ที อี เอ็น พีเอบีเอ็กซ์ / TeN PABX ปรึกษา / สอบถาม / แจ้งซ่อม: Hotline: 089-1454237 E-mail: tawintra.kawintra@gmail.com www.tenpabx.com

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

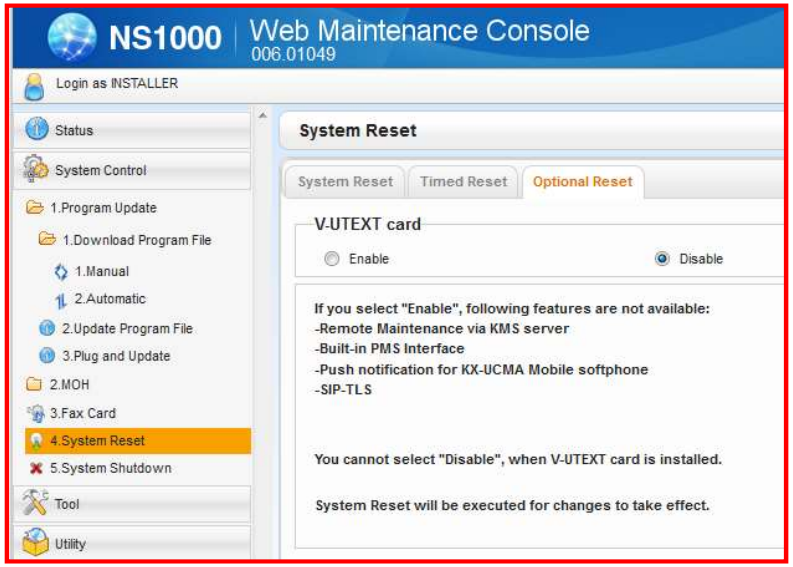
2019

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

December 2018

Panasonic ข้อควรระวังก่อนการใช้งาน Version 7

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



<u>เมื่อเปลี่ยน Mode จะต้องทำการ Restart PBX ด้วยนะ</u>

< 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

Panasonic Introduction

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.**

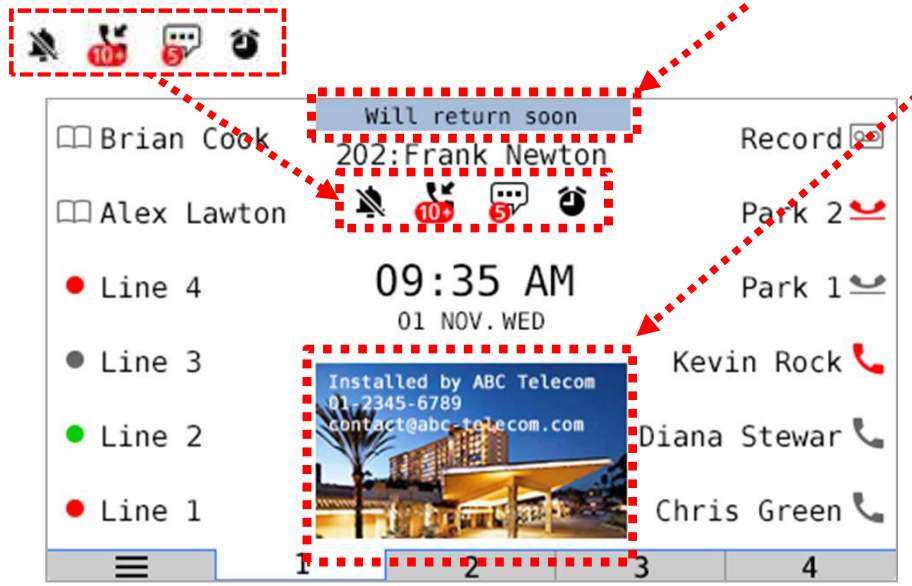
Panasonic Color LCD

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



สามารถแสดงรูปภาพเพื่อการโฆษนาหรือการปรับปรุงภาพลักษณ์ขององค์กร. สามารถ downloaded ภาพผ่าน PBX

-การสนทนาด้วยเสียงพร้อมVideo co และ ดูภาพผ่านกล้อง (camera)

ไม่สามารถทำได้

-ไม่รองรับ Touch Panel

No possibility of future enhancement due to hardware limitation

Panasonic Color LCD

NT630	NT680	Other PT
No	**Yes**	No

Color LCD รองรับฟังก์ชั่นการทำงานที่มากขึ้นและใช้งานได้ง่าย

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

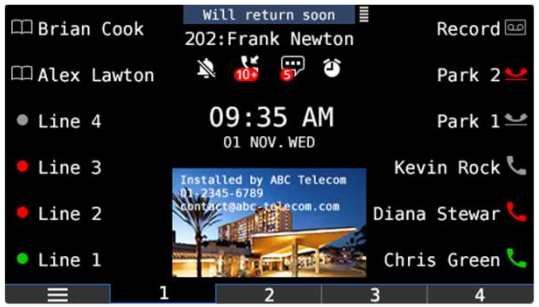
Unread Voicemail > 0

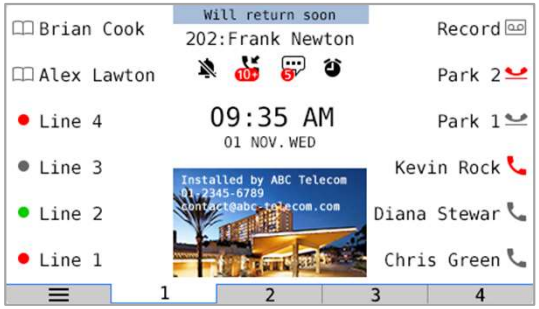
Alarm On. เวลาปลุกที่ตั้งไว้จะแสดงให้เห็นบนหน้าจอ

Panasonic Color LCD

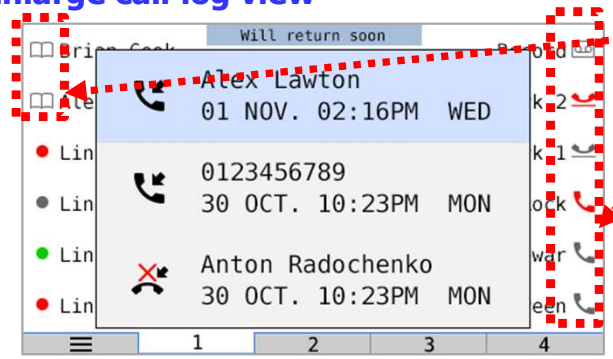
NT630	NT680	Other PT
No	**Yes**	No

สามมารถเลือกสีได้ระหว่าง ดำหรือขาว (Black or White)





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

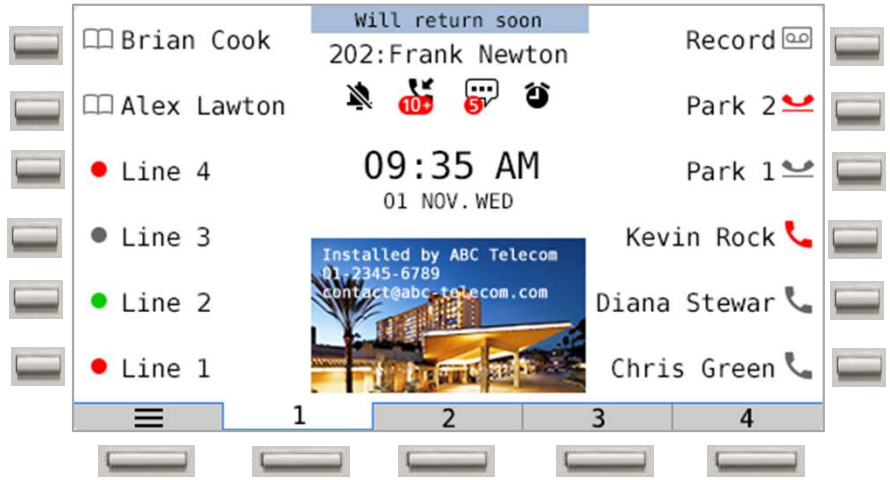
Panasonic One touch access Key

NT630	NT680	Other PT
Yes	Yes	No

One Touch access key สำหรับแต่ละหน้าจอ

KX-NT630 supports 4 pages x 6 keys.

KX-NT680 supports 4 pages x 12 keys.



Panasonic One touch access Key

NT630	NT680	Other PT
Yes	Yes	No

One touch access key for “PT Programing”

สามมารถใช้ปุ่ม Pause ทำงานแทนปุ่ม “PAUSE / PROGRAM” สำหรับ KX-NT630/680 เพราะไม่มีปุ่ม “Program”

Up-to-date Log & Directory access

NT630	NT680	Other PT
Yes	Yes	No

Quick access โดยปุ่ม Navigation

[Up]

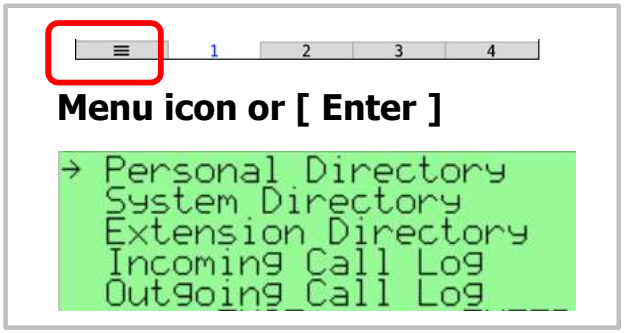
Ringer adjustment

[Left]
Incoming call log

[Right]
Outgoing call log

[Down]

Extension Directory



[Auto Dial]

System Directory

Up-to-date Log & Directory access

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.

Creating image for stand-by screen

NT630	NT680	Other PT
No	**Yes**	No

Step 1) เตรียมรูปที่ต้องการผ่านโปรแกรม Power Point หรือ Excel

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

Step 3) วางลงบน MS Paint.

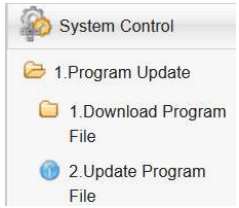
Step 4) กำหนดภาพขนาด 16:9 และ save เป็นไฟล์ PNG

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

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

Step 5) Transfer ไฟล์ PNG ไปที่ PBX เหมือนทำ firmware upload.

=> PBX กำหนดเป็นไฟล์ชื่อ "PNTPICT"



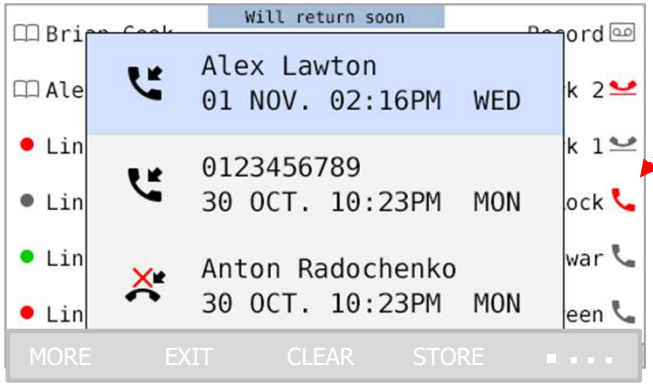
Step 6) Transfer จาก PBX to KX-NT680 เหมือน firmware update.

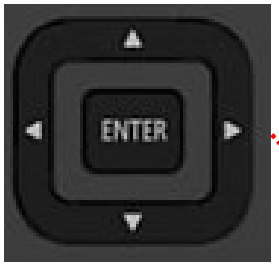
=> Picture จะถูกปรับเป็น 16:9 อัตโนมัติ.

Panasonic LCD Example of KX-NT680

NT630	NT680	Other PT
No	**Yes**	No

[Left] Incoming call log

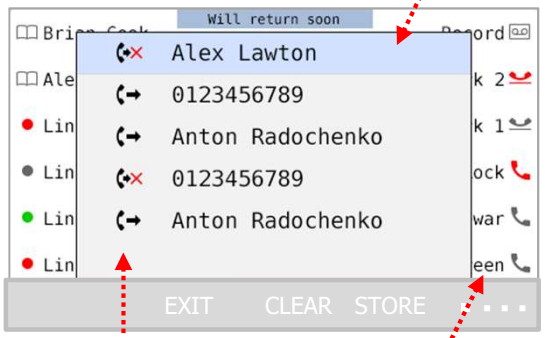




Direct page selection

KX-NT630 has fixed page key as well.

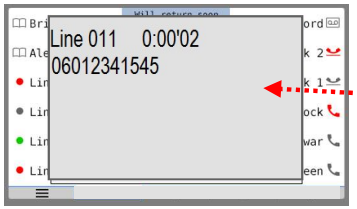
[Right] Outgoing call log
Name is displayed basically.



Iconจะแสดง “Answered” และ “Not Answered”.

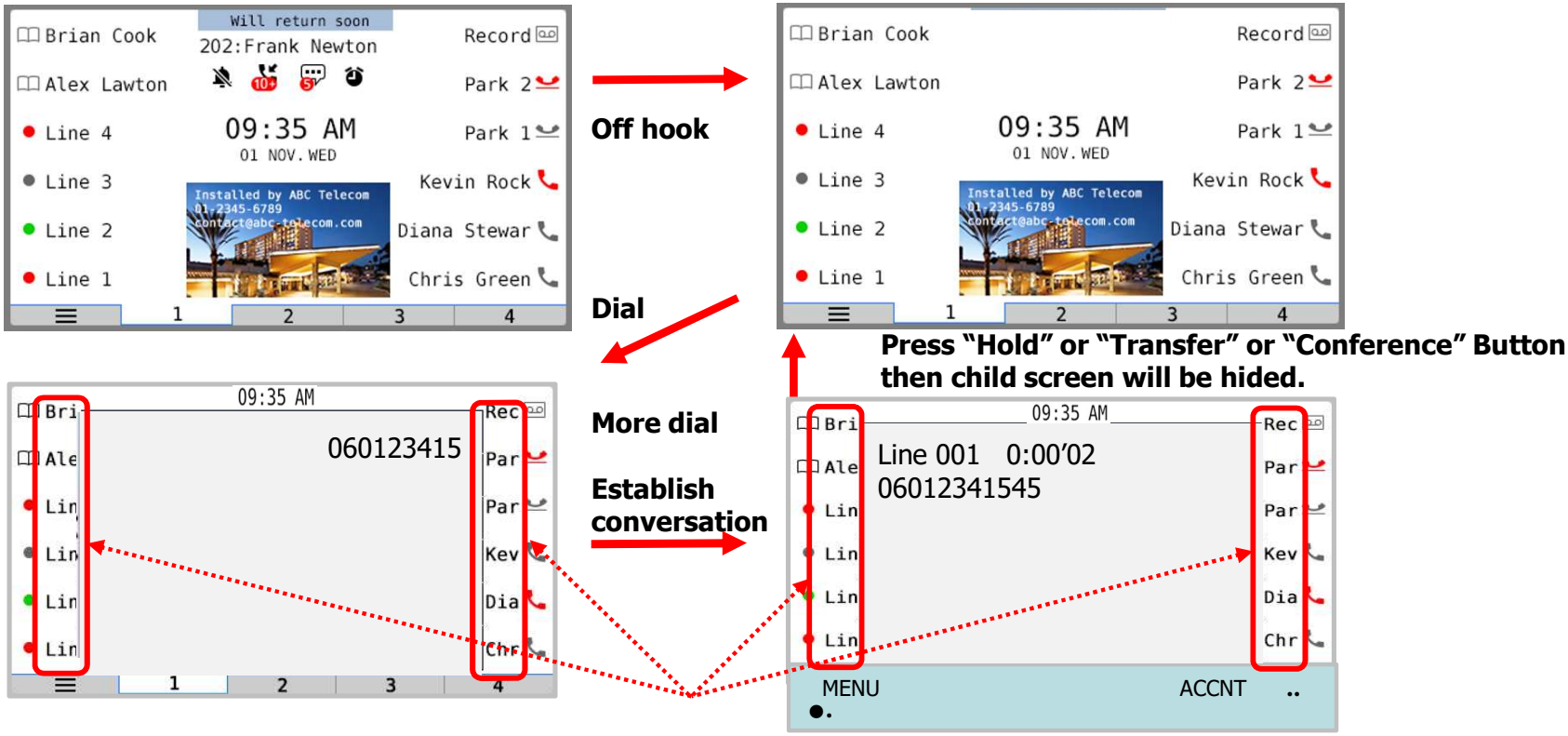
แสดงชื่อ3 ตัวอักษรแรก

Other display is same as KX-NT556.



KX-NT556
Talking for example

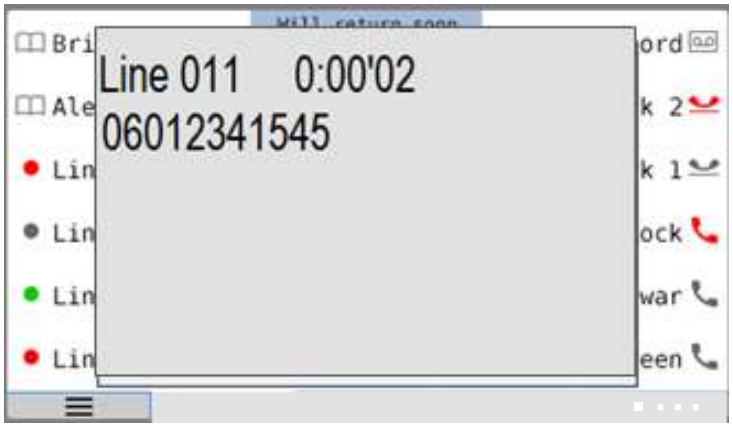
Panasonic Operation Example of KX-NT680



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

Stay same page while incoming call present key at 2-4 page

Automatic switch page Mode (default : Disable)

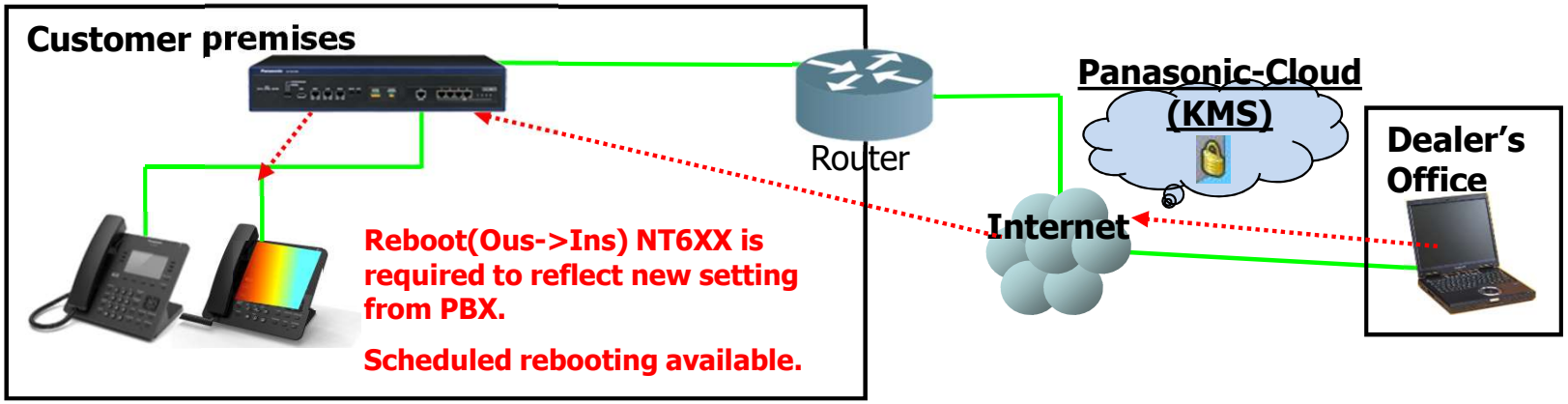


KX-NT6XX series ค่าจากโรงงาน ไม่สามารถเปลี่ยนหน้าอัตโนมัติ เมื่อมีสายเรียกเข้ามา

Panasonic NT Local Setup ผ่านโปรแกรมบน PBX

NT630	NT680	Other PT
Yes	Yes	No

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



Panasonic One touch access to VM

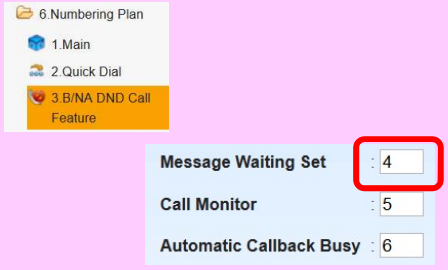
NT630	NT680	Other PT
Yes	Yes	Yes

One touch access to VM (Built-in UM)

ปุ่ม Message key ทำงานแบบ VM key. (Default)
สามมารถเลือกการทำงานระหว่าง "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.

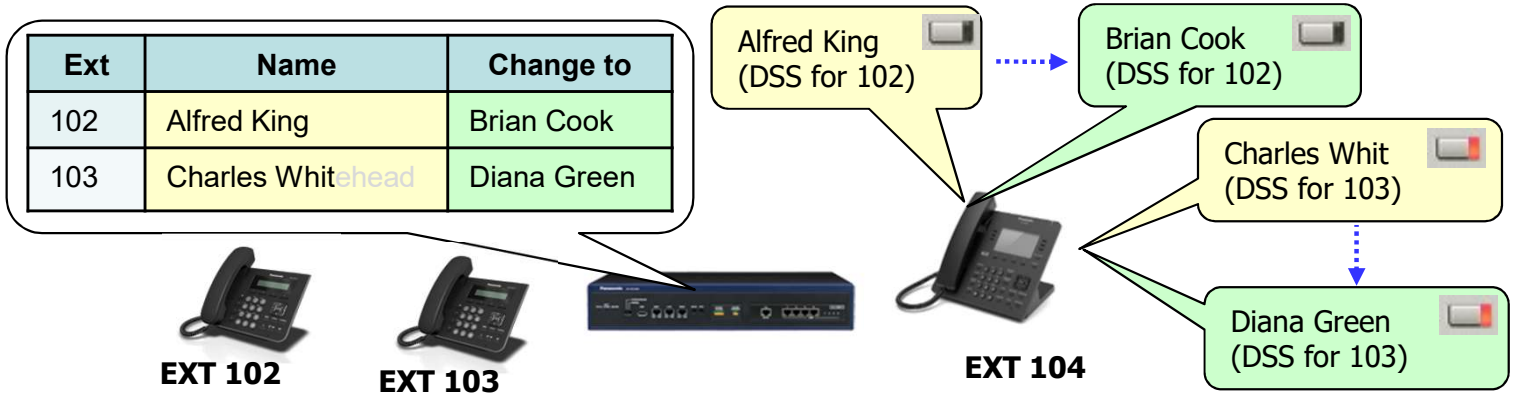


Automatic Label Revise for DSS key

NT630	NT680	Other PT
Yes	Yes	Yes

การเปลี่ยนชื่อที่โทรศัพท์แบบคีย์และ NT ทุกเครื่องทันทีเมื่อมีการโปรแกรมชื่อใหม่

Ext	Name	Change to
102	Alfred King	Brian Cook
103	Charles Whitehead	Diana Green



2.Encryption

SRTP & MGCP-TLS for NT6XX series

SRTP และ MGCP-TLS รองรับการทำงานเฉพาะ Remote NT6XX

NT630	NT680	Other PT
Yes	Yes	No

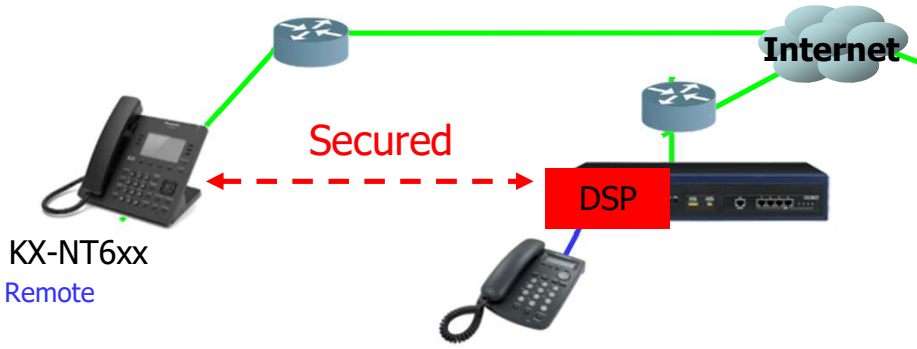
SRTP : Secure Real-time Transport Protocol สำหรับ Voice data
MGCP-TLS : Operation process information เช่น caller ID is encrypted.

-SRTP สามารถ Enabled แต่ละ IP extension port by web programming. MGCP-TLS จะ enabled อัตโนมัติ เมื่อ Enable SRTP

-P2P จะ Disable อัตดนมัติเมื่อ Enable SRTP . Voice packet จะสนทนาผ่านการ์ด DSP

-เมื่อมีการใช้งาน SRTP จะต้องพิจารณาเพิ่ม Resource ของ DSP

Codec	No SRTP	SRTP
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.

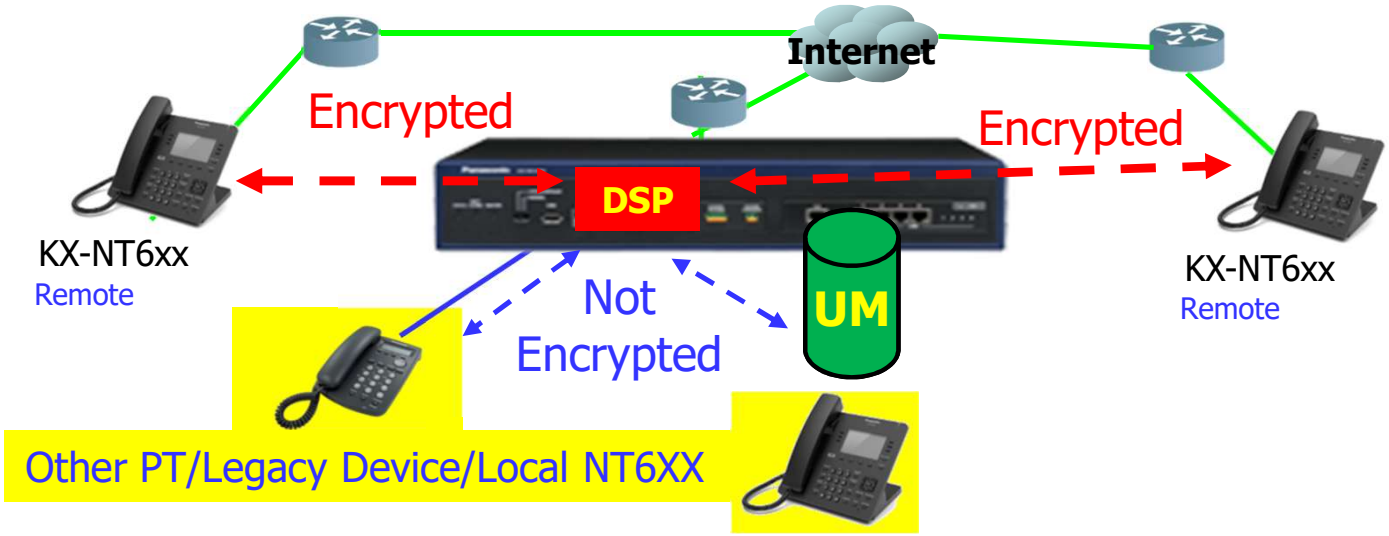
SRTP & MGCP-TLS for NT6XX series

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.

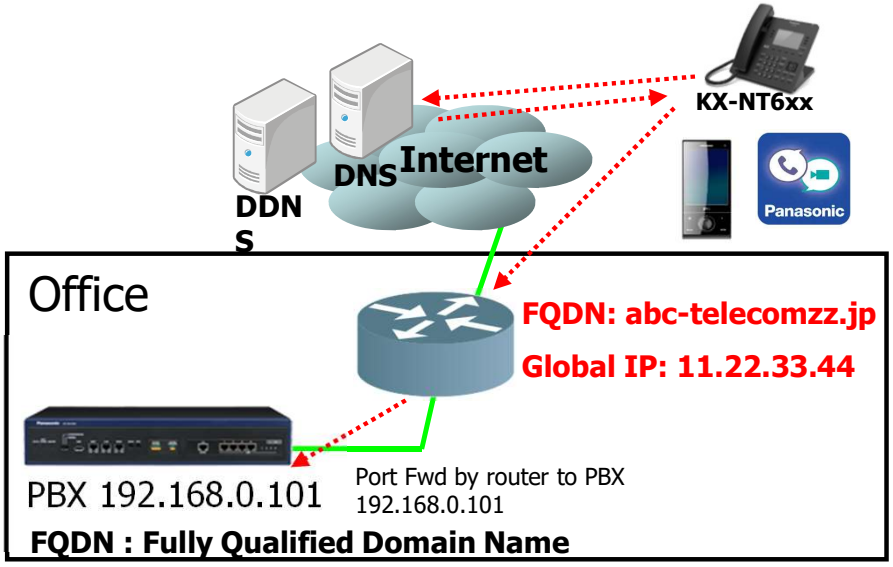


3.FQDN
Fully Qualified Domain Name

FQDN

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

Panasonic

FQDN

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.

Panasonic

DNS Server Setting

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

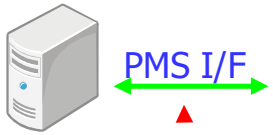
Default GW	*192.168.0.4*
DNS-1	*192.168.0.4*
DNS-2	*0.0.0.0*

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.

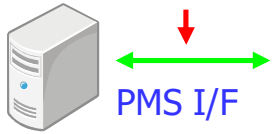
Opera by former Fidelio
(Current Oracle Hospitality)



PMS I/F

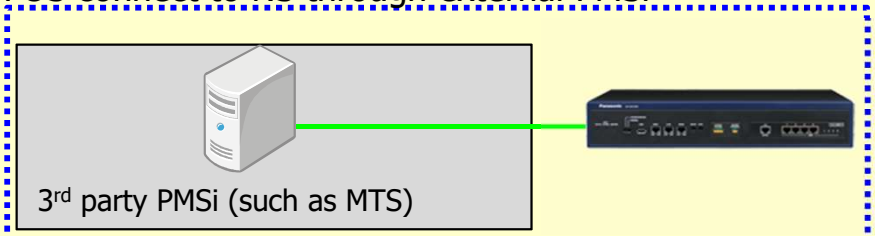
Same I/F

Fidelio compatible application
(by Juru data and so on)



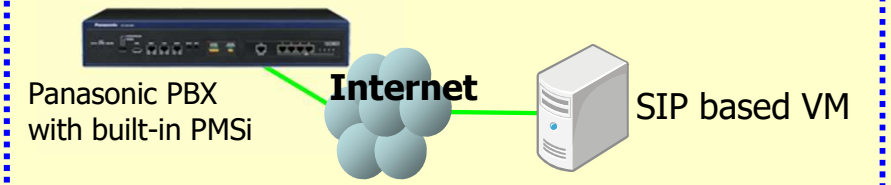
PMS I/F

FOS connect to NS through external PMSi



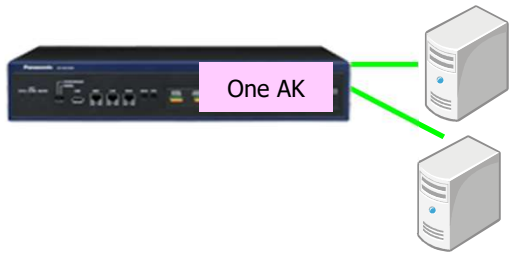
or

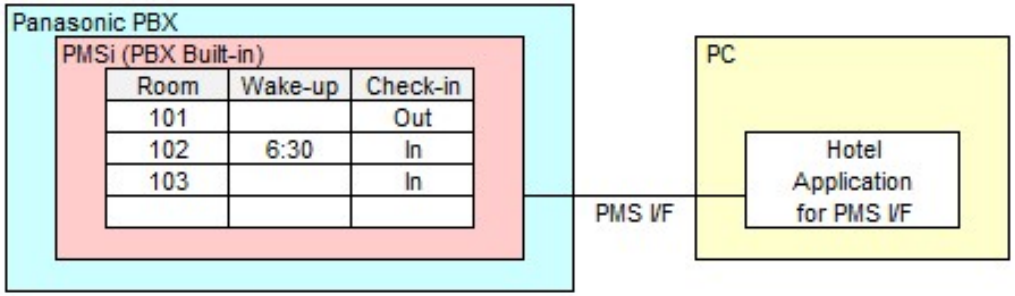
FOS directly connect to NS



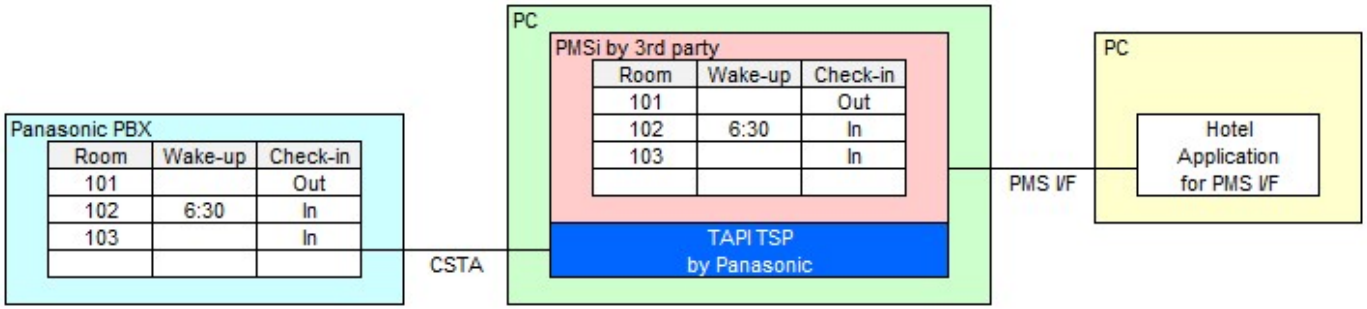
Built-in PMSi (Already supported)

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.

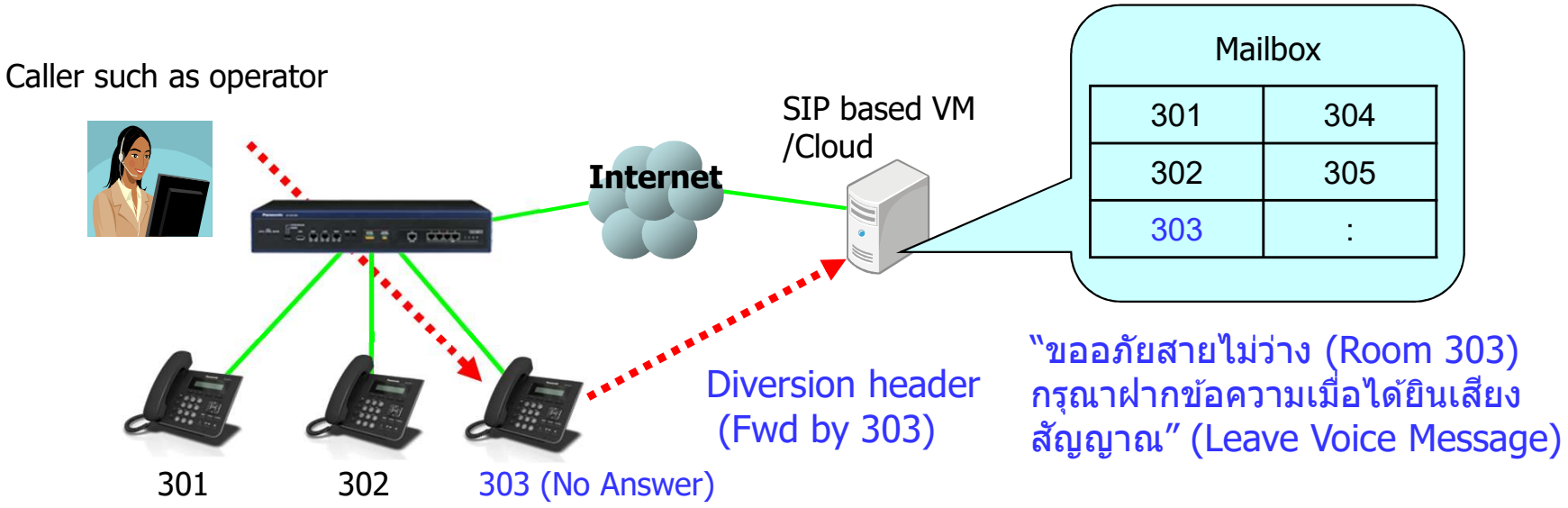


Panasonic Other Improvement for Hotel

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) .

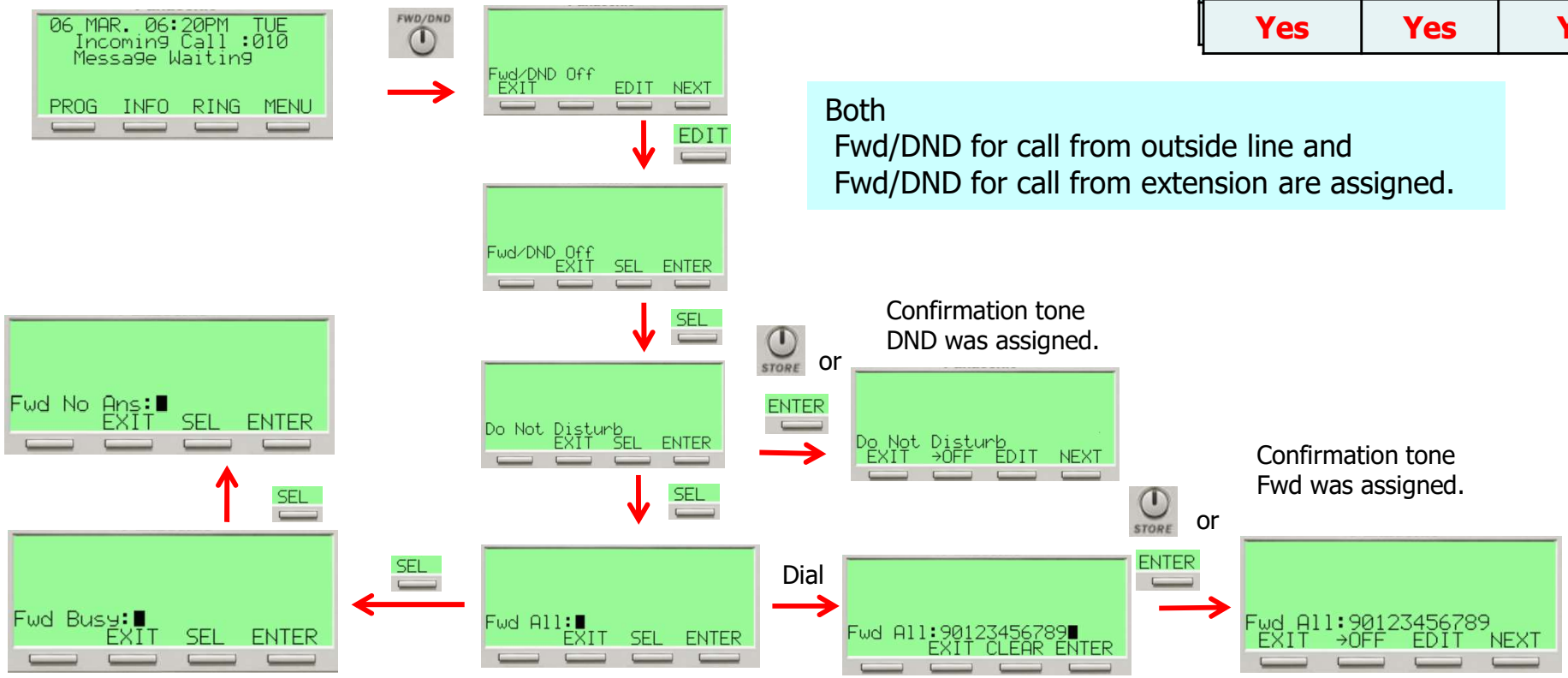


5.FWD/DND Ease to Set

FWD/DND set first time

FWD/DND can be assigned as follows.

NT630	NT680	Other PT
Yes	Yes	Yes

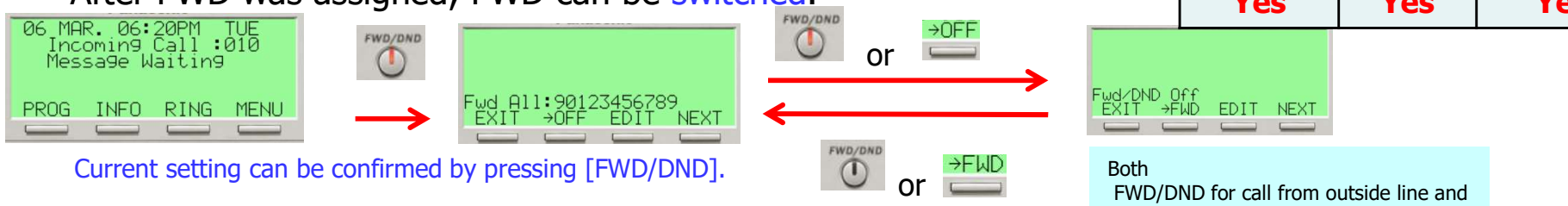


Both
Fwd/DND for call from outside line and
Fwd/DND for call from extension are assigned.

After FWD/DND Set

NT630	NT680	Other PT
Yes	Yes	Yes

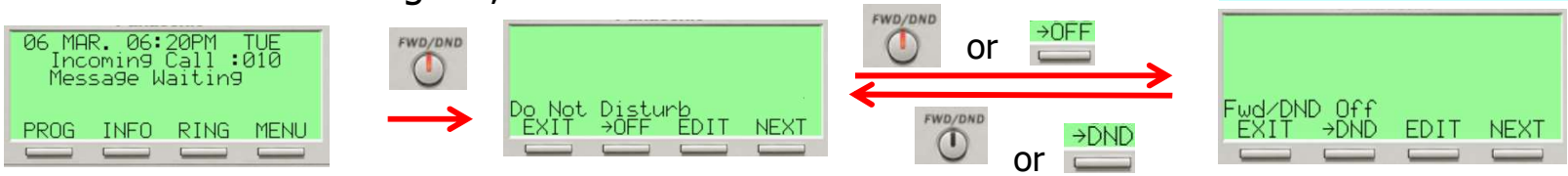
After FWD was assigned, FWD can be switched.



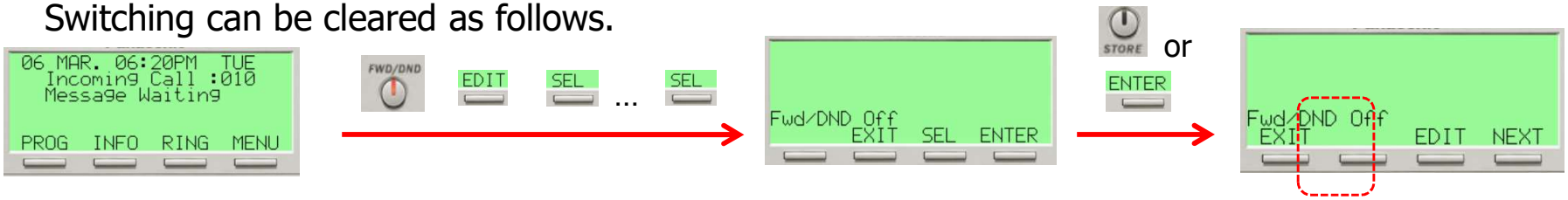
Current setting can be confirmed by pressing [FWD/DND].

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.



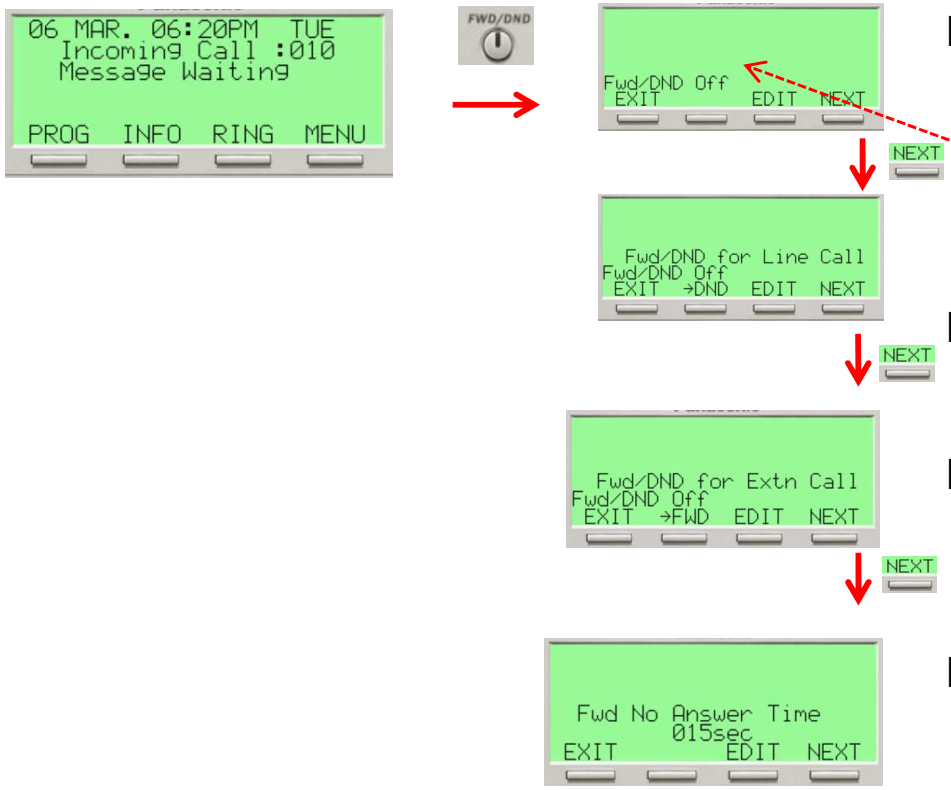
Switching can be cleared as follows.



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

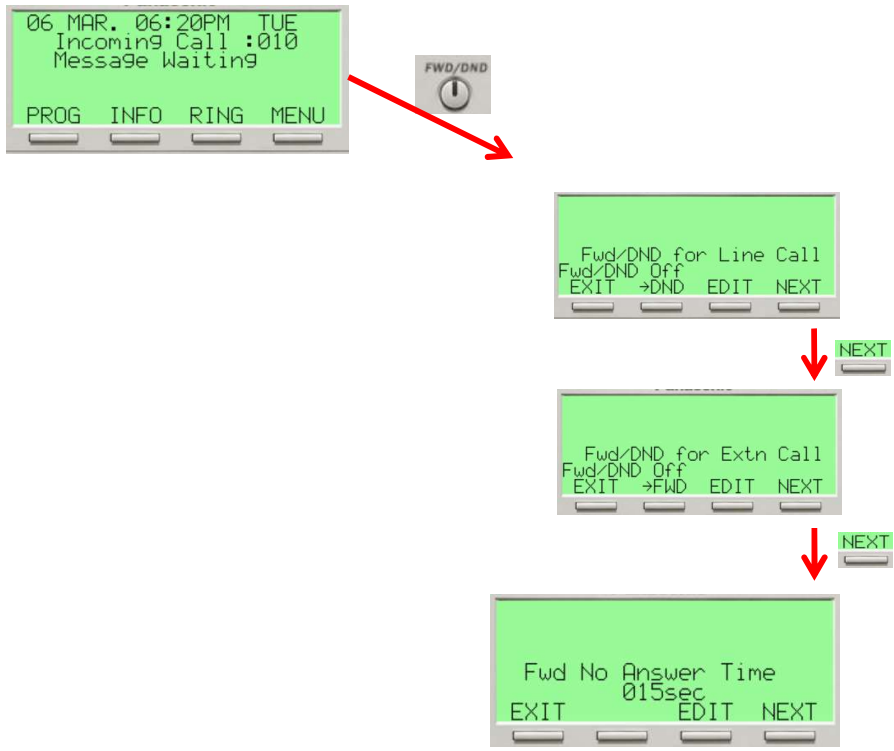
FWD/DND for call from extension

FWD no answer time

Panasonic 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

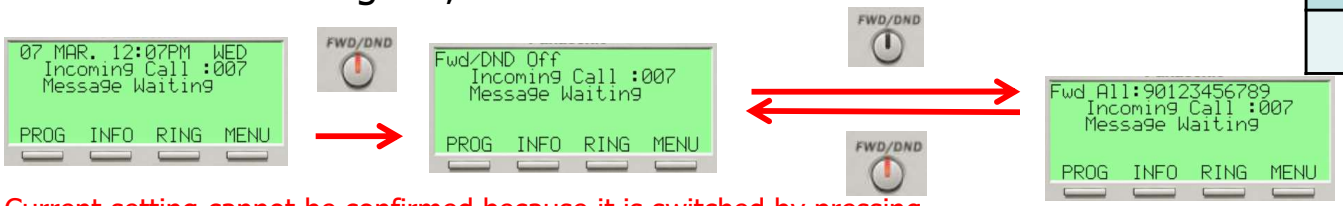
Fwd/DND for call from extension

Fwd no answer time

Panasonic FWD/DND Cycle Switch (Original Operation)

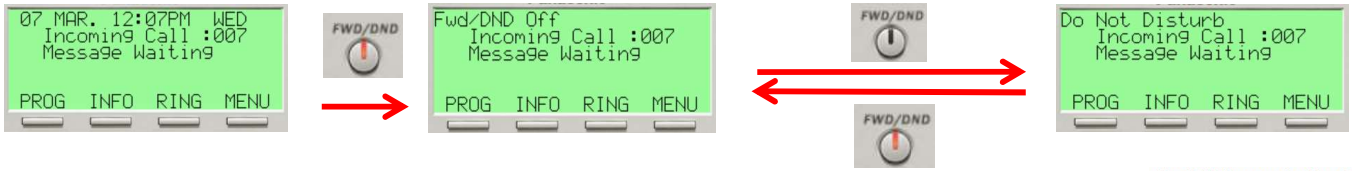
NT630	NT680	Other PT
Yes	Yes	Yes

After Fwd was assigned, Fwd can be switched.



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.



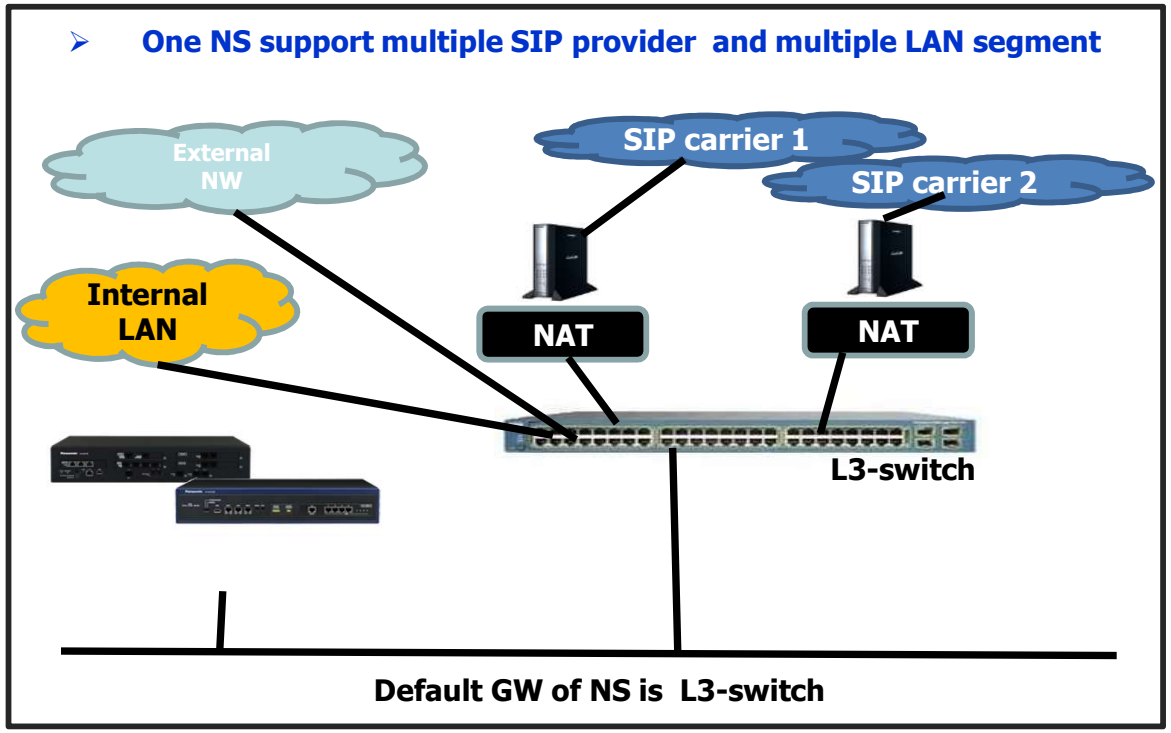
Switching can be cleared as follows.

6.Other

Panasonic

Multiple NAT for SIP GW

Multiple LAN network support



สามารถกำหนดใช้งานได้สูงสุด 8 Multiple SIP carrier (ผู้ให้บริการ)

UPnP

UPnP function for SIP trunk (NAT traversal)

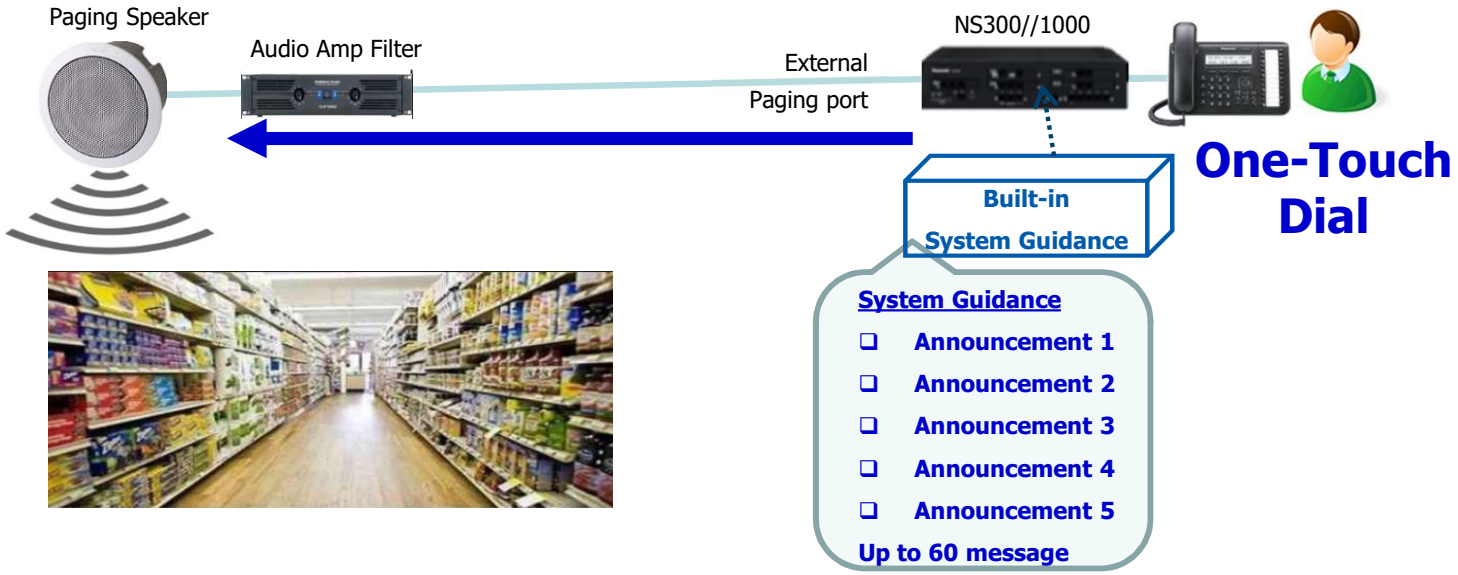
[Background]
Because of some reason, edge router for SIP trunk's WAN IP address may change. Since NS need global IP for NAT Traversal of SIP Trunk, if global IP of edge router change, it is required to change NAT traversal setting (IP Addr.) manually.
It is very inconvenient for SIP trunk customer, also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

Panasonic Automatic Paging System

No additional feature AK is required.

การประกาศไปที่ External Paging โดยใช้ข้อความใน Prompt ของ Voice Mail



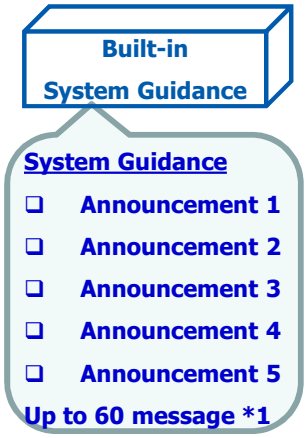
การทำงานนี้ต้อง 2 Channel ของ UM สำหรับการประกาศไปที่ 1 External Paging

1 Ch สำหรับเรียกไปที่ Voice Mail

1 Ch สำหรับนำเสียงจาก Voice Mail ไปที่ External Paging

Panasonic Automatic Paging System

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



**1:Up to 60 messages*

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

Panasonic Automatic Paging System

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

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

PT/PS/KX-UT133/KX-UT136/KX-UT248/KX-UT670/S-PS

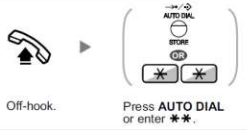
Customising Your Phone

- 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.

PT/SLT/PS/SIP Extn./S-PS



- 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 dialing)

-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

Panasonic Remote Web access

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.

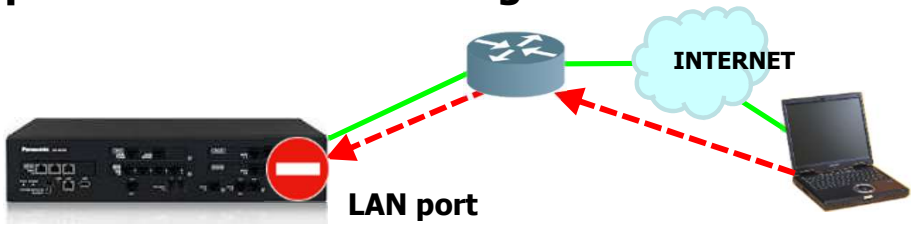
Remote maintenance via KMS is strongly recommended .

Panasonic WebMC (Web Maintenance Console)

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)

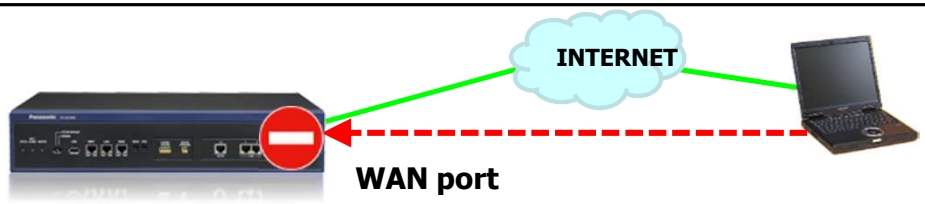
172.16.0.0 - 172.31.255.255 (Class B)

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)

Panasonic SIP-TLS

Stronger Security for SIP Devices

KX-NS series

SIP-TLS

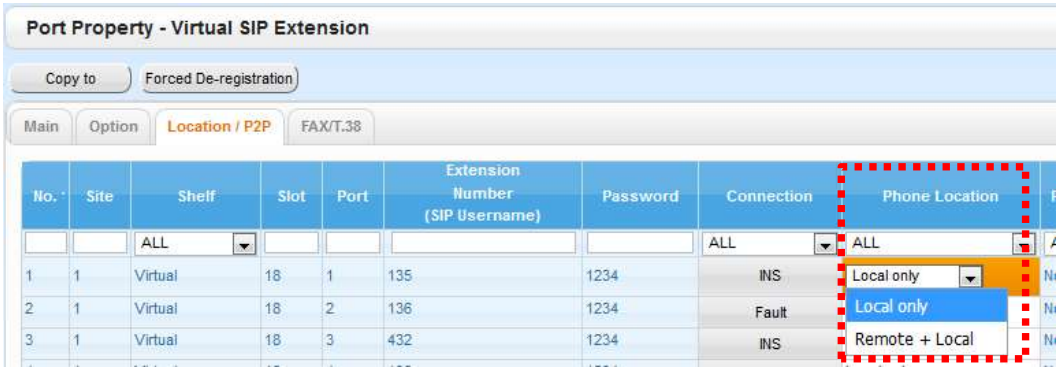
HDV Series

Mobile Softphone

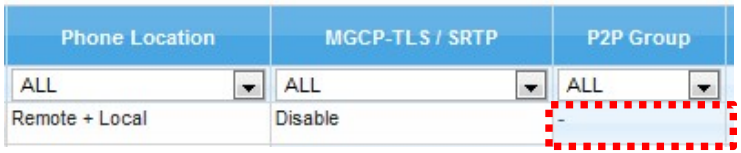
SIP-TLS สามารถทำงานได้ ทั้งภายในสำนักงาน (Inside office)และ MRG สำหรับ Remote Extension

Chapter 3
How to program?

Phone Location Setting -V-SIPEXT-

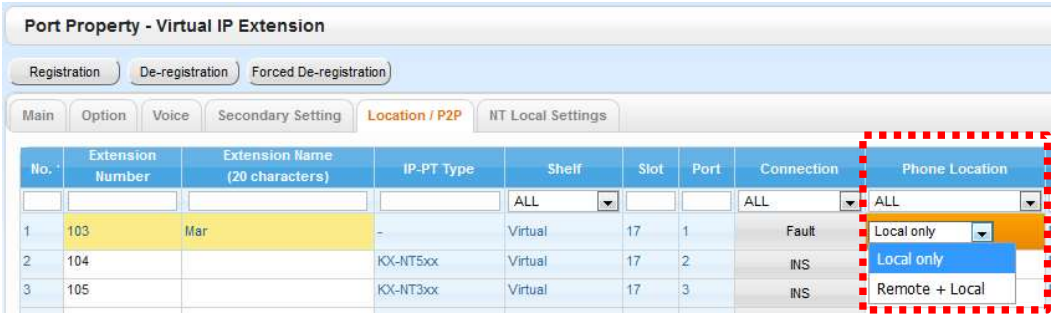


กำหนด "Remote + Local" เพื่อให้สามารถทำงานได้ทั้ง Private IP และ Global IP address



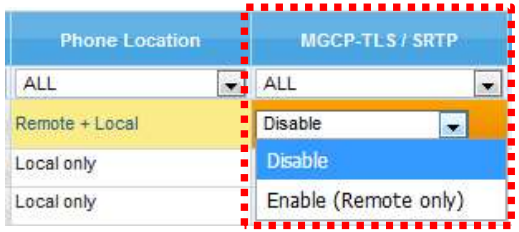
เมื่อกำหนด "Remote + Local" ต้องเลือกการทำงานผ่าน การ์ด DSP. หรือเป็น P2P Group (Peer to Peer)

Phone Location Setting -V-IPEXT-



กำหนด “Remote + Local” เพื่อให้สามารถทำงานได้ทั้ง Private IP และ Global IP address

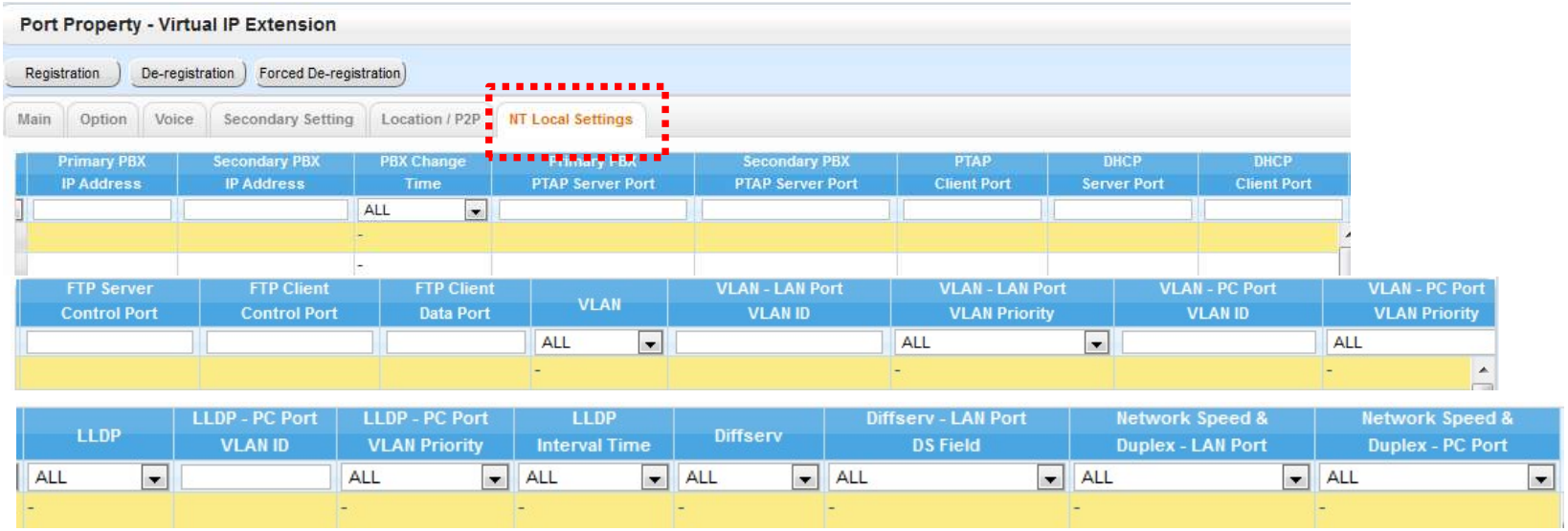
เมื่อกำหนด “Remote + Local” ต้องเลือกการทำงานผ่าน การ์ด DSP. หรือเป็น P2P Group (Peer to Peer)



MGCP-TLS/SRTP can be set

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

NT Local Setting



"NT Local Setting" tab add for NT630/680 Local setup at PBX side.
ภายหลังจากกำหนดค่าเสร็จจะต้องทำการ reboot NT phones

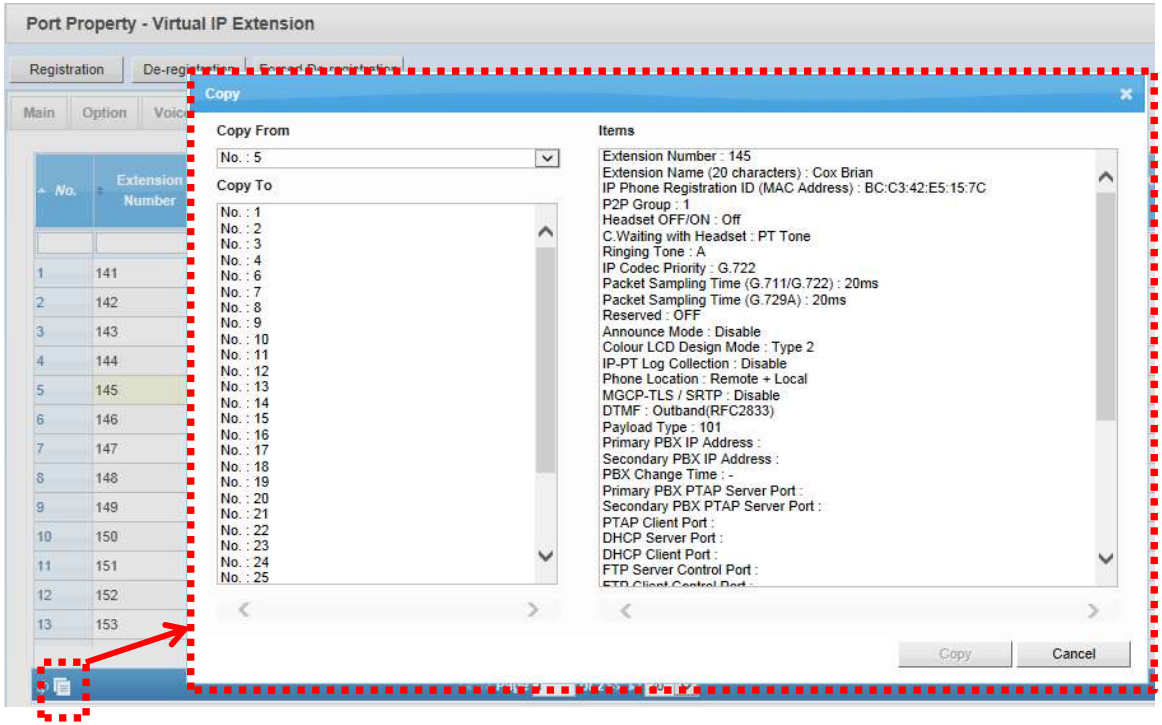
สามารถทำได้ 2 วิธี
1) ทำการ OUS/INS ใน port ที่ต้องการ
2) Timed Reboot (All NT phones reboot at once.)

NT Local Setting

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

Panasonic

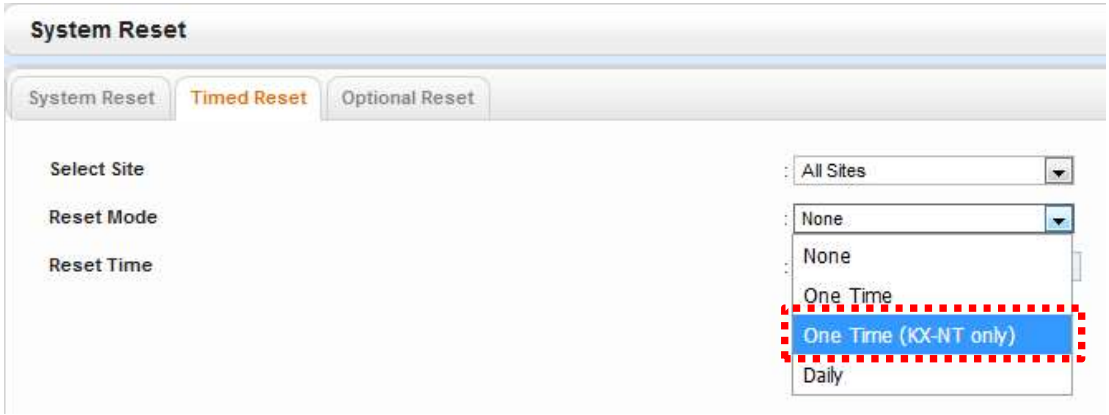
NT Local Setting



Parameter can be copied from one to other

NT Local Setting

Timed reboot (All NT phones reboot at once.)



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.

NT Local Setting

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.

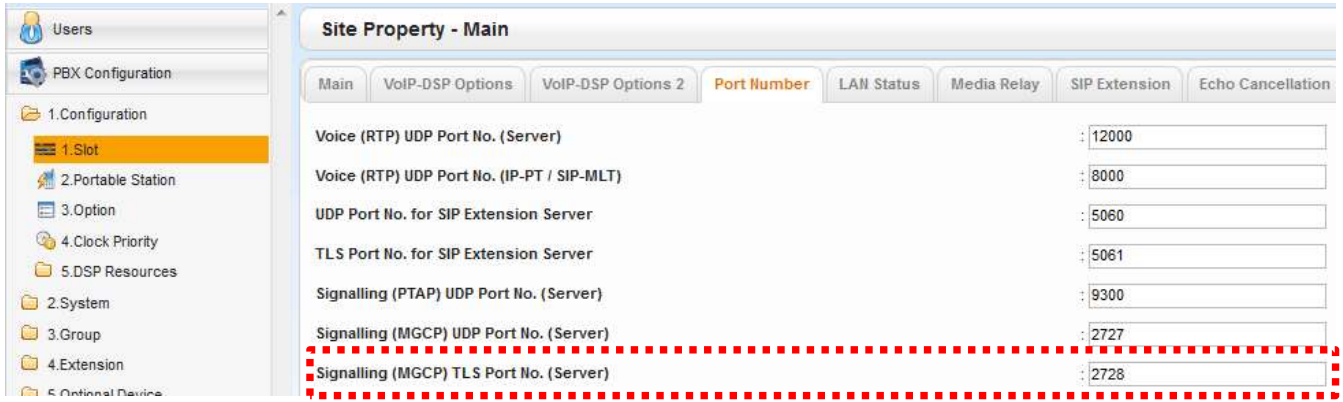
DDNS Server：http://www.mydns.jp/login.html

User Name(Master ID), Password <=Please register at the site and get ID and pass

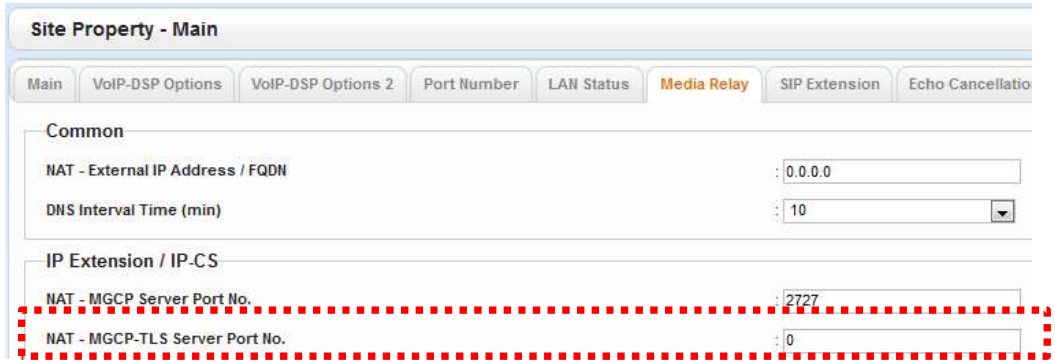
Host Name <=Please register at the site and get ID and pass

***Account will be canceled in case no use more than 1 month.**

Panasonic MGCP-TLS port Setting

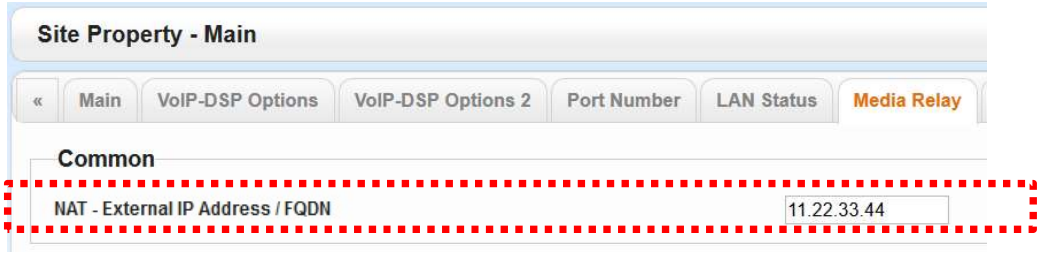


MGCP-TLS port setting is added.



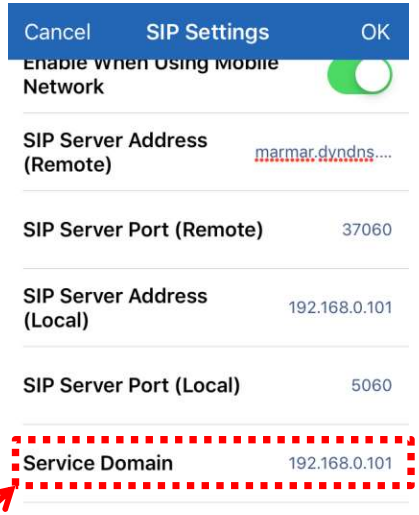
Panasonic MRG Setting

MRG



"Media Relay" – "NAT-External IP Address/FQDN "

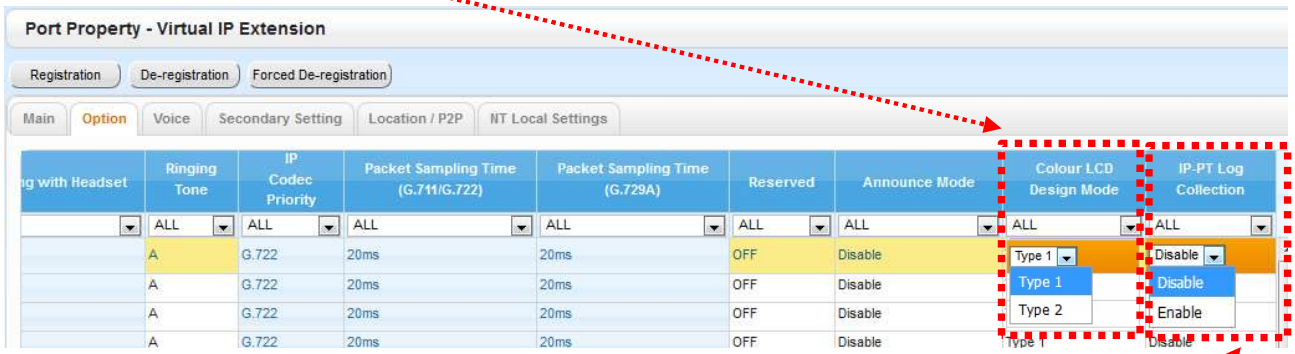
สามารถเลือกใส่ IP address หรือ FQDN



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

NT6 related Setting

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



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.

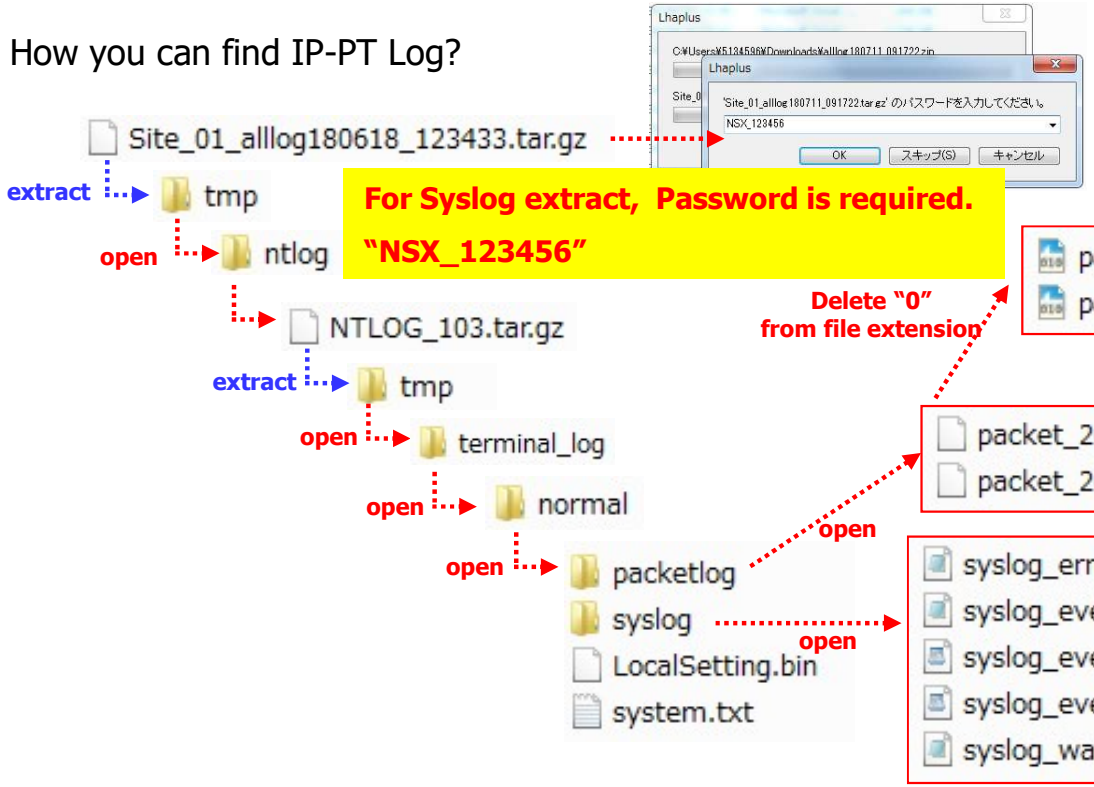
IP-PT Log Collection setting can be set all EXT however log can be collected from 10 EXT as Max.

10EXT from smallest port number EXT.

Basically it needs to set Enable for specific EXT that has an issue.

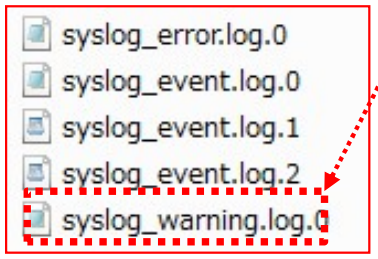
NT6 related Setting -Local Log-

How you can find IP-PT Log?



Panasonic NT6 related Setting -Local Log-

How you can find IP-PT Log?



You can find cause of reset in this file.

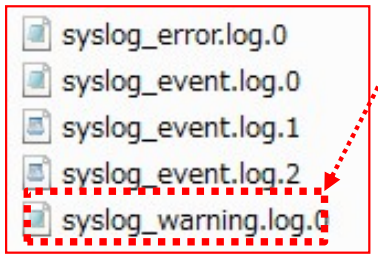
syslog_warning.log.1(352): Sep 27 12:22:37 (none) user.warn mgcpphone: AP: fa_ap_check_resetcause(5022)code = [32]

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	Compete image file download
27	Error at image file download

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

NT6 related Setting -Local Log-

How you can find IP-PT Log?



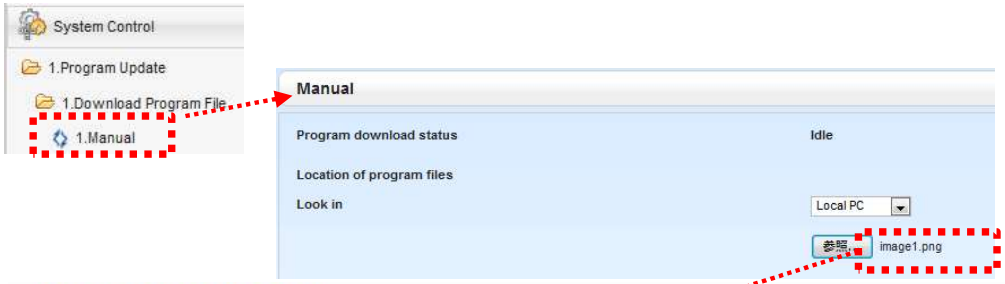
You can find cause of reset in this file.

syslog_warning.log.1(352): Sep 27 12:22:37 (none) user.warn mgcpphone: 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..

Panasonic NT6 related Setting



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 “PNTPIC”

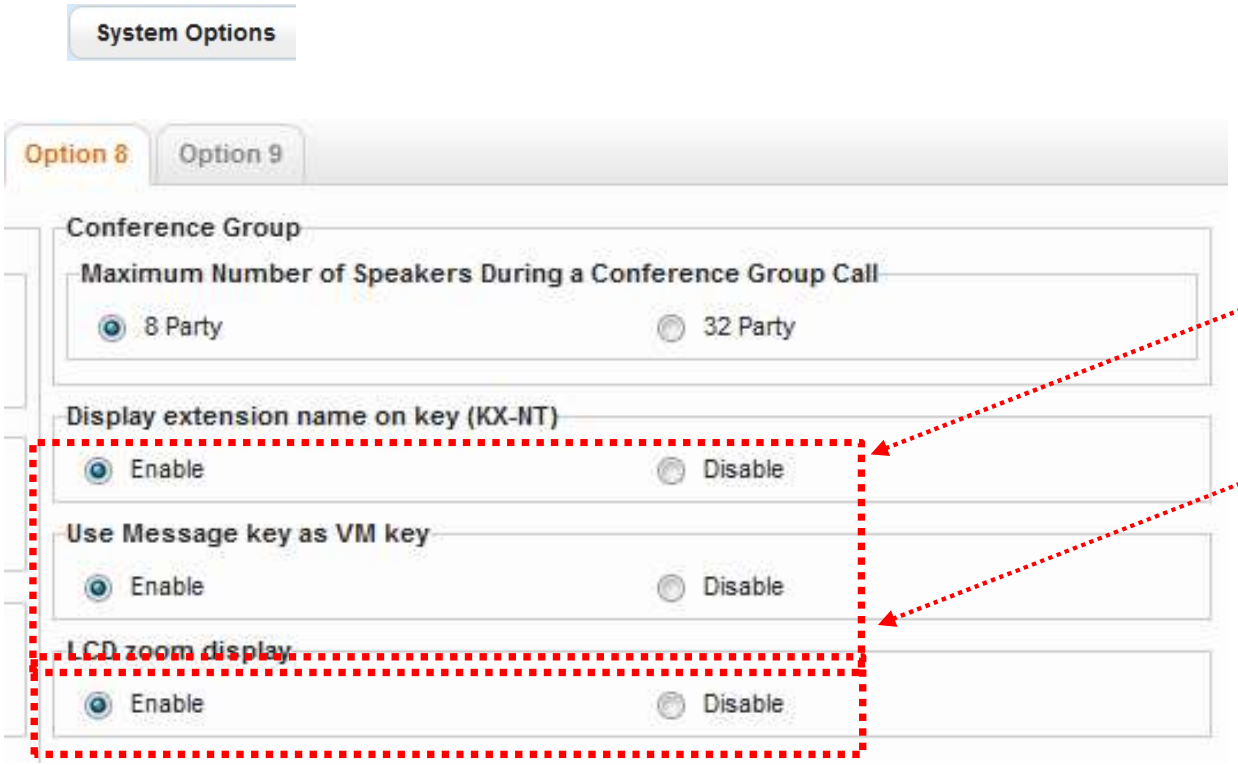
ไฟล์ภาพสามารถ Upload ได้ทีละครั้งและจะทับไฟล์ภาพเก่า

ในกรณีที่ NT680 ต้องการใช้ภาพต่างกันจะต้องทำการ Upload/download ที่ละภาพ.

ไฟล์ชื่อ PICT file แนะนำให้ลบทิ้งหลังจากใช้งานเสร็จพระไฟล์ใหม่จะทับไฟล์เก่า

Panasonic

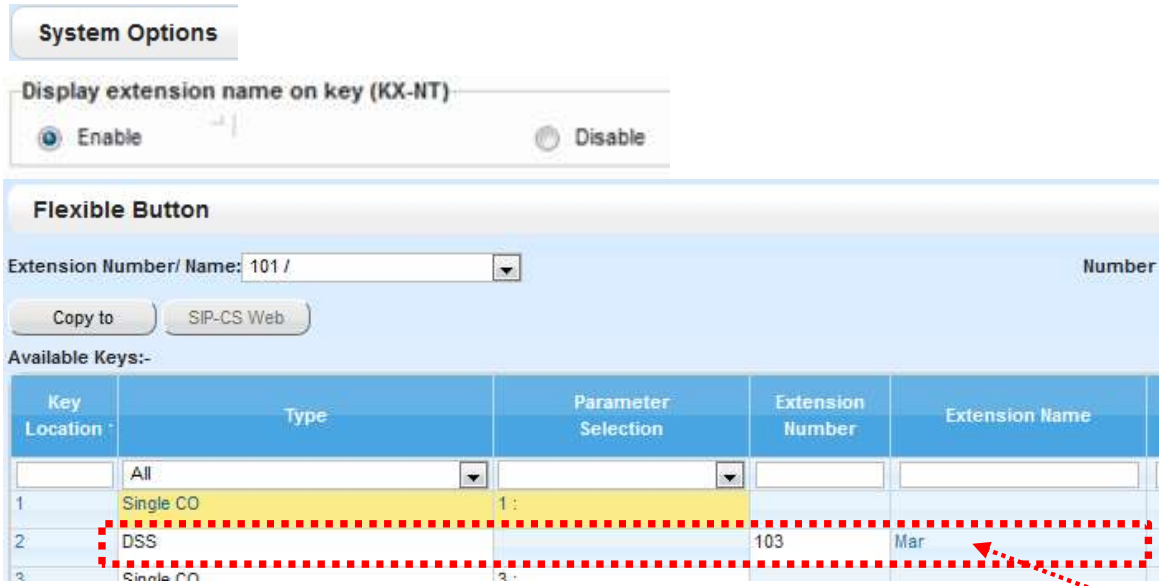
NT related Setting

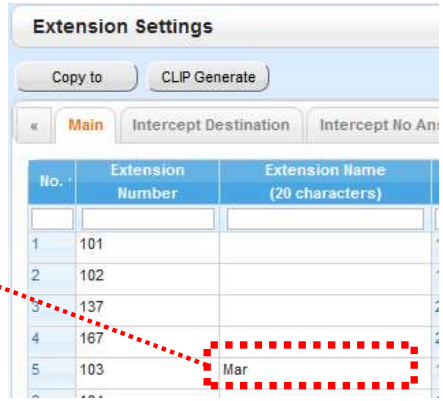


For all type of KX-NT phone

For KX-NT680BX

Panasonic DSS key label





"Extension Name" ที่กำหนดใน Extension Settings จะปรากฏชื่อ "Extension Name" ที่ DSS อัตโนมัติ

DSS key label

System Options

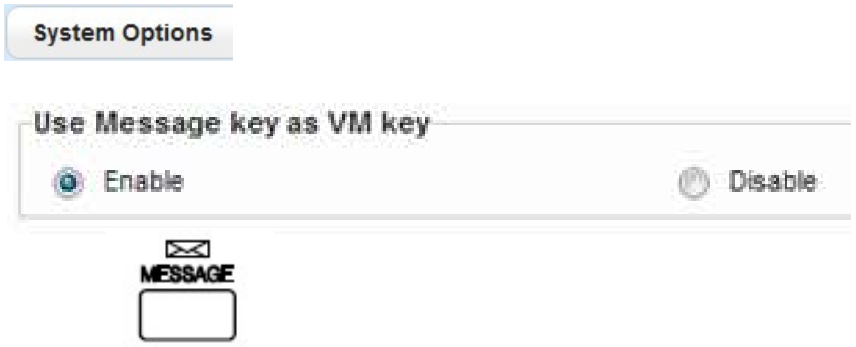
Display extension name on key (KX-NT)

(•) 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.

Panasonic MESSAGE button Setting



ปุ่ม “MESSAGE” ของเครื่อง NT สามมารถทำงานแบบ ปุ่ม VTR(Voice mail Transfer)

By default it is “Enable”

กรณี “Enable” จะไม่สามมารถใช้งาน Message Waiting ได้

Panasonic NT680 related Setting

System Options

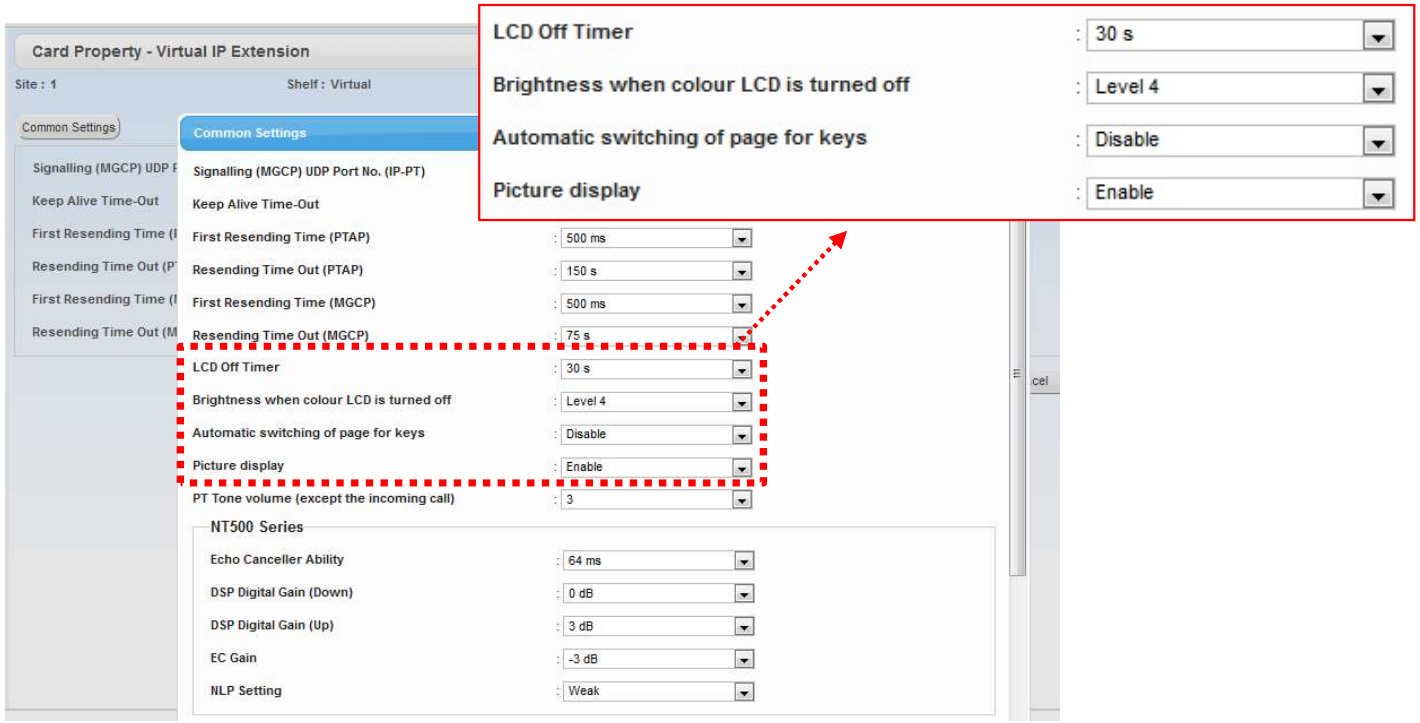
LCD zoom display

Enable Disable

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

Panasonic

NT6 related Setting

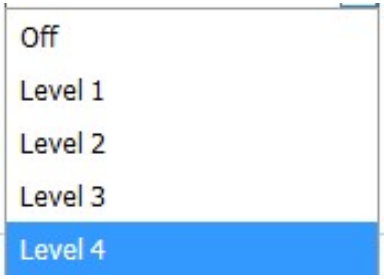


NT680 related Setting

สามารถกำหนดเวลาปิดหน้าจอ Color LCD เมื่อไม่มีการใช้งาน

Panasonic NT680 related Setting

การตั้งความสว่างของหน้า Color LCD เพื่อความสบายตาในการใช้งาน



NT6 related Setting

Enable : ไปที่หน้าจอที่มีการรับสายนอกและอยู่ที่หน้าจอเดิมหลังสิ้นสุดการสนทนา

Disable :อยู่ที่หน้าจอเดิมเมื่อรับสายนอก

NT680 related Setting

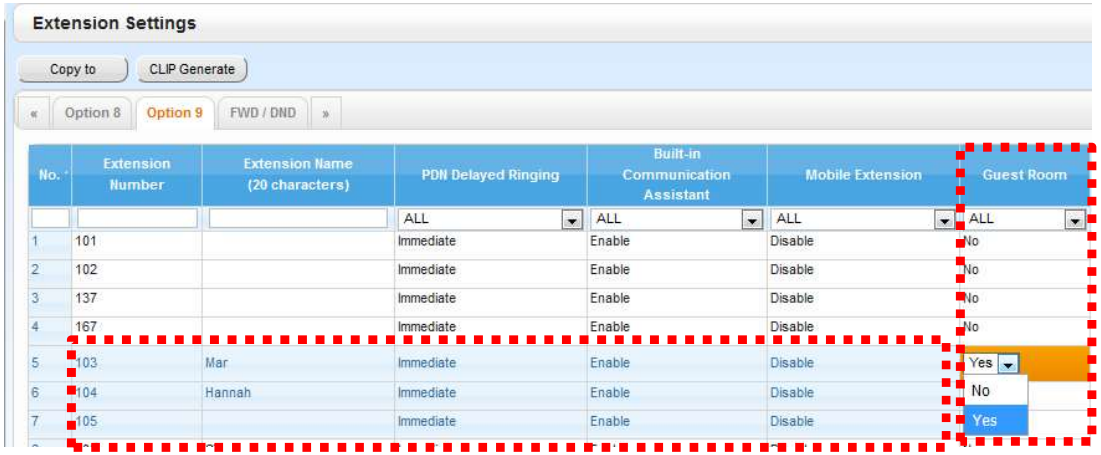
กำหนดแสดงรูปภาพ

Picture display : Enable

Disable
Enable

FOS -exclusive setting mode-

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



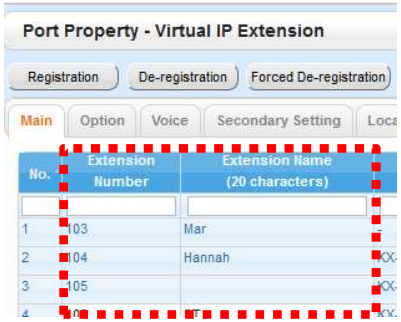
Once "Guest Room" set as "Yes"
then EXT setting such as EXT number, name etc will be non active to change at PBX.

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

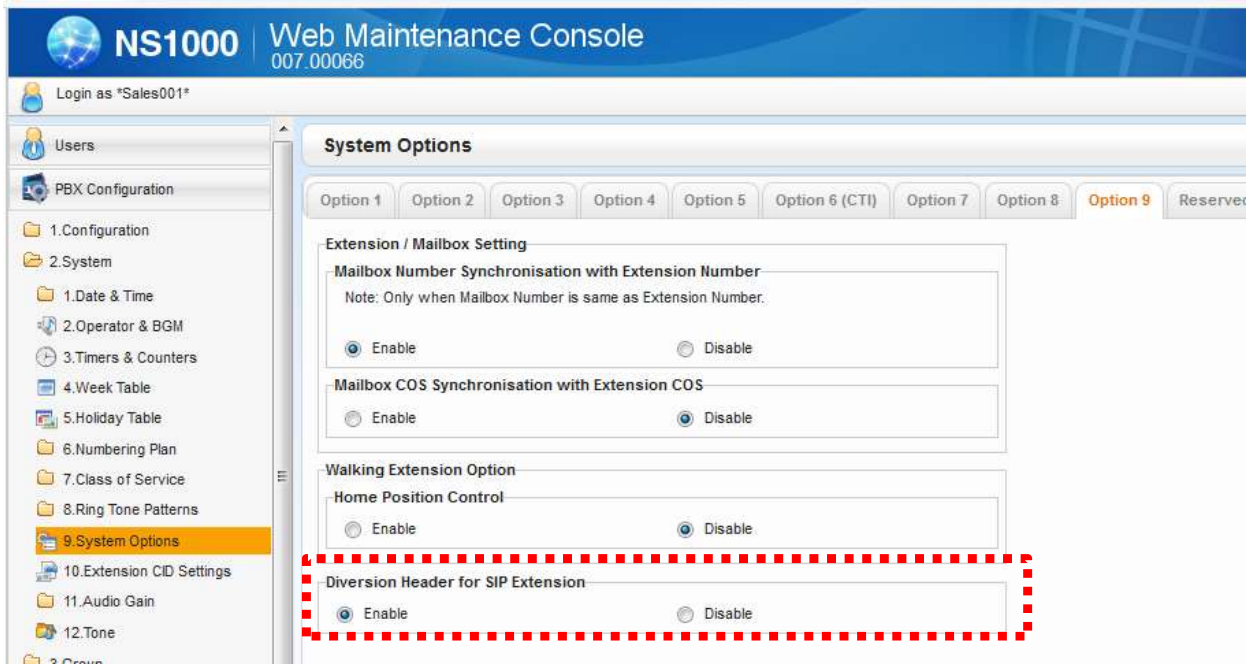
as well.



Setup-PBX Configuration-2.System-9.System Options

Diversion header support for SIP based external UM

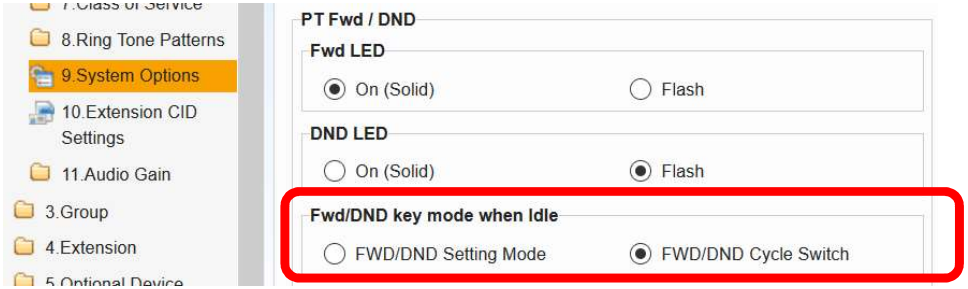
This setting can be presented only with Sales company mode login.



System Options

NT630	NT680	Other PT
Yes	Yes	Yes

System options decides specification for Fwd/DND.



1D_0

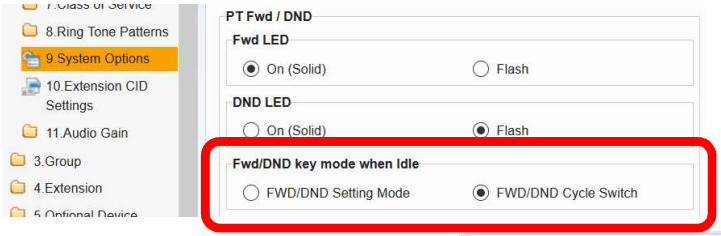
Fwd/DND key mode	Reserved Bit		Specifications
Setting Mode	-	→	Same specification as KX-NS V6 : See slide 34
Cycle Switch (Default)	Disable (Default)	→	New specification : See slide 31 to 33.
	Enable	→	Same specification as KX-NS V6 : See slide 35.

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.

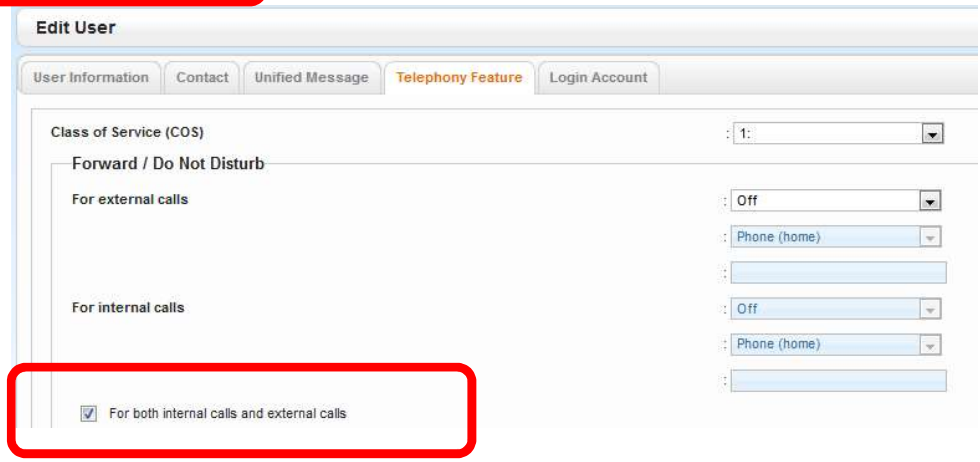
System Options

NT630	NT680	Other PT
Yes	Yes	Yes

System options decides specification for Fwd/DND.



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.

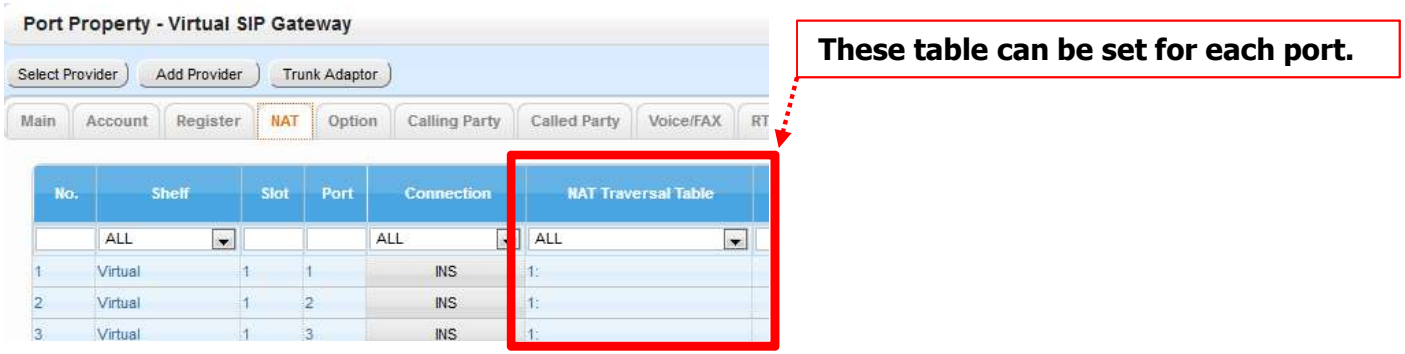


Panasonic Multiple LAN Network for SIP Trunk

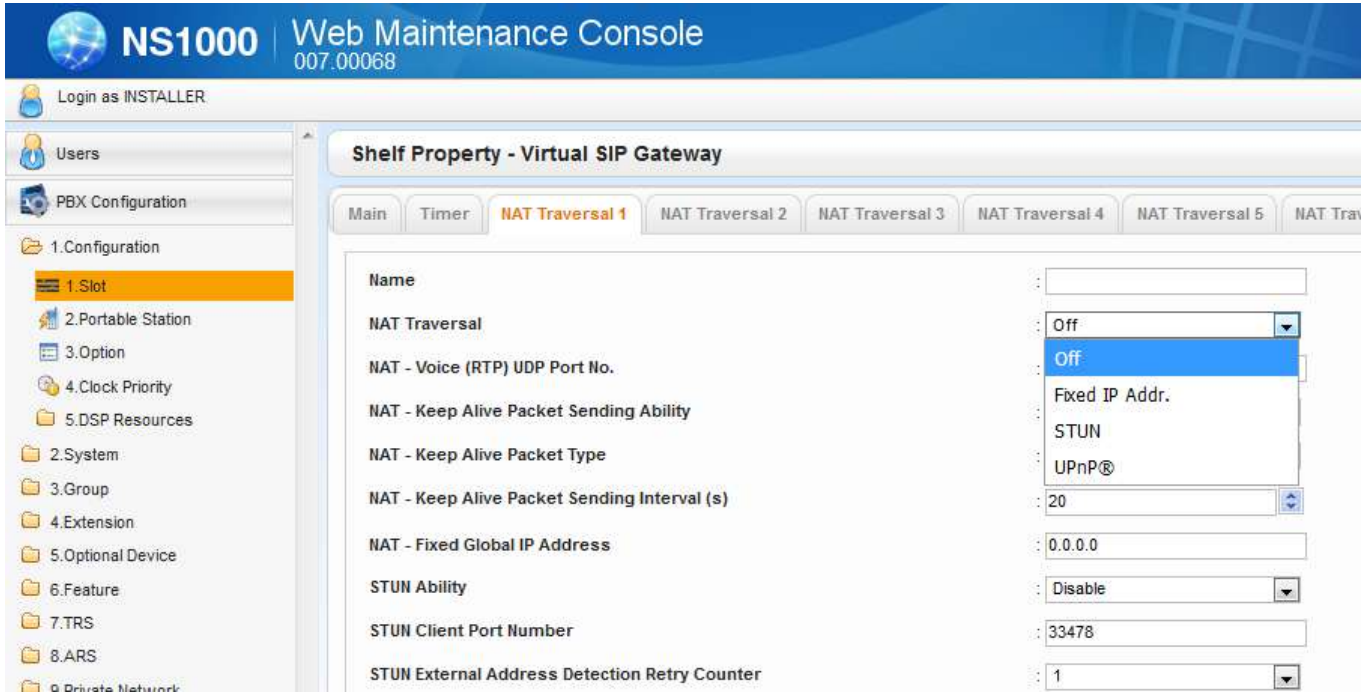
Multiple LAN network support

NAT Traversal tables can be set at "PBX Configuration"

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

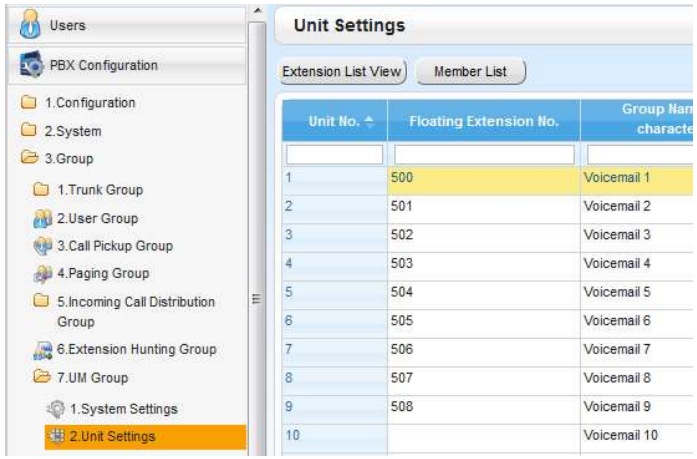


UPnP can be chosen as NAT Traversal method

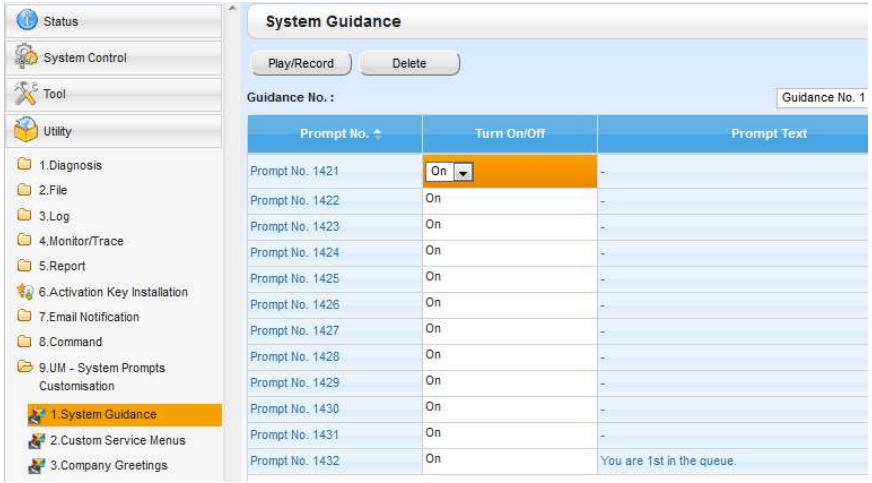


Automatic Paging System

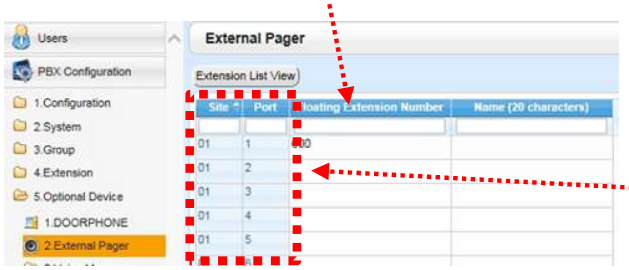
" UM FDN " can be checked at below



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



" External Pager FDN "can be checked at below

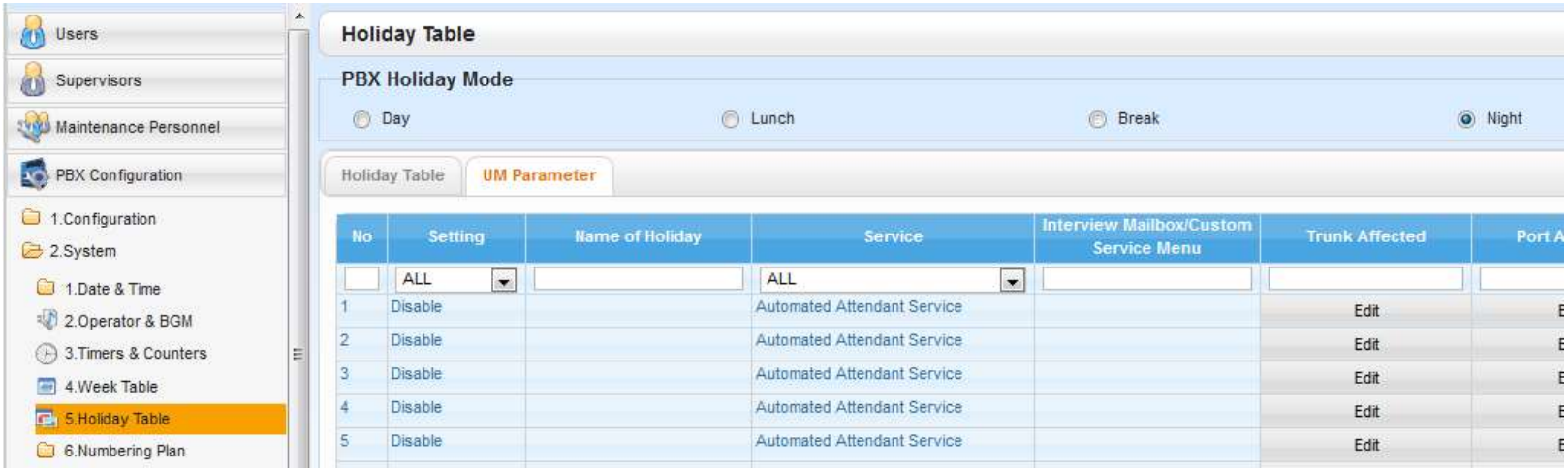


External Pager's Physical connection location can be checked at this page. Site and Port clearly indicate

Panasonic UM Holiday table

-UM Holiday table

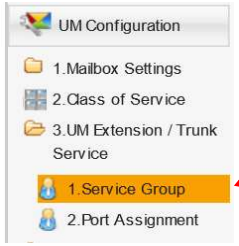
Sys Reserved Bit can change UM holiday table effective setting.



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

UM Holiday table

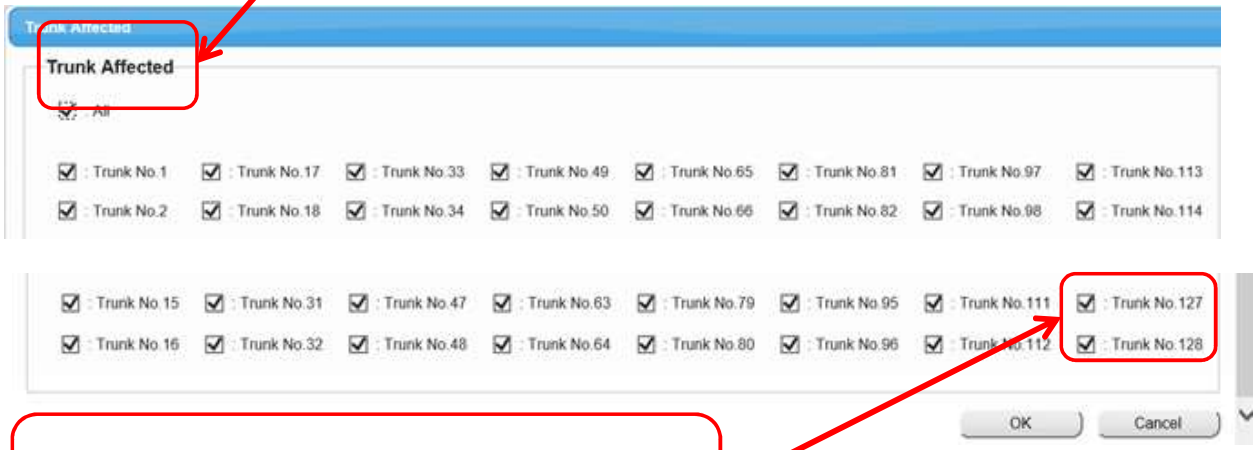
-UM Holiday table



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)



Mode 1 : Trunk No.128→No.128- No. 384

Mode 2 : Trunk No.128→No.128

ขอบคุณครับ

Appendix

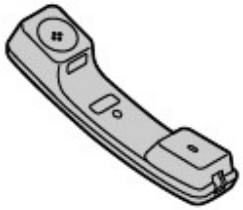
Outer View

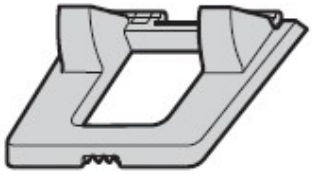
<KX-NT630>

<KX-NT680>

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.

Others

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

PoE Class : Class 3

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

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

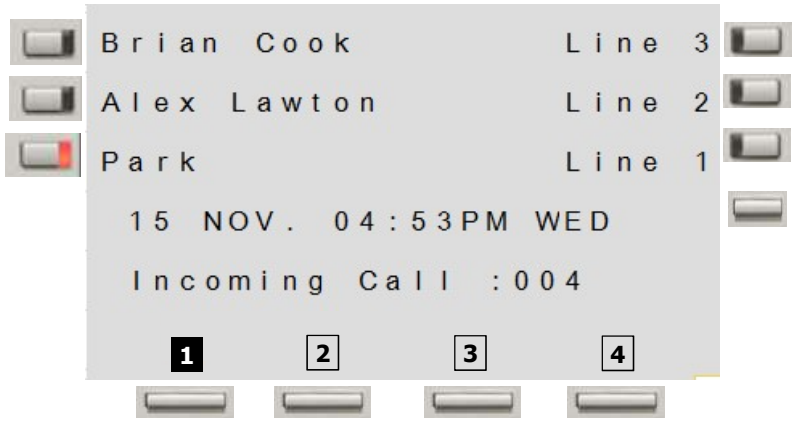
Phone Specifications

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

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



Page Button

Specification of Bluetooth

Specification of Bluetooth is as follows.

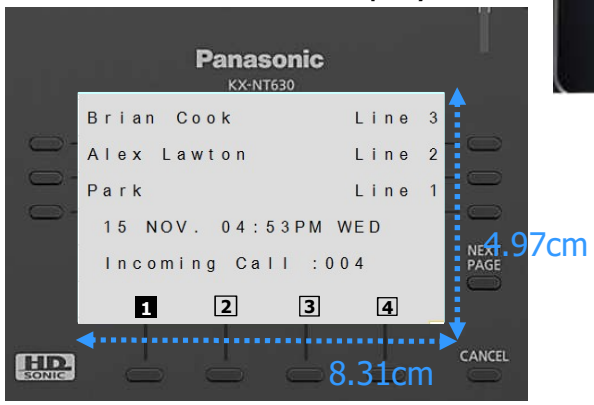
Bluetooth 2.1 (Class1)
HFP 1.6 (Wideband)

*Supports Bluetooth in order to use a Bluetooth Headset.

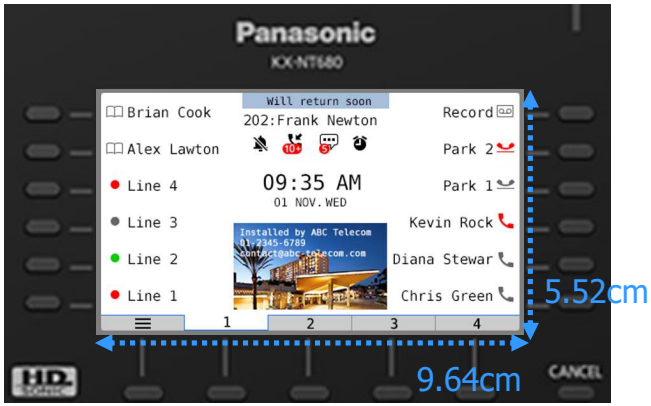
KX-NT6xx Display

KX-NT560 Display

KX-NT630 Display



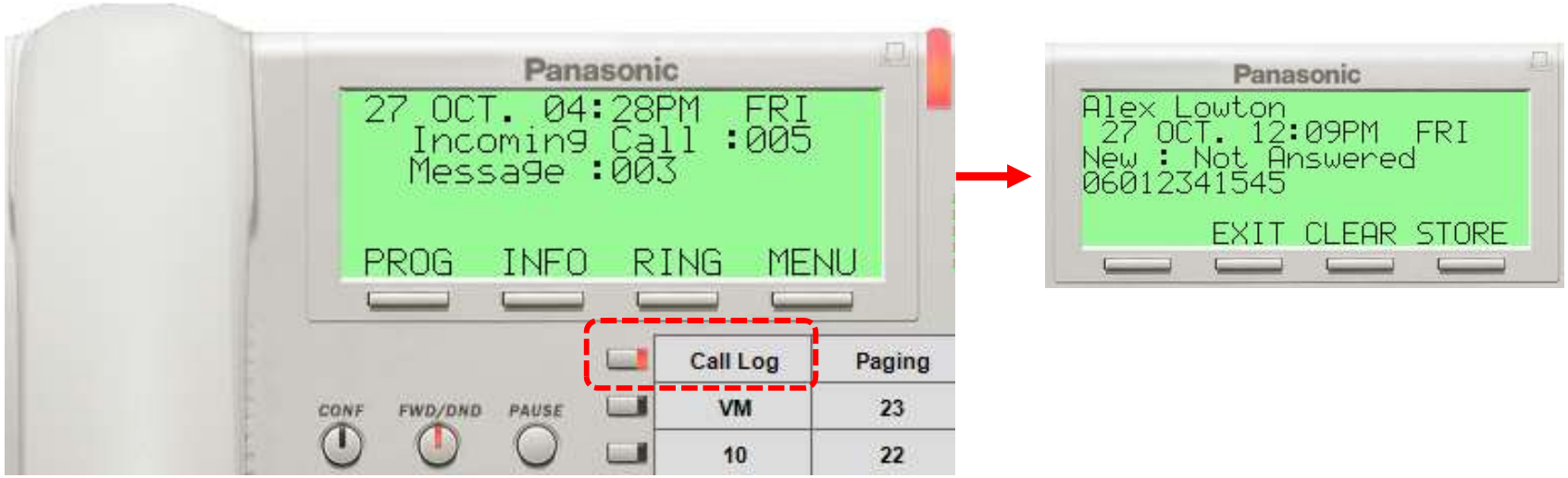
KX-NT680 Display



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.



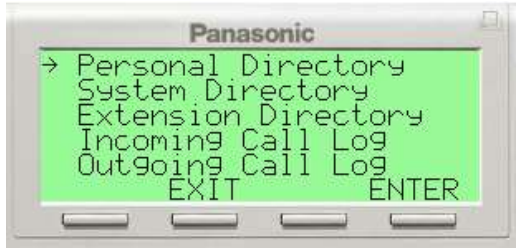
IP softphone is used for explanation.
Operation is common for IP softphone, KX-NT3xx and KX-NT5xx.

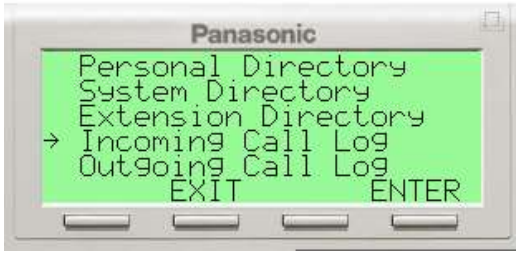
Panasonic Current -without programming- (1)

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

MENU

Down x 3





Enter

Panasonic Current -without programming- (2)

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

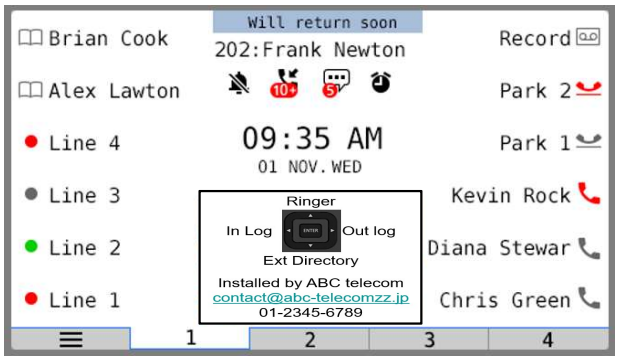
Left

Left

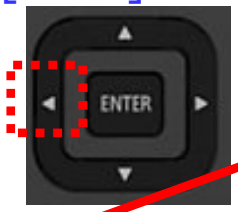
Enter

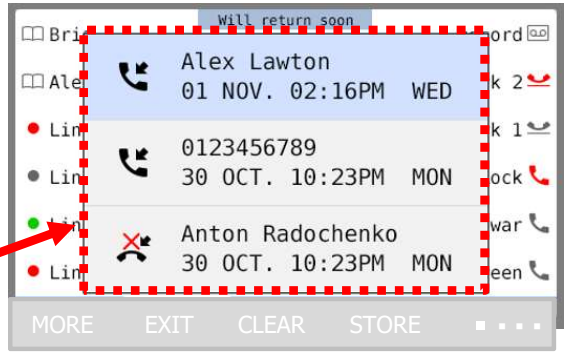
KX-NT680 Improvement

One touch [Left] to incoming call log



[Left]

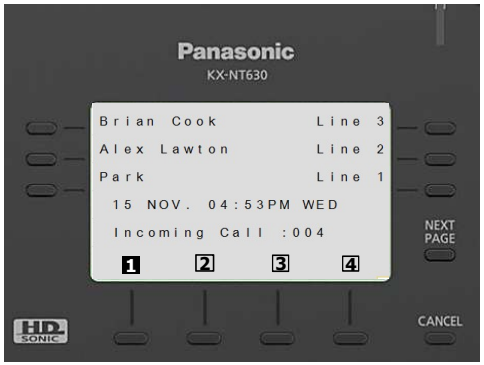


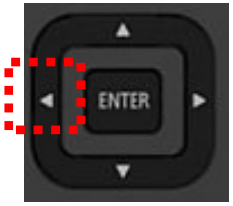


Operation	Result (Same as current PT)
Off hook	Call “Alex Lawton”.
MORE	Display phone number of “Alex Lawton”.
EXIT	Close incoming call log.
CLEAR	Delete “Alex Lawton” from log.
STORE	Save “Alex Lawton” to personal phone book.

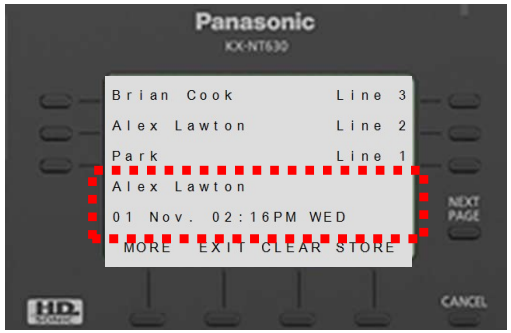
KX-NT630 Improvement

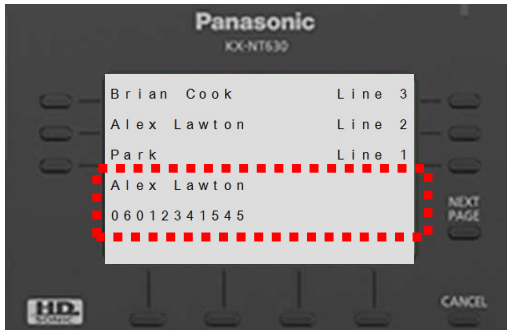
One touch [Left] to incoming call log





[Left]





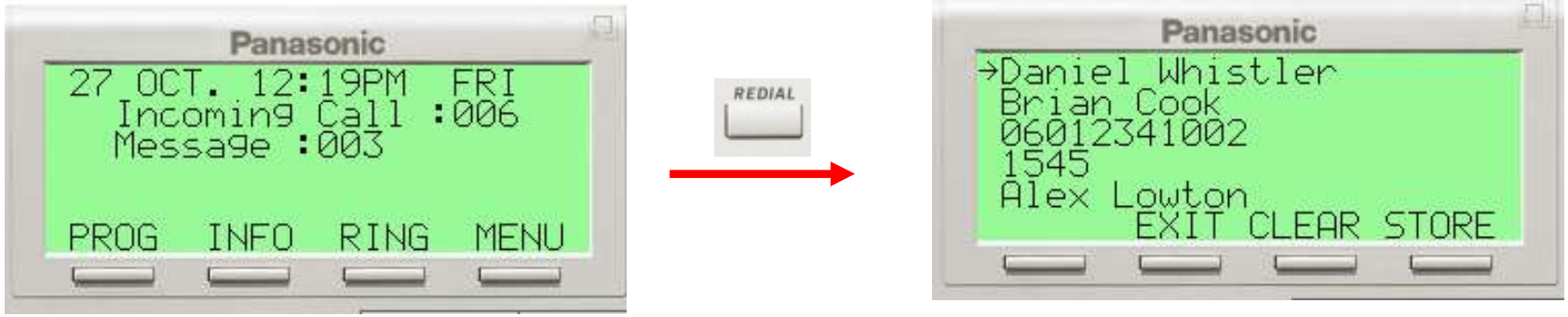
Operation	Result (Same as current PT)
Off hook	Call “Alex Lawton”.
MORE	Display phone number of “Alex Lawton”.
EXIT	Close incoming call log.
CLEAR	Delete “Alex Lawton” from log.
STORE	Save “Alex Lawton” to personal phone book.

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.)

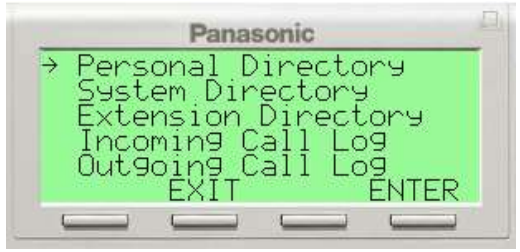


Panasonic Current without programming

Many operations are required without programming

MENU

Down x 4
+ Enter

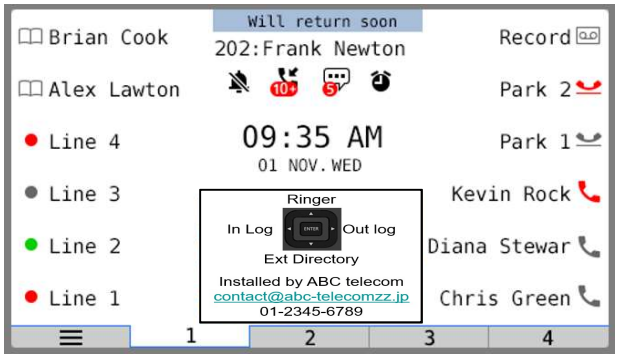


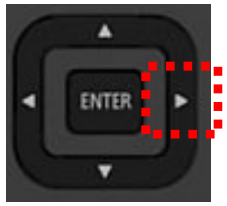
or

Left
+ Enter

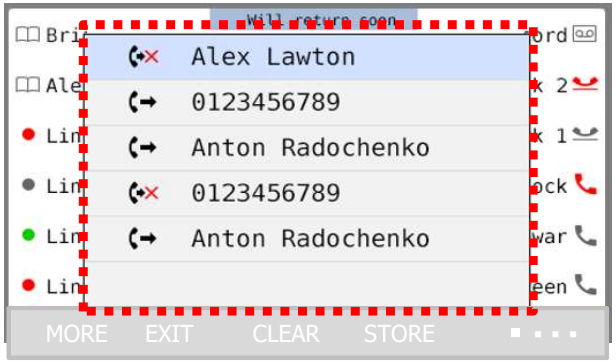
KX-NT680 Improvement

One touch [Right] to outgoing call log





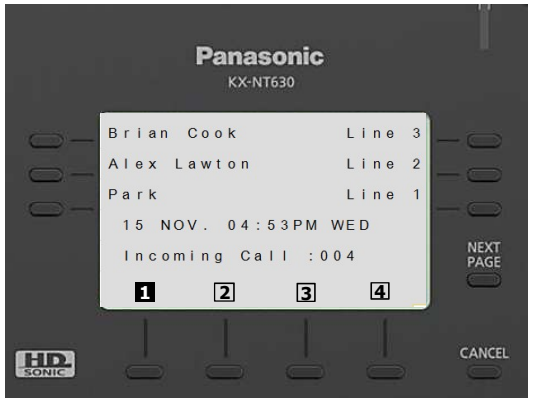
[Right]

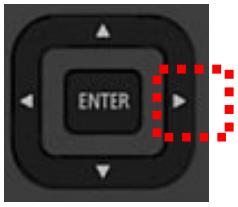


Operation	Result (Same as current PT)
Off hook	Call “Alex Lawton”.
EXIT	Close outgoing call log.
CLEAR	Delete “Alex Lawton” from log.
STORE	Save “Alex Lawton” to personal phone book.

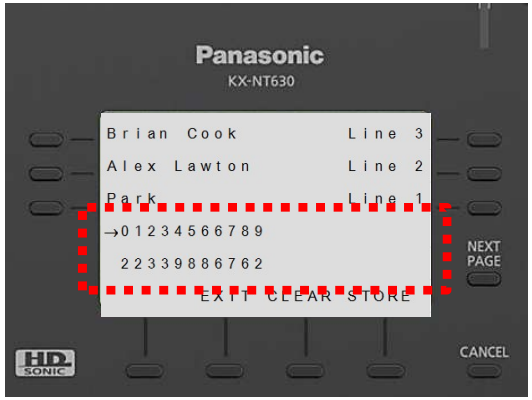
KX-NT680 Improvement

One touch [Right] to outgoing call log





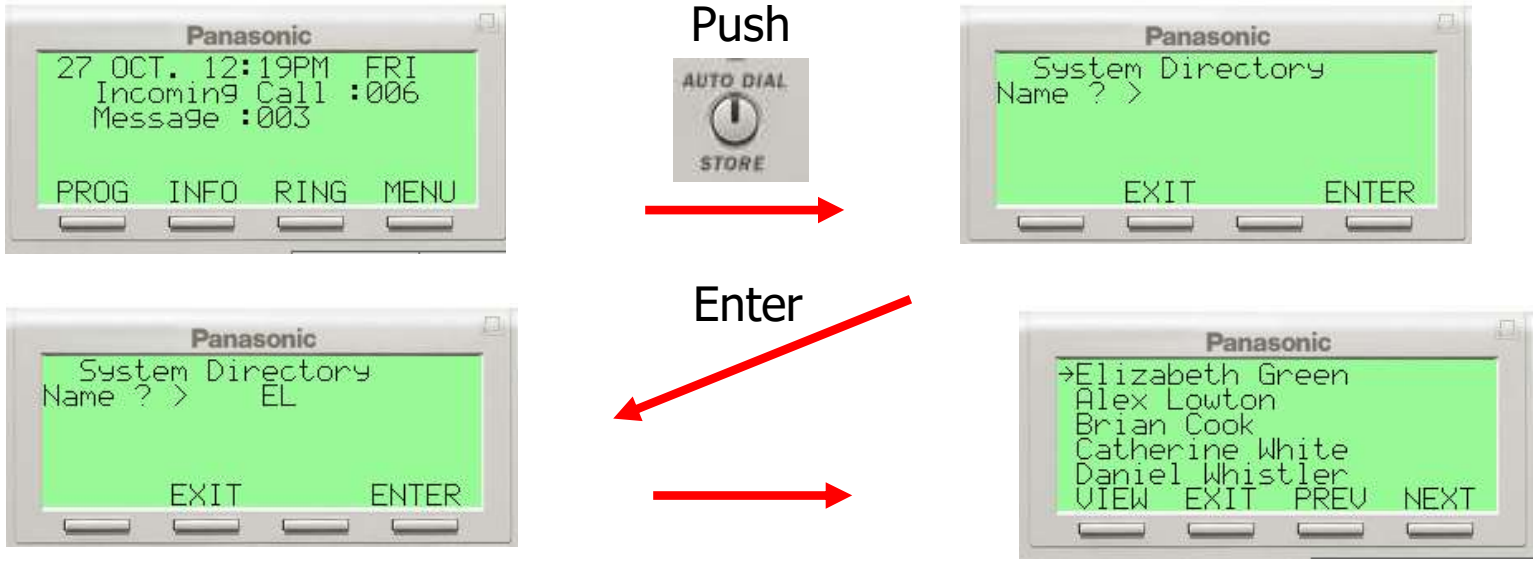
[Right]



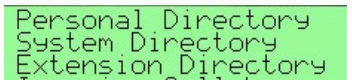
Operation	Result (Same as current PT)
Off hook	Call “Alex Lawton”.
EXIT	Close outgoing call log.
CLEAR	Delete “Alex Lawton” from log.
STORE	Save “Alex Lawton” to personal phone book.

Panasonic Current Directory (Phone Book)

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

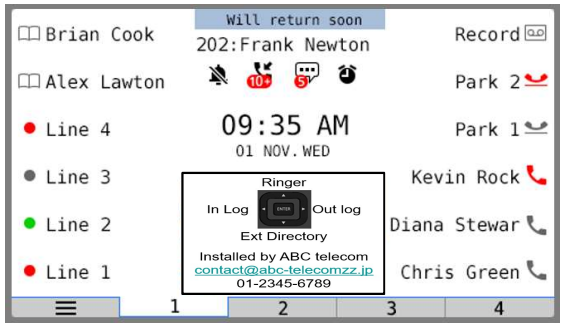


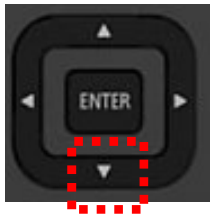
One touch access is not available for personal directory and extension directory.



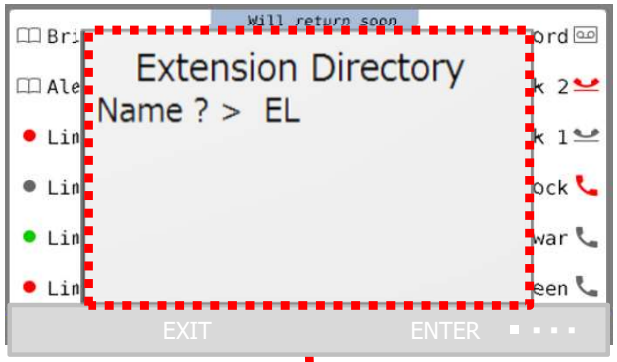
KX-NT680 Improvement

One touch [Down] to extension directory





[Down]
and input characters to search.



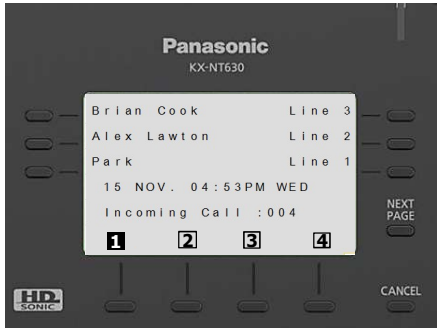
[Enter]

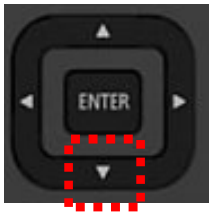
[AUTO DIAL] to System directory

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

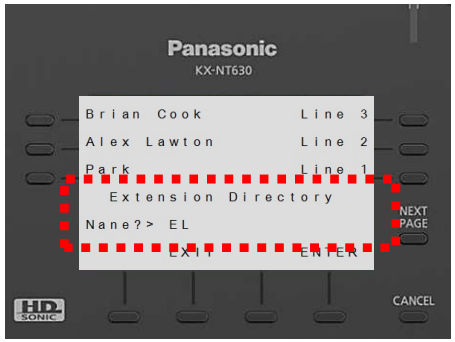
KX-NT680 Improvement

One touch [Down] to extension directory

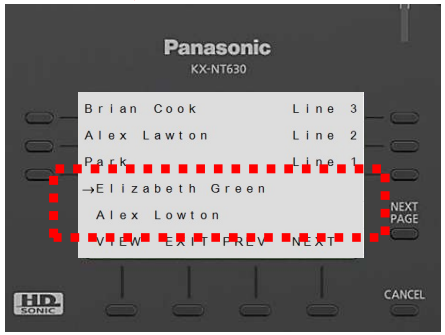




[Down]
and input characters to search.



[Enter]

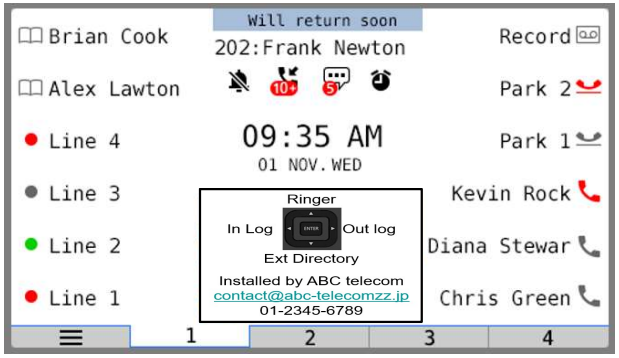


[AUTO DIAL] to System directory

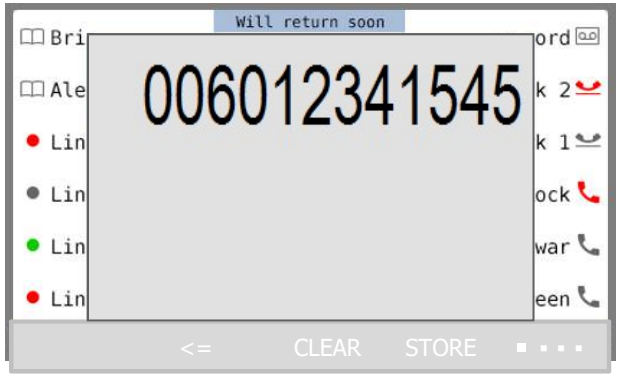
Operation	Result (Same as current PT)
Off hook	Call "Elizabeth".
VIEW	Display phone number.
EXIT	Close phone book.
NEXT	Display next page.
PREV	Display previous page

Panasonic

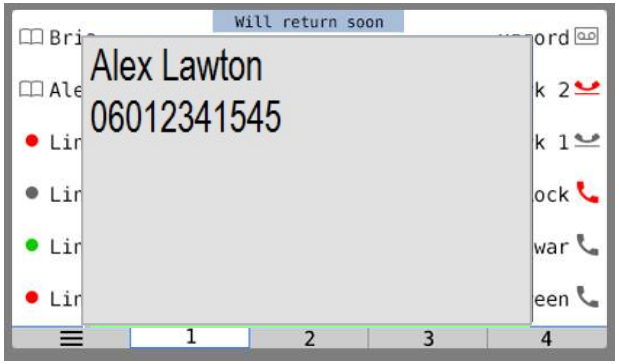
KX-NT680 Improvement



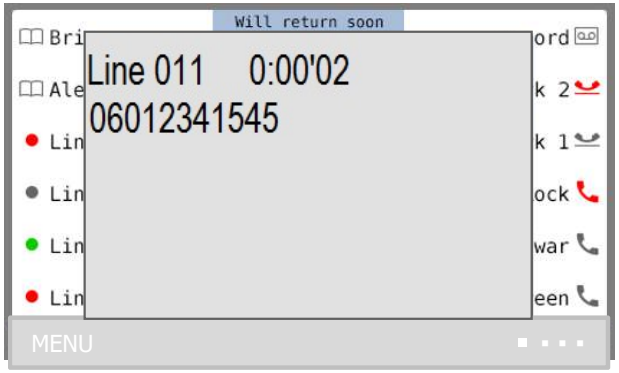
Dial
(Zoom Display)



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: - PRI/SIP Name Notification - UM Email Notification options	Yes	Yes

Chapter 2
How it works

Introduction to V8 Time Services

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 สามารถกหนด Time Service ให้ทำงานต่างกันได้

ใน Version ก่อนหน้านี้สามมารถกำหนดการทำงานได้จาก System Option reserved bit setting.

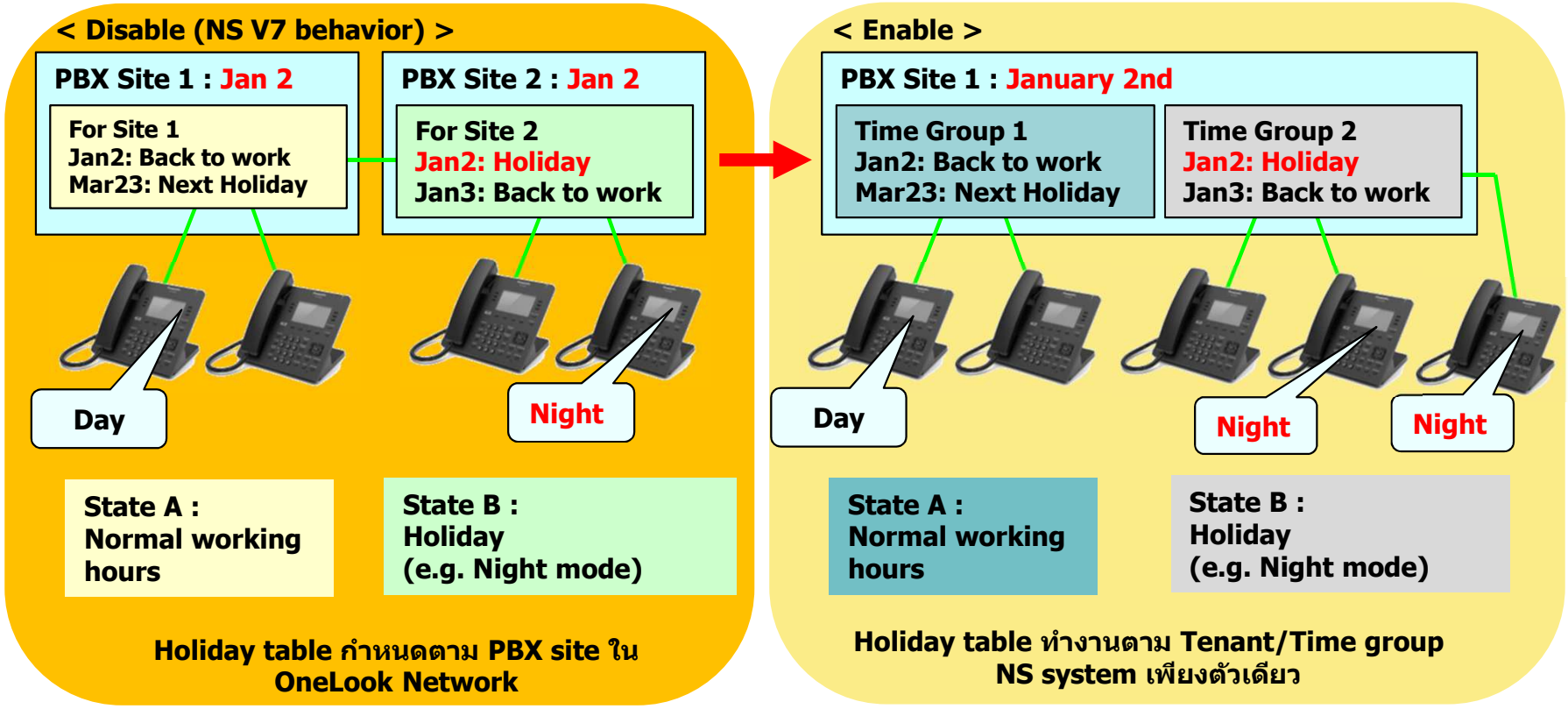
1.Multiple Holiday Tables

Multiple Holiday Tables

Holiday table จะทำงานตาม Time Group.

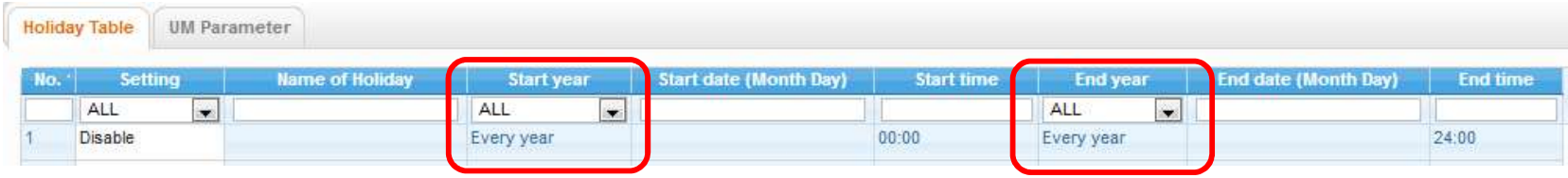
System wide setting

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



Multiple Holiday Tables

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



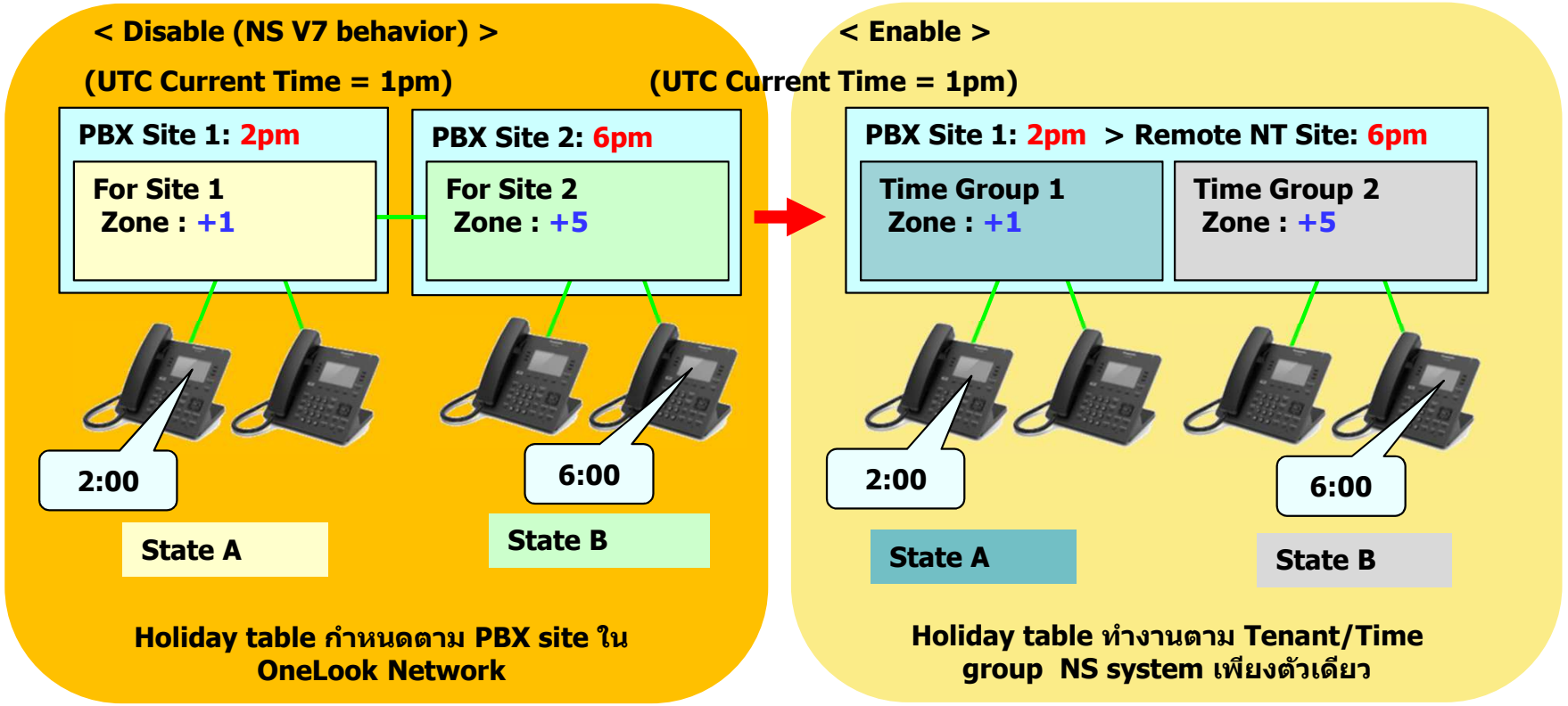
2.Multiple Time Zones

Multiple Time Zones

Time group (Tenant) supports time zone.

System wide setting

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



Panasonic Multiple Time Zones

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"**

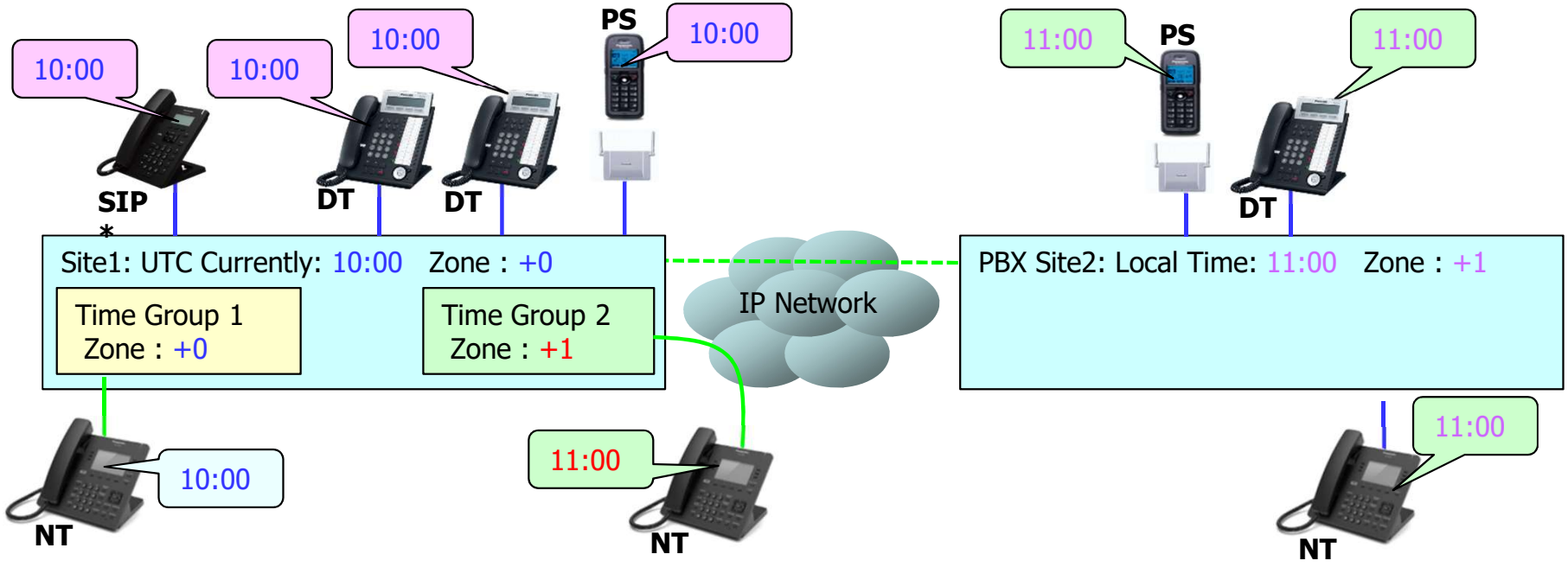
The "Multiple Time Zone" does not apply to the following features:

- **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.

Multiple Time Zones

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 จะต้องกำหนดเองแต่ละเครื่องหรือผ่าน NTP server.

Panasonic Multiple Time Zones

Multiple Time Zone – Shared calls coverage example

PBX Site 1

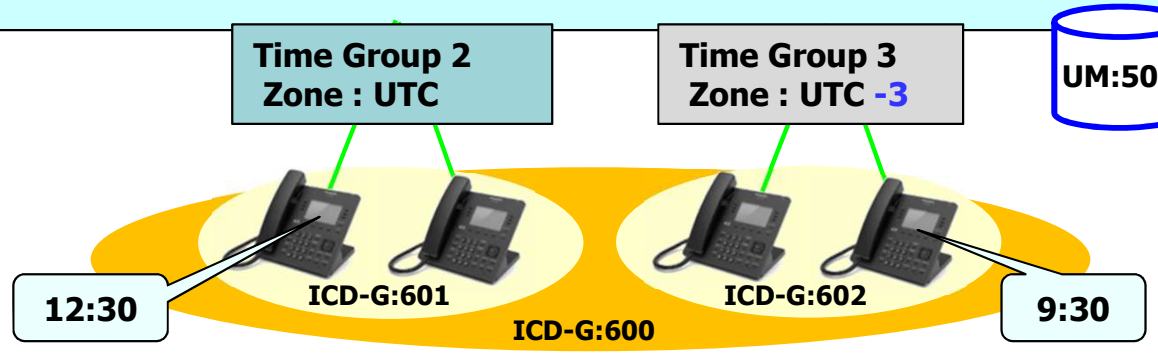
DDI	Name	Day	Lunch	Break	Night	Time Group
0001	Main	601	602	600	500	1

DDI 0001 → Time Group 1

Time Group	Name	Day1 Start/End	Lunch	Break1 Start/End	Night start
1	Main = UTC	9:00 – 12:00	17:00	12:00 – 16:59	20:00
2	East = UTC	9:00	--	--	17:00
3	West = UTC -3	9:00	--	--	17:00

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.



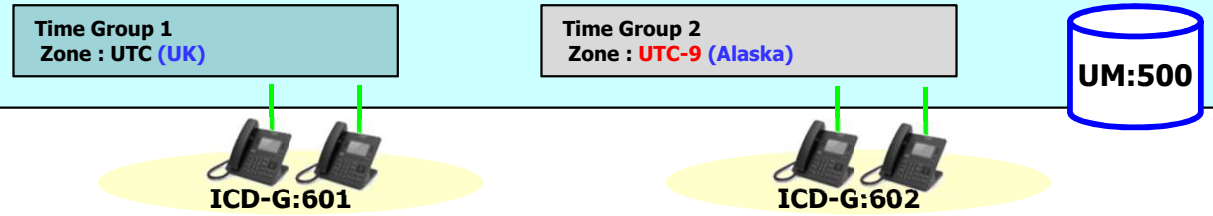
Panasonic Multiple Time Zones

Multiple Time Zone – Alternating Hours of Business Example

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

		DDI	Destination	Day	Lunch	Night	Time Group
East Callers	DDI: 0001	Time Group 1	0001	EastGRP	601	500	500	1
West Callers	DDI: 0002	Time Group 2	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



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

Panasonic Emergency Alerts

Alerting by E-Mail or System Alarm Key

Alert can be sent automatically and immediately when:

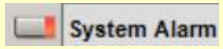
- **An extension dials an emergency number**
- **An extension does not answer a wake-up call (alert by E-mail only)**

Room 107 dials 112
หรือไม่ตอบรับการตั้งปลุก
(Wake- up call)

PBX

By E-mail

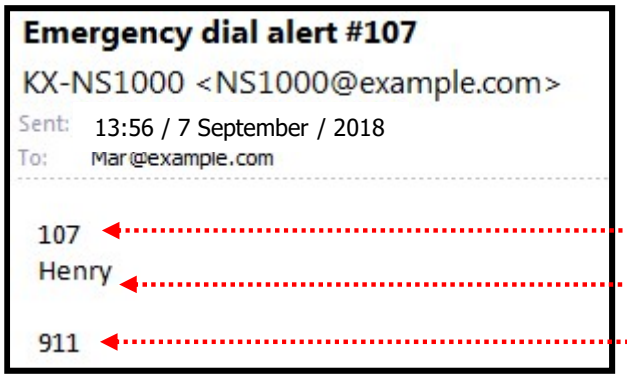
By System Alarm Key



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

Emergency Alerts

By E-Mail



E-mail body :

1st line : Extension number making Emergency call

2nd line : Extension name

4th line : Dialed emergency number

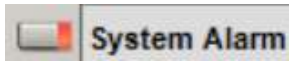
สามารถกำหนดได้ 6 E-mail ปลายทางสำหรับการับ Emergency Dial Alert และ Missed Wake Up Call Alert

Panasonic Emergency Alerts

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.

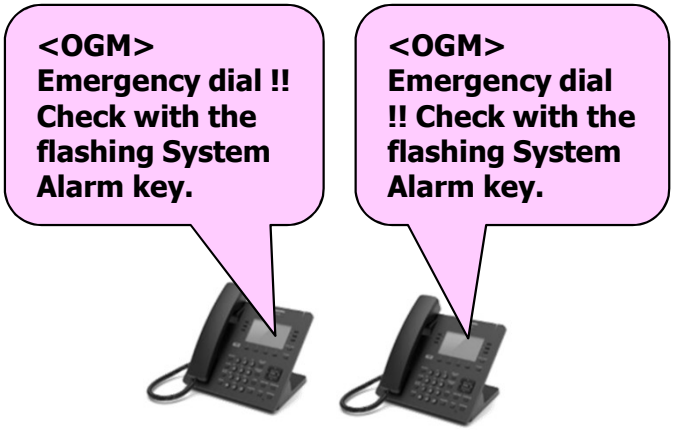
Note : If any Emergency numbers are set as the target of the Emergency Dial Alert then "System Alarm" button will only show Emergency Dial Alert log. Other System Alarms need to be checked by E-mail in this case.
(6 Line Display PT is required to view all information).

Panasonic Emergency Alerts

Emergency Dial Alert by Phone Call

- Extension ใน Conference Group จะได้ยิน Special Ring Tone, หรือเสียงจาก OGM ทันที เมื่อมีผู้โทรออกหมายเลขฉุกเฉิน (emergency number)
- Conference Group จะต้องกหนด 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 Alerts

Emergency Dial Alert by Phone Call

- Special Ring Tone หรือ OGM จะเรียกไปที่ Extension เรื่อยๆจนกว่าจะรับสาย(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)

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....

Built-In Automatic Paging (Broadcast Recorded Message)

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).

Built-In Automatic Paging (Broadcast Recorded Message)

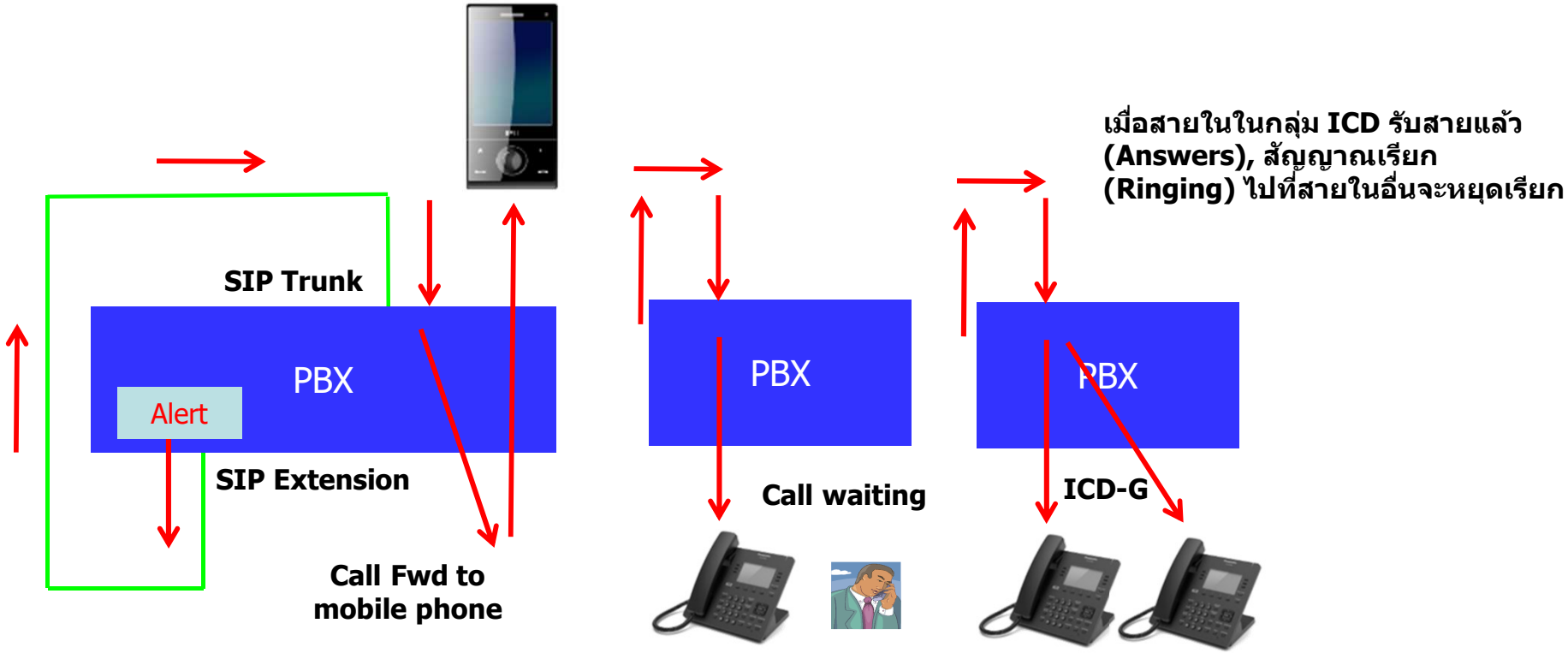
Conditions	Broadcast Recorded Message	Integration with Emergency Dial Alert	Wake up call
OGM after answer	Yes	Yes	Yes
Automatic Answer Required	Yes *1	Yes *1	No
Ringing without Automatic Answer	No	Yes*2	Yes
Programming for ringing duration	Yes *3	Yes *3	Yes
Repeat ringing	No	No	Yes
Call Waiting	No *4	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.

Built-In Automatic Paging (Broadcast Recorded Message)

Solution example เพื่อทำงานกับ SIP extensions

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



5.Other

Name Notification to PRI / SIP Trunk

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 **102 Susan** **103 Tom** **104 Beth**

User Group 1
Fukuoka 1234

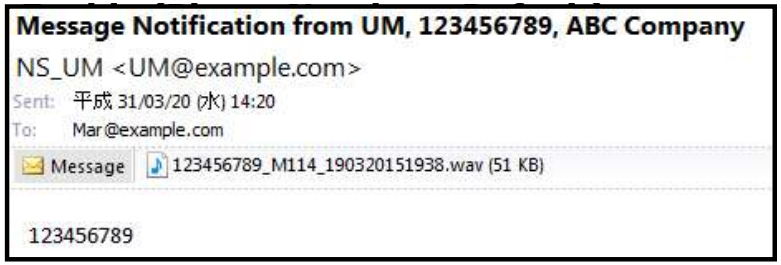
User Group 2
Tokyo 3456

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

UM Email Notification

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).



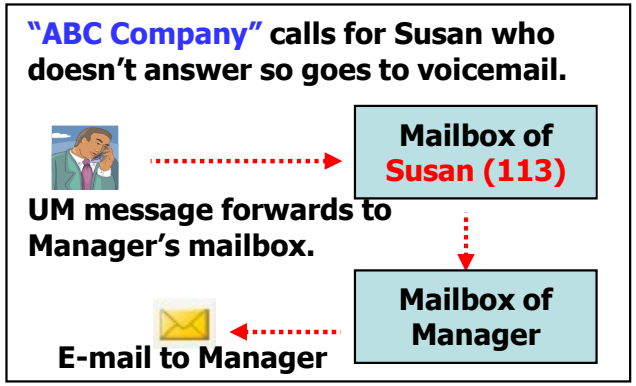
123456789 = example phone number of caller "ABC Company".
M114 is mailbox number which received the message.
190320151938 is YYMMDDHHMMSS.

Panasonic UM Email Notification

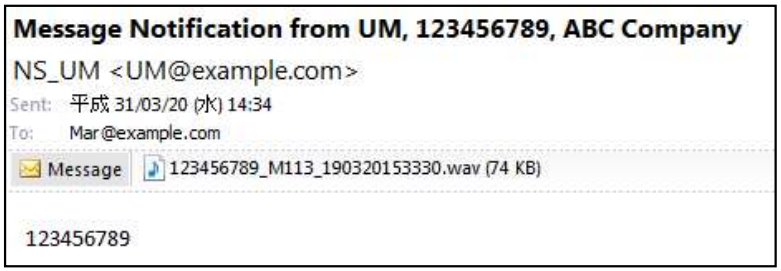
Caller name (or number) is displayed in email subject instead of mailbox name, when message is forwarded to another mailbox which then notifies by e-mail.

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

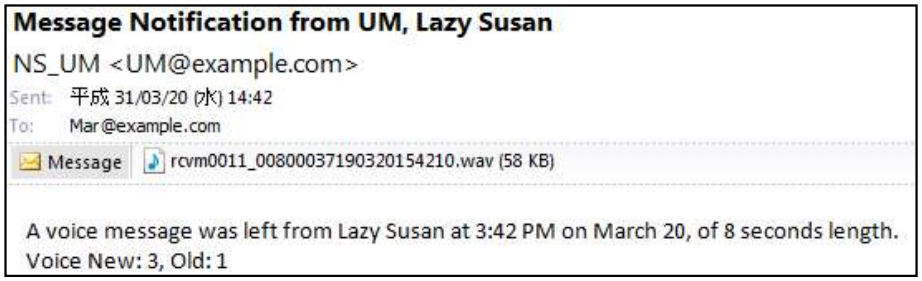
Applied when new Special Option for Type 2 UM Email format is Enabled (see Programming Guidance).



Enable (Default)



Disable (Old spec)

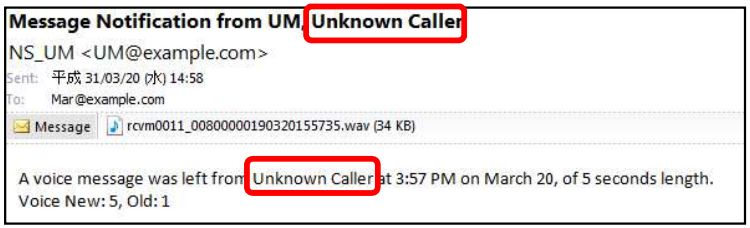


UM Email Notification

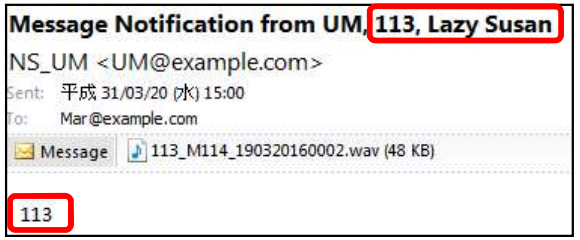
Following improvements are also applied when Type 2 UM E-mail format is Enabled.

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).

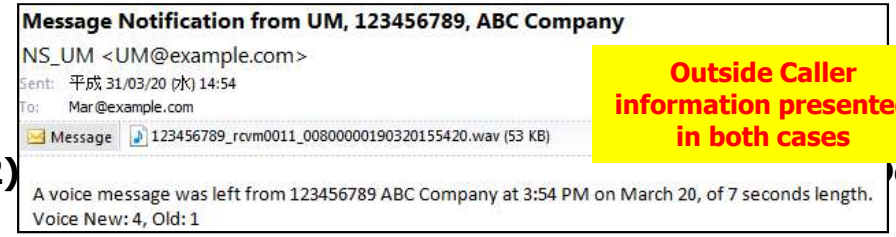
Disable



Enable



2)

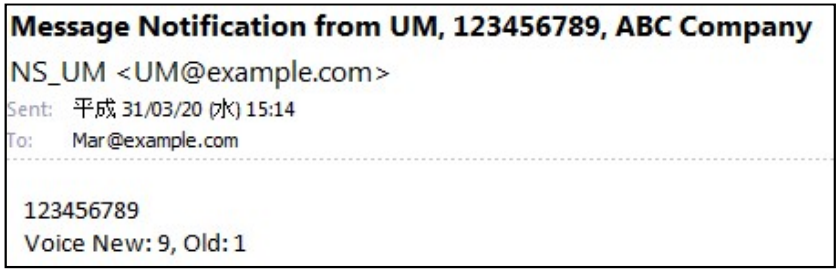


Outside Caller information presented in both cases

UM Email Notification

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:

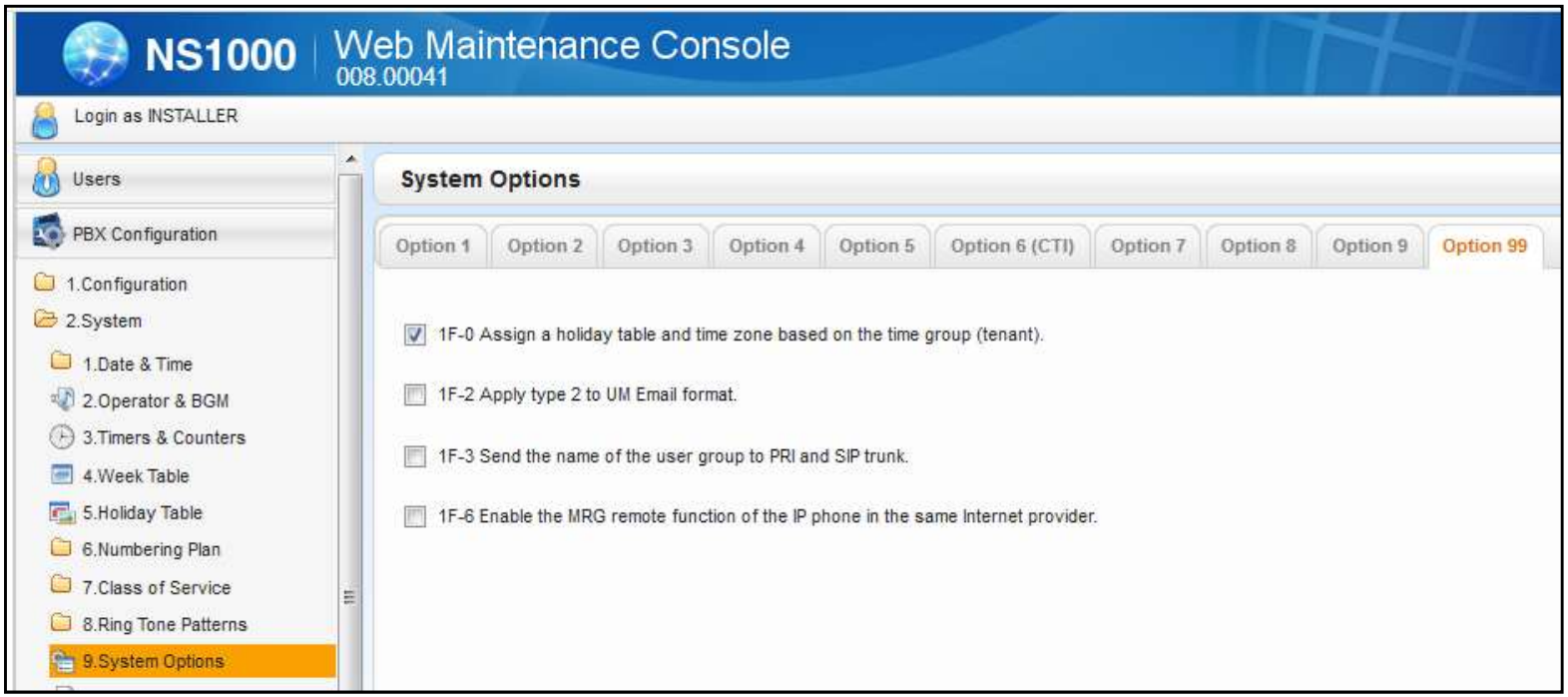


Note: UM e-mail improvements only apply to SMTP notification (not applied to IMAP notification).

Chapter 3
How to program

Panasonic System Special Options

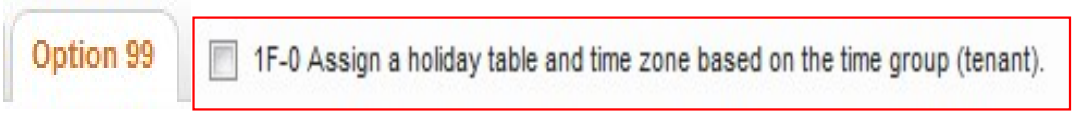
ใน Firmware Version 8 enhancements จะเพิ่ม System Options ในหัวข้อ “Option 99” เพื่อกำหนดการทำงานเพิ่มเติม



Panasonic Multiple Holiday Tables

แต่ละ Time Group (Tenant) สามารถกำหนด Holiday tables และสามารถกำหนดได้ 100 ช่วงเวลา/Time Group

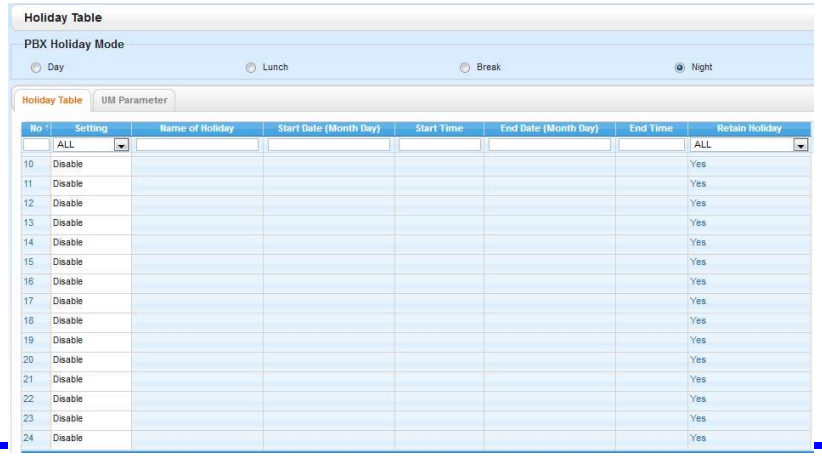
(PBX/Site based holiday table จะไม่สามารถกำหนดปี (Year) ได้ และรองรับได้ 24 ช่วงเวลา).



เมื่อกำหนด Disabled, สามารถเลือก Other sites ได้

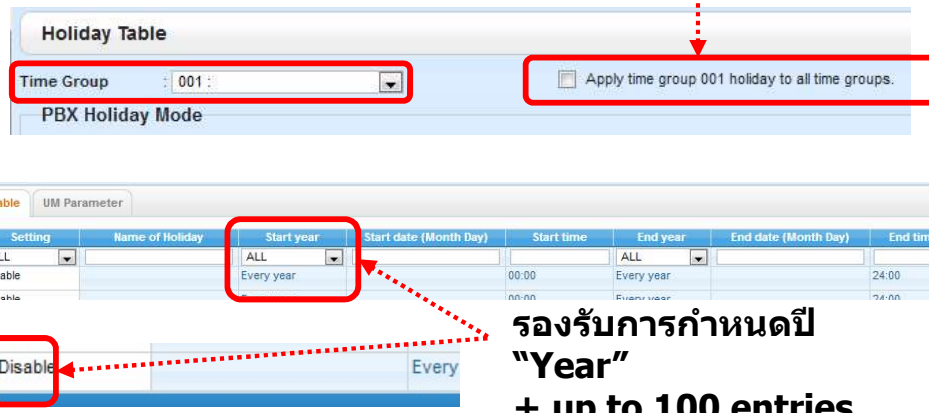
เมื่อกำหนด Enabled, สามารถเลือก Time groups ได้

< Disable (Same as KX-NS V7) >



< Enable >

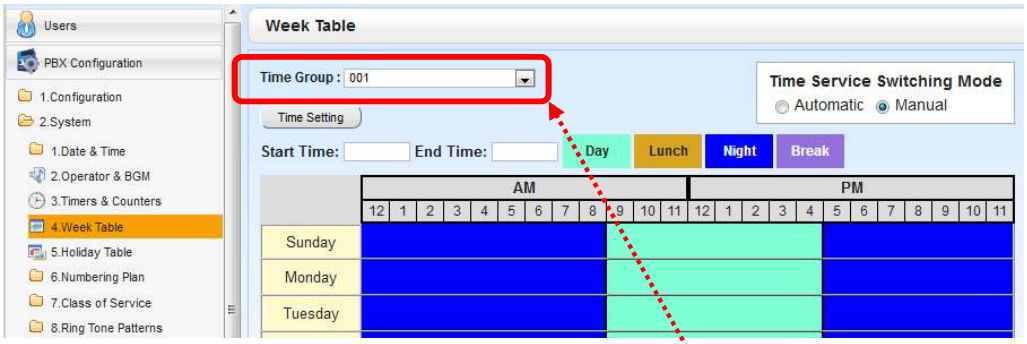
กำหนดเหมือนกันทุก Time group

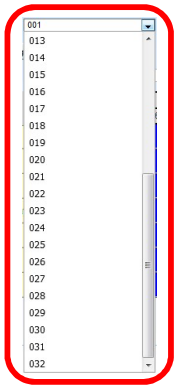


รองรับการกำหนดปี "Year"
+ up to 100 entries

Time Service

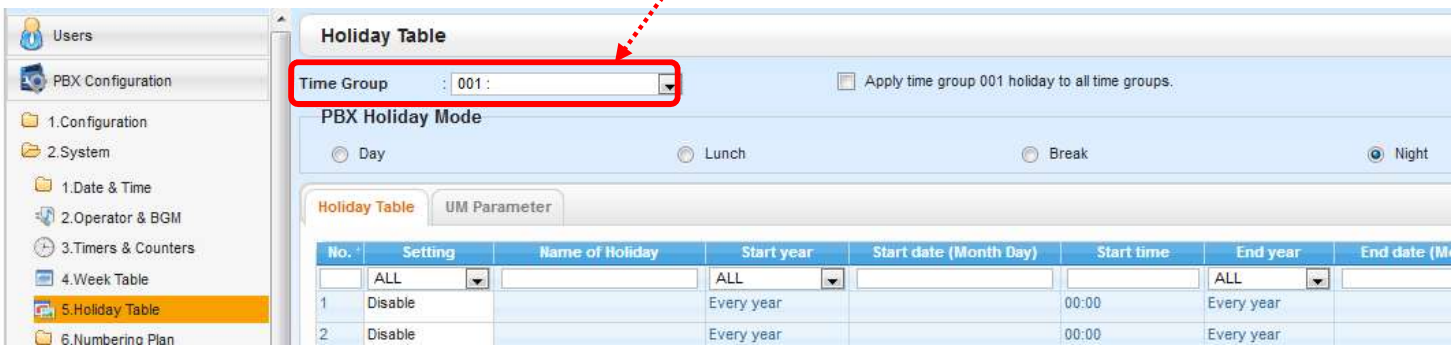
"Time Table No." เปลี่ยนชื่อเป็น "Tenant / Time Group" ใน Holiday table.





"Time Group" สำหรับ Multiple holiday tables และ Multiple time zones สำหรับทำงานแบบฏ Different tenants หรือ One company with international branch offices หรือสำนักงานที่มีสาขาต่างที่กัน

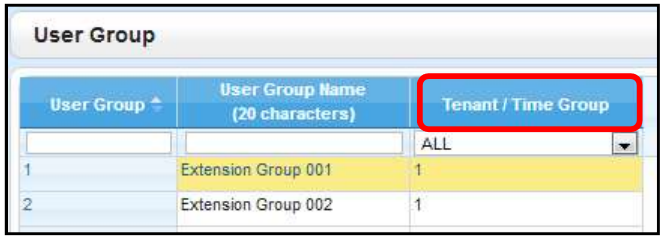
"Time Table No." เปลี่ยนชื่อเป็น "Time Group".

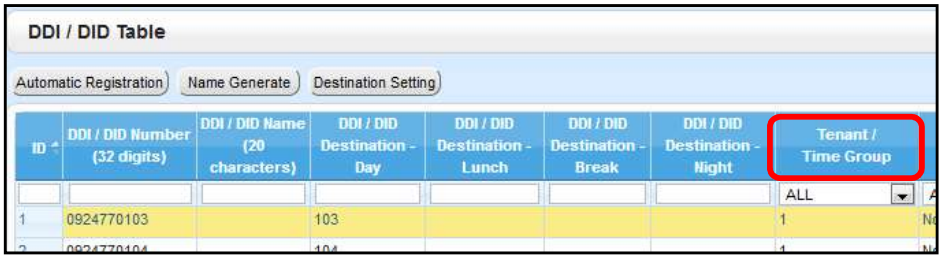


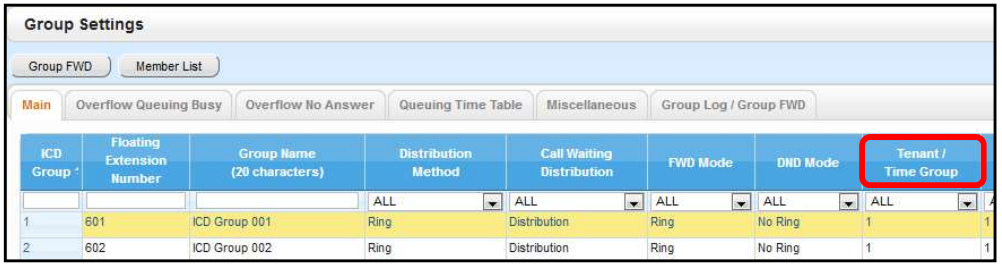
Time Service

"Tenant Number" เปลี่ยนชื่อเป้น "Tenant / Time Group".

และเปลี่ยนชื่อใน 7 เมนูในหน้าต่างโปรแกรมต่างๆ

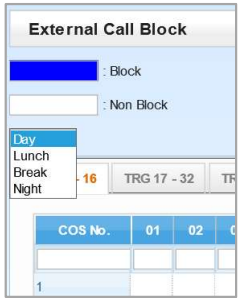


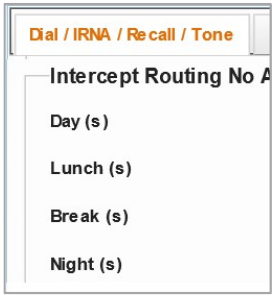


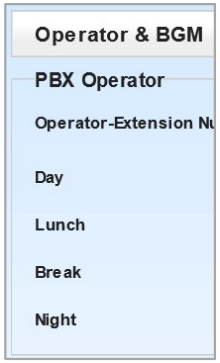


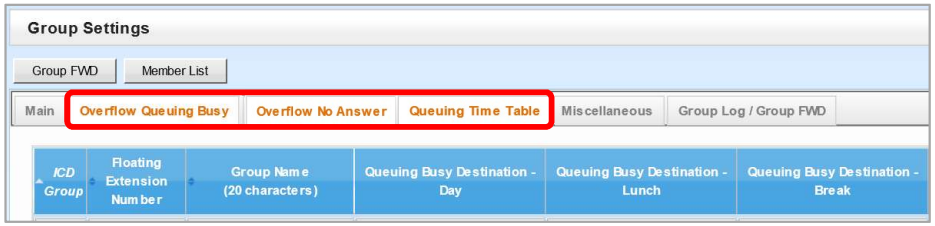
Panasonic Time Service

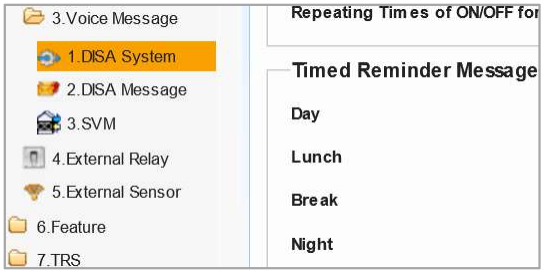
“Time Service” จะมีผลต่อการทำงานต่างๆ

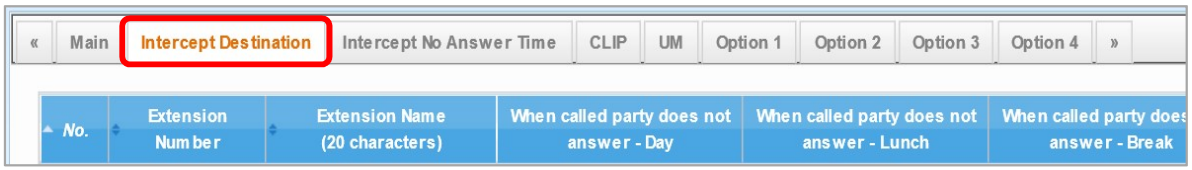












Panasonic

Multiple Holiday Tables

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)

Panasonic Multiple Time Zones

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

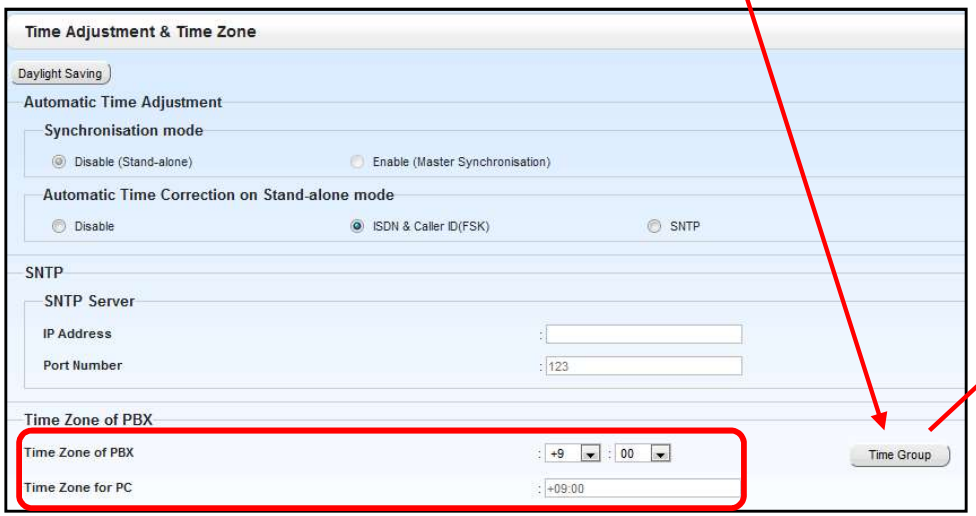
Daylight saving สามารถกำหนดได้ในแต่ละ Time group.

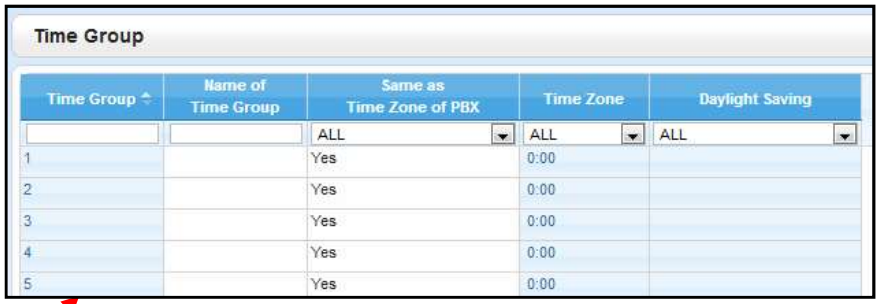
Option 99

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**





Pop up Time Group setting screen

Time Zone of PBX

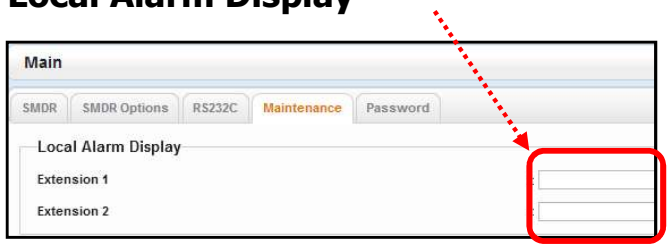
Emergency Dial Alert

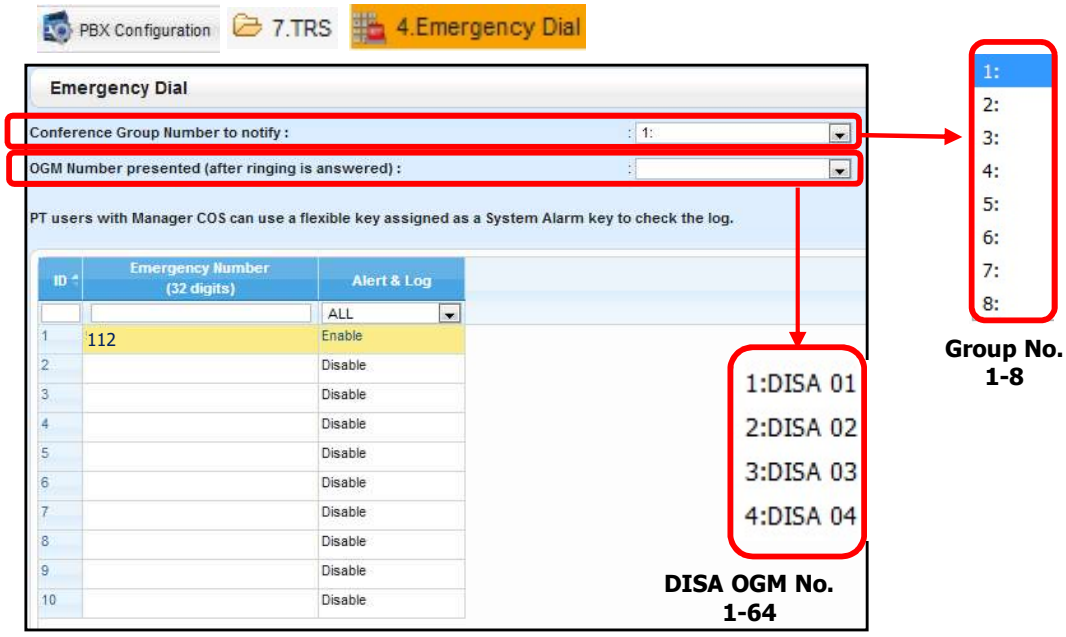
Emergency Dial Alert set up

System Alarm Key สามารถกำหนดได้ที่โทรศัพท์แบบ DT และ IP-PT

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

กำหนดสายในที่จะทำงาน "Local Alarm Display"

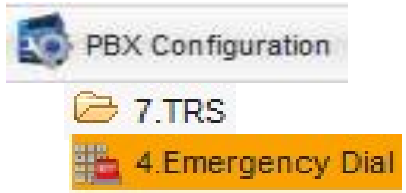




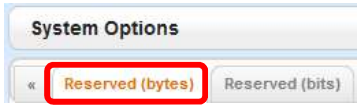
Emergency Dial Alert

Emergency Dial Alert set up

กรณีไม่ได้กำหนด OGM ไว้ Emergency Dial Alert โทรศัพท์จะได้ยินเสียง Special Ring tone แทน

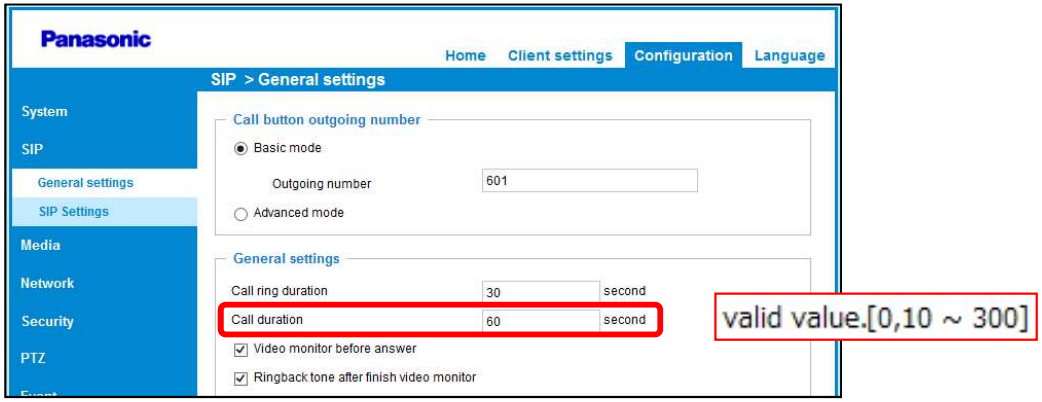


เวลาที่ OGM playback บนเครื่อง NT/DT/PS กำหนดจากโปรแกรม PBX Reserved Byte setting



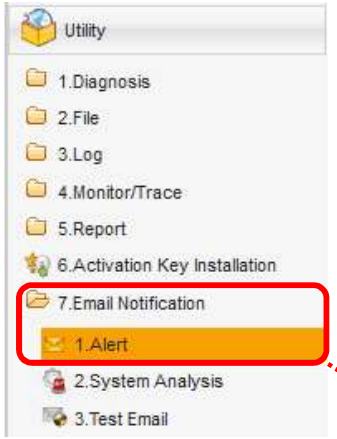
Default : FF=255 Sec

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



Panasonic Emergency Alert Emails

E-mail set up / sample



Emergency dial alert #107

KX-NS1000 <NS1000@example.com>

Sent: 13:56 / 7 September / 2018

To: Mar@example.com

107

Henry

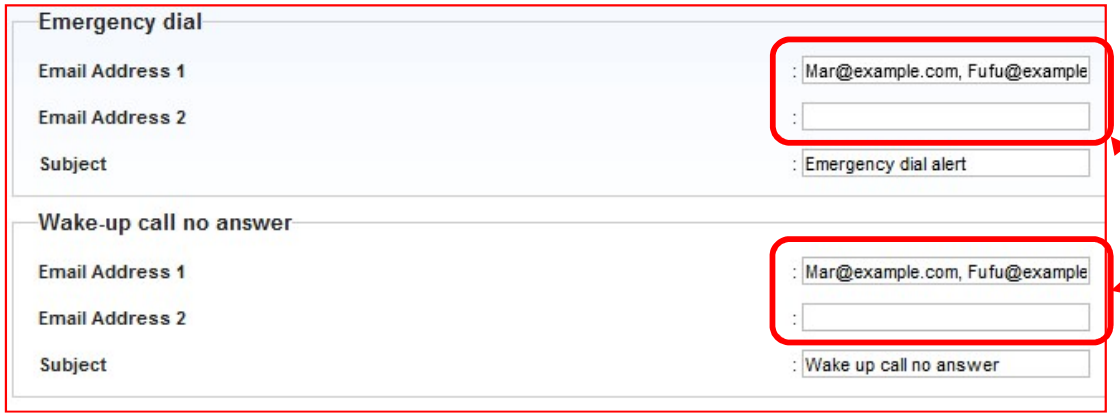
911

E-mail body :

1st line : หมายเลขสายใน (Extension) ที่โทรออกโดยใช้เบอร์ Emergency

2nd line : ชื่อสายใน (Extension name)

4th line : เบอร์ Emergency ที่โทรออก



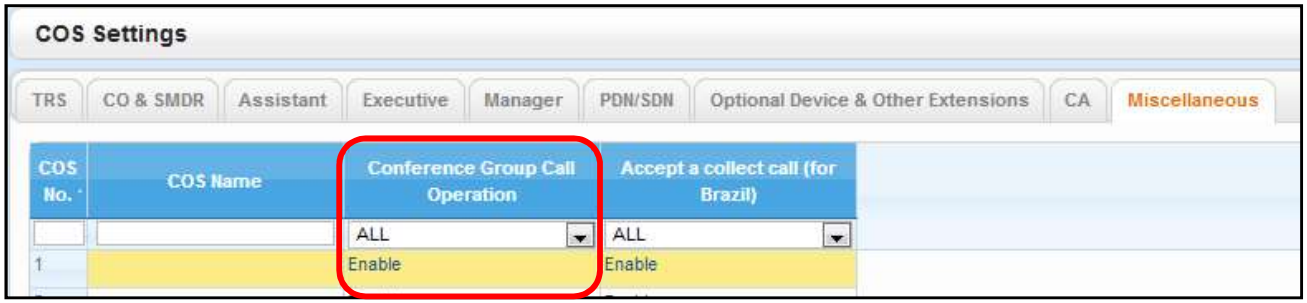
3 @ x 2 สามารถโปรแกรม โดยใช้เครองหมาย “,” คั่นระหว่าง Email

Built-In Automatic Paging (Broadcast Recorded Message)

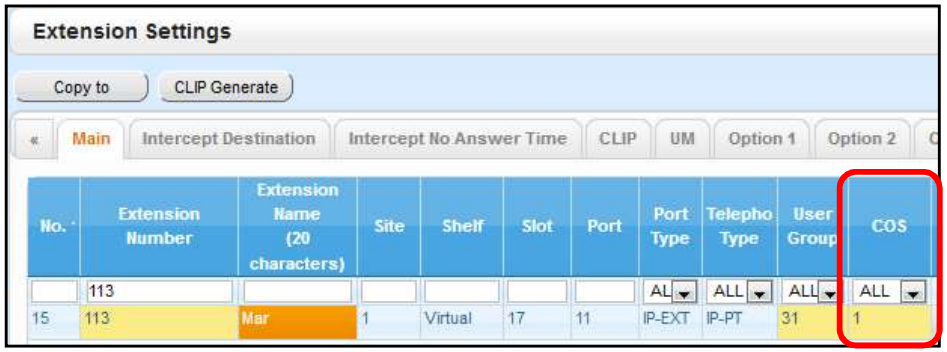
การโปรแกรมเบื้องต้นเหมือน Conference Group feature.

Recorded message สามารถทำการ Broadcast automatically.

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



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

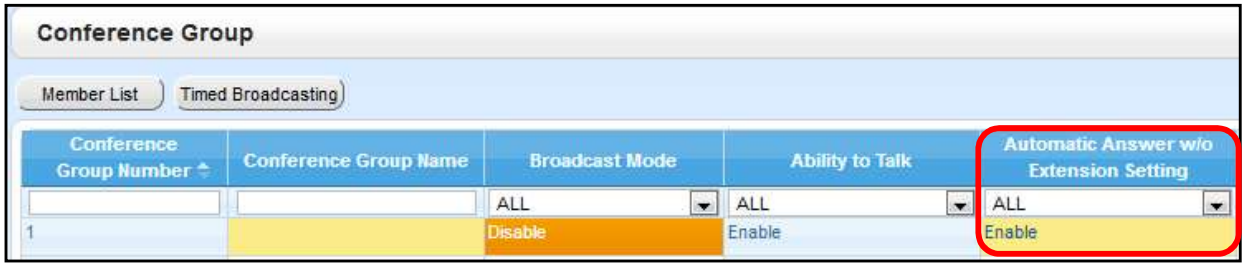


Continues next page...

Built-In Automatic Paging (Broadcast Recorded Message)

3) เพิ่มสมาชิกใน Conference Group

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

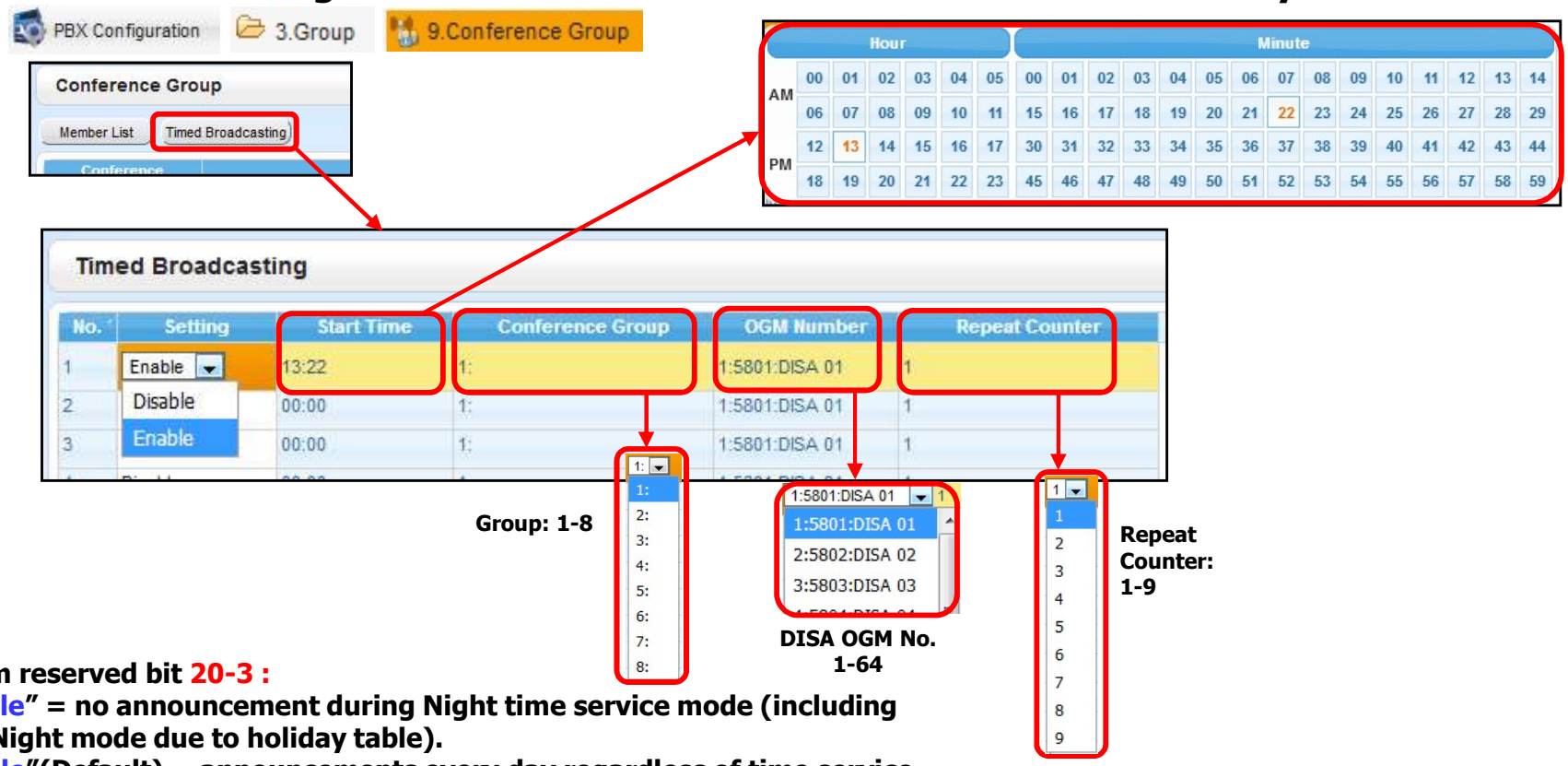


Note : If receiving group includes SIP terminals without auto-answer option, the device will ring and until Timed Reminder ringing duration setting.

Built-In Automatic Paging (Broadcast Recorded Message)

Timed Broadcast

Recorded message สามารถตั้งเวลาในการ Broadcast แบบ automatically ไว้ก่อนได้



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.

Built-In Automatic Paging (Broadcast Recorded Message)

Timed Broadcast

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

Panasonic Name Notification to PRI / SIP Trunk

Option 99

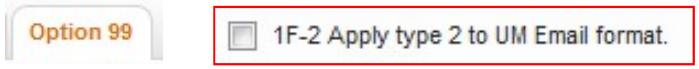
☐ 1F-3 Send the name of the user group to PRI and SIP trunk.

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.**

UM E-mail Improvement

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



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

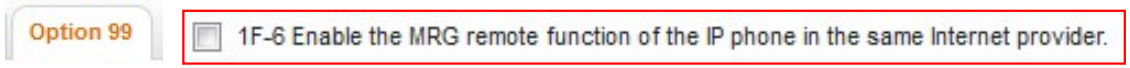
3) Caller name/number are recorded, even if extension caller deposits message directly to mailbox using #6 UM special key sequence.

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.

IP Class Security, V7 onward

NSv7 Reserved Bit now available in System Options – Option 99



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.

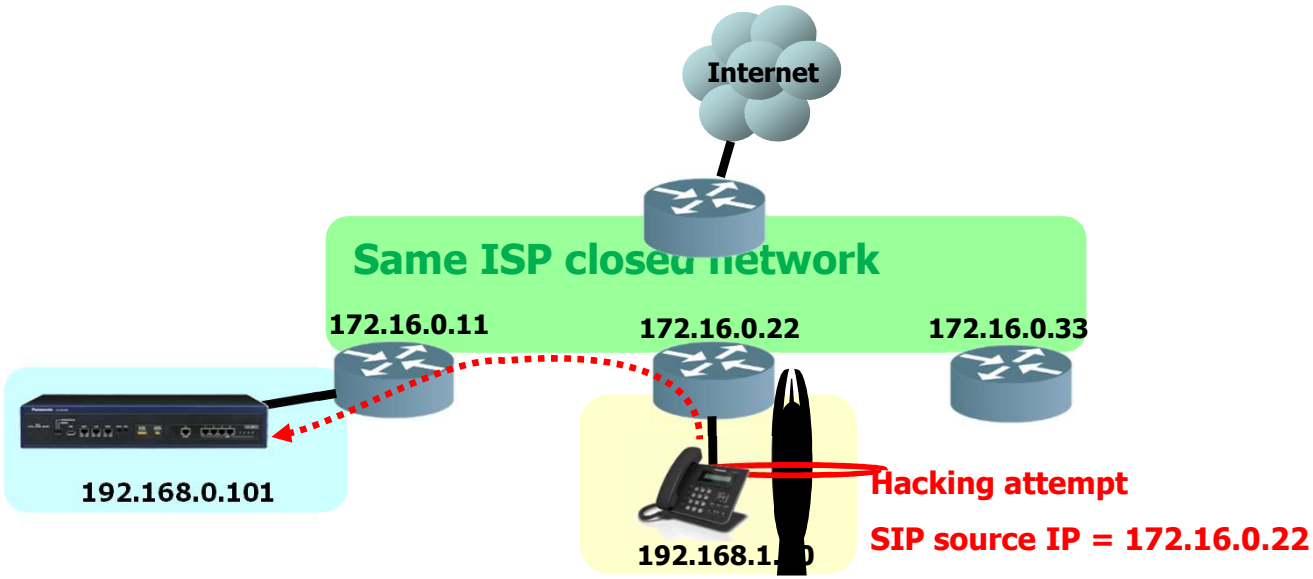
When IP phone is located via a Different Class IP Subnet to the PBX then registrations to "Local" ports are blocked

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 BUSINESS

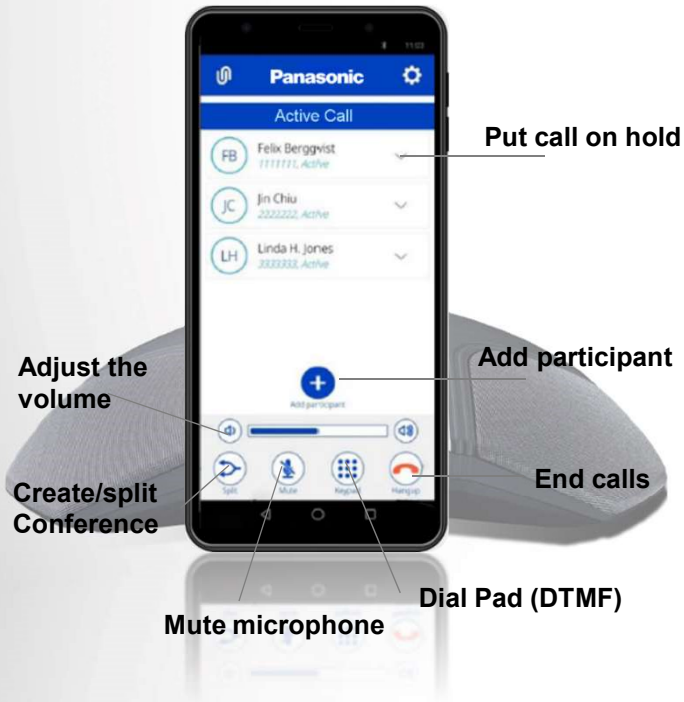
	Panasonic	Yealink	Polycom
	KX-HDV800	CP920	IP6000
Connection Protocol	SIP	SIP	SIP
External Phonebook (LDAP)	✓	✓	✓
Making Multi-party Calls	✓	✓	✓
Conference Capacity	Mid（Below 20people)	Mid（Below 16people)	Mid（Below 12people)
Microphone	1（Omnidirectional, 360˚)	3	3
Expansion Microphone	✓	✓	✓
Max. number 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	✓		

KX HDV800

Panasonic Conference-phone Application (Con-App)

Panasonic BUSINESS

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

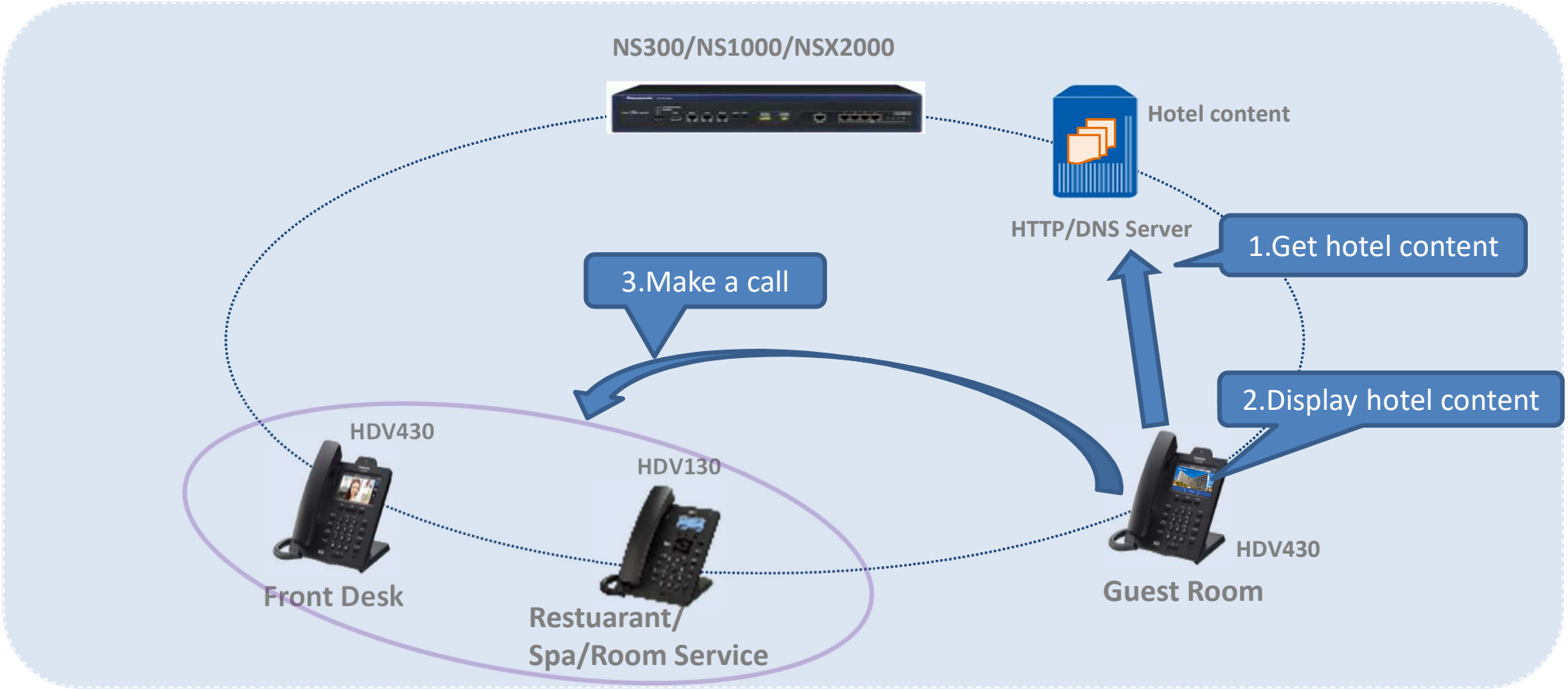
Hotel

Display
Hotel Content
(ex restaurant)

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

Call
restaurant

Diagram


NS300/NS1000/NSX2000
Hotel content
HTTP/DNS Server
1.Get hotel content
3.Make a call
2.Display hotel content
HDV430
HDV130
HDV430
Front Desk
Restuarant/
Spa/Room Service
Guest Room

Hotel Promotion and Information

Hotel Promotion
(Top page)

Hotel Information

Service Information

Access Map

Restaurant

Restaurant

Restaurant Information

Meat

Italian

Seafood

Call restaurant

Spa Beatuty Salon,Room Service,Front Desk

Spa,Beauty Salon

Front Desk

Room Service

Call service

Appendix

item

File	Description
xml_demo.zip	XML content for Hotel
Installation_manual.pdf	How to install this below ・DNS/HTTP server ・XML content for HTTP Servier ・HDV430 for XML app How to change XML content ・image/softkey name ・call number ・timer

Flow – Hotel Promotion and Information

Time out 30s

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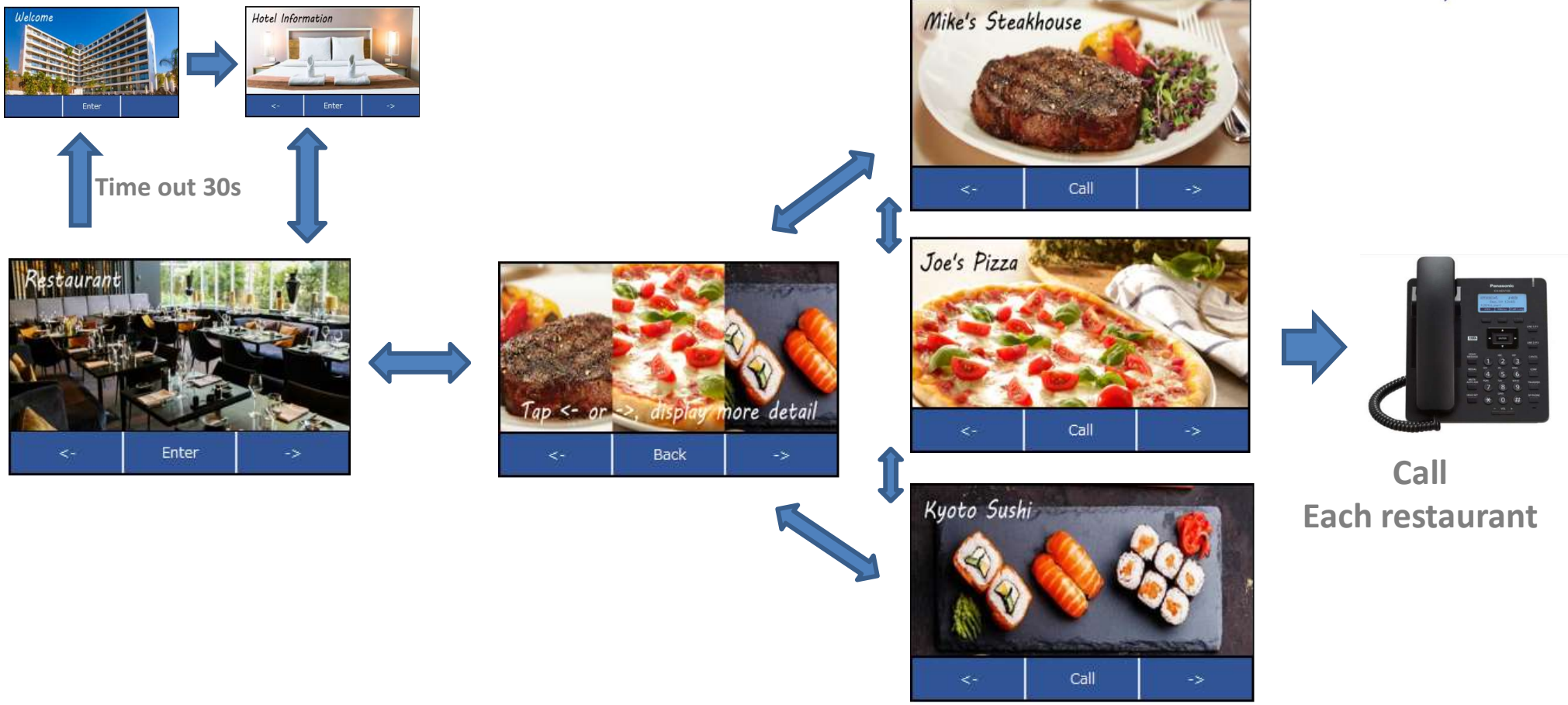
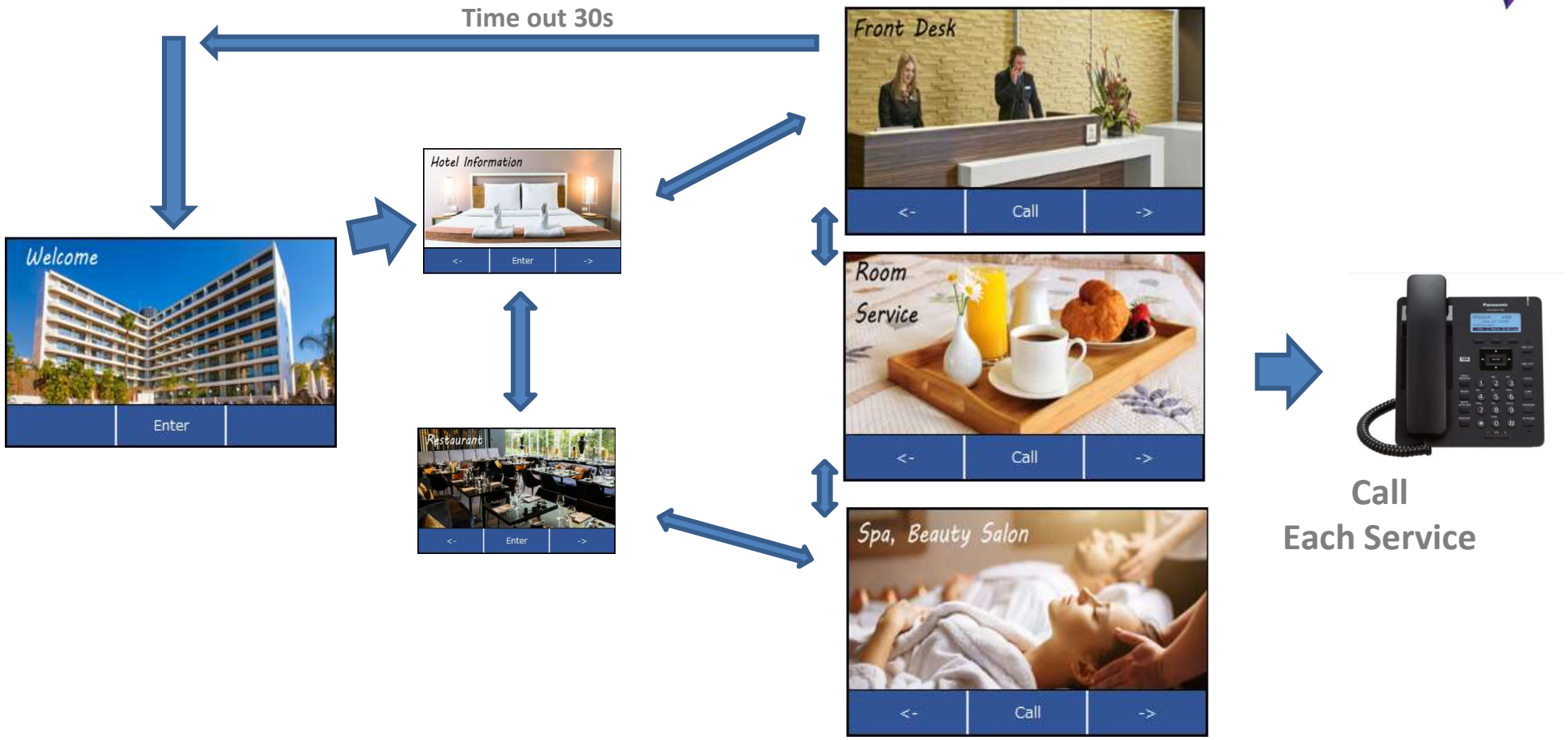
Flow – Restaurant



Flow – Spa,Room Service,Front



ขอบคุณครับ