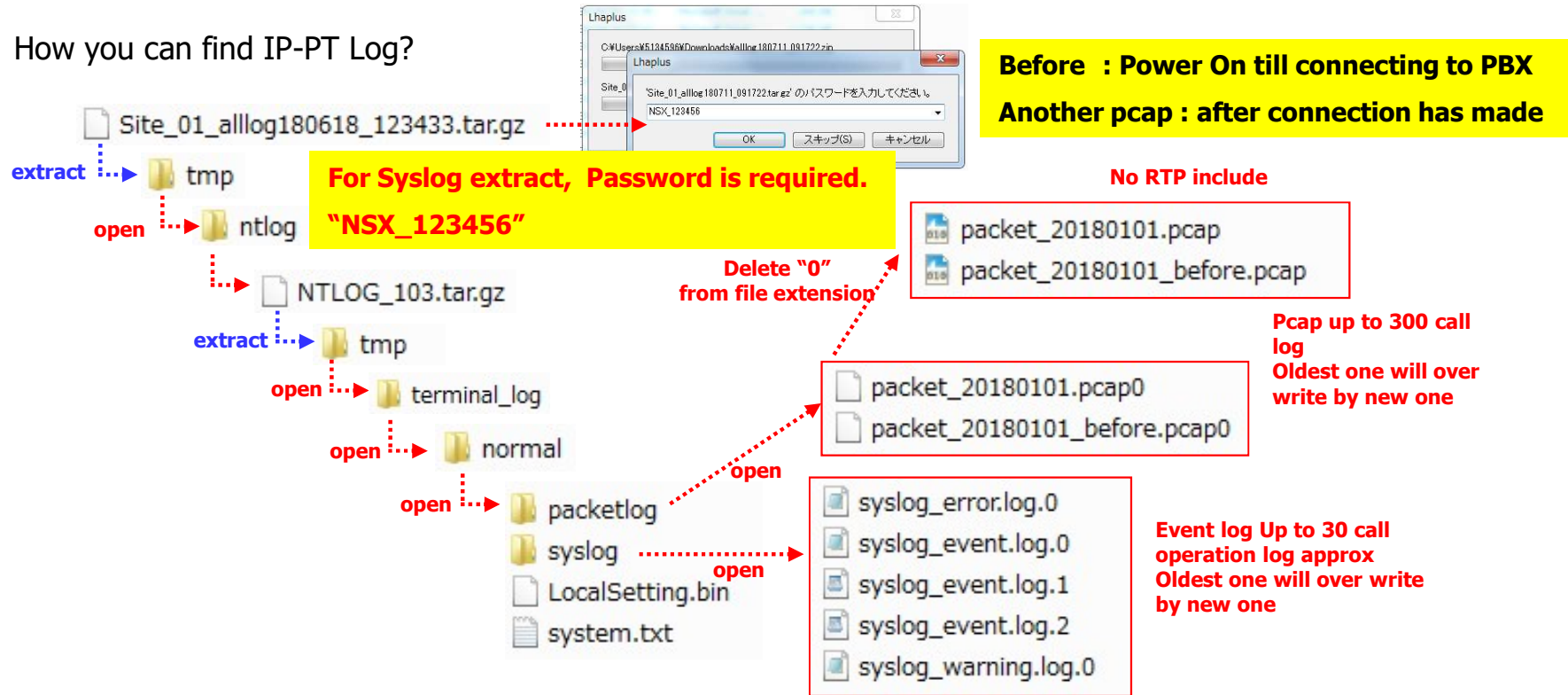
Main Option Voice Secondary Setting Location / P2P NT Local Settings

Log with Headset	Ringing Tone	IP Codec Priority	Packet Sampling Time (G.711/G.722)	Packet Sampling Time (G.729A)	Reserved	Announce Mode	Colour LCD Design Mode	IP-PT Log Collection
	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	A	G.722	20ms	20ms	OFF	Disable	Type 1	Disable
	A	G.722	20ms	20ms	OFF	Disable	Type 1	Disable
	A	G.722	20ms	20ms	OFF	Disable	Type 2	Enable
	A	G.722	20ms	20ms	OFF	Disable	Type 1	Disable

IP-PT Log Collection: Enable means Syslog will include log from this EXT

- It is necessary to reboot (by OUS/INS or Timed Reboot) these settings to validate at NT6 phone.**
- IP-PT Log Collection setting can be set all EXT however log can be collected from 10 EXT as Max. 10EXT from smallest port number EXT.**
- Basically it needs to set Enable for specific EXT that has an issue.**

How you can find IP-PT Log?



How you can find IP-PT Log?

- syslog_error.log.0
- syslog_event.log.0
- syslog_event.log.1
- syslog_event.log.2
- syslog_warning.log.0

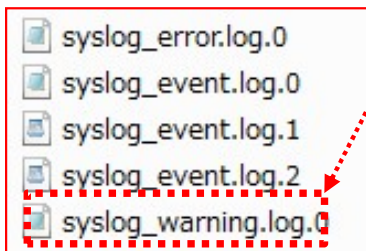
You can find cause of reset in this file.

syslog_warning.log.1(352): Sep 27 12:22:37 (none) user.warn mgcphone: AP:
fa_ap_check_resetcause(5022)code = [32]

1	Power On
9	Local setting parameter down load from PBX
10	Finish local set up
11	DHCP lease time extend by IP address change
20	RESTART command from PBX
21/22	Complete Software download from PBX
24	NSX change by Act-Stby exchange
25	Complete update software
26	Complete image file download
27	Error at image file download

*These are a part of messages that describe cause of NT local reset..

How you can find IP-PT Log?

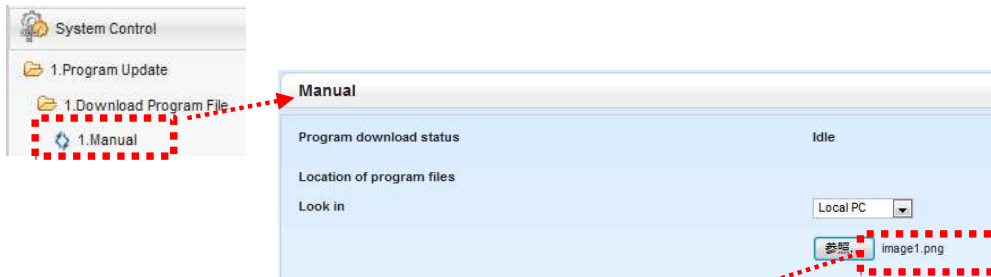


You can find cause of reset in this file.

syslog_warning.log.1(352): Sep 27 12:22:37 (none) user.warn mgcphone: AP:
fa_ap_check_resetcause(5022)code = [32]

31	Working data Corrupt
32	Keep Alive Time Out
35	DHCP lease time fulfil
36	Fail to extend DHCP lease time
45	Error notify from PBX
51	MGCPTLS connection error

*These are a part of messages that describe cause of NT local reset..



**File format can be jpg, bmp, png, gif
Max file size:1Mb**

Available Program File (s)

Program	Port Type	File name	File size	Timestamp	Version	Revision
NS1000	NS1000	PCMPR	82594483 B	Jun-28-2018 13:47:54	007.000	530
PNT560	IP-EXT	PNT560	1710972 B	Nov-27-2013 01:26:02	001	021
PNTPICT	IP-EXT	PNTPICT	495911 B	Jun-28-2018 14:36:28	000	000

หลังจาก upload ไปที่ NS300/1000 จะปรากฏไฟล์ชื่อ "PNTPICT"

ไฟล์ภาพสามารถ Upload ได้ทีละครั้งและจะทับไฟล์ภาพเก่า

ในกรณีที่ NT680 ต้องการถ่ายภาพต่างกันจะต้องทำการ Upload/download ที่ละภาพ.

ไฟล์ชื่อ PICT file แนะนำให้ลบทิ้งหลังจากใช้งานเสร็จเพราะไฟล์ใหม่จะทับไฟล์เก่า

System Options

Option 8

Option 9

Conference Group

Maximum Number of Speakers During a Conference Group Call

8 Party

32 Party

Display extension name on key (KX-NT)

Enable

Disable

Use Message key as VM key

Enable

Disable

LCD zoom display

Enable

Disable

For all type of KX-NT phone

For KX-NT680BX

System Options

Display extension name on key (KX-NT)

Enable Disable

Flexible Button

Extension Number/ Name: 101 / Number

Available Keys:-

Key Location	Type	Parameter Selection	Extension Number	Extension Name
	All			
1	Single CO	1 :		
2	DSS		103	Mar
3	Single CO	2 :		

Extension Settings

« **Main** Intercept Destination Intercept No An

No.	Extension Number	Extension Name (20 characters)
1	101	
2	102	
3	137	
4	167	
5	103	Mar

“Extension Name” ที่กำหนดใน Extension Settings จะปรากฏชื่อ
“Extension Name” ที่ DSS อัตโนมัติ

System Options

Display extension name on key (KX-NT)

Enable Disable

Key Location	Type	Parameter Selection	Extension Number	Extension Name	Dial (Max. 32 digits)	Label Name (Max. 12 characters)
	All					
1	DSS		102	Andre		

In this mode Label Name can't be changed at each EXT level.

System Options

Use Message key as VM key

 Enable Disable

ปุ่ม "MESSAGE" ของเครื่อง NT สามารถทำงานแบบ ปุ่ม VTR(Voice mail Transfer)

By default it is "Enable"

กรณี "Enable" จะไม่สามารถใช้งาน Message Waiting ได้

System Options

LCD zoom display

Enable

Disable

Pre-Dialed/Incoming call information is presented by 4line x 16digits instead 6line x 24digits



The screenshot displays the configuration interface for a Panasonic device. The main window is titled "Card Property - Virtual IP Extension" and shows various settings. A red dashed box highlights the "LCD Off Timer" section, which includes the following settings:

- LCD Off Timer: 30 s
- Brightness when colour LCD is turned off: Level 4
- Automatic switching of page for keys: Disable
- Picture display: Enable

A red dotted arrow points from the "Picture display" setting in the main window to a larger, detailed view of these settings on the right side of the image. This detailed view shows the same four settings with their respective dropdown menus.

Below the highlighted section, the "NT500 Series" settings are visible, including:

- Echo Canceller Ability: 64 ms
- DSP Digital Gain (Down): 0 dB
- DSP Digital Gain (Up): 3 dB
- EC Gain: -3 dB
- NLP Setting: Weak



สามารถกำหนดเวลาปิดหน้าจอ Color LCD เมื่อไม่มีการใช้งาน

LCD Off Timer : 30 s

- 15 s
- 30 s
- 1 min
- 5 min
- 10 min
- 30 min
- 60 min



การตั้งค่าความสว่างของหน้า Color LCD เพื่อความสบายตาในการทำงาน

Brightness when colour LCD is turned off : Level 4

- Off
- Level 1
- Level 2
- Level 3
- Level 4



Enable : ไปที่หน้าจอที่มีการรับสายนอกและอยู่ที่หน้าจอเดิมหลังสิ้นสุดการสนทนา

Disable : อยู่ที่หน้าจอเดิมเมื่อรับสายนอก

Automatic switching of page for keys : Disable





กำหนดแสดงรูปภาพ

Picture display : Enable

- Disable
- Enable

Setup-PBX Configuration-4.Extension-1.Wired Extension-1.Extension setting

No.	Extension Number	Extension Name (20 characters)	PDN Delayed Ringing	Built-in Communication Assistant	Mobile Extension	Guest Room
1	101		Immediate	Enable	Disable	No
2	102		Immediate	Enable	Disable	No
3	137		Immediate	Enable	Disable	No
4	167		Immediate	Enable	Disable	No
5	103	Mar	Immediate	Enable	Disable	Yes
6	104	Hannah	Immediate	Enable	Disable	No
7	105		Immediate	Enable	Disable	Yes

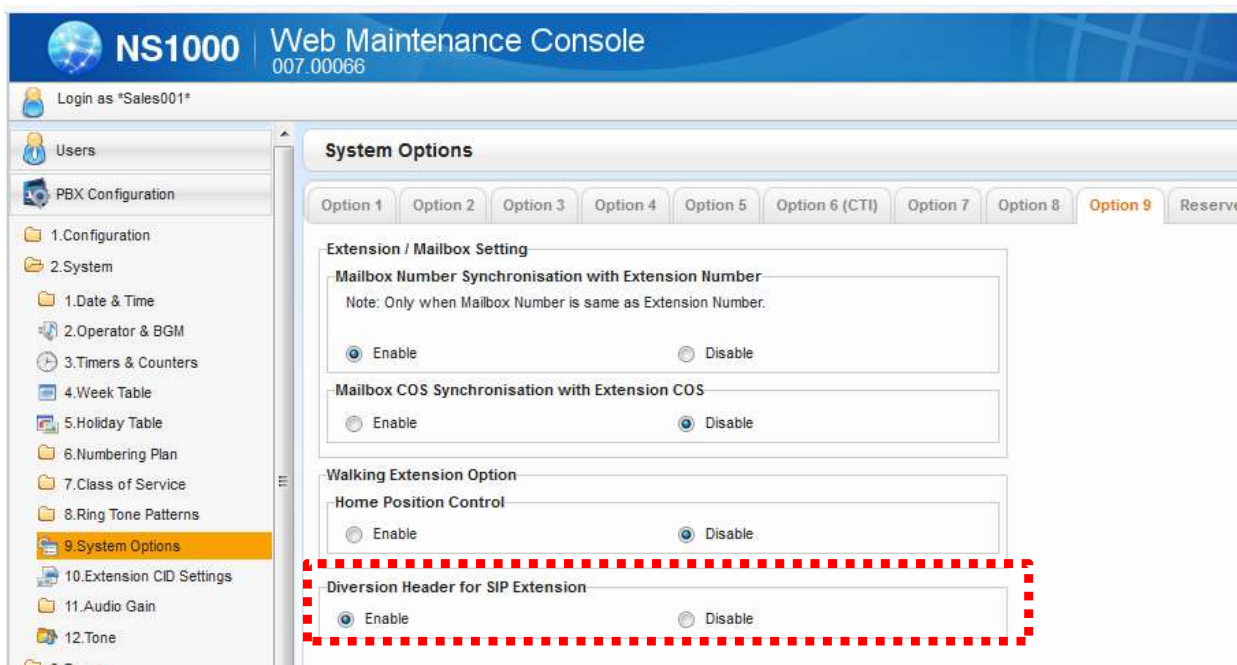
Once "Guest Room" set as "Yes" then EXT setting such as EXT number, name etc will be non active to change at PBX.

Number and Name at other location such as Port Property at Setup-PBX Configuration-1.Configuration-1.Slot-V-IPEXT
 Setup-PBX Configuration-1.Configuration-1.Slot-V-SIPEXT32 as well.

No.	Extension Number	Extension Name (20 characters)
1	103	Mar
2	104	Hannah
3	105	
4	106	

Setup-PBX Configuration-2.System-9.System Options Diversion header support for SIP based external UM

This setting can be presented only with Sales company mode login.



System options decides specification for Fwd/DND.

NT630	NT680	Other PT
Yes	Yes	Yes

- 7. Class of Service
- 8. Ring Tone Patterns
- 9. System Options
- 10. Extension CID Settings
- 11. Audio Gain
- 3. Group
- 4. Extension
- 5. Optional Device

PT Fwd / DND

Fwd LED
 On (Solid) Flash

DND LED
 On (Solid) Flash

Fwd/DND key mode when Idle
 FWD/DND Setting Mode FWD/DND Cycle Switch

1D_0

« Reserved (bits)

Enable

Disable

Fwd/DND key mode	Reserved Bit	Specifications
Setting Mode	-	Same specification as KX-NS V6 : See slide 34
Cycle Switch (Default)	Disable (Default)	New specification : See slide 31 to 33.
	Enable	Same specification as KX-NS V6 : See slide 35.

When PBX is updated to from old version to version 7, FWD/DND key mode is kept. You need to change setting if you need new setting as above.

System options decides specification for Fwd/DND.

NT630	NT680	Other PT
Yes	Yes	Yes

PT Fwd / DND

Fwd LED
 On (Solid) Flash

DND LED
 On (Solid) Flash

Fwd/DND key mode when Idle
 FWD/DND Setting Mode FWD/DND Cycle Switch

When PBX is updated to from old version to version 7, original FWD/DND key mode is kept. You need to change setting if you need new operation.

Edit User

User Information Contact Unified Message **Telephony Feature** Login Account

Class of Service (COS) : 1: [v]

Forward / Do Not Disturb

For external calls : Off [v]
 : Phone (home) [v]
 : [v]

For internal calls : Off [v]
 : Phone (home) [v]
 : [v]

For both internal calls and external calls

Panasonic Multiple LAN Network for SIP Trunk

Multiple LAN network support

NAT Traversal tables can be set at "PBX Configuration"

-1.Configuration -1.Slot -Shelf Property-Virtual SIP Gateway

NS1000 Web Maintenance Console
007.00068
Site 1 : NS1000

Shelf Property - Virtual SIP Gateway

Main Timer NAT Traversal 1 NAT Traversal 2 NAT Traversal 3 NAT Traversal 4 NAT Traversal 5 NAT Traversal 6 NAT Traversal 7 NAT Traversal 8

8 tables for NS same like NSX

Port Property - Virtual SIP Gateway

Select Provider Add Provider Trunk Adaptor

Main Account Register NAT Option Calling Party Called Party Voice/FAX RT

No.	Shelf	Slot	Port	Connection	NAT Traversal Table
	ALL			ALL	ALL
1	Virtual	1	1	INS	1:
2	Virtual	1	2	INS	1:
3	Virtual	1	3	INS	1:

These table can be set for each port.

UPnP can be chosen as NAT Traversal method

The screenshot shows the 'Web Maintenance Console' for an NS1000 device. The page title is 'Shelf Property - Virtual SIP Gateway'. The left sidebar shows a navigation tree with '1. Slot' selected. The main content area has tabs for 'Main', 'Timer', 'NAT Traversal 1', 'NAT Traversal 2', 'NAT Traversal 3', 'NAT Traversal 4', 'NAT Traversal 5', and 'NAT Traversal 6'. The 'NAT Traversal 1' tab is active, displaying the following configuration fields:

Name	:	<input type="text"/>
NAT Traversal	:	Off
NAT - Voice (RTP) UDP Port No.	:	<input type="text"/>
NAT - Keep Alive Packet Sending Ability	:	Fixed IP Addr.
NAT - Keep Alive Packet Type	:	STUN
NAT - Keep Alive Packet Sending Interval (s)	:	20
NAT - Fixed Global IP Address	:	0.0.0.0
STUN Ability	:	Disable
STUN Client Port Number	:	33478
STUN External Address Detection Retry Counter	:	1

The 'NAT Traversal' dropdown menu is open, showing the following options: 'Off', 'Fixed IP Addr.', 'STUN', and 'UPnP®'. 'UPnP®' is highlighted in blue.

Panasonic Automatic Paging System

“ UM FDN ” can be checked at below

Unit No.	Floating Extension No.	Group Name (characters)
1	500	Voicemail 1
2	501	Voicemail 2
3	502	Voicemail 3
4	503	Voicemail 4
5	504	Voicemail 5
6	505	Voicemail 6
7	506	Voicemail 7
8	507	Voicemail 8
9	508	Voicemail 9
10		Voicemail 10

“UM System Prompt No.” can be checked and recorded at below

Prompt No.	Turn On/Off	Prompt Text
Prompt No. 1421	On	-
Prompt No. 1422	On	-
Prompt No. 1423	On	-
Prompt No. 1424	On	-
Prompt No. 1425	On	-
Prompt No. 1426	On	-
Prompt No. 1427	On	-
Prompt No. 1428	On	-
Prompt No. 1429	On	-
Prompt No. 1430	On	-
Prompt No. 1431	On	-
Prompt No. 1432	On	You are 1st in the queue.

“ External Pager FDN ” can be checked at below

Site #	Port	Floating Extension Number	Name (20 characters)
01	1	00	
01	2		
01	3		
01	4		
01	5		

External Pager’s Physical connection location can be checked at this page. Site and Port clearly indicate

Panasonic UM Holiday table

-UM Holiday table

Sys Reserved Bit can change UM holiday table effective setting.

The screenshot shows the 'Holiday Table' configuration page in a Panasonic PBX system. The left sidebar lists navigation options: Users, Supervisors, Maintenance Personnel, and PBX Configuration. Under PBX Configuration, there are folders for 1. Configuration, 2. System, and 6. Numbering Plan. The '5. Holiday Table' folder is selected and highlighted. The main content area is titled 'Holiday Table' and includes a 'PBX Holiday Mode' section with radio buttons for Day, Lunch, Break, and Night (which is selected). Below this is a tabbed interface with 'Holiday Table' and 'UM Parameter' tabs. The 'UM Parameter' tab is active and displays a table with the following data:

No	Setting	Name of Holiday	Service	Interview Mailbox/Custom Service Menu	Trunk Affected	Port A
	ALL		ALL			
1	Disable		Automated Attendant Service		Edit	E
2	Disable		Automated Attendant Service		Edit	E
3	Disable		Automated Attendant Service		Edit	E
4	Disable		Automated Attendant Service		Edit	E
5	Disable		Automated Attendant Service		Edit	E

This **feature** need Sales Company access and enable Sys Op bit No. *1E_5*.

-UM Holiday table

- UM Configuration
- 1. Mailbox Settings
- 2. Class of Service
- 3. UM Extension / Trunk Service
- 1. Service Group**
- 2. Port Assignment

This feature need Sales Company access and enable Sys Op bit No. 1E_5.

Trunk Affected

→ **Service Group (Reserved bit No.1E_5 = mode1)/ Default**

Trunk Affected

→ **Trunk Group (Reserved bit No.1E_5 = mode2)**

Trunk Affected							
<input checked="" type="checkbox"/> : Trunk No.1	<input checked="" type="checkbox"/> : Trunk No.17	<input checked="" type="checkbox"/> : Trunk No.33	<input checked="" type="checkbox"/> : Trunk No.49	<input checked="" type="checkbox"/> : Trunk No.65	<input checked="" type="checkbox"/> : Trunk No.81	<input checked="" type="checkbox"/> : Trunk No.97	<input checked="" type="checkbox"/> : Trunk No.113
<input checked="" type="checkbox"/> : Trunk No.2	<input checked="" type="checkbox"/> : Trunk No.18	<input checked="" type="checkbox"/> : Trunk No.34	<input checked="" type="checkbox"/> : Trunk No.50	<input checked="" type="checkbox"/> : Trunk No.66	<input checked="" type="checkbox"/> : Trunk No.82	<input checked="" type="checkbox"/> : Trunk No.98	<input checked="" type="checkbox"/> : Trunk No.114
<input checked="" type="checkbox"/> : Trunk No.15	<input checked="" type="checkbox"/> : Trunk No.31	<input checked="" type="checkbox"/> : Trunk No.47	<input checked="" type="checkbox"/> : Trunk No.63	<input checked="" type="checkbox"/> : Trunk No.79	<input checked="" type="checkbox"/> : Trunk No.95	<input checked="" type="checkbox"/> : Trunk No.111	<input checked="" type="checkbox"/> : Trunk No.127
<input checked="" type="checkbox"/> : Trunk No.16	<input checked="" type="checkbox"/> : Trunk No.32	<input checked="" type="checkbox"/> : Trunk No.48	<input checked="" type="checkbox"/> : Trunk No.64	<input checked="" type="checkbox"/> : Trunk No.80	<input checked="" type="checkbox"/> : Trunk No.96	<input checked="" type="checkbox"/> : Trunk No.112	<input checked="" type="checkbox"/> : Trunk No.128

Mode 1 : Trunk No.128→No.128- No. 384

Mode 2 : Trunk No.128→No.128

ขอบคุณครับ

Appendix

<KX-NT630>



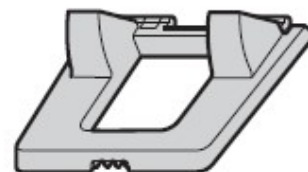
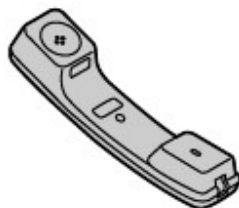
<KX-NT680>



Panasonic Accessory

Included:

Handset, handset cord and stand are included.(Same as KX-HDV330.)



Optional:

Model	Specification	KX-NT630	KX-NT680
KX-A424	AC Adaptor	Yes	Yes
KX-A435	Wall mount kit	Yes	Yes

AC adaptor is not required when terminal is connected to PoE switch.

Item	KX-NT630	KX-NT680
Dimensions(W × H × D)	205 × 189 × 185 mm (45° angle)	220 × 189 × 185 mm (45° angle)
	205 × 156 × 187 mm (30° angle)	220 × 156 × 187 mm (30° angle)
	(include handset)	(include handset)
Weight	900 g	930 g
Operating Temperature	0 °C to 40°C	0 °C to 40°C

PoE Class : Class 3

2 LAN Port, Speed : 10Base-T/100Base-TX/1000Base-T

Panasonic Compatible PBX

PBX	KX-NT630/680	Remark
KX-NCP	N/A	KX-NT5xx are continued.
KX-TDE	N/A	
KX-NS300	Version 7.0 or later	
KX-NS1000	Version 7.0 or later	
KX-NSX1000-2000	Version 4.0 or later	



Panasonic Phone Specifications

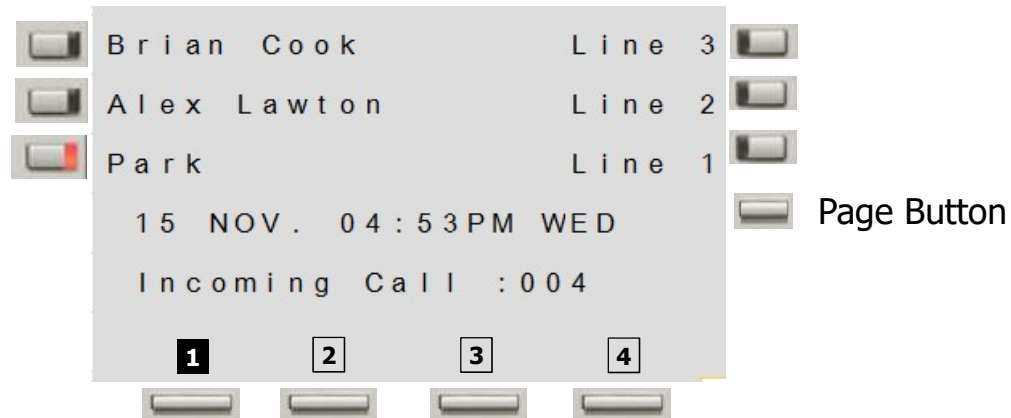
Item	KX-NT551	KX-NT630	KX-NT680	KX-NT560
LCD for call status	1-line	3-line	Color 480 x 272 pixel 95.04 x 53.86mm	6-line
LCD for Flexible Key	No	3-line		4-line
Key label	Paper	LCD	LCD	LCD
Flexible key	8	6 x 4 pages	12 x 4 pages	8 x 4 pages
Optional add-on key *1	No	No	No	No
Headset port	Yes	Yes φ2.5 (CTIA Compliant)	Yes φ2.5 (CTIA Compliant)	Yes
EHS	No	No	Yes	Yes
Bluetooth	No	No	Yes	Yes
SRTP *2	No	Yes	Yes	No

*1 KX-NT553 and KX-NT556 supports optional add-on key.

*2 SRTP = Secure Real-time Transport Protocol

KX-NT630 and NT680 ไม่รองรับ Eco Mode.

LCD for KX-NT630 is 6-line x 24-character.
3-line for Flexible key label
2-line for call status
1-line for Soft key



Specification of Bluetooth is as follows.

Bluetooth 2.1 (Class1)

HFP 1.6 (Wideband)

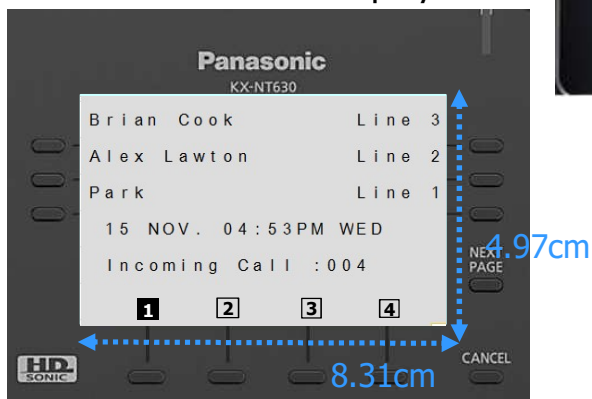
*Supports Bluetooth in order to use a Bluetooth Headset.

KX-NT6xx Display

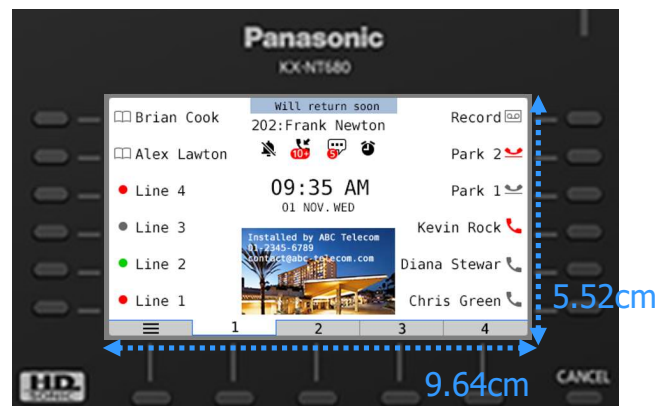
KX-NT560 Display



KX-NT630 Display



KX-NT680 Display

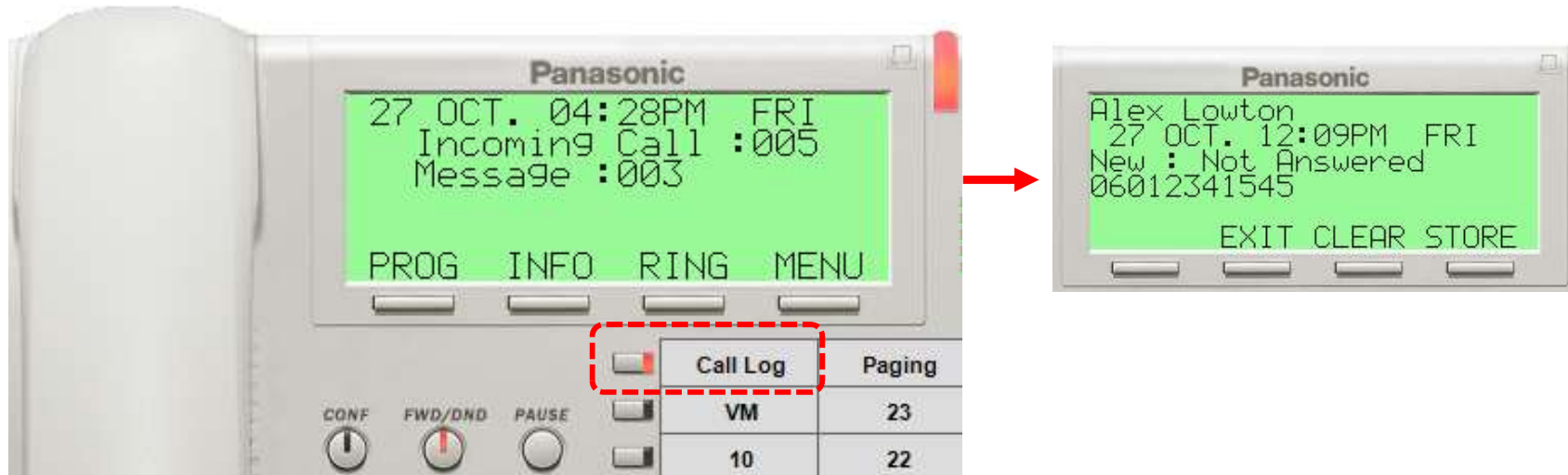


Display of Operation Contents is same with 3-Line LCD type PT.

Current Incoming Call Log

One touch access is available by "Call log" button.

But programming is required for flexible key.



IP softphone is used for explanation.

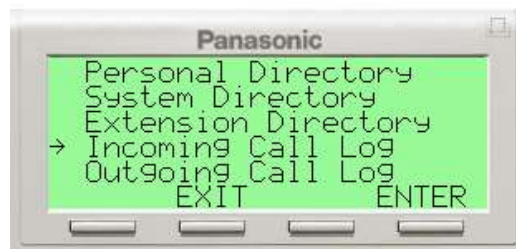
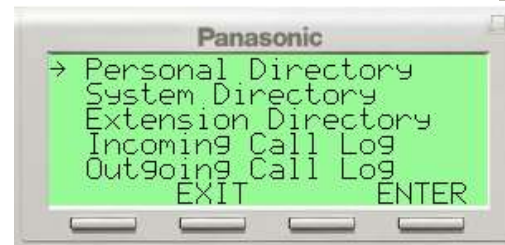
Operation is common for IP softphone, KX-NT3xx and KX-NT5xx.

Current -without programming- (1)

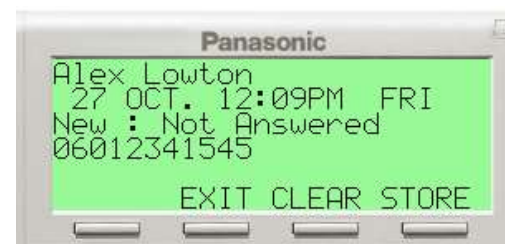
Many operations are required without programming "Call log" button.



MENU
→
Down x 3



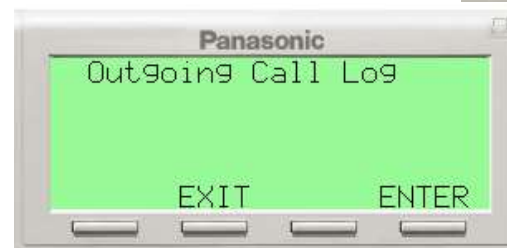
Enter
→



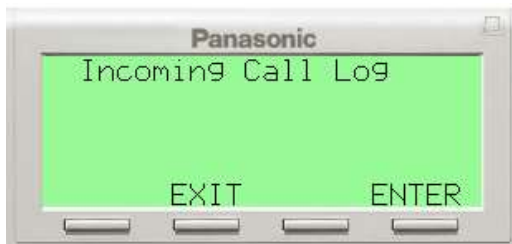
Many operations are required without programming
"Call log" button.



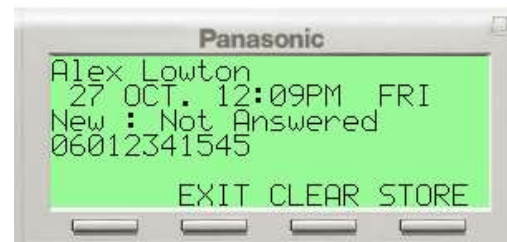
Left →



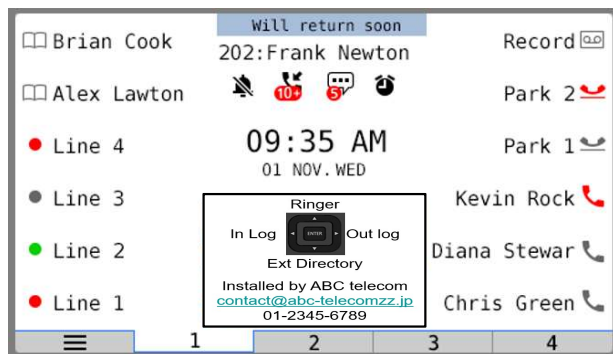
Left ↙



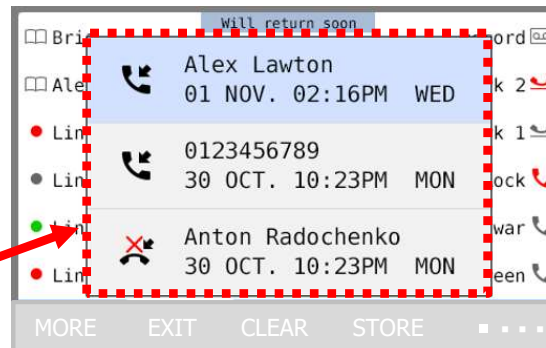
Enter →



One touch [Left] to incoming call log



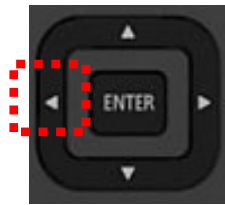
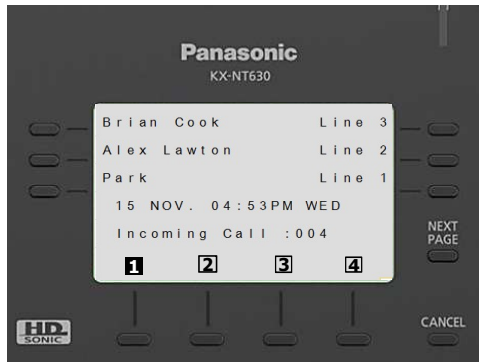
[Left]



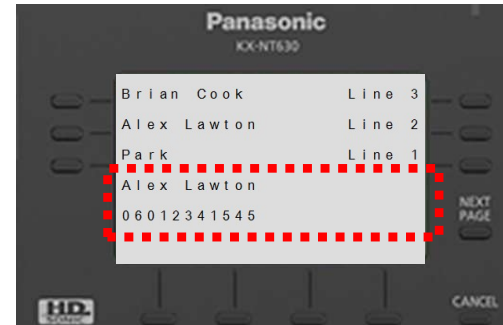
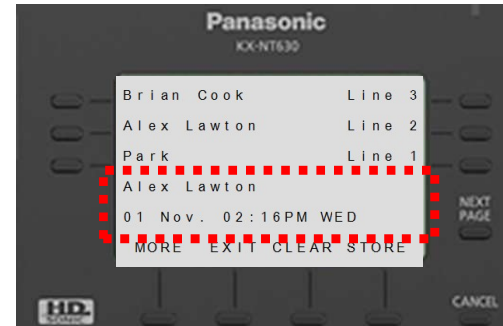
Operation	Result (Same as current PT)
Off hook	Call "Alex Lawton".
MORE	Display phone number of "Alex Lawton".
EXIT	Close incoming call log.
CLEAR	Delete "Alex Lawton" from log.
STORE	Save "Alex Lawton" to personal phone book.



One touch [Left] to incoming call log



[Left]



Operation	Result (Same as current PT)
Off hook	Call "Alex Lawton".
MORE	Display phone number of "Alex Lawton".
EXIT	Close incoming call log.
CLEAR	Delete "Alex Lawton" from log.
STORE	Save "Alex Lawton" to personal phone book.

Panasonic Current Outgoing Call Log

One touch access is available by "Redial" button.

But programming is required.

Default is making a call last number instead of viewing outgoing call log. (Default for Germany is call log.)

Call Log by Redial key

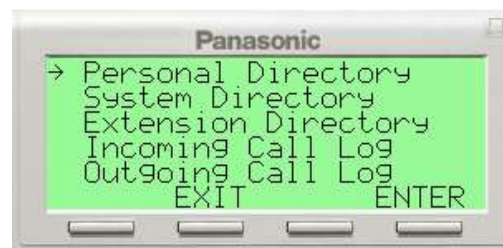
Enable Disable



Many operations are required without programming



MENU
→
Down x 4
+ Enter



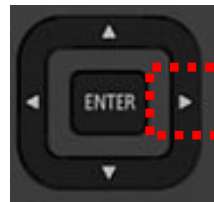
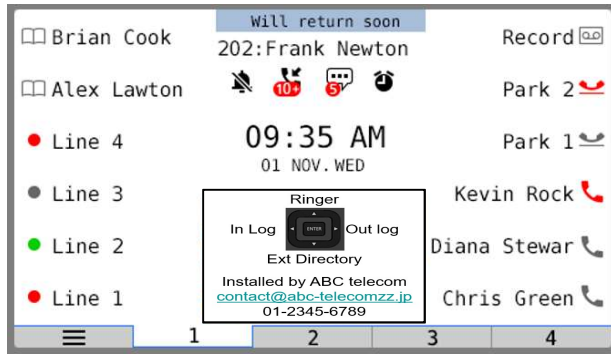
or



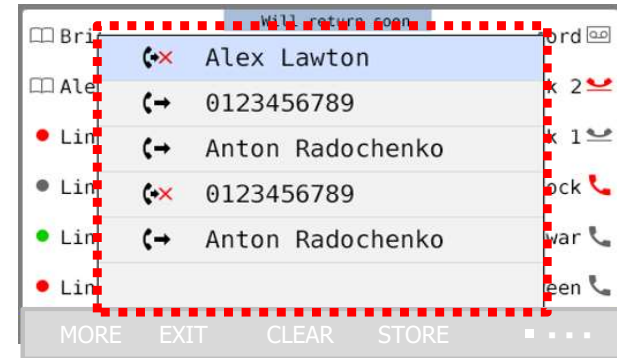
Left
→
+ Enter



One touch [Right] to outgoing call log

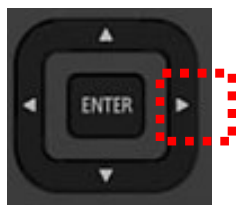
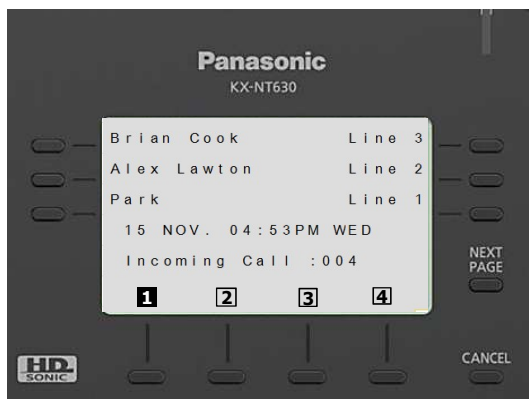


[Right]

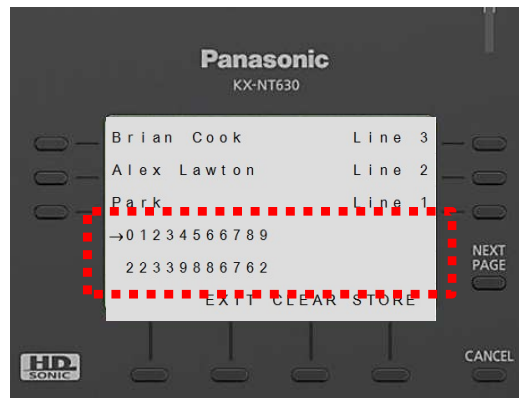


Operation	Result (Same as current PT)
Off hook	Call "Alex Lawton".
EXIT	Close outgoing call log.
CLEAR	Delete "Alex Lawton" from log.
STORE	Save "Alex Lawton" to personal phone book.

One touch [Right] to outgoing call log



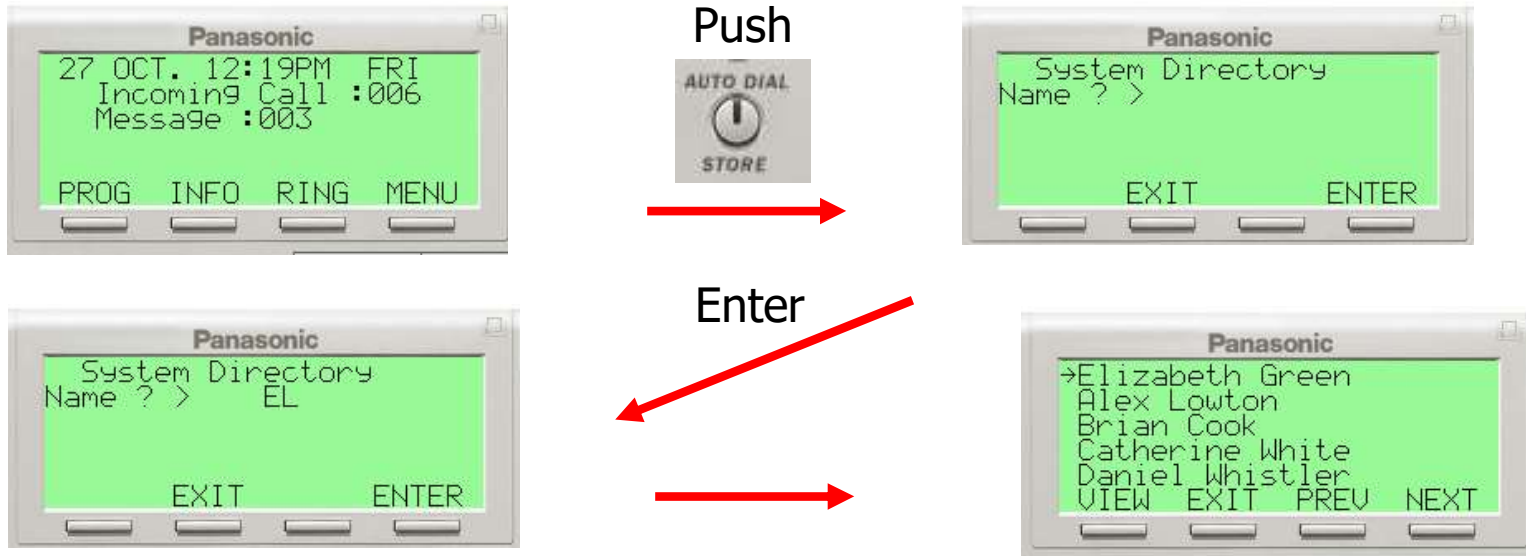
[Right]



Operation	Result (Same as current PT)
Off hook	Call "Alex Lawton".
EXIT	Close outgoing call log.
CLEAR	Delete "Alex Lawton" from log.
STORE	Save "Alex Lawton" to personal phone book.

Panasonic Current Directory (Phone Book)

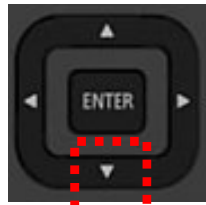
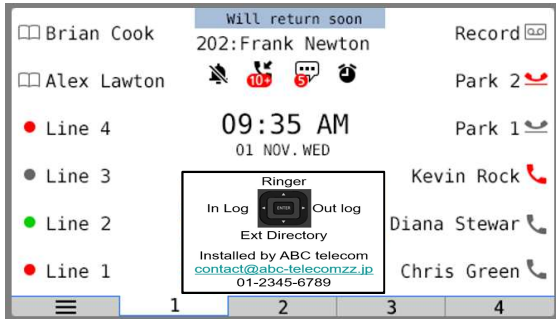
One touch access is available by "Auto dial" button.



One touch access is not available for personal directory and extension directory.

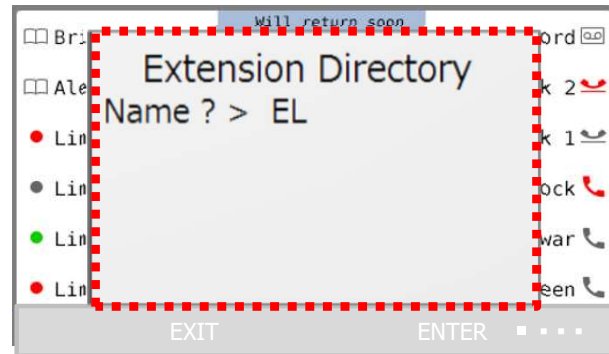
Personal Directory
System Directory
Extension Directory

One touch [Down] to extension directory



[Down]

and input characters to search.



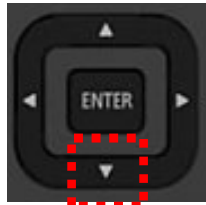
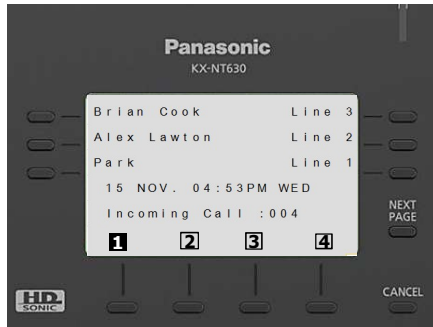
[Enter]

[AUTO DIAL] to System directory

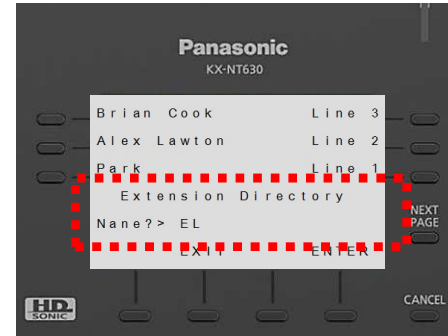
Operation	Result (Same as current PT)
Off hook	Call "Elizabeth".
VIEW	Display phone number.
EXIT	Close phone book.
NEXT	Display next page.
PREV	Display previous page



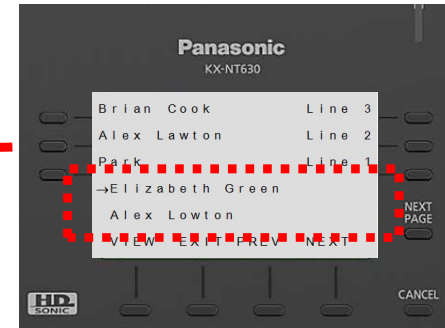
One touch [Down] to extension directory



[Down]
and input characters to search.



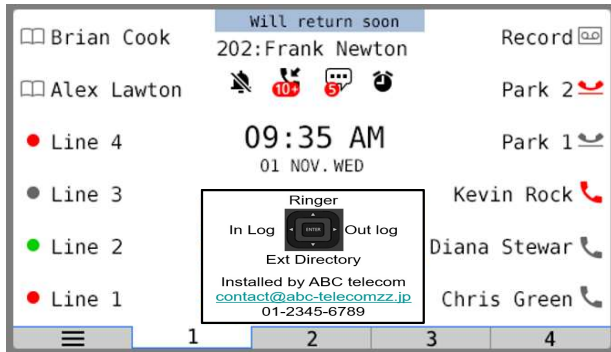
[Enter]



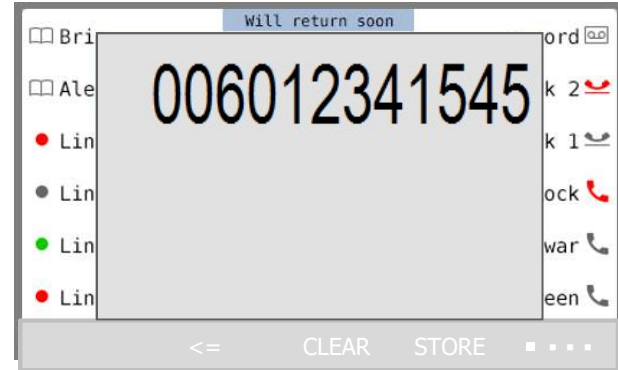
[AUTO DIAL] to
System directory



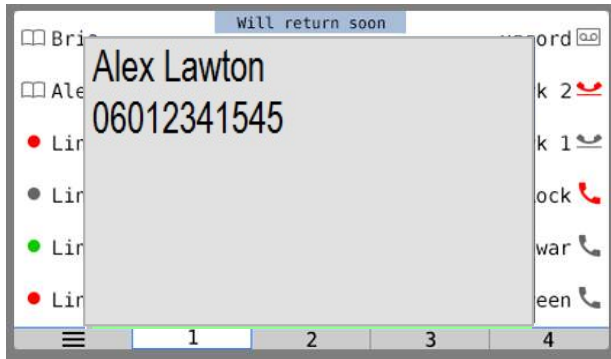
Operation	Result (Same as current PT)
Off hook	Call "Elizabeth".
VIEW	Display phone number.
EXIT	Close phone book.
NEXT	Display next page.
PREV	Display previous page



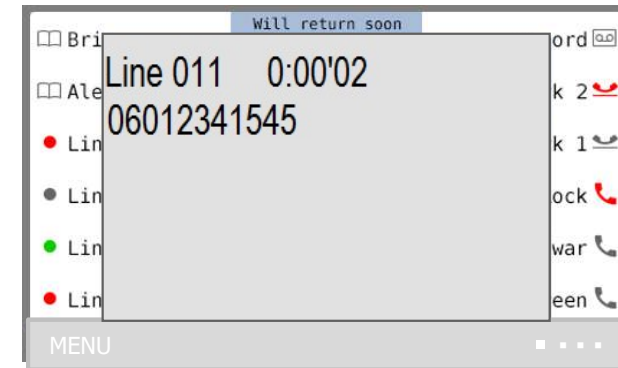
→
Dial
(Zoom Display)



↙
Off hook



Alex
answers →



NS series V8.00

May 2019



Chapter 1

Overview

Panasonic Table of Contents for V8

Chapter	Contents	KX-NS300 Version 8.0	KX-NS1000 Version 8.0
	Introduction		
1	Multiple Holiday Tables	Yes	Yes
2	Multiple Time Zones	Yes	Yes
3	Emergency Alerts	Yes	Yes
4	Built-in Automatic Paging	Yes	Yes
5	Other: <ul style="list-style-type: none">- PRI/SIP Name Notification- UM Email Notification options	Yes	Yes



Chapter 2

How it works

Time Service

“**Tenant Number**” จะถูกเปลี่ยนชื่อเป็น “**Tenant / Time Group**”.

ใน **version 8** แต่ละ **Tenant** ในระบบเดียวกัน สามารถกำหนด **Time Zone** และ **Holiday Tables** ได้ต่างกัน

ตาราง **Time Service mode** จะทำงานตาม **Time Zone**.

ใน **Version 8, Master PBX** สามารถหนด **Time Service** ให้ทำงานต่างกันได้

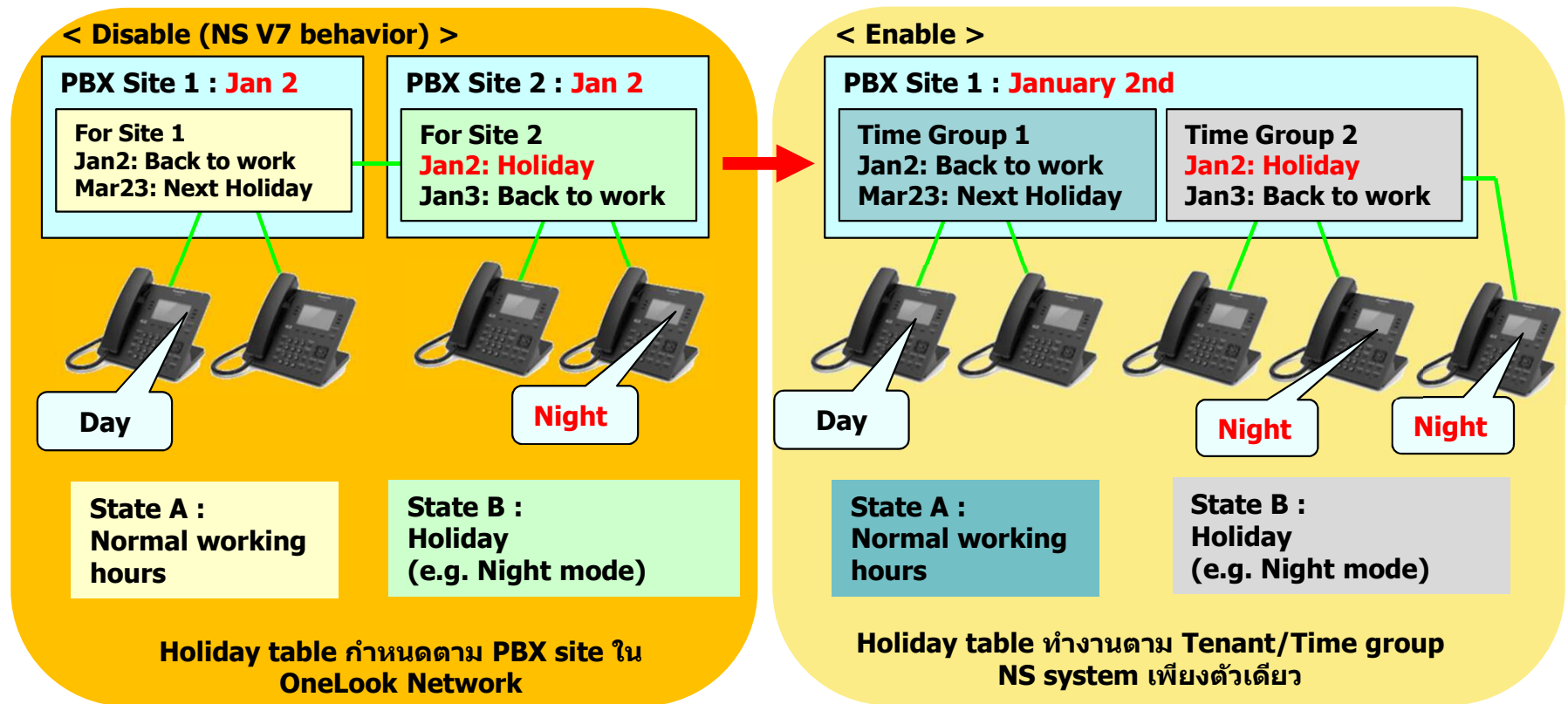
ใน **Version** ก่อนหน้านี้สามารถกำหนดการทำงานได้จาก **System Option reserved bit setting**.

1. Multiple Holiday Tables

Holiday table จะทำงานตาม Time Group.

System wide setting

Default is "Enable". กรณี PBX ทำการ updated จากเวอร์ชันเก่า, โปรแกรมจะถูกกำหนดเป็น "Disable".



Time group (Tenant) ในการทำงานแบบ Holiday table สามารถกำหนด Date and Year. โดยสามารถกำหนดวันเริ่มหยุดและวันสิ้นสุดวันหยุด โดยแต่ละตารางสามารถกำหนดได้ 100 ช่วงเวลา

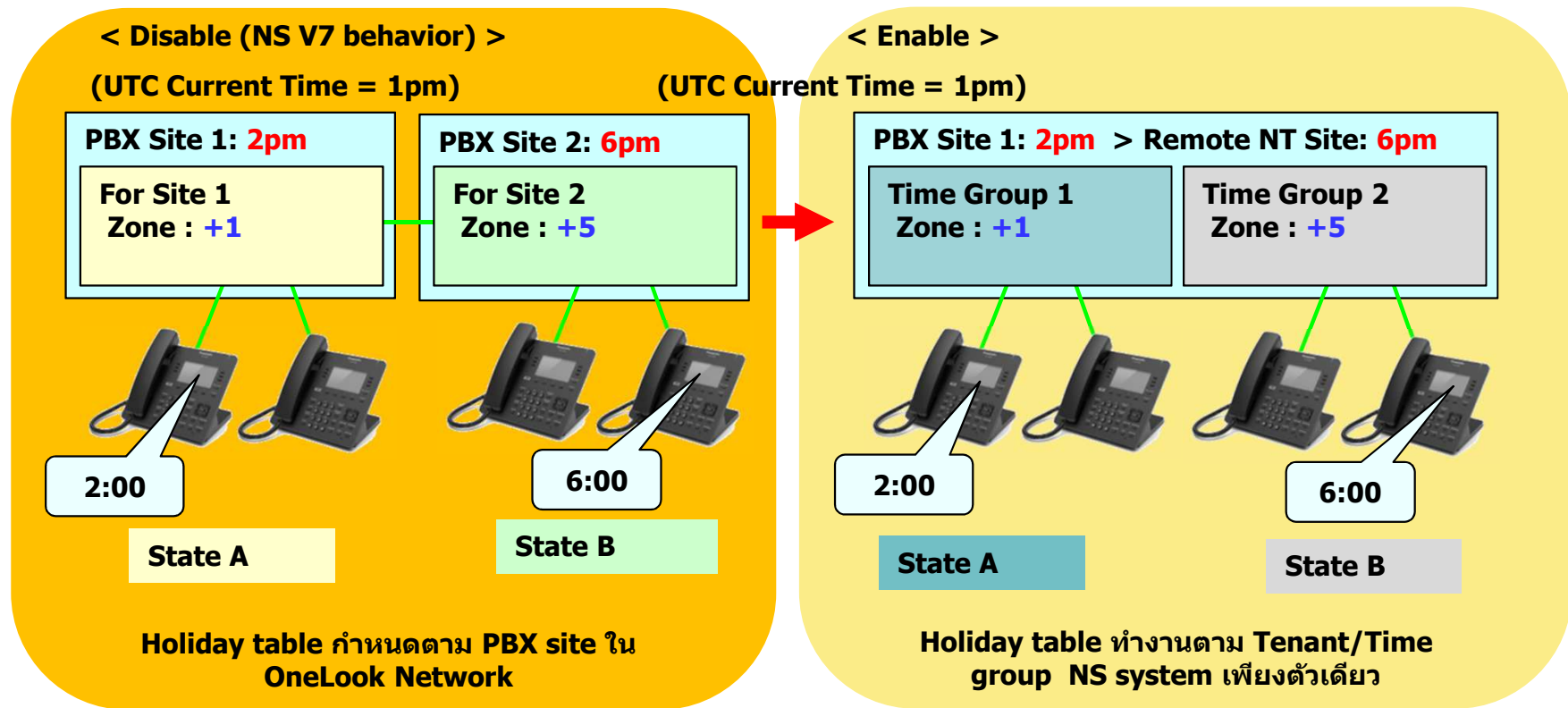
No.	Setting	Name of Holiday	Start year	Start date (Month Day)	Start time	End year	End date (Month Day)	End time
	ALL		ALL			ALL		
1	Disable		Every year		00:00	Every year		24:00

2. Multiple Time Zones

Time group (Tenant) supports time zone.

System wide setting

Default is "Enable". กรณี PBX ทำการ updated จากเวอร์ชันเก่า, โปรแกรมจะถูกกำหนดเป็น "Disable".



Multiple Time Zone / Time Group.

Applies to the following services:

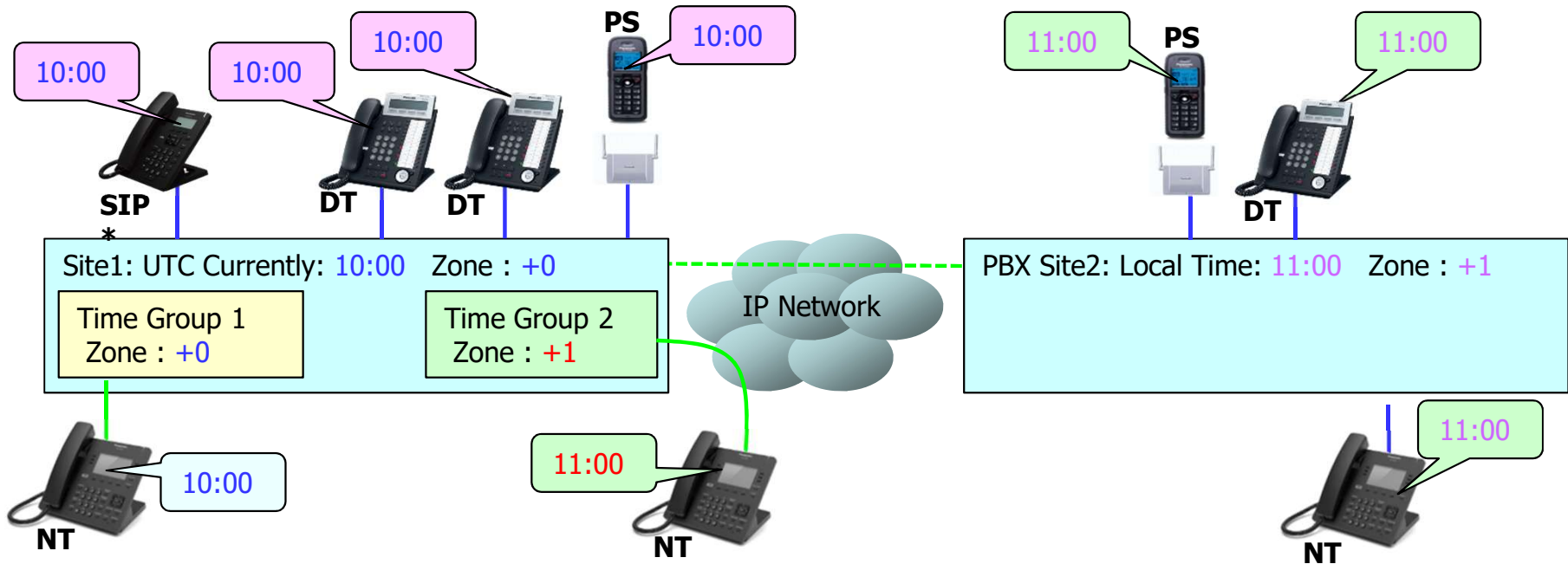
- Date and time display on PT LCD*
- Date and time of incoming call log.
- Date and time announcement for voice message left in UM.
- Time of Day / Night / Lunch / Break mode automatic switching.
- Start and End time for Holiday mode.
- Date and time stamp for two-way recording (manual/automatic) at a mailbox.
- "Day control", "Time control", and "Date control" of UM Custom Service.
- The "System" Company Greeting by UM: "Good morning", "Good Afternoon", and "Good evening"

The "Multiple Time Zone" does **not** apply to the following features:

- SMDR
- ARS time service
- Basically all other features which are not listed above

* Date & Time display on PT by Time Group จะแสดงเฉพาะที่ **IP-PT (e.g. remote extensions)**
DPT, APT จะแสดงข้อมูลจาก local PBX system. SIP terminals Time of Day display จะต้องกำหนดเอง
แต่ละเครื่องหรือผ่าน NTP server.

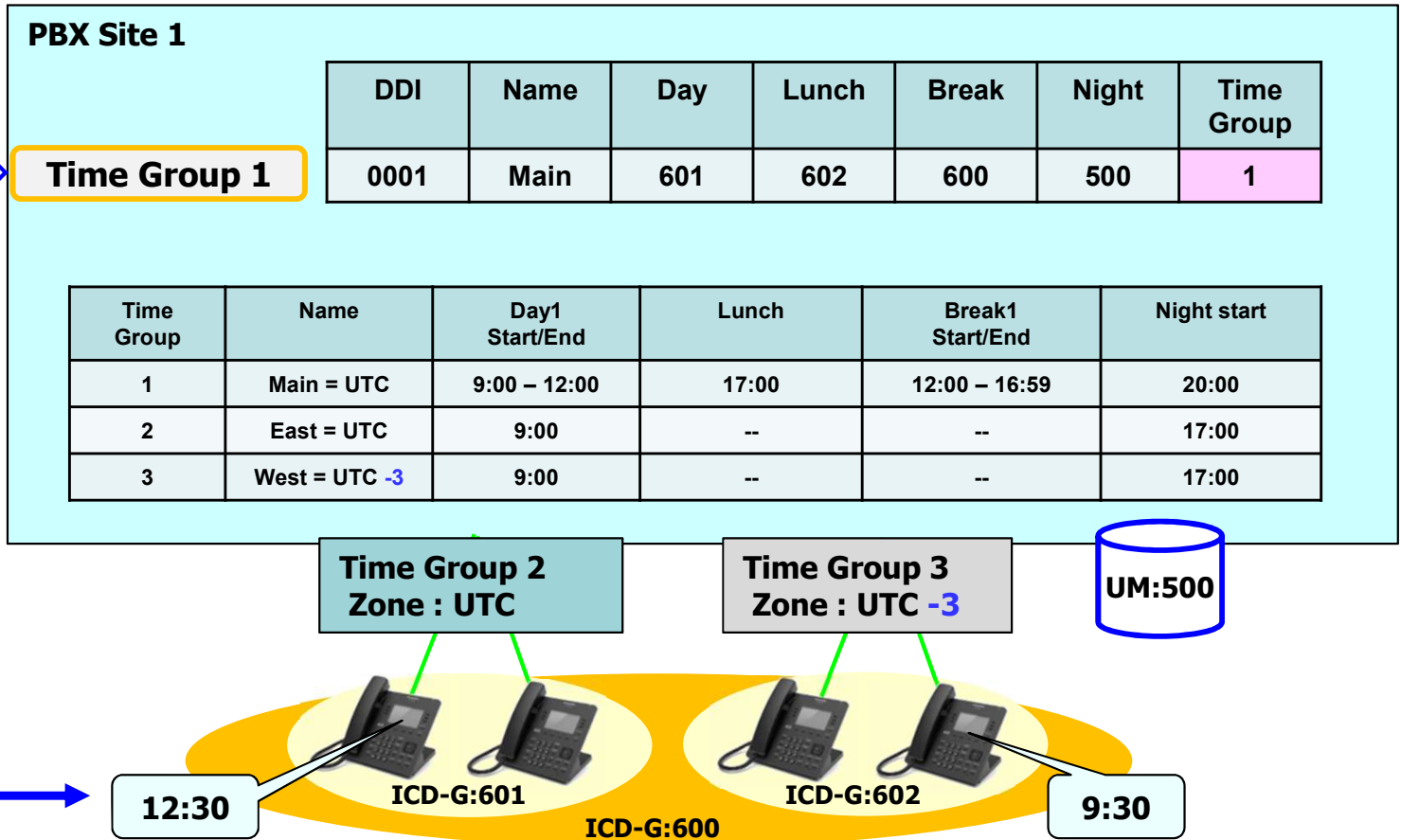
Locally connected devices such as DPT, APT and PS would typically have the same Time Group / Time Zone as the local PBX controller, whereas remote IP terminals or OneLook Slaves may be located in a different time zone to the Master PBX.



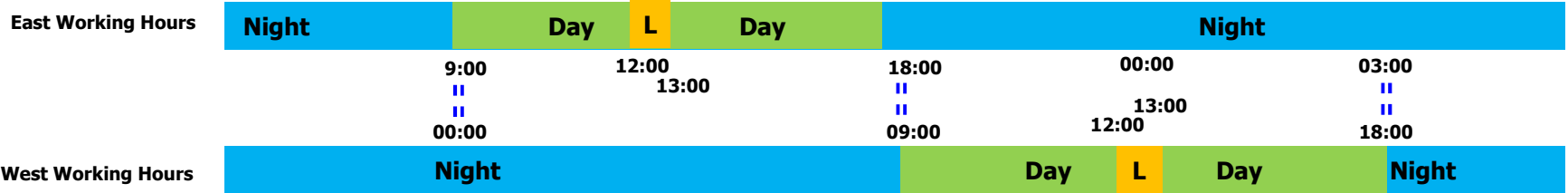
Note * SIP terminals Time of Day display จะตั้งกำหนดเองแต่ละเครื่องหรือผ่าน NTP server.

Multiple Time Zone – Shared calls coverage example

1. Calls to DDI 0001 between 09:00 and 12:00 presented to ICD Group 601.
 2. From 12:00 to 16:59, presented to ICD Group 600 (All members of 601+602 - Break Mode must revert to Day Mode at 16:59 for 1 min.)
 3. From 17:00 to 20:00 presented to ICD Group 602
 4. From 20:00 to 09:00 next day, calls directed to UM
- PT Handset displays local time for location of Users.



Multiple Time Zone – Alternating Hours of Business Example



PBX Location: "East" = UTC, Remote Group "West" = UTC -9

DDI	Destination	Day	Lunch	Night	Time Group
0001	EastGRP	601	500	500	1
0002	WestGRP	602	500	500	2

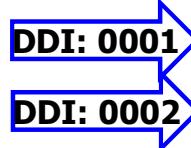
Time Group	Name	Day1 Start	Lunch start / Day2 Start	Night start
1	UK	9:00	12:00/13:00	18:00
2	Alaska	9:00	12:00/13:00	18:00

Time Group 1
Zone : UTC (UK)

Time Group 2
Zone : UTC-9 (Alaska)

UM:500

East Callers
West Callers



1. Calls to DDI 0001 presented to ICD Group 601 in local working hours with divert to UM during Lunch and Night
2. Calls to DDI 0002 presented to ICD Group 602 in local working hours with divert to UM during Lunch and Night



3. Emergency Alerts

Alerting by E-Mail or System Alarm Key

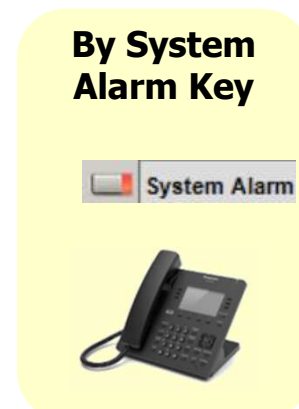
Alert can be sent automatically and immediately when:

- An extension dials an emergency number
- An extension does not answer a wake-up call (alert by E-mail only)



Room 107 dials 112
หรือไม่ตอบรับการตั้งปลุก
(Wake- up call)

PBX



**Note : System Alert
button will only show
Emergency Dial Alert.**

By E-Mail

Emergency dial alert #107
KX-NS1000 <NS1000@example.com>
Sent: 13:56 / 7 September / 2018
To: Mar@example.com

107
Henry
911

E-mail body :

1st line : Extension number making Emergency call

2nd line : Extension name

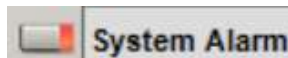
4th line : Dialed emergency number

สามารถกำหนดได้ 6 E-mail ปลายทางสำหรับมารับ Emergency Dial Alert และ Missed Wake Up Call Alert

Emergency Dial Alert by System Alarm Key

จะต้องกำหนดปุ่ม **Flexible Key** เป็นปุ่ม **System Alarm** บนเครื่อง **IP PT/DPT**

- สามารถเก็บข้อมูลได้สูงสุด **20 Emergency Calls log**. และสามารถลบเองได้
- (ข้อมูลเก่าสุดจะถูกลบอัตโนมัติเมื่อมีข้อมูลใหม่สุดเข้ามาเกิน **20** ข้อมูล)



ปุ่ม **System Alarm** ไฟ LED จะติดสีแดง
ไฟ LED จะติดกระพริบจนกว่าจะ **cleared**.



Each Emergency number can be set as a target of Dial alerts.

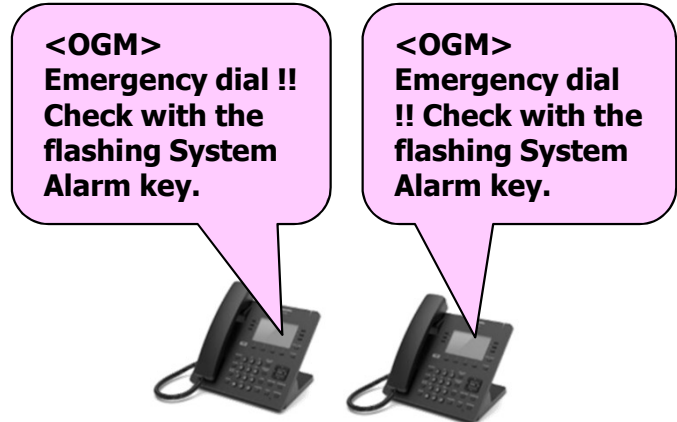
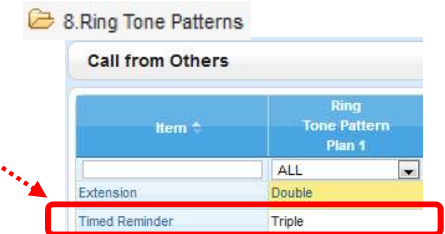
Note : If any Emergency numbers are set as the target of the Emergency Dial Alert then "System Alarm" button will only show Emergency Dial Alert log. Other System Alarms need to be checked by E-mail in this case.

(6 Line Display PT is required to view all information).

Emergency Dial Alert by Phone Call

- Extension ใน Conference Group จะได้ยิน **Special Ring Tone**, หรือเสียงจาก **OGM** ทันที เมื่อมีผู้โทรออกหมายเลขฉุกเฉิน (emergency number)
- **Conference Group** จะต้องกำหนด Alert destination.
- SIP Extension จะได้รับ **Special Ring Tone** หรือ **OGM**
- เมื่อรับสายและวางหูโทรศัพท์ลงแล้ว (on-hook), จะสิ้นสุดการเรียกไม่มีการเรียกอีก
- Ringing จะไม่หยุดเรียกเมื่อมีการรับจากสายในอื่นๆ เหมือนการทำงานของ Conference Group

Note : Alert สามารถทำงานได้กับ IP-PT, Digital PT and SIP extensions.
Alert ไม่สามารถทำงานได้กับ SLT, Analog PT and trunk.



Alert ringing or OGM to Group.

Emergency Dial Alert by Phone Call

- **Special Ring Tone หรือ OGM จะเรียกไปที่ Extension** เร็วๆจนกว่าจะรับสาย(Answered)
- ถ้า Extensions ไม่รับสาย, **Special Ring Tone หรือ playing OGM จะทำงานต่อเนื่องประมาณ 4 นาที (PT devices) หรือ Timed Reminder ringing duration (all other extension types without auto answer).**

Display during ringing & OGM

PT
and
Softphone
:



HDV:



“Emergency dial” indication at terminal display.

Detailed information is not shown during Alert Ringing - use System Alarm key to check detailed information such as which Room/Extension dialed the Emergency number.

4. Built-In Automatic Paging

(Broadcast Recorded Message)

Recorded messages can be broadcasted to a **Conference Group**.

To start:

***32 + *1 + Group number (01 to 08 for KX-NS) + 511 (OGM No.) + 9 (Repeat counter)**

To stop current broadcasting and start new

***32 + *1 + Group number + 522 (New OGM No.) + 9 > Stop current OGM & start new.**

To stop only

***32 + *0 + Group number > Stop current OGM.**

OGM is applied to IP-PT, Digital PT and SIP extensions.



SIP speaker other than KX-NTV need testing.

Need inter-op testing:



SIP call buttons for Triggered auto paging.



SIP Strobe lights for Visual alerting.



SIP Speakers for Outdoor use.

etc....

Timed Broadcasting

Recorded message สามารถกำหนดให้ทำงานอัตโนมัติตารางการทำงาน

24 patterns can be set:

No.	Enable	Time	Conference Group No.	OGM No.	Message Repeat Counter
1	Enable	09:15	8	1 : 501	9
:					
24	Disable	00:00	1	1 : 501	1

NOTE: schedule does not include day of week – messages will be repeated every day but can be configured to not play during Night Service time mode (see programming guidance).

Conditions	Broadcast Recorded Message	Integration with Emergency Dial Alert	Wake up call
OGM after answer	Yes	Yes	Yes
Automatic Answer Required	Yes *1	Yes *1	No
Ringing without Automatic Answer	No	Yes*2	Yes
Programming for ringing duration	Yes *3	Yes *3	Yes
Repeat ringing	No	No	Yes
Call Waiting	No *4	No *4	No
Ringing or automatic answer after on hook instead of call waiting	Yes	Yes	Yes
Dial tone 3 when OGM is not available.	No	Yes	Yes

***1 Automatic answer must be enabled in conference group. With SIP terminals, Auto-Answer must be set on the terminal itself – if SIP terminal does not answer it will ring for the Timed Reminder ringing duration, based on programming.**

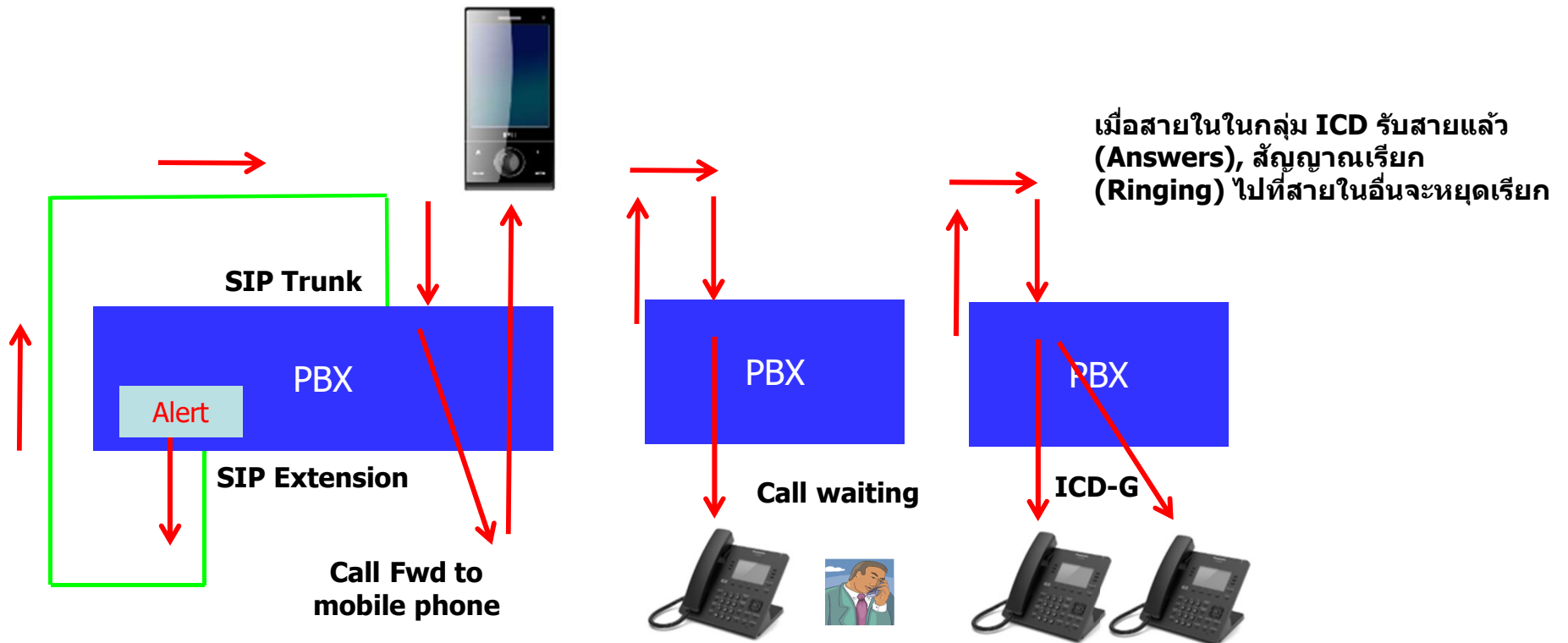
***2 Message can only be heard when answering the call.**

***3 Programming is common with wake up call (Timed Reminder).**

***4 Call waiting is only possible by SIPGW>EXT loopback configuration.**

Solution example เพื่อทำงานกับ SIP extensions

เมื่อ SIP extension ต่อเข้ากับ SIP trunk (Loopback), สามารถทำให้เรียกไปที่ Mobile phones ได้



5.Other

User Group Name can be notified ไปที่ PRI และ SIP Trunk แทนที่ Extension Name.
 สามารถ Enabled ได้ที่ New system options setting (default is "Disable").

User Group	User Group Name (20 characters)	Tenant Number
		ALL
1	Fukuoka 1234	1
2	Tokyo 3456	1



101
Mike

User Group 1
Fukuoka 1234



102
Susan



103
Tom

User Group 2
Tokyo 3456



104
Beth

Note: Name notification support depends on specification of PRI / SIP trunk carrier.

Phone Number of caller displayed in UM email body **instead of long description** and mailbox status. Gives a simple method for **call back** (e.g. from mobile) when viewing UM email message. Also .wav attachment name changed.

This feature can be enabled by system setting - Default is "Enable".

(When PBX is updated from old version, parameter is "Disable").

Applied when new Special Option for Type 2 UM Email format is **Enabled** (see Programming Guidance).

Message Notification from UM, 123456789, ABC Company
NS_UM <UM@example.com>
Sent: 平成 31/03/20 (水) 14:20
To: Mar@example.com
Message 123456789_M114_190320151938.wav (51 KB)
123456789

Message Notification from UM, 123456789, ABC Company
NS_UM <UM@example.com>
Sent: 平成 31/03/20 (水) 15:11
To: Mar@example.com
Message 123456789_rcvm0011_00800000190320161056.wav (56 KB)
A voice message was left from 123456789 ABC Company at 4:10 PM on March 20, of 8 seconds length.
Voice New: 8, Old: 1

123456789 = example phone number of caller "ABC Company".

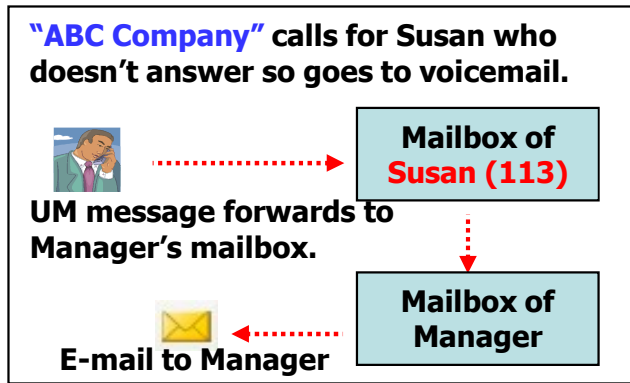
M114 is mailbox number which received the message.

190320151938 is YYMMDDHHMMSS.

Caller name (or number) is displayed in email subject instead of mailbox name, when message is forwarded to another mailbox which then notifies by e-mail.

File name of attached file has mailbox number which received original message.

Applied when new Special Option for Type 2 UM Email format is Enabled (see Programming Guidance).



Enable (Default)

Message Notification from UM, 123456789, ABC Company
 NS_UM <UM@example.com>
 Sent: 平成 31/03/20 (水) 14:34
 To: Mar@example.com

Message [123456789_M113_190320153330.wav (74 KB)]

123456789

Disable (Old spec)

Message Notification from UM, Lazy Susan
 NS_UM <UM@example.com>
 Sent: 平成 31/03/20 (水) 14:42
 To: Mar@example.com

Message [rcvm0011_00800037190320154210.wav (58 KB)]

A voice message was left from Lazy Susan at 3:42 PM on March 20, of 8 seconds length.
 Voice New: 3, Old: 1

Following improvements are also applied when Type 2 UM E-mail format is **Enabled**.

- 1) **Caller name and number is included in information presented when internal extension calls UM and leaves message using direct mailbox access (#6 > mailbox number).**

Disable

Message Notification from UM, **Unknown Caller**
 NS_UM <UM@example.com>
 Sent: 平成 31/03/20 (水) 14:58
 To: Mar@example.com
 Message rcvm0011_00800000190320155735.wav (34 KB)
 A voice message was left from **Unknown Caller** at 3:57 PM on March 20, of 5 seconds length.
 Voice New: 5, Old: 1

Enable

Message Notification from UM, **113, Lazy Susan**
 NS_UM <UM@example.com>
 Sent: 平成 31/03/20 (水) 15:00
 To: Mar@example.com
 Message 113_M114_190320160002.wav (48 KB)
113

Message Notification from UM, 123456789, ABC Company
 NS_UM <UM@example.com>
 Sent: 平成 31/03/20 (水) 14:54
 To: Mar@example.com
 Message 123456789_rcvm0011_00800000190320155420.wav (53 KB)
 A voice message was left from 123456789 ABC Company at 3:54 PM on March 20, of 7 seconds length.
 Voice New: 4, Old: 1

**Outside Caller
 information presented
 in both cases**

Message Notification from UM, 123456789, ABC Company
 NS_UM <UM@example.com>
 Sent: 平成 31/03/20 (水) 15:04
 To: Mar@example.com
 Message 123456789_M114_190320160423.wav (43 KB)
 123456789

2)

E-mail/Text Message Device

Device No. 1 Device No. 2 Device No. 3

User Name :

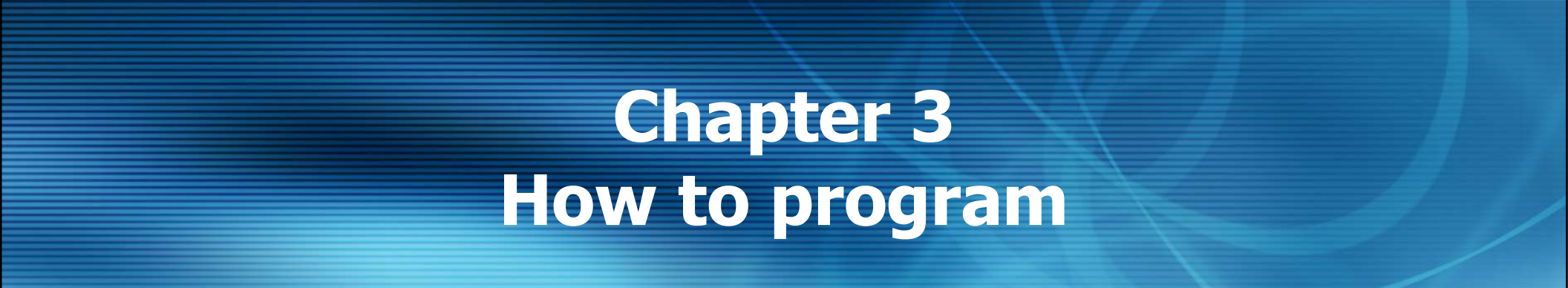
E-mail Address :

Following improvements are also applied when Type 2 UM E-mail format is **Enabled**.

3) When e-mail sent without .wav file attached (VM) then e-mail body displayed as:

<p>Message Notification from UM, 123456789, ABC Company NS_UM <UM@example.com> Sent: 平成 31/03/20 (水) 15:14 To: Mar@example.com</p> <hr/> <p>123456789 Voice New: 9, Old: 1</p>

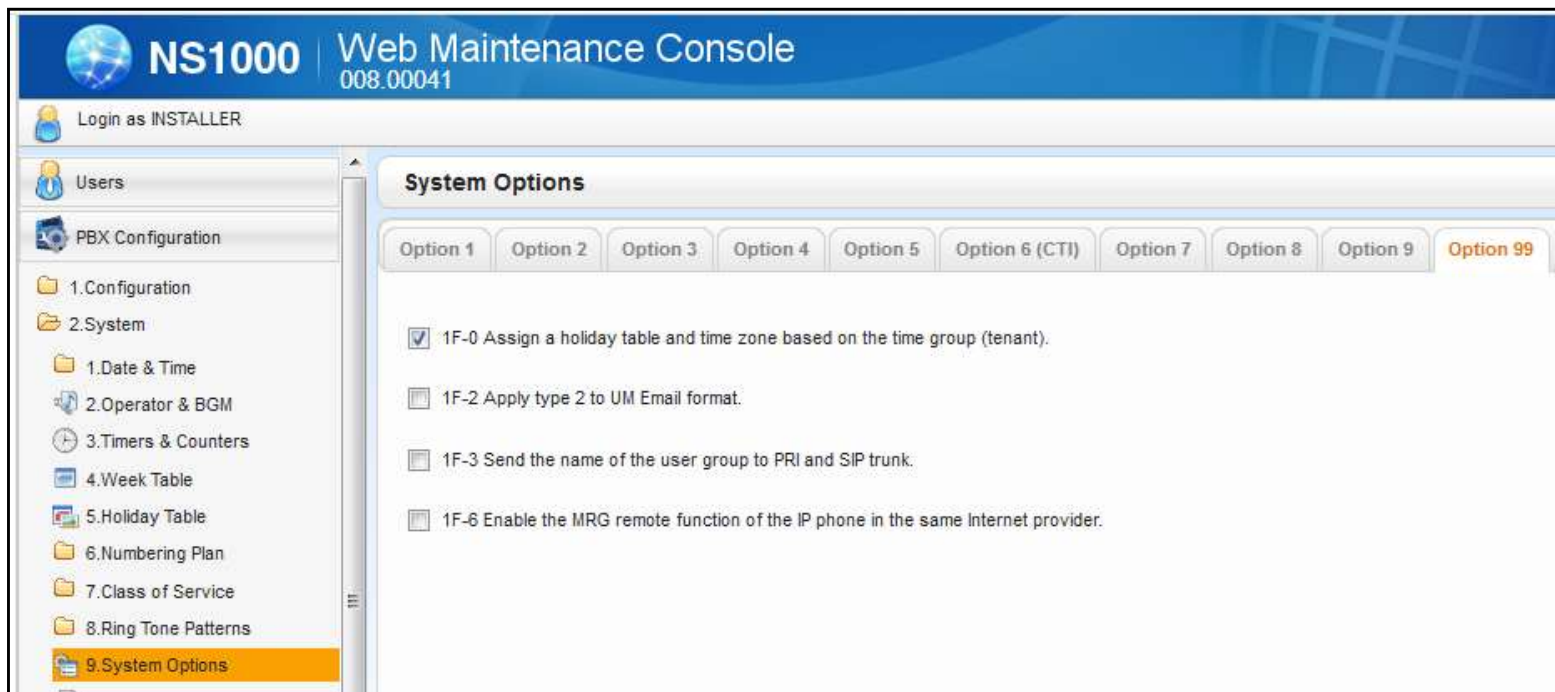
Note: UM e-mail improvements only apply to SMTP notification (not applied to IMAP notification).



Chapter 3
How to program

Panasonic System Special Options

ใน Firmware Version 8 enhancements จะเพิ่ม System Options ในหัวข้อ
"Option 99" เพื่อกำหนดการทำงานเพิ่มเติม



The screenshot displays the NS1000 Web Maintenance Console interface. The top header shows "NS1000 | Web Maintenance Console" and "008.00041". Below the header, there is a "Login as INSTALLER" button. The left sidebar contains a navigation menu with "Users" and "PBX Configuration" sections. Under "PBX Configuration", there are folders for "1. Configuration" and "2. System", followed by numbered items: "1. Date & Time", "2. Operator & BGM", "3. Timers & Counters", "4. Week Table", "5. Holiday Table", "6. Numbering Plan", "7. Class of Service", "8. Ring Tone Patterns", and "9. System Options" (highlighted in orange). The main content area is titled "System Options" and features a row of tabs for "Option 1" through "Option 9" and "Option 99" (highlighted in orange). Below the tabs, there are four configuration items, each with a checkbox and a description:

- 1F-0 Assign a holiday table and time zone based on the time group (tenant).
- 1F-2 Apply type 2 to UM Email format.
- 1F-3 Send the name of the user group to PRI and SIP trunk.
- 1F-6 Enable the MRG remote function of the IP phone in the same Internet provider.

Panasonic Multiple Holiday Tables

แต่ละ Time Group (Tenant) สามารถกำหนด Holiday tables และสามารถกำหนดได้ **100 ช่วงเวลา/Time Group** (PBX/Site based holiday table จะไม่สามารถกำหนดปี (Year) ได้ และรองรับได้ 24 ช่วงเวลา).

Option 99 1F-0 Assign a holiday table and time zone based on the time group (tenant).

เมื่อกำหนด **Disabled**, สามารถเลือก Other sites ได้
 เมื่อกำหนด **Enabled**, สามารถเลือก Time groups ได้

< Disable (Same as KX-NS V7) >

No.	Setting	Name of Holiday	Start Date (Month Day)	Start Time	End Date (Month Day)	End Time	Retain Holiday
ALL	ALL						ALL
10	Disable						Yes
11	Disable						Yes
12	Disable						Yes
13	Disable						Yes
14	Disable						Yes
15	Disable						Yes
16	Disable						Yes
17	Disable						Yes
18	Disable						Yes
19	Disable						Yes
20	Disable						Yes
21	Disable						Yes
22	Disable						Yes
23	Disable						Yes
24	Disable						Yes

< Enable >

กำหนดเหมือนกันทุก Time group

รองรับการกำหนดปี "Year" + up to 100 entries

“Time Table No.” เปลี่ยนชื่อเป็น “Tenant / Time Group” ใน Holiday table.

“Time Group” สำหรับ Multiple holiday tables และ Multiple time zones สำหรับทำงานแบบกฎ Different tenants หรือ One company with international branch offices หรือสำนักงานที่มีสาขาต่างที่กัน

“Time Table No.” เปลี่ยนชื่อเป็น “Time Group”.

No.	Setting	Name of Holiday	Start year	Start date (Month Day)	Start time	End year	End date (M)
1	Disable		Every year		00:00	Every year	
2	Disable		Every year		00:00	Every year	

Panasonic Time Service

“Tenant Number” เปลี่ยนชื่อเป็น “Tenant / Time Group”.

และเปลี่ยนชื่อใน 7 เมนูในหน้าต่างโปรแกรมต่างๆ

User Group		
User Group	User Group Name (20 characters)	Tenant / Time Group
1	Extension Group 001	1
2	Extension Group 002	1

DDI / DID Table							
ID	DDI / DID Number (32 digits)	DDI / DID Name (20 characters)	DDI / DID Destination - Day	DDI / DID Destination - Lunch	DDI / DID Destination - Break	DDI / DID Destination - Night	Tenant / Time Group
1	0924770103		103				1
2	0924770104		104				1

- 5.Optional Device
- 1.DOORPHONE
- 2.External Pager
- 3.Voice Message
- 4.External Relay
- 5.External Sensor

- 5.Optional Device
- 1.DOORPHONE
- 2.External Pager
- 3.Voice Message
- 4.External Relay
- 5.External Sensor

- 10.CO & Incoming Call
- 1.CO Line Settings
- 2.DIL Table & Port Settings
- 3.DDI / DID Table
- 4.MSN Table

- 10.CO & Incoming Call
- 1.CO Line Settings
- 2.DIL Table & Port Settings
- 3.DDI / DID Table
- 4.MSN Table

Group Settings							
ICD Group	Floating Extension Number	Group Name (20 characters)	Distribution Method	Call Waiting Distribution	FWD Mode	DND Mode	Tenant / Time Group
1	601	ICD Group 001	Ring	Distribution	Ring	No Ring	1
2	602	ICD Group 002	Ring	Distribution	Ring	No Ring	1

Panasonic Time Service

“Time Service” จะมีผลต่อการทำงานต่างๆ

COS Settings

TRS CO & SMDR Assistant Executive Manager PDM/SDN Optional Device & Other E

COS No.	COS Name	TRS Level - Day	TRS Level - Lunch	TRS Level - Break	TRS Level - Night
1		ALL	ALL	ALL	ALL

External Call Block

Block
Non Block

Day
Lunch
Break
Night

TRG 17 - 32 TR

COS No.	01	02	03
1			

Dial / IRNA / Recall / Tone

Intercept Routing No A

Day (s)
Lunch (s)
Break (s)
Night (s)

Operator & BGM

PBX Operator

Operator-Extension Nu

Day
Lunch
Break
Night

Group Settings

Group FWD Member List

Main Overflow Queuing Busy Overflow No Answer Queuing Time Table Miscellaneous Group Log / Group FWD

ICD Group	Floating Extension Number	Group Name (20 characters)	Queuing Busy Destination - Day	Queuing Busy Destination - Lunch	Queuing Busy Destination - Break

3.Voice Message

1.DISA System

2.DISA Message

3.SVM

4.External Relay

5.External Sensor

6.Feature

7.TRS

Repeating Times of ON/OFF for

Timed Reminder Message

Day
Lunch
Break
Night

« Main Intercept Destination Intercept No Answer Time CLIP UM Option 1 Option 2 Option 3 Option 4 »

No.	Extension Number	Extension Name (20 characters)	When called party does not answer - Day	When called party does not answer - Lunch	When called party does not answer - Break

Extract from Feature Guide:

Features Using Time Service

The following features can be set in each time mode (day/lunch/break/night):

- a. Destination of incoming trunk calls (DIL/DID/DDI/MSN) (→ 2.1.1 Incoming Trunk Call Features)
- b. Destination of the Intercept Routing (→ 2.1.1.6 Intercept Routing)
- c. Queuing Time Table for incoming call distribution groups (→ 2.2.2.4 Queuing Feature)
- d. Overflow destination for incoming call distribution groups (→ 2.2.2.7 Overflow Feature)
- e. Destination of incoming doorphone calls (→ 2.18.1 Doorphone Call)
- f. PBX operator (→ 5.1.5 Operator Features)
- g. COS for TRS/Barring and for Trunk Access
- h. Outgoing Message (OGM) for Timed Reminder (→ 2.24.4 Timed Reminder)
- i. Intercept time for Intercept Routing—No Answer (→ 2.1.1.6 Intercept Routing) and for DISA Intercept Routing—No Answer (→ 2.16.1 Direct Inward System Access (DISA))
- j. Service group settings for voice mail (→ 3.2.1.40 Service Group)

ค่าจากโรงงาน (Default) ในแต่ละ Time group จะเหมือน "Time zone of PBX".

Daylight saving สามารถกำหนดได้ในแต่ละ Time group.

Option 99

1F-0 Assign a holiday table and time zone based on the time group (tenant).

< Disable (Same as KX-NS V7) >

< Enable > appear

Time Group button

Time Adjustment & Time Zone

Daylight Saving

Automatic Time Adjustment

Synchronisation mode

Disable (Stand-alone) Enable (Master Synchronisation)

Automatic Time Correction on Stand-alone mode

Disable ISDN & Caller ID(FSK) SNTP

SNTP

SNTP Server

IP Address :

Port Number : 123

Time Zone of PBX

Time Zone of PBX : +9 : 00

Time Zone for PC : +09:00

Time Group

Time Group

Time Group	Name of Time Group	Same as Time Zone of PBX	Time Zone	Daylight Saving
		ALL	ALL	ALL
1		Yes	0:00	
2		Yes	0:00	
3		Yes	0:00	
4		Yes	0:00	
5		Yes	0:00	

Pop up Time Group setting screen

Time Zone of PBX

Emergency Dial Alert set up

System Alarm Key สามารถกำหนดได้ที่โทรศัพท์แบบ DT และ IP-PT

Use E-mail notification if error log needs to be notified.

กำหนดสายในที่จะทำงาน
"Local Alarm Display"

Main

SMDR SMDR Options RS232C Maintenance Password

Local Alarm Display

Extension 1

Extension 2

PBX Configuration 7.TRS 4.Emergency Dial

Emergency Dial

Conference Group Number to notify : 1

OGM Number presented (after ringing is answered) :

PT users with Manager COS can use a flexible key assigned as a System Alarm key to check the log.

ID	Emergency Number (32 digits)	Alert & Log
1	112	Enable
2		Disable
3		Disable
4		Disable
5		Disable
6		Disable
7		Disable
8		Disable
9		Disable
10		Disable

1:DISA 01
2:DISA 02
3:DISA 03
4:DISA 04

DISA OGM No.
1-64

- 1:
- 2:
- 3:
- 4:
- 5:
- 6:
- 7:
- 8:

Group No.
1-8

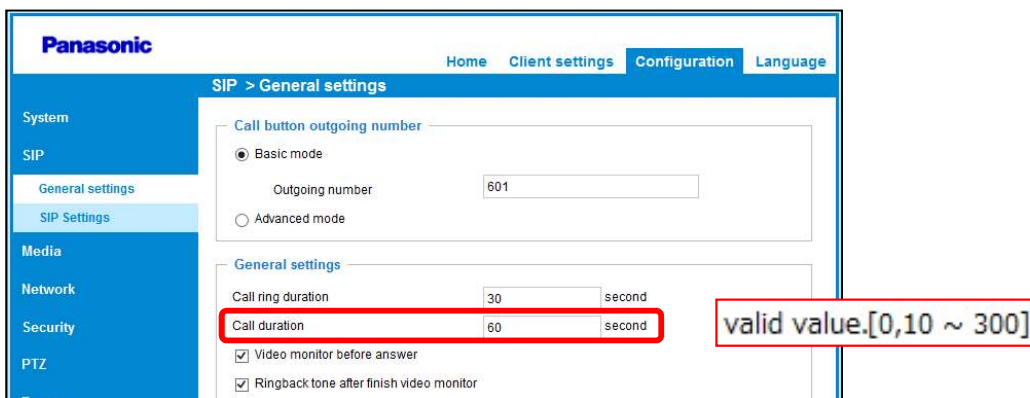
Emergency Dial Alert set up

กรณีไม่ได้กำหนด OGM ไว้ Emergency Dial Alert โทรศัพท์จะได้ยินเสียง Special Ring tone แทน

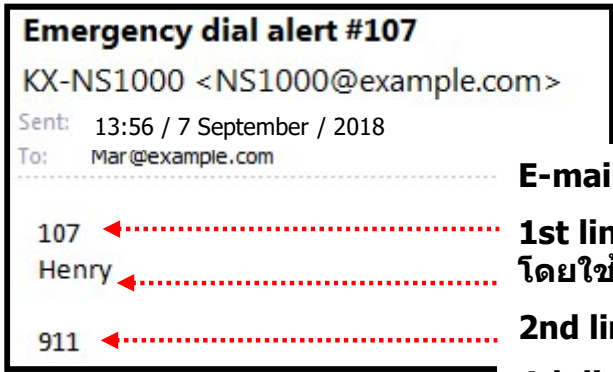
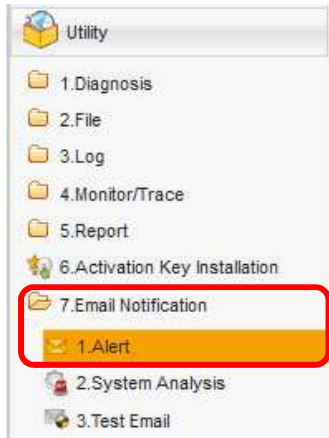
เวลาที่ OGM playback บนเครื่อง NT/DT/PS กำหนดจากโปรแกรม PBX Reserved Byte setting



เวลาที่ OGM playback บน KX-NTV150-160 กำหนดเวลาที่ "Call duration" ในโปรแกรมของ KX-NTV150-160



E-mail set up / sample



E-mail body :

- 107 ← 1st line : หมายเลขสายใน (Extension) ที่โทรออก
- Henry ← โดยใช้เบอร์ Emergency
- 911 ← 2nd line : ชื่อสายใน (Extension name)
- 4th line : เบอร์ Emergency ที่โทรออก

Emergency dial	
Email Address 1	: Mar@example.com, Fufu@example
Email Address 2	:
Subject	: Emergency dial alert
Wake-up call no answer	
Email Address 1	: Mar@example.com, Fufu@example
Email Address 2	:
Subject	: Wake up call no answer

3 @ x 2 สามารถ
 โปรแกรม โดยใช้เคร
 หมาย ",", คั
 ระหว่าง Email

การโปรแกรมเบื้องต้นเหมือน Conference Group feature.

Recorded message สามารถทำการ Broadcast automatically.

1) Enable "Conference Group Call Operation" ในโปรแกรม COS settings

COS Settings

TRS CO & SMDR Assistant Executive Manager PDN/SDN Optional Device & Other Extensions CA Miscellaneous

COS No.	COS Name	Conference Group Call Operation	Accept a collect call (for Brazil)
1		ALL Enable	ALL Enable

2) Set applicable COS setting for the extensions initiating the message:

Extension Settings

Copy to CLIP Generate

Main Intercept Destination Intercept No Answer Time CLIP UM Option 1 Option 2

No.	Extension Number	Extension Name (20 characters)	Site	Shelf	Slot	Port	Port Type	Telepho Type	User Group	COS
15	113	Mar	1	Virtual	17	11	IP-EXT	IP-PT	31	1

Continues next page...

3) เพิ่มสมาชิกใน Conference Group

Conference Group Member

Member list copy Extension No. Setting

Conference Group No.: 1

No.	Dial Number	Exten
1	107	
2	108	
3	138	

4) สามารถกำหนด Conference Group Auto Answer setting สำหรับ Receiving the paging call:

Conference Group

Member List Timed Broadcasting

Conference Group Number	Conference Group Name	Broadcast Mode	Ability to Talk	Automatic Answer w/o Extension Setting
1		Disable	Enable	Enable

Note : If receiving group includes SIP terminals without auto-answer option, the device will ring and until Timed Reminder ringing duration setting.

Timed Broadcast

Recorded message สามารถตั้งเวลาในการ Broadcast แบบ automatically ไว้ก่อนได้

Conference Group

Member List **Timed Broadcasting**

Hour | **Minute**

AM	00	01	02	03	04	05	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14
	06	07	08	09	10	11	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
PM	12	13	14	15	16	17	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
	18	19	20	21	22	23	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59

Timed Broadcasting

No.	Setting	Start Time	Conference Group	OGM Number	Repeat Counter
1	Enable	13:22	1:	1:5801:DISA 01	1
2	Disable	00:00	1:	1:5801:DISA 01	1
3	Enable	00:00	1:	1:5801:DISA 01	1

Group: 1-8

DISA OGM No. 1-64

Repeat Counter: 1-9

System reserved bit **20-3** :

"**Enable**" = no announcement during Night time service mode (including Night mode due to holiday table).

"**Disable**"(Default) = announcements every day regardless of time service.

Timed Broadcast

เวลาในการทำงานแบบ "Alarm Ringing Duration" กำหนดเวลาเดียวกันกับ "wake up calls" (Timed Reminder).

Timed Reminder

Repeat Counter	:	3	▲▼
Interval Time (x10s)	:	3	▲▼
Alarm Ringing Duration (x10s)	:	3	▲▼

Option 99

 1F-3 Send the name of the user group to PRI and SIP trunk.

System Option 99	Reserved Bit 0E-7		To PRI / SIP Trunk
Disable (Default)	Disable (Default)	→	Extension name *1
	Enable	→	Trunk name (Not for emergency call)
Enable	--	→	User Group name *2

Note: *1) Name is not notified when CLIR is enabled to restrict number presentation.

*2) Name is notified even when CLIR is enabled.

This improvement works when “Apply type 2 to UM E-mail format” is Enabled.

Option 99

1F-2 Apply type 2 to UM Email format.

Improvements described at slide 28-31 are applied when “Apply type 2 to UM E-mail format” option box is ticked (Enabled).

- 1) Phone Number instead of Long description**
- 2) Caller Name instead of Mailbox Name**
- 3) Caller name/number are recorded, even if extension caller deposits message directly to mailbox using #6 UM special key sequence.**
- 4) 3 x e-mail address per setting window can be set by using “,” as separator for target e-mail addresses.**
- 5) When UM sends notifications without .wav file attached, e-mail body describes brief mailbox status with caller number.**

NSv7 Reserved Bit now available in System Options – Option 99

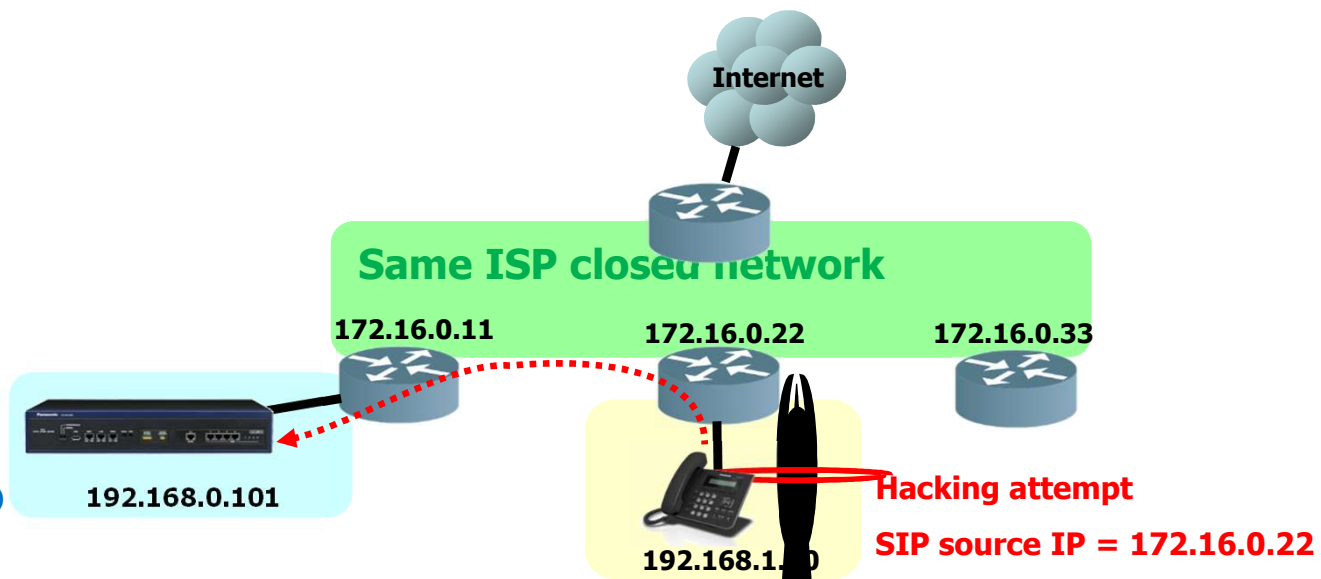
Option 99 1F-6 Enable the MRG remote function of the IP phone in the same Internet provider.

From NS version 7, an additional IP security control option (**Reserved Bit 1F-6**) is available to restrict access to "Local" ports from private IP Subnets that are in a Different Class to the PBX.

This helps to prevent potential attacks from within wide area networks or with same Service Provider networks.

When IP phone is located via a Different Class IP Subnet to the PBX then registrations to "Local" ports are blocked

- Private IP subnet address ranges:
- 10.0.0.0 - 10.255.255.255 (Class A)
 - 172.16.0.0 - 172.31.255.255 (Class B)
 - 192.168.0.0 - 192.168.255.255 (Class C)



Panasonic
BUSINESS

Available in
2019

SIP Conference Phone

KX-HDV800



KX-HDV800 Conference Phone

Panasonic
BUSINESS



Key Features

- **Connectable as a PBX terminal as well as a device for hosted service**

KX-NS and NSX series are compatible with the device.

- **High Quality Sound with Omnidirectional Mic.**

KX-HDV800 mounts the 360 degrees omnidirectional microphone that enables stress-free phone conference.

- **Integration with UC Application**

It is workable as a USB audio device by connecting with PC. If the PC installs phone application like UC Pro or IP Softphone, You can simply use KX-HDV800 as an audio device.




- **Integration with Smartphone Application**

You can control the device with the designated smartphone app. It also can integrate with the native phonebook in smartphones.

- **Conference Recording to SD Card**

You can manage to record the conference call to SD card locally without any services. (35 ชั่วโมง/ 1 GB)

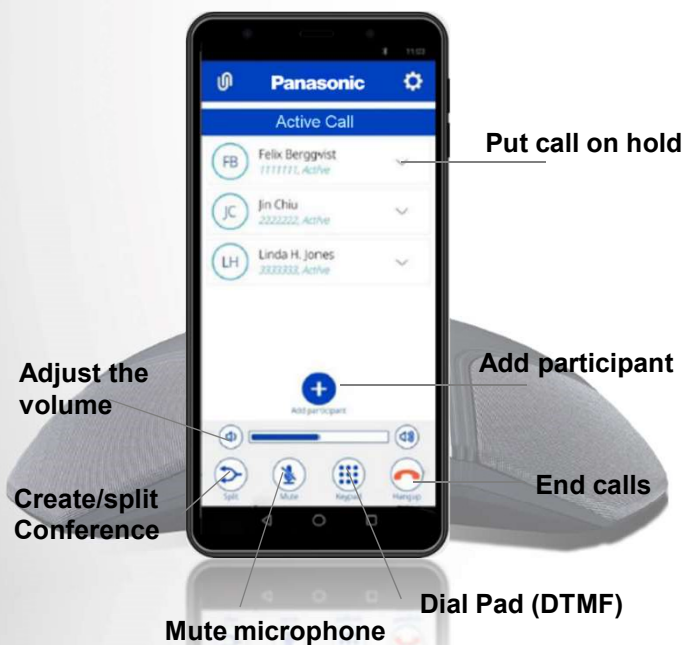
KX-HDV800 Comparison vs Competitor's Models

	Panasonic KX-HDV800	Yealink CP920	Polycom IP6000
			
Connection Protocol	SIP	SIP	SIP
External Phonebook (LDAP)	✓	✓	✓
Making Multi-party Calls	✓	✓	✓
Conference Capacity	Mid (Below 20people)	Mid (Below 16people)	Mid (Below 12people)
Microphone	1 (Omnidirectional, 360°)	3	3
Expansion Microphone	✓	✓	✓
Max. number of conf. calls	4	4	2
Ethernet I/F	10/100M x1 port	10/100M x1 port	10/100M x1 port
PoE	✓	✓	✓
USB	✓	✓	
SD Card (Conf. Recording)	✓		
Control by Smartphone App	✓		

Panasonic Conference-phone Application (Con-App)

Intuitive conference call control with intuitive GUI smartphone application.

Supported OS	
iOS	iOS 11 or later
Android	Android 7 or later
Interface	
Connection between KX-HDV800	Bluetooth
Call Control	
Make call with dial pad	Yes
Make call with contact list (Native phonebook integration)	Yes
Prefix dialling	Yes
Speaker volume control	Yes
Mute microphone	Yes
Add participants during conference	Yes
Hold / Hand-up	Yes
Call History	Yes
Others	
Language	English, French, Spanish, Portuguese, Russian, German, Italian, Turkish, Swedish, Norwegian, Finnish, Polish, Dutch, Danish
Native calendar integration	Yes
Contact List	Yes
Collects and send log via e-mail	Yes





HDV430 XML app demo for Hotel

Hotel Guest room solution - Concept



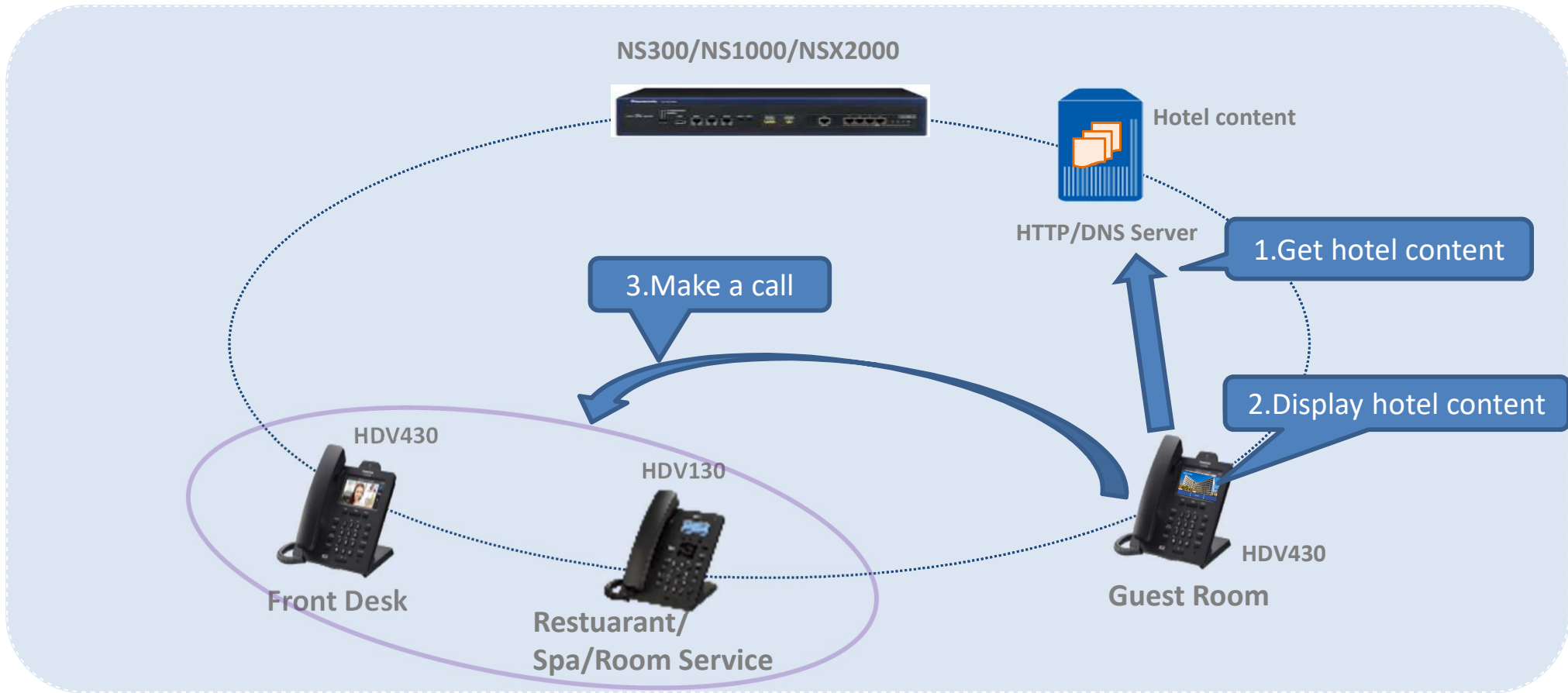
Display
Hotel Content
(ex restaurant)

- Display hotel promotion
- Display hotel Information
- Reserve restaurant/spa
- Call room service
- Call front desk



Call
restaurant

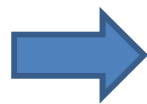
Diagram



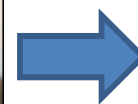
Hotel Promotion and Information



Hotel Promotion
(Top page)



Hotel Information



Service Information

Restaurant

- 6am - 12am 36th floor

Spa, Beauty Salon

- 9am - 9pm 10th floor

Room Service

- Serve Food and Laundry

<- Back ->

Service Information

Access Map

<- Back ->

Access Map

Restaurant



Restaurant



Restaurant Information



Meat



Italian



Seafood



Call restaurant

Spa Beauty Salon, Room Service, Front Desk



Spa, Beauty Salon



Front Desk



Room Service



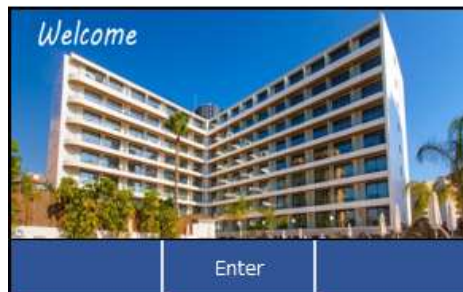
Appendix



Appendix

File	Description
xml_demo.zip	XML content for Hotel
Installation_manual.pdf	How to install this below <ul style="list-style-type: none">▪ DNS/HTTP server▪ XML content for HTTP Servier▪ HDV430 for XML app How to change XML content <ul style="list-style-type: none">▪ image/softkey name▪ call number▪ timer

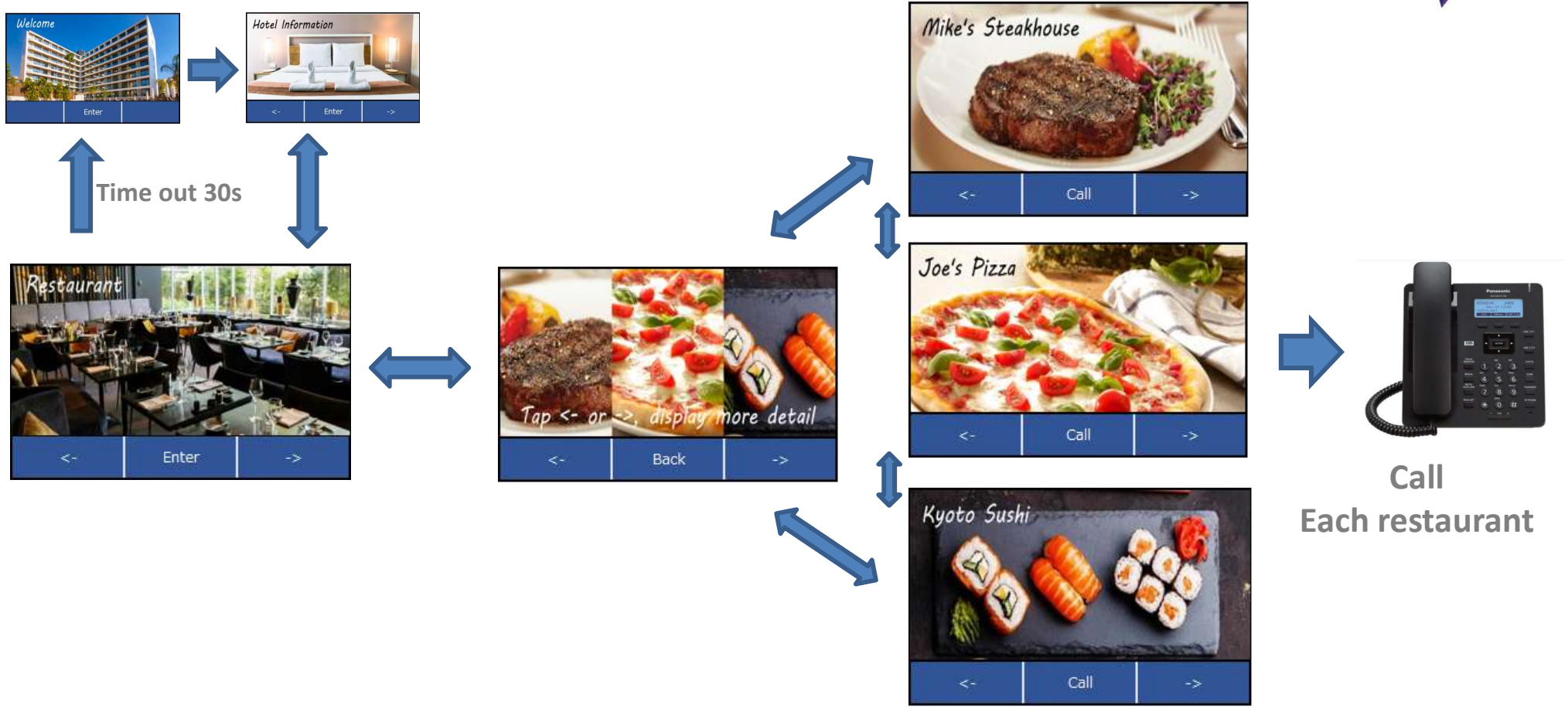
Flow – Hotel Promotion and Information



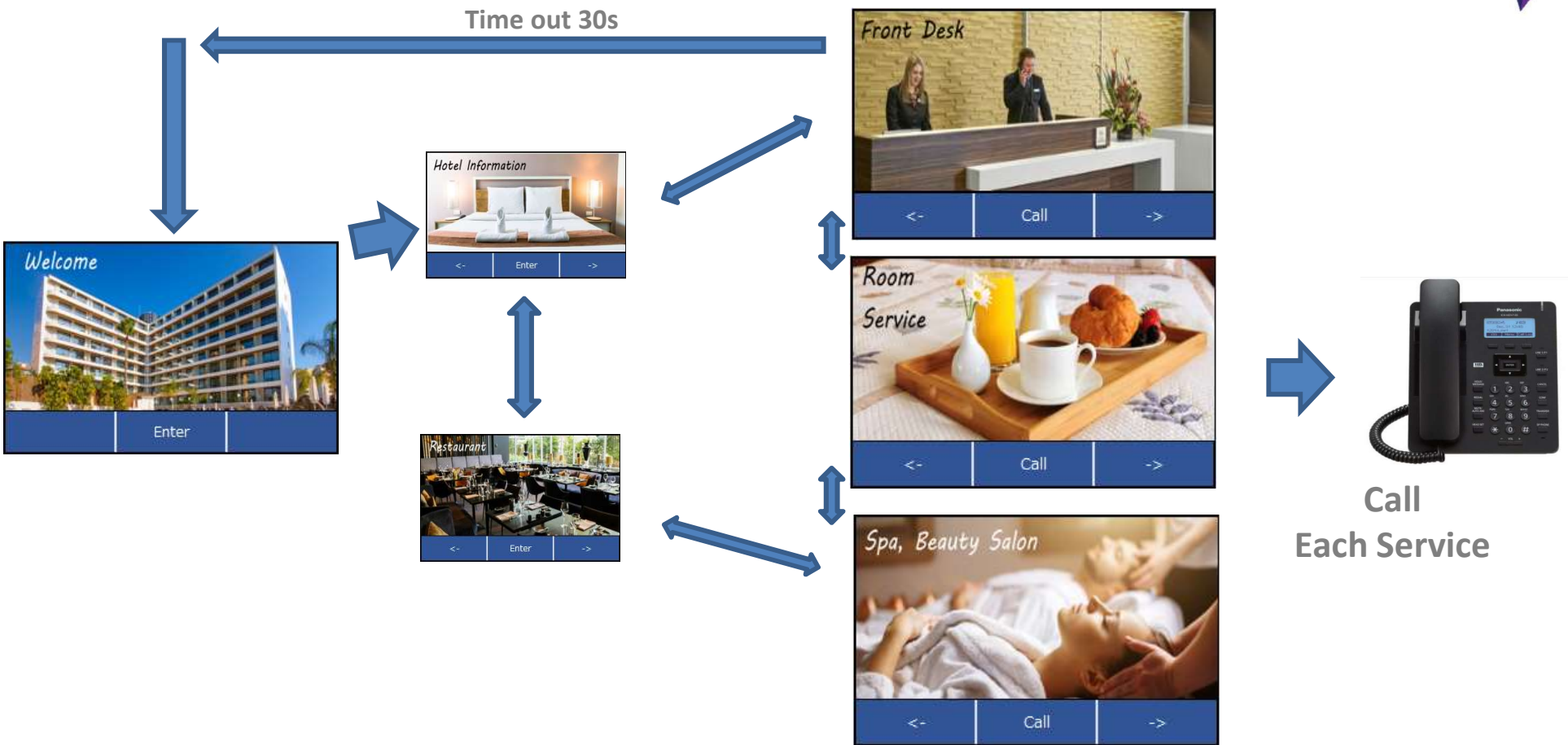
Time out 30s



Flow – Restaurant



Flow – Spa, Room Service, Front



ขอบคุณครับ