

SL2100 (For NEC THAI)

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Part : Technical

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Introduction

Purpose

- This is supplementary document to describe the product overview and technical information/notice/Tips of SL2100, including the information of major differences between SL1000 and SL2100. This document is useful to understand new product (SL2100) easily.

Audience

- This document is prepared for the following people:
 - NEC group engineers who are responsible for SL1000/SL2100 in Asian market.
 - NEC resellers who sell SL1000/SL2100 in Asian market.

Note : This document may NOT be suitable for the members who do not have any knowledge / experiences of SL1000.

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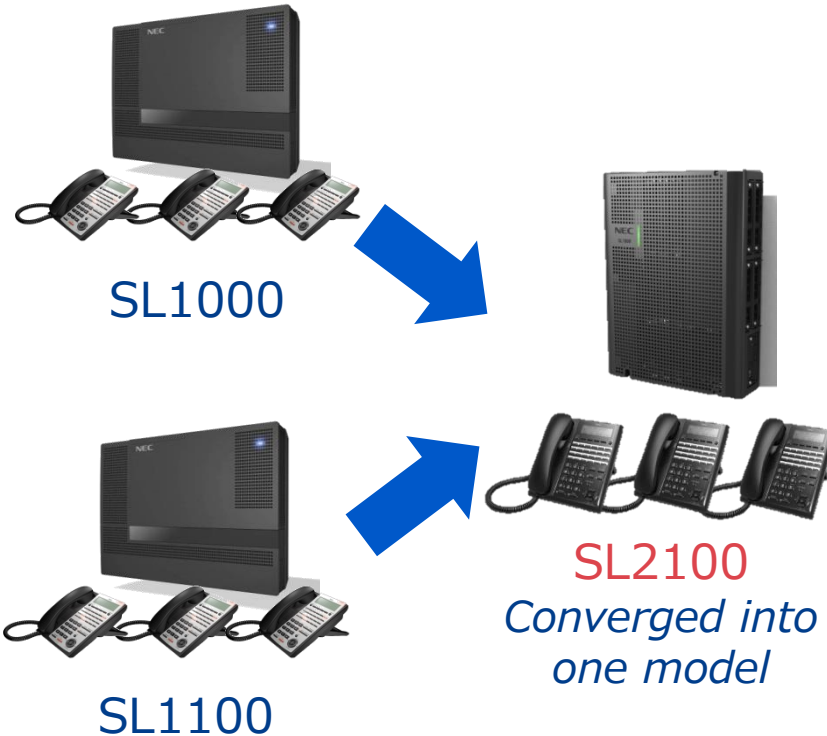
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- Reference : PRG List

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Product Positioning & Outline

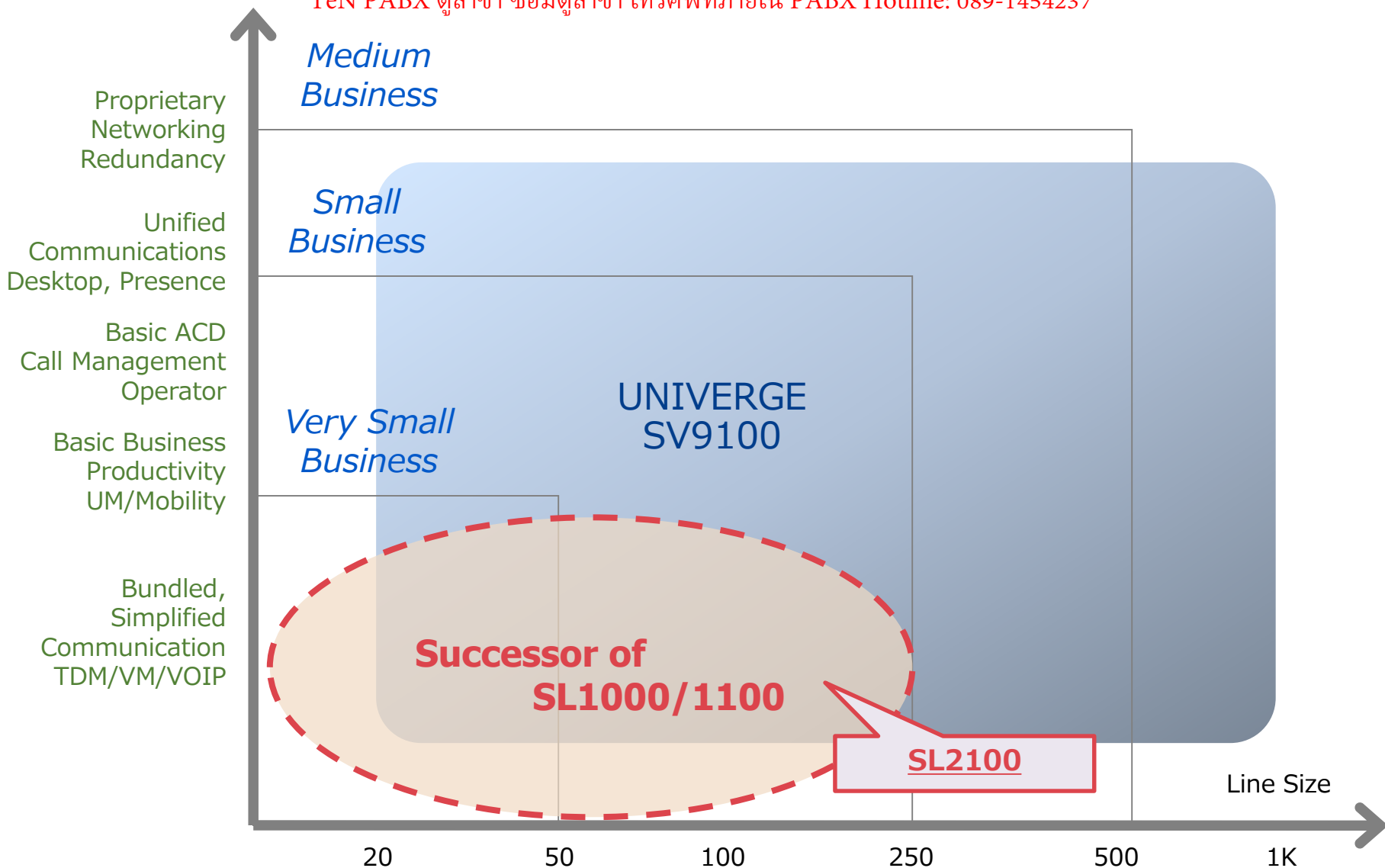
Target Market & Positioning

“SL2100” is the successor of current SL1000 and SL1100.

Current Product →	SL2100	Target Market	Product Positioning
 <p>SL1000</p> <p>SL1100</p> <p>SL2100 <i>Converged into one model</i></p>	<p>Asia Middle East Africa Russia Europe CALA North America Australia</p>	<p>SL2100</p> <ul style="list-style-type: none"> - Full Hybrid Design - Small TDM/IP Converge System - For Wholesaler (US) 	

SMB Product Portfolio

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Product Outline

New Designed Chassis and Terminals

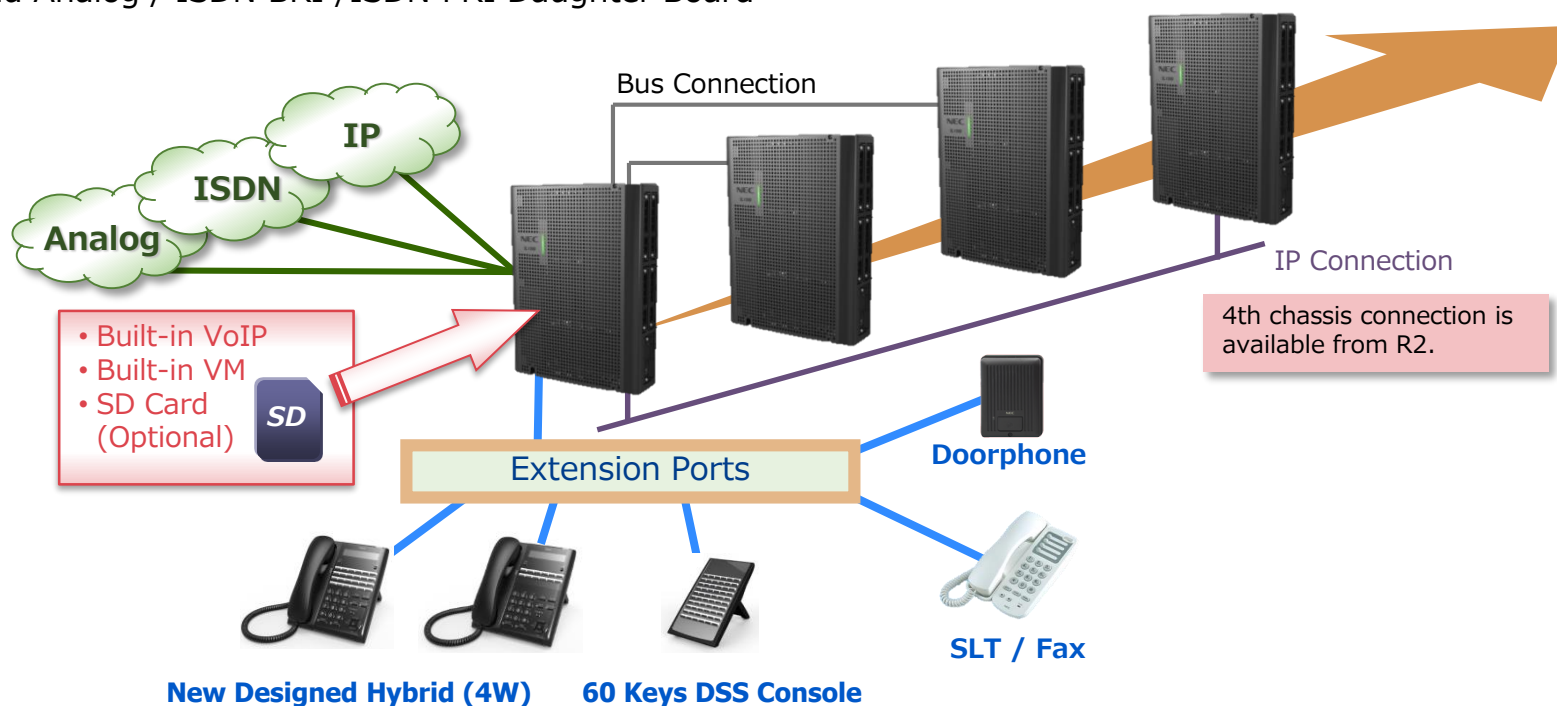
- Wall Mountable with Slot-In Design (Fan-Less) Chassis
- New cosmetic designed Hybrid / IP Multi-Line terminals

Wide system capacity coverage

- Up to 3 Chassis by Bus Connection, and support 4th Chassis by IP connection if required (From R2)
- Flexible system configuration by Hybrid Ext Board and Analog / ISDN BRI /ISDN PRI Daughter Board

Value-Added Features

- Support Built-In VM (approx. 2 hours recording storage) / Built-In VoIP Channels (Max 8ch capability) / On-board Application (Lua) / Web Base InUC Client (Simple Presence/IM, Call Control, by WebRTC technology)
- Support Max 128 of VoIP Channels by new designed VoIPDB Board



Product Outline (Chassis & Terminals)

New Designed Chassis

- Wall Mountable with Slot-In design (Fan-Less) Chassis
- Enable horizontal installation but no 19-inch Rack Mount Kit support and no stacking installation in case 2 or more than 2 Chassis
- 4 Universal Slots and 1 CPU/EXIFE Slot
- Enable to expand up to 3 Chassis (1 Main and 2 Exp. Chassis) by Bus Connection, and support 4 Chassis by IP connection if required (From R2)
- No Power-on-Maintenance (Hot-Swap) support
 - Option Board must be inserted or removed in power-off state.
 - Option Board inserted in power-on state is never recognized by the system. (Power-off, then power-on is required.)

Chassis (Image)



New Designed Terminals

- New cosmetic designed Hybrid (4W) SL2100 Terminals
- Up to 2 types (12 Keys / 24 Keys) are prepared for Hybrid (4W)
- Only Black color is available
- Proprietary design of 8 keys IP DESI-Less is prepared as well.

Terminals (Image)



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Hardware Line-Up & Description

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Hardware Item List (1)

Category	BE Code	Item Name	Description	Market	
				Asia	China
Chassis	BE116493	IP7WW-4KSU-C1	Main/Expansion Chassis w/ AC Cable (EU <2-pin> type) - Power Supply with Backup Battery Circuit - CPU/EXIFE Slot : 1, Universal Slot : 4	○	
	BE116495	IP7U-4KSU-C1	Main/Expansion Chassis w/ AC Cable (China type) - Power Supply with Backup Battery Circuit - CPU/EXIFE Slot : 1, Universal Slot : 4		○
CPU	BE116499	IP7WW-CPU-C1	SL2100 Main Processor Board (w/ Main Software) - VoIPDB daughter board Connector : 1 - EXIFB daughter board Connector : 1 - SD Card Slot : 1	○	○
Option Items on CPU	BE116500	IP7WW-VOIPDB-C1	VoIP GW daughter board (mount to CPU) Max 128ch	○	○
	BE116501	IP7WW-EXIFB-C1	System expansion BUS daughter board (mount to CPU) - 2 connectors for Exp. Chassis - Additional Telephony Resources	○	○
	BE116502	IP7WW-SDVMS-C1	SD Card (1GB) for InMail Storage	○	○
	BE116503	IP7WW-SDVML-C1	SD Card (4GB) for InMail Storage	○	○
Option Items for Chassis	BE116504	IP7WW-EXIFE-C1	Bus Board for Expansion Chassis (Install to CPU/EXIFE Slot of Exp. Chassis)	○	○
	BE110239	IP4WW-Battery Box	External Backup Battery Box (Battery itself is NOT attached)	○	○
Extension Boards	BE116505	IP7WW-308U-A1	3 Analog Trunks + 8 Hybrid Extensions Board	○	○
	BE116507	IP7WW-008U-C1	8 Hybrid/Analog Extensions Board	○	○
	BE116509	IP7WW-000U-C1	0 Extensions Board (for Trunk DB)	○	○

Hardware Item List (2)

Category	BE Code	Item Name	Description	Market	
				Asia	China
Trunk Daughter Boards	BE116510	IP7WW-3COIDB-C1	3 Analog Trunks daughter board (mount to 082U/008U/000U)	○	○
	BE116511	IP7WW-2BRIDB-C1	2 ISDN BRI daughter board (mount to 082U/008U/000U)	○	○
	BE116512	IP7WW-1PRIDB-C1	1 ISDN PRI daughter board (mount to 082U/008U/000U)	○	○
Multi-Line Terminals (Legacy)	BE116513	IP7WW-12TXH-A1 TEL(BK)	12 Keys, Hybrid (4W) Multi-Line Terminal (Black)	○	○
	BE116514	IP7WW-24TXH-A1 TEL(BK)	24 Keys, Hybrid (4W) Multi-Line Terminal (Black)	○	○
Multi-Line Terminals (IP)	BE116517	IP7WW-8IPLD-C1 TEL(BK)	<SL2100 Exclusive> 8 Keys, IP DESI-Less Multi-Line Terminal (Black) - No Ethernet Cable is attached	○	
	BE116968	IP7U-8IPLD-C1 TEL(BK)	<SL2100 Exclusive> (for China) 8 Keys, IP DESI-Less Multi-Line Terminal (Black) - No Ethernet Cable is attached		○
Terminal Options	BE116518	IP7WW-60D DSS-A1 CONSOLE (BK)	60 Keys, Hybrid (4W) DSS Console (Black)	○	○
	BE110790	IP4WW-WALL MOUNT UNIT	Wall Mount Kit for IP-MLT	○	○
Doorphone Box	BE106914	DP-D-1A	Doorphone Box	Same as current SL	
	BE108045	DP-D-1D	Doorphone Box		
	BE109741	DX4NA Doorphone	Doorphone Box		
	BE109742	HS.D503DOR-A	Doorphone Box		

<Notice>

All hardware items (except Multi-Line Terminals, Backup Battery Box, Doorphone Box) **do NOT have compatibility** between SL1000 and SL2100.

Precaution : Before Installing the System

To avoid personal injury or death

- Never work with the Equipment during electrical storms.
- Never install telephone wiring during a lightning storm.
- Use only commercial AC power to prevent shock or fire.
- Use the power cord supplied with the Chassis.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line is disconnected at the network interface.
- Plastic knockout on Chassis / Board for port must be removed properly otherwise you will get injured, and the board / cable connecter cannot be inserted correctly.



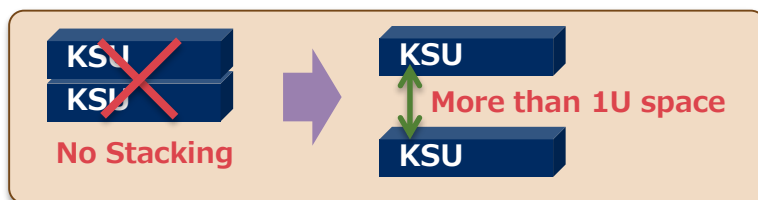
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IP7WW-4KSU-C1/IP7U-4KSU-C1

- Wall Mountable with Slot-In design (Fan-Less) Chassis

Enable horizontal installation but :

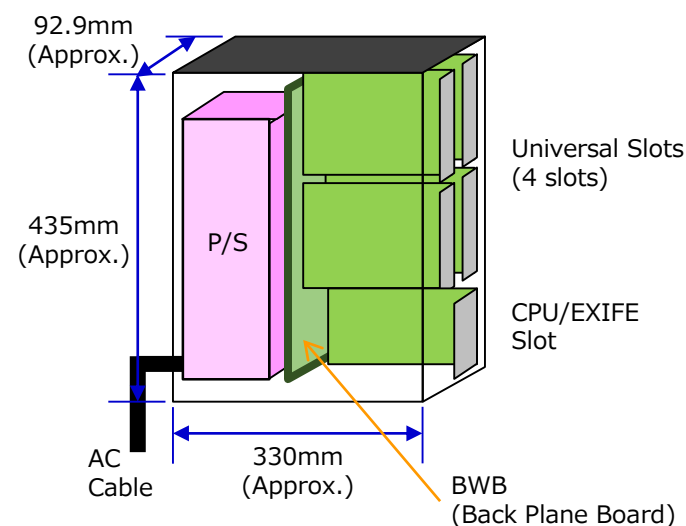
- No 19-inch Rack Mount Kit support
- No stacking installation in case of 2 or more than 2 Chassis



- 4 Universal Slots and 1 CPU/EXIFE Slot
- Enable to expand up to 3 Chassis (1 Main and 2 Exp. Chassis) by Bus Connection, and support 4 Chassis by IP connection if required. (From R2)
- No Power-on-Maintenance (Hot-Swap) support
 - Option Board must be inserted or removed in power-off state.
 - Option Board inserted in power-on state is never recognized by the system. (Power-off, then power-on is required.)
- Initially provide :



Power Supply <100-240V> (IP7WW-PSU)	1 connector for External Backup Battery
Back Plane Board (IP7WW-BWB)	1 connector for CPU/EXIFE slot 4 connectors for Option Board slots
AC Cable	See the right column

Chassis (Image)



<Note>

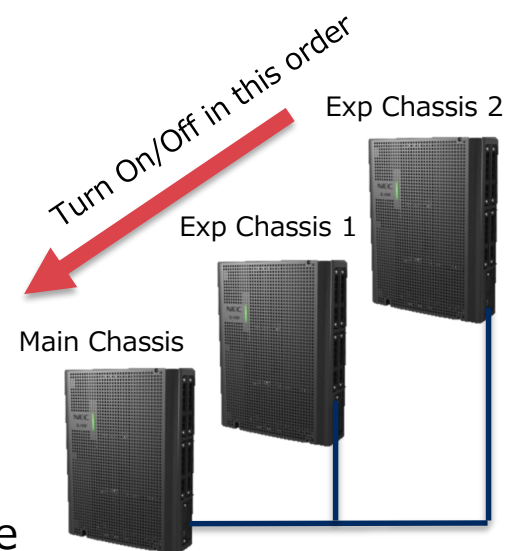
“Slot-4” does NOT SUPPORT any types of Multi-Line Terminals, while analog extensions and any type of Trunks are supported.

Item Name	AC Plug	Target
IP7WW-4KSU	 AC250V, 10A	Asia
IP7U-4KSU	 AC250V, 10A	China

Notice : Before Installing Chassis

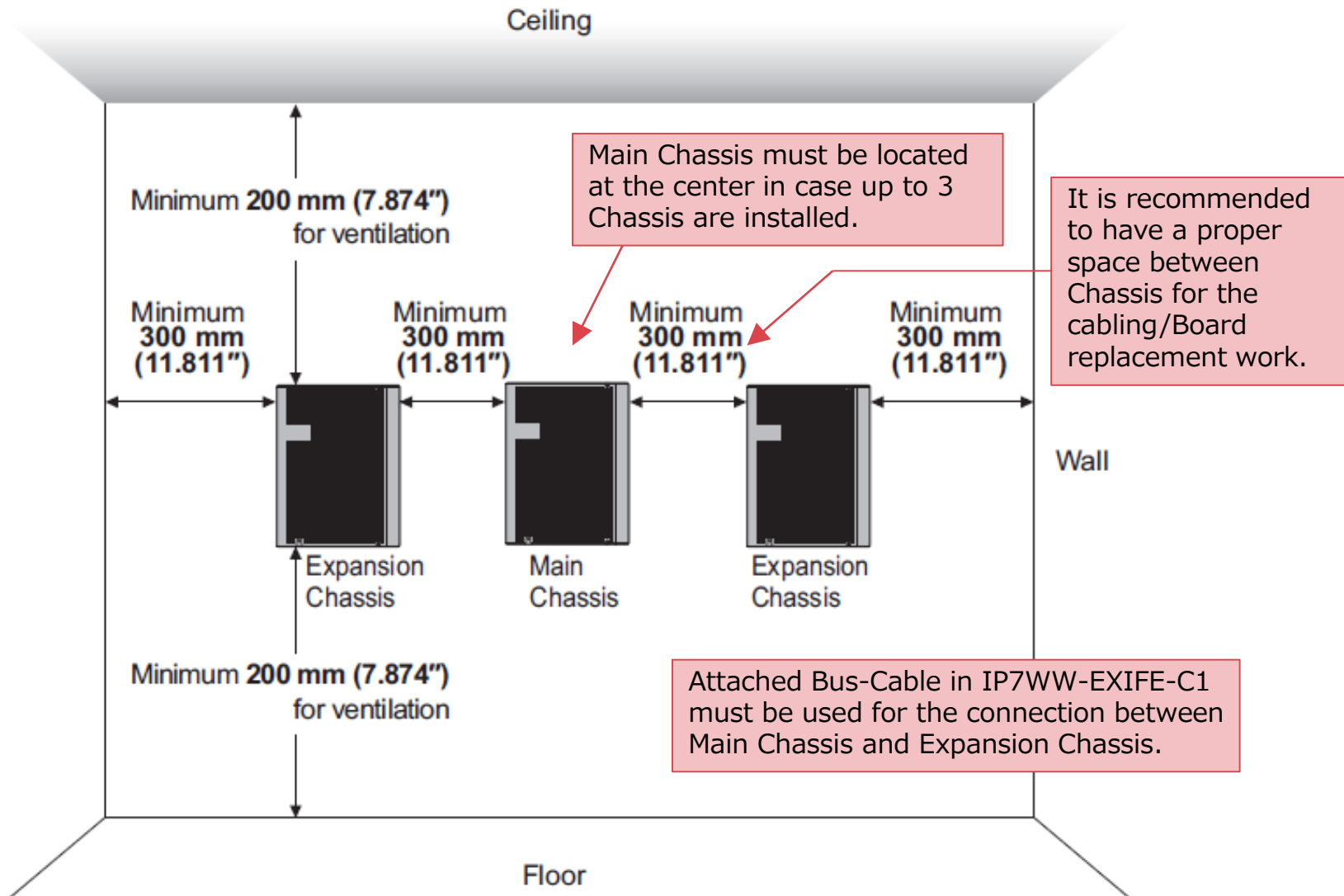
To avoid damage the Chassis

- No need to open the top cover of Chassis for the installation.
- The Chassis should not be placed on unstable surfaces.
- Never use an Electric Screw Driver to tighten the screws.
- To prevent overheating, do not bundle AC power cords together.
- Do not plug in or turn the system power on before completing the installation process. (When the power is on, you can insert or pull optional boards, but these boards will not be recognized by the system.)
- Make sure the Chassis has proper Earth ground.
- If Expansion Chassis are installed, turn the power on/off in the following order: Expansion 2 Chassis, Expansion 1 Chassis and then Main Chassis (to tell the difference between Main Chassis and Expansion Chassis, just check the card installed in the CPU/EXIFE Slot)



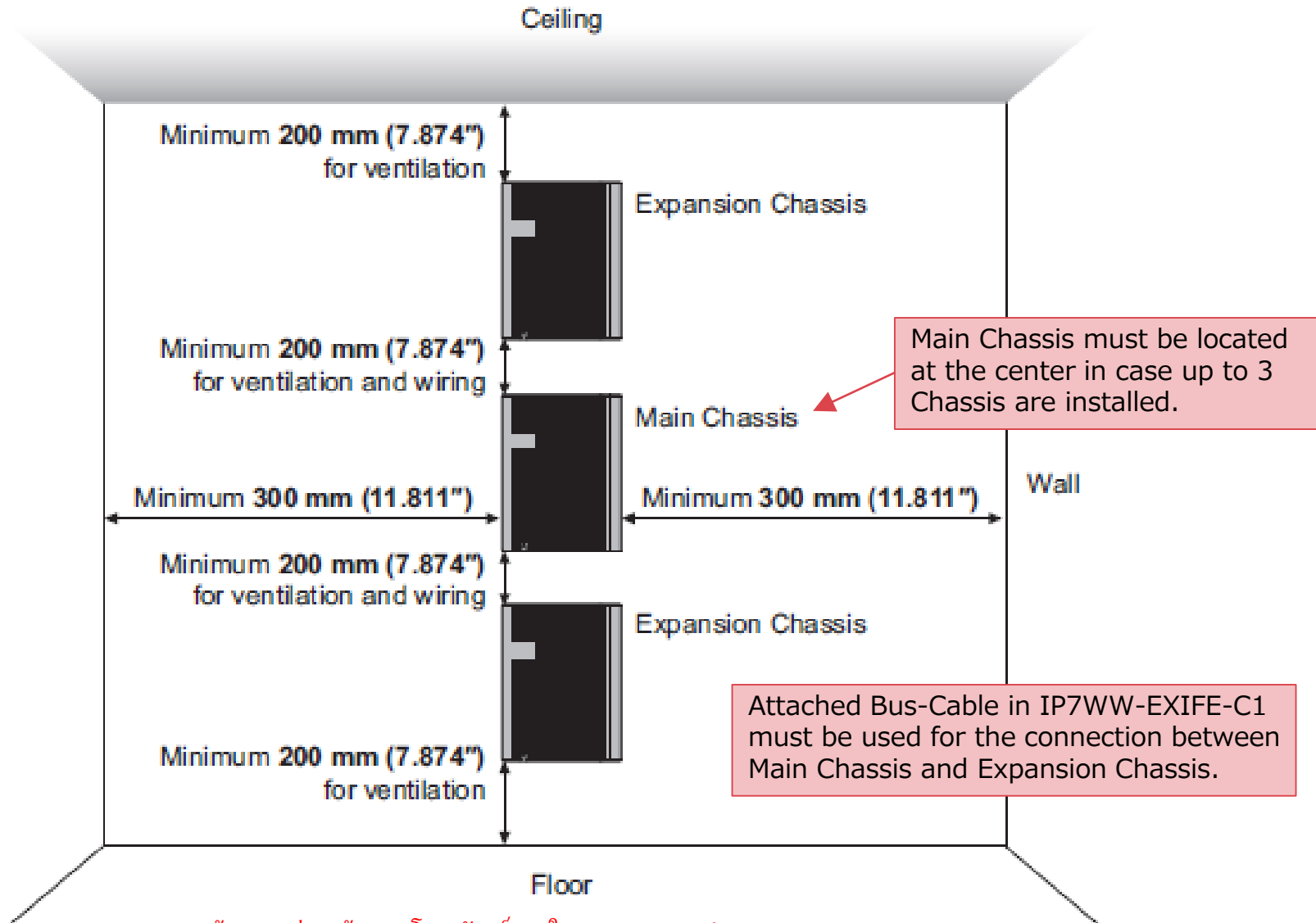
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Wall Mounting : To Install Chassis Horizontally



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Wall Mounting : To Install Chassis Vertically

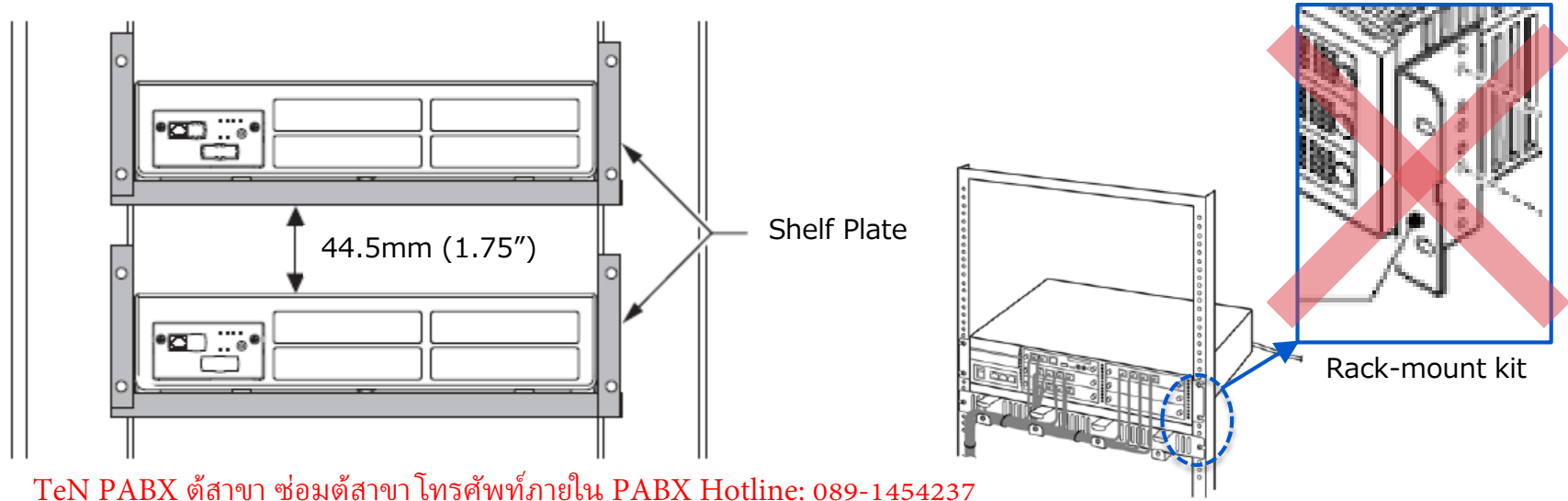


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Rack Mounting

Notice

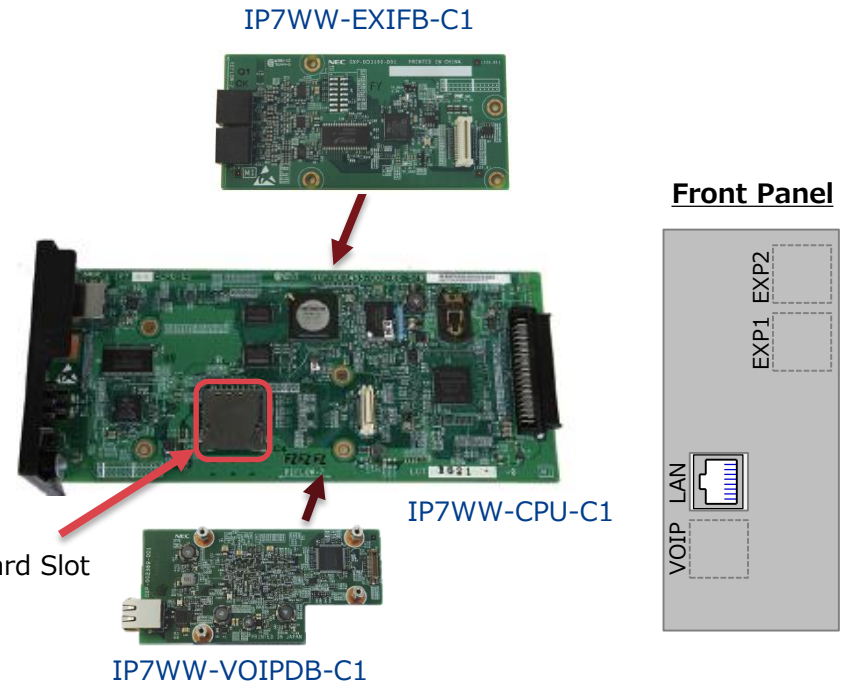
- Main or Expansion chassis can be put into 19-inch rack using a shelf plate (local supply) one by one.
- Do not forcibly use the rack-mount kit (local supply) instead of shelf plate.
- In case the system requires two or three chassis simultaneously put on the shelf plate of 19 inch rack, the proper space (at least "1U") must be required between chassis for heat ventilation.
- Do not stack two or three chassis per one shelf plate.



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IP7WW-CPU-C1

- SL2100 Main Processor Board with Main Software
- Install to the CPU/EXIFE slot of Main Chassis
- Support Built-In VoIP Resource (Max 8ch) and Built-In VRS/VM (InMail) (Max 4ch)
- Support approximately 2 hours message storage for VRS/VM (InMail) without SD Card
- Initially provide :
 - 1 x Ethernet (100M) port (RJ45)
Note : It does not support the Half-Duplex and 10M bps.
 - 1 x VoIPDB daughter board connector
 - 1 x EXIFB daughter board connector
 - 1 x SD Card slot (for VRS/VM storage)



Default Features by CPU	
•	4ch of VRS/VM (InMail)
•	2 Hours of VRS/VM (InMail) Recording Storage
•	1 Voice Prompt(*) of VRS/VM (InMail)
•	8ch of VoIP Channels
•	4 Clients of Mobile Extension
•	4 Sessions of Web based Video Conference

DSP on CPU	Telephony Resources (for DTMF/DT/BT Detection, FSK CID Receiver/Sender)	28
	Tone Sender Resources (for System Tones sender, DTMF Sender)	128
	Conference Resources	32

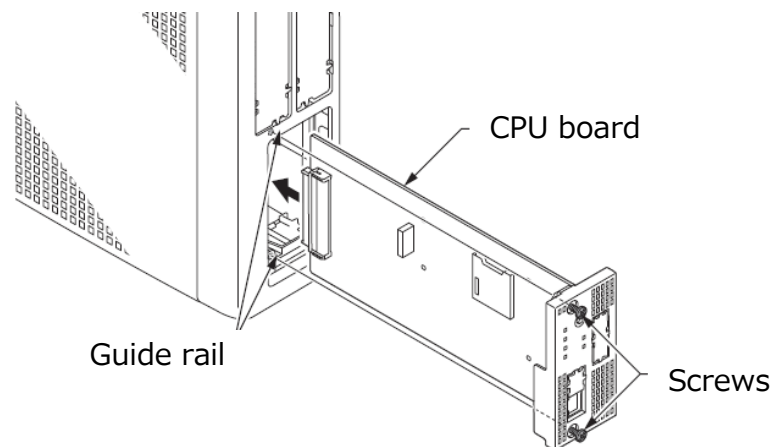
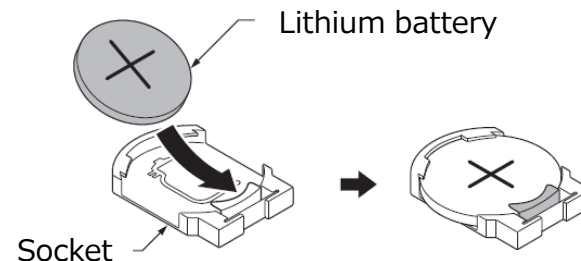
(*) Default language is UK English, and it can be changed to other language by WebPRO. (Language Pack will be separately supplied)

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Notice for CPU Installation

Notice

- Before inserting the CPU to the Chassis, make sure the battery should be installed with “+” symbol on the top.
- Plastic knockout on Chassis / board for port must be removed properly otherwise you will get injured, and the board / cable connector cannot be inserted correctly.
- Insert the CPU board at the CPU/EXIFE Slot of **Main Chassis**.
- **Do not insert / remove the CPU board during Power-On condition.**
- Make sure VoIP board and EXIFB board are installed correctly, otherwise they will not work correctly.

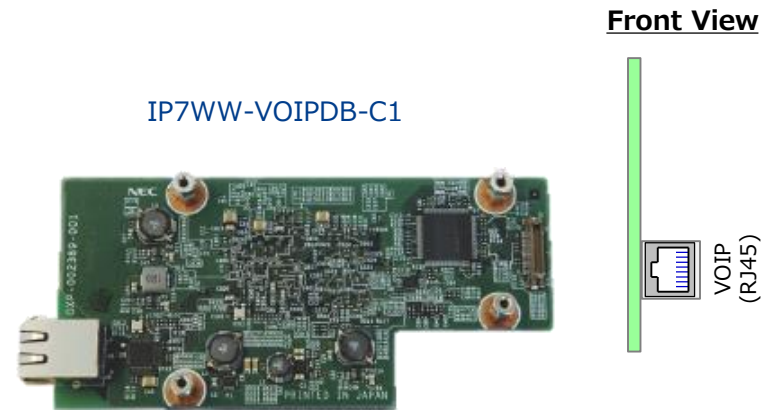


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Optional Items for CPU (1)

IP7WW-VOIPDB-C1

- VoIP Gateway Daughter Board
- Mount to the CPU (VoIPDB Connector)
- Support Max 128ch
(Available number of VoIP Channels are controlled by license)
- Initially provide :
 - 1 x Ethernet (100/1000M) port (RJ45)
Note : It does not support the Half-Duplex and 10M bps.



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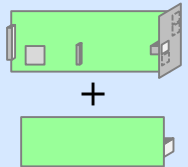
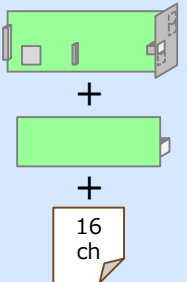
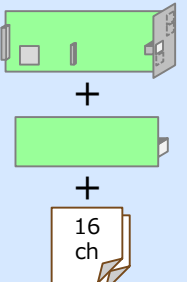
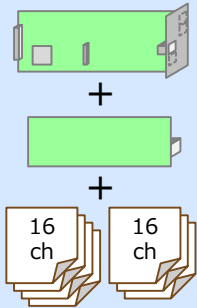
VoIP Resources

Built-In VoIP

- Up to 8 channels of Built-In VoIP resource are initially available on CPU.
- Enable to enjoy the SIP Trunks / IP Extensions just installing the necessary number of SIP Trunk / IP Extension Licenses, without any additional hardware.
- Specially IP7WW-8IPLD-C1 (SL2100 IP Terminal) does NOT need the IP Extension License. (The element of IP Extension License is initially included into this terminal)

VoIP Board

- There is an optional hardware (IP7WW-VOIPDB-C1) which has capability to provide maximum 128 channels of VoIP resources.
- Up to 16 channels of VoIP resources are available per system in case IP7WW-VOIPDB-C1 is installed.
- Enable to increase the number of VoIP resources by adding necessary number of licenses (Additional 16 channels of VoIP resources).

		CPU Only	CPU w/ VOIPDB	CPU w/ VOIPDB and 16ch Lic (x1)	CPU w/ VOIPDB and 16ch Lic (x2)	-->	CPU w/ VOIPDB and 16ch Lic (x7)
							
VoIP Channels	Non-SRTP	8 ch	16 ch	32 ch	48 ch	-->	128 ch
	SRTP	8 ch	16 ch	32 ch	48 ch	-->	128 ch

Required Number of VoIP Channels

	SLT	SL2100 Hybrid Ext.	SL2100 IP Ext.	Standard SIP Ext.	IP Trunk (H.323/SIP)	Legacy Trunk	Networking (AspireNet)
SLT	0	0	1	1	1	0	1
SL2100 Hybrid Ext.	0	0	1	1	1	0	1
SL2100 IP Ext.	1	1	0(*) (P2P)	0(*) (P2P)	2	1	2
Standard SIP Ext.	1	0(*) (P2P)	0(*) (P2P)	0(*) (P2P)	2	1	2

Rules for channel needed:

- IP extension, SIP extension, IP trunk, and AspireNet consume one channel each.
- Hybrid extension, SLT and legacy trunk do not consume any channels.
- IP extension and SIP extension have Peer to Peer (P2P) feature in the default setting, when they do communications with each other, no channel is needed. (P2P Mode setting : refer to PRG15-05-50)

(*) In case one of IP terminals is located at the remote site by NAT traversal, one VoIP channel is required.

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CODEC & Bandwidth for VoIP

Supported CODEC

✓ : Support --- : Not Support

CODEC	DT800 Series	SIP Ext.	H.323 Trunk	SIP Trunk (*)	AspireNet
	PRG84-24	PRG84-19	PRG84-01	PRG84-13	PRG84-12
G.711	✓	✓	✓	✓	✓
G.729	✓	✓	✓	✓	✓
G.722	✓	✓	✓	✓	✓
G.726	---	✓	---	✓	---

(*) In case the supported CODEC type is fixed by the Carrier, PRG84-13 setting must be followed.

Required Bandwidth

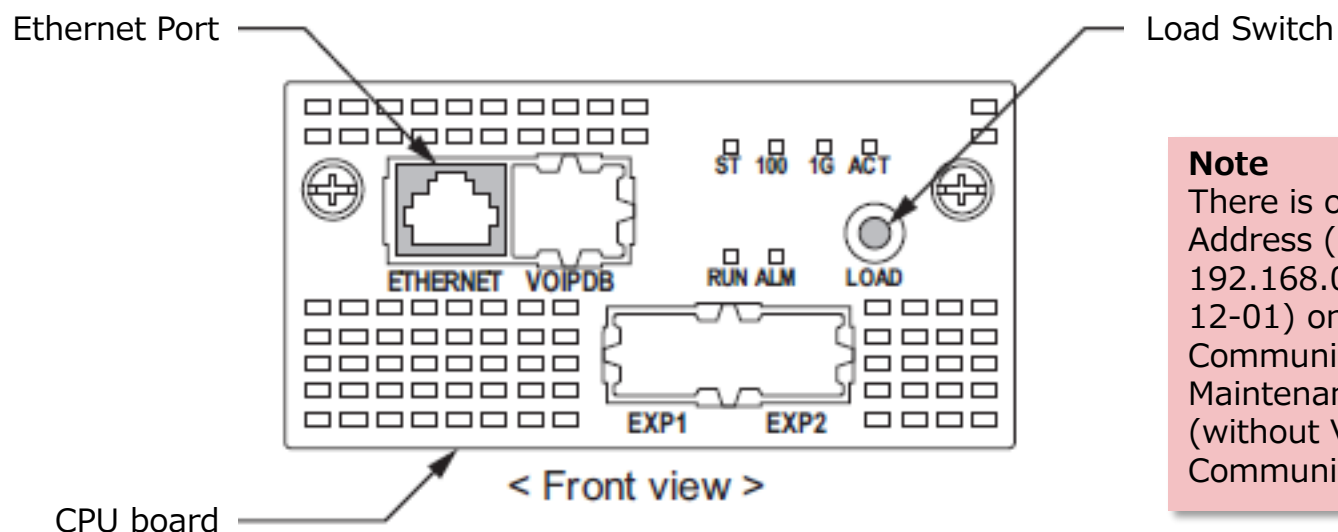
CODEC	Voice Information Field Size	Estimated Required Bandwidth per Call
G.711	10ms ~ 40ms	78 ~ 117 Kbps
G.729	10ms ~ 60ms	17 ~ 43 Kbps
G.722	10ms ~ 40ms	75 ~ 108 Kbps
G.726	10ms ~ 40ms	43 ~ 76 Kbps

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IP Address

In case VoIPDB is not installed on CPU

- Use an Ethernet Port on CPU for following purpose.
 - Data Communication (SMDR, CTI, etc.)
 - Maintenance (WebPRO/PCPRO)
 - VoIP Communication (by Built-in VoIP)
- Default IP Address : "172.16.0.10" (PRG10-12-09)
- Default Subnet Mask: "255.255.0.0" (PRG10-12-10)
- Default IP Address for RTP (VoIP) : "172.16.0.20" (PRG84-26-01)



Note

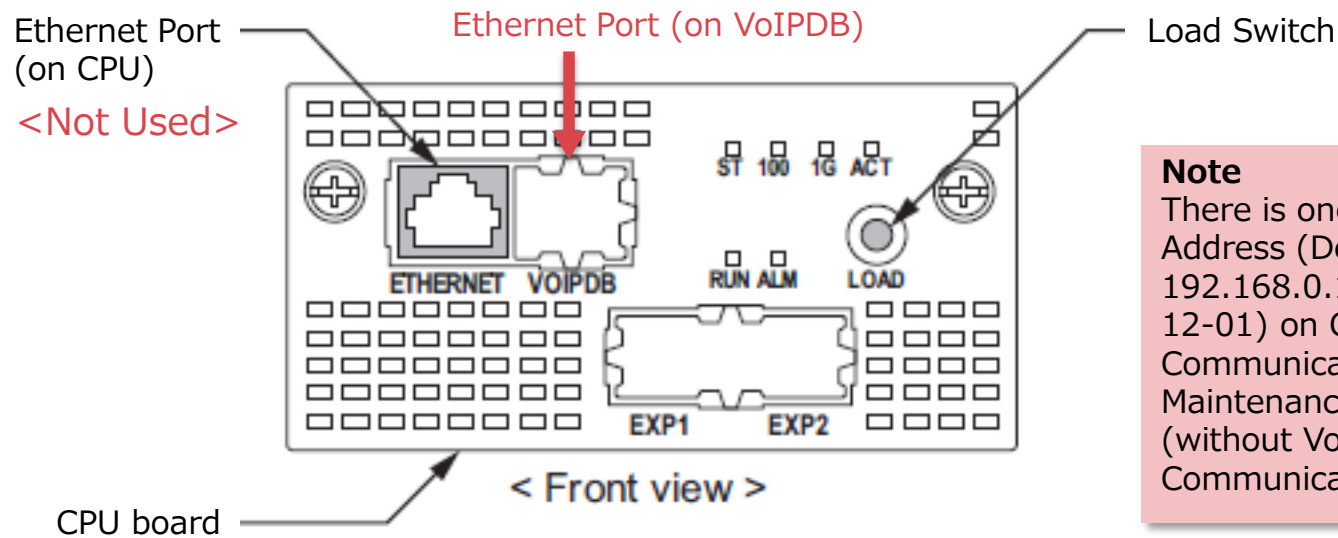
There is one more IP Address (Default : 192.168.0.10 by PRG10-12-01) on CPU for Data Communication & Maintenance purpose (without VoIP Communication).

IP Address

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In case VoIPDB is installed on CPU

- Use an Ethernet Port on VoIPDB for following purpose.
 - Data Communication (SMDR, CTI, etc.)
 - Maintenance (WebPRO/PCPRO)
 - VoIP Communication
- Default IP Address : "172.16.0.10" (PRG10-12-09)
- Default Subnet Mask: "255.255.0.0" (PRG10-12-10)
- Default IP Address for RTP (VoIP) : "172.16.0.20" (PRG84-26-01)



Note

There is one more IP Address (Default : 192.168.0.10 by PRG10-12-01) on CPU for Data Communication & Maintenance purpose (without VoIP Communication).

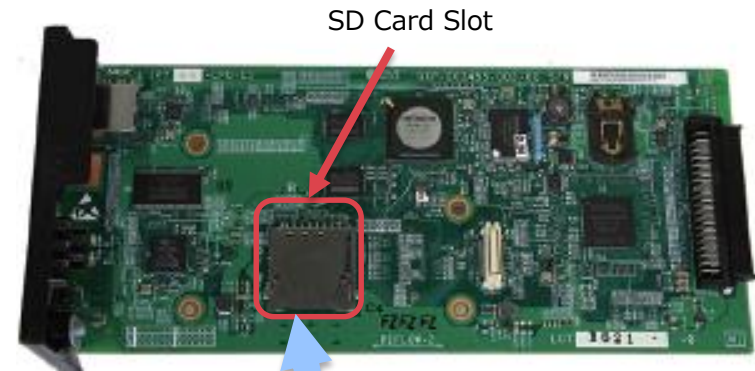
Optional Items for CPU (2)

IP7WW-SDVMS-C1 / IP7WW-SDVML-C1

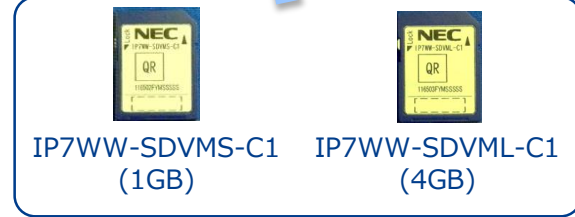
- SD Card for VRS/VM (In-Mail) storage purpose
- 2 types of SD Cards are prepared
 - SDVMS : 1GB (Approx. 15 hours recording)
 - SDVML : 4GB (Approx. 120 hours recording)
- Mount to the CPU (SD Card Slot)
- Up to 26 languages of voice prompts are stored in the SD Card

US English	Japanese
UK English	Mandarin Chinese
Australian English	Korean
French Canadian	Iberian Portuguese
Dutch	Greek
Mexican Spanish	Danish
Latin American Spanish	Swedish
Italian	Thai
German	Mandarin Chinese (Taiwan)
Madrid Spanish	Flemish
Norwegian	Turkish
Parisian French	Russian
Brazilian Portuguese	Arabic

IP7WW-4KSU-C1/IP7U-4KSU-C1



Either One


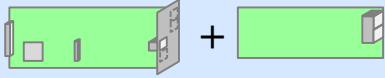


TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

VRS/VM (InMail) Configuration

VRS/VM (InMail) Channels TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

- Up to 4 channels of Built-In VRS/VM (InMail) are initially available on CPU.
- Enable to expand to 16 channels by adding optional hardware (IP7WW-EXIFB-C1).

	CPU Only	CPU w/ EXIFB
		
VRS/VM (InMail) Channels	4 ch	16 ch


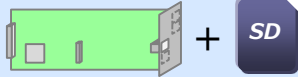
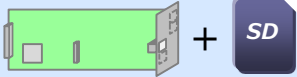
VRS/VM (InMail) Storage

- Approximately 2 hours message storage for VRS/VM (InMail) is initially available on CPU.
- There are two optional hardware (IP7WW-SDVMS-C1 / IP7WW-SDVML-C1) to expand the storage size. (SDVMS : Approx. 15 hours / SDVML : Approx. 120 hours)

Voice Prompts / VRS Message

(*) Default language is UK English, and it can be replaced to the other language by WebPro. (Language Pack will be separately supplied)

- One language(*) of Voice Prompts is initially available on CPU.
- Enable to use multi-language Voice Prompts in case optional hardware (IP7WW-SDVMS-C1 / IP7WW-SDVML-C1) is installed. Up to 26 languages are provided.

	CPU Only	CPU w/ SDVMS	CPU w/ SDVML
			
VRS/VM (InMail) Message Storage Size	2 hours	15 hours	120 hours
Number of Language (Voice Prompt)	1	26	
Number of VRS Messages	100		

Notice for VRS/VM (InMail)

Notice

- The system does NOT accept to use the blank SD Card (sale in a market) for the VRS/VM storage.
- When the SD Card is installed to the CPU board, all recorded messages in the memory at CPU board (built-in VRS/VM) shall automatically be copied to the SD Card. (After being copied to the SD card, the recorded messages still remain at CPU board but it is not used.)
- After using the SD Card for VRS/VM features and remove it from the CPU board, all recorded messages are NOT copied to the memory automatically at CPU board (built-in VRS/VM).

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Optional Items for Expansion

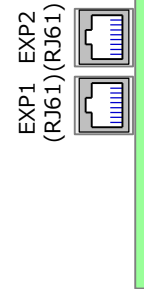
IP7WW-EXIFB-C1

- Bus Board for System Capacity Expansion
- Use this Board as VRS/VM (InMail) Channels expansion purpose as well (up to 16ch)
- Mount to the CPU (EXIFB Connector)
- Support Analog Modem (V.34)
- Additional Telephony Resources
- Initially provide :
 - 2 x Bus connectors for Expansion Chassis (RJ61)

IP7WW-EXIFB-C1



Front View



DSP on EXIFB	Telephony Resources (for DTMF/DT/BT Detection, FSK CID Receiver/Sender)	48
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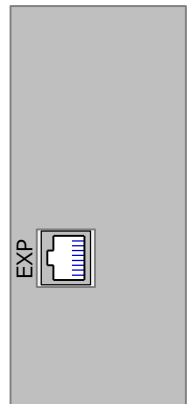
IP7WW-EXIFE-C1

- Bus Board for Expansion Chassis
- Install to the CPU/EXIFE slot of Expansion Chassis
- Additional Telephony Resources for Expansion Chassis
- Initially provide :
 - 1 x Bus connectors for Main Chassis (RJ61)

IP7WW-EXIFE-C1



Front Panel



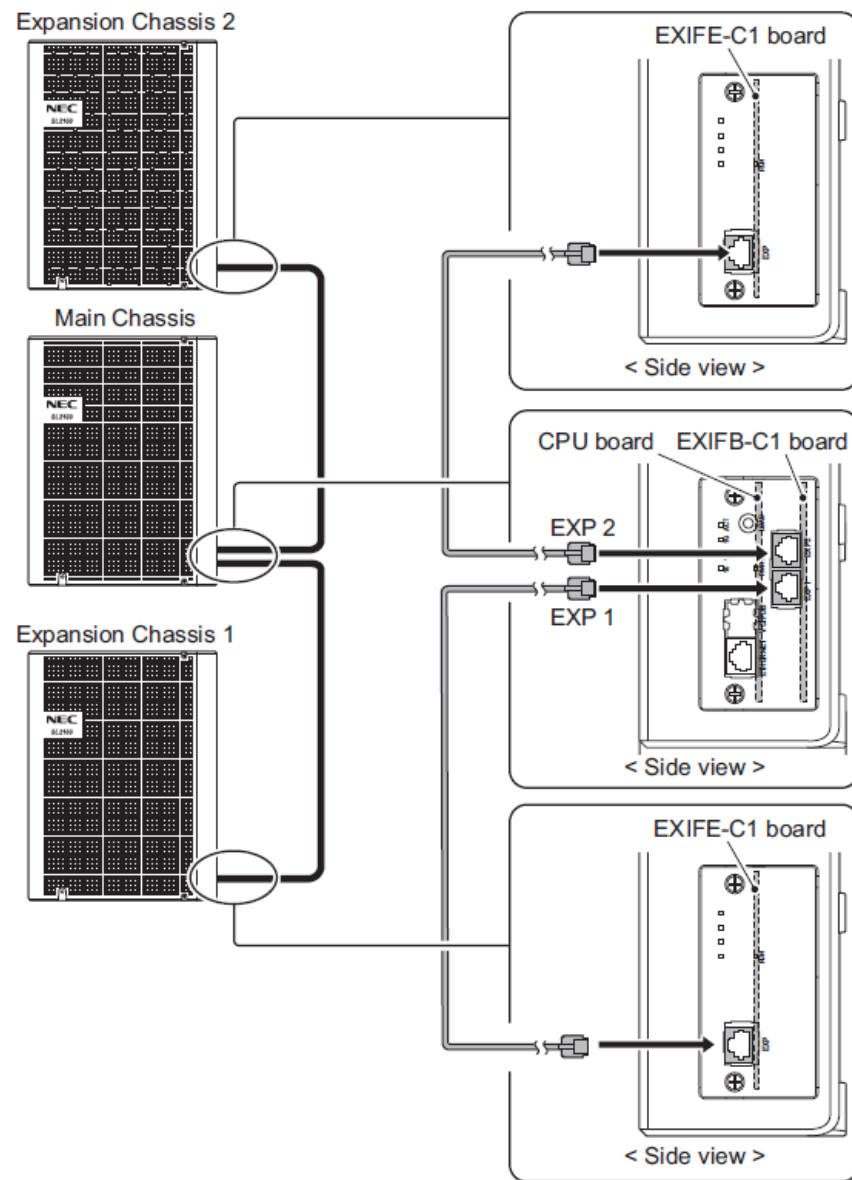
DSP on EXIFE	Telephony Resources (for DTMF/DT/BT Detection, FSK CID Receiver/Sender)	32
--------------	---	----

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

Notice for the EXIFB/EXIFE Installation

Notice

- Plastic knockout on Chassis / board for port must be removed properly otherwise you will get injured, and the board / cable connector cannot be inserted correctly.
- Insert the **CPU board with EXIFB board** at the CPU/EXIFE Slot of **Main Chassis**.
- Insert the **EXIFE board** at the CPU/EXIFE Slot of **Expansion Chassis**.
- **Do not insert / remove the CPU board / EXIFE board during Power-On condition.**
- Attached Bus-Cable in IP7WW-EXIFE-C1 must be used for the connection between Main Chassis and Expansion Chassis.



Reference : DSP Resources

DSP Resource is equipped on the CPU, EXIFB and EXIFE as below.

Purpose	CPU	EXIFB	EXIFE (1)	EXIFE (2)	Total
Telephony Resources - DTMF Detection - Dial Tone Detection - Busy Tone Detection - FSK (Caller-ID) Receiver / Sender	28	48	32	32	140
Tone Sender Resources - System Tones Sender - DTMF Sender	128	---	---	---	128
Conference Resources	32	---	---	---	32

- EXIFB board might be installed to increase the number of telephony resources for main chassis, even though no expansion chassis configuration.
- EXIFE board provides up to 32 telephony resources for the expansion chassis.
- Tone Sender and Conference resources are equipped on the CPU and are used by whole system.

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Optional Items for Chassis

IP4WW-Battery Box

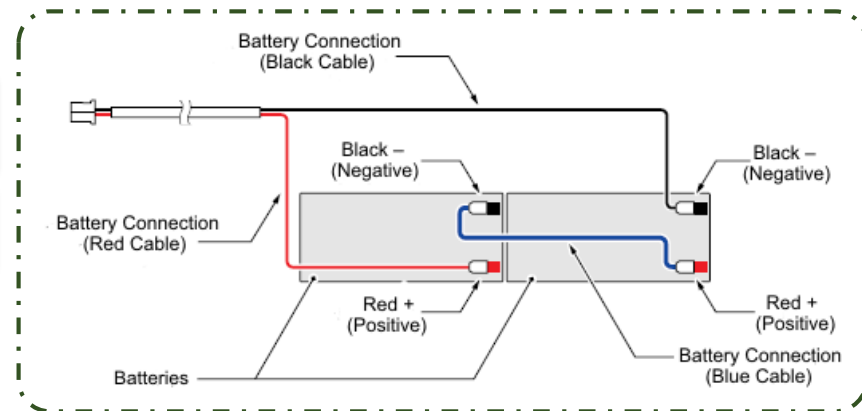
- External Backup Battery Box (Color : Black)
- Connect to the Power Supply at each Chassis (One box per Chassis)
- Wall / Floor mountable design
- Attach necessary cables
- Approx. 1 hour backup duration



Battery itself is local supply
(12V, 7AH x 2 pcs per BOX)

Recommended Battery : GS Yuasa NP7-12
Size (H x W x D) per Battery : 100 x 151 x 65 (mm)

Note : This is common item for SL1000/SL2100.

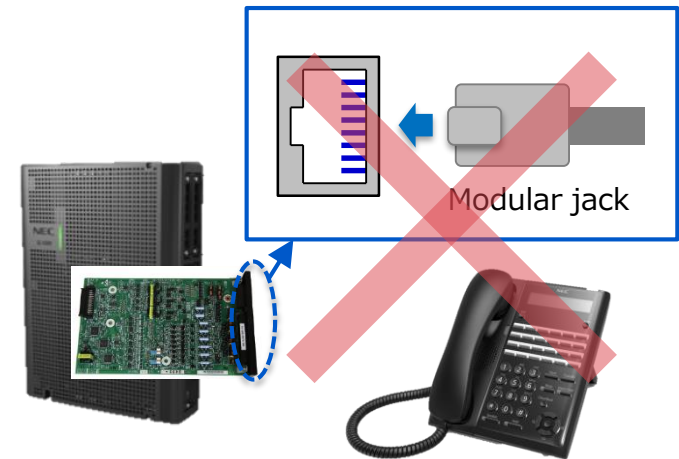
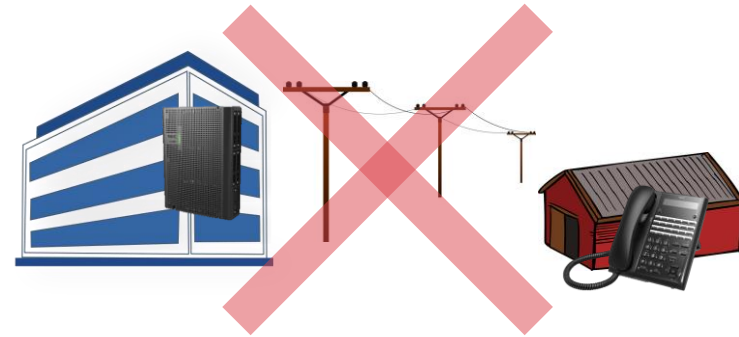


TeN PABX ตู้สาขา ช่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

Notice for Trunk/Extension Installation

Notice

- Aerial and outdoor distribution wiring is NOT allowed for extensions. (Extension cabling must be indoor only)
- Trunks must be installed with lightning protectors.
- Do not insert the modular jack of terminal cable into extension board **directly**, because one extension connector supports 2 ports and proper cabling is required.
- If you want to install Doorphone / External Sensor Device, note they are defined by hard switch and PRG setting.



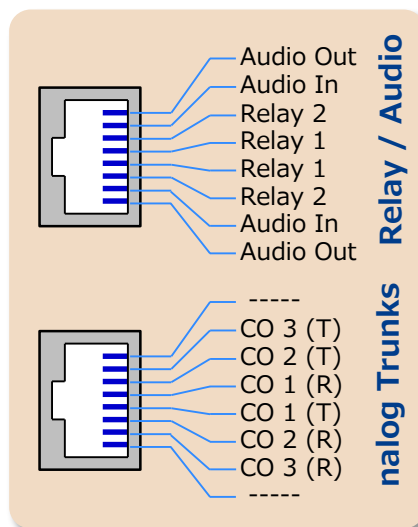
TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

Extension Boards (1)

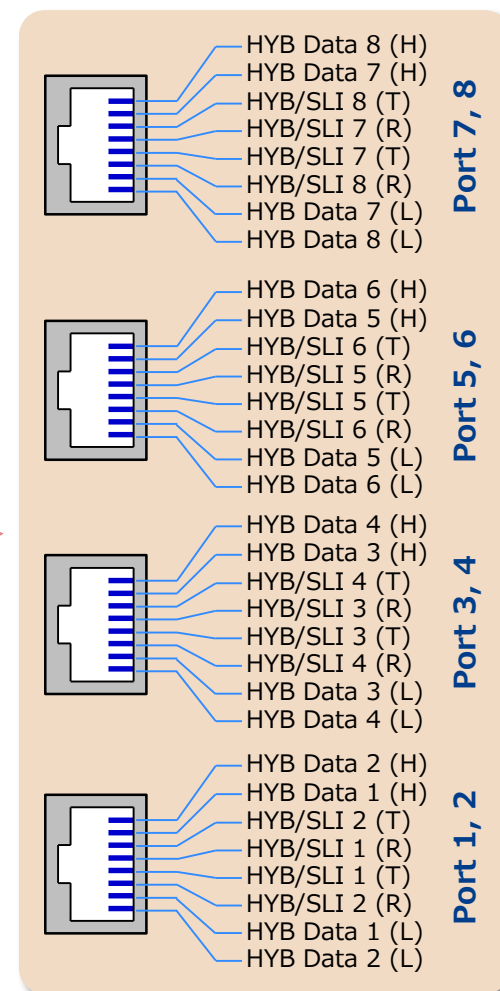
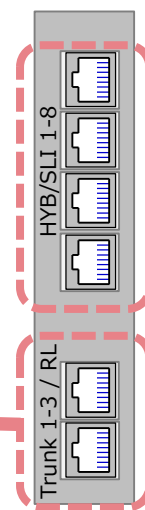
IP7WW-308U-A1

- Install to the Universal Slot
- 3 x Analog Trunk Ports (1 x RJ61)
- 8 x Hybrid/Analog Extension Ports (4 x RJ61)
- 2 x Relays (Door/Audio Control)
- 1 x Audio Input (ExMOH/BGM)
- 1 x Audio Output (Paging)
- Enable to connect the DSS Console to Port No.8
- Enable to connect up to 2 Doorphones or External Sensor Device to Port No.6 and No.7 (by Hard-Switch and PRG setting) (Improve the voice quality of Doorphones)

IP7WW-308U-A1



Front Panel

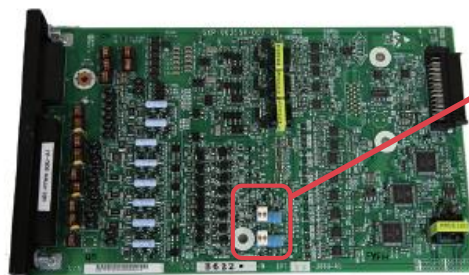


Extension Boards (2)

IP7WW-308U-A1 (Cont'd)

- Port type setting for Doorphone / External Sensor Device is carried out by "Hard-Switch" and PRG setting.
- Specification for External Sensor Device is as below.

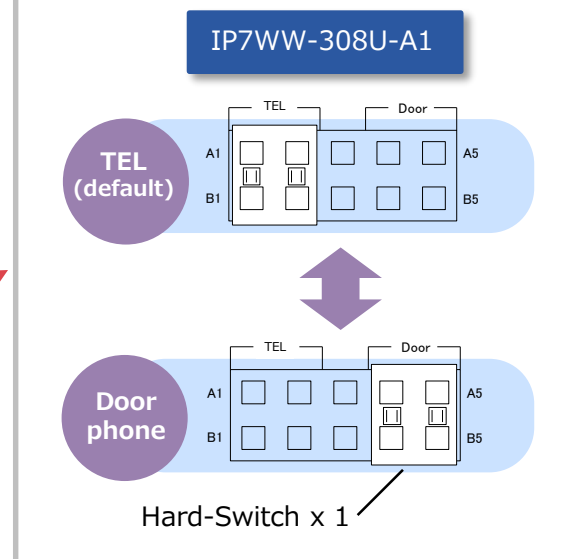
Hard-Switch position	Sensor mode	Applied Voltage during Sensor Off	Loop Current during Sensor On
TEL	Disable	-	-
Doorphone	Enable	25V	40mA



IP7WW-308U-A1

Switch Position

Use Needle-nose pliers to change switch position as below.



PRG	Description	Value	Default
10-03-01 (HBIU)	Terminal Type to be connected	Doorphone To define what kind of device will be connected here	SLT
10-03-05 (HBIU)	Port Type	Doorphone If it is set as "Doorphone", then the hard switch should be set as "Door".	Hybrid Port

Extension Boards (3)

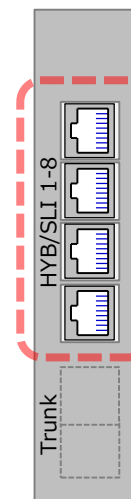
IP7WW-008U-C1

- Install to the Universal Slot
- 8 x Hybrid/Analog Extension Ports (4 x RJ61)
- 1 x Trunk Daughter Board connector
- Enable to connect the DSS Console to Port No.8

IP7WW-008U-C1



Front Panel



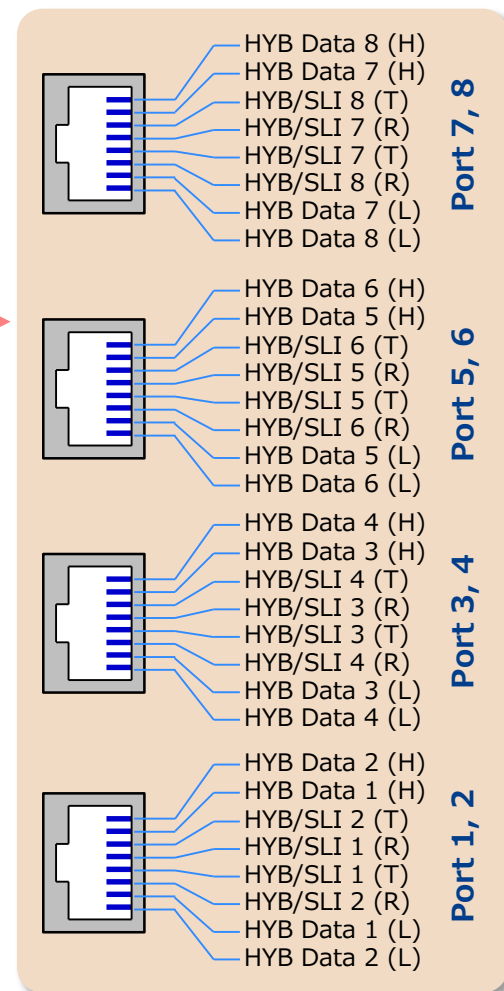
Front Panel



IP7WW-000U-C1

- Install to the Universal Slot
- 0 x Extension Ports
- 1 x Trunk Daughter Board connector

IP7WW-000U-C1



Extension Cabling (1)

Preparation

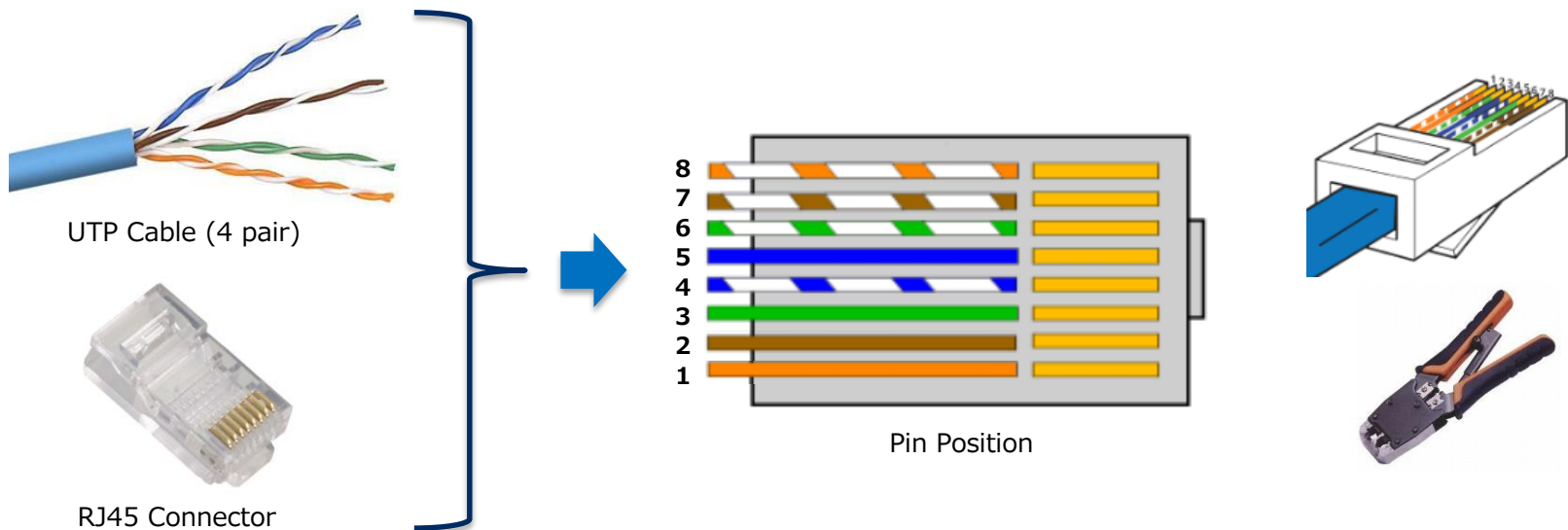
- UTP Cable (4 pair) without connectors
- RJ45 Connector
- Distribution Switchboard
- Crimping tool

<Note>

Consummated Ethernet Cable cannot be used for extension cabling because pin position is different.

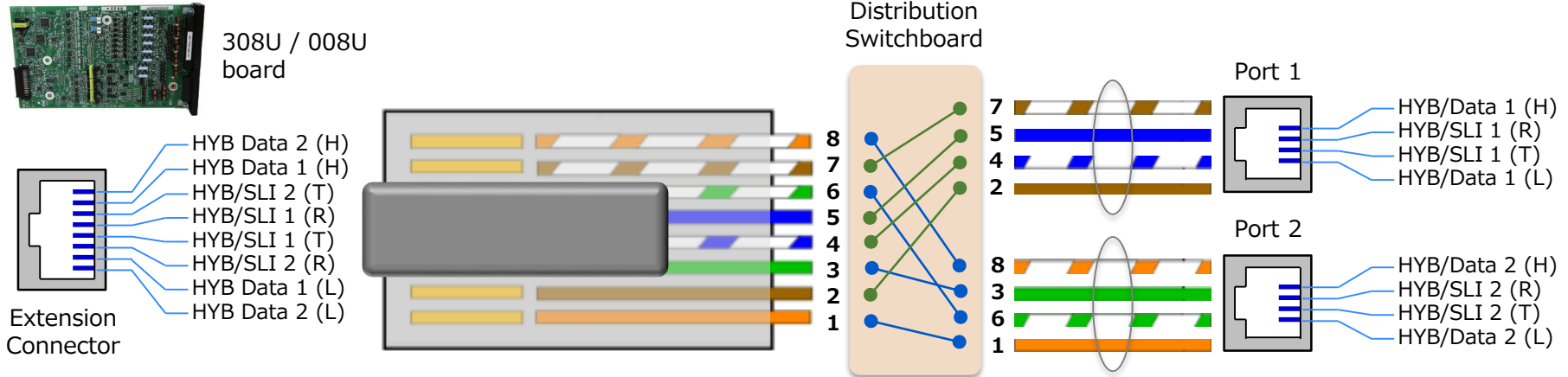
Connector Installation

Cut the shielded cover and insert cables into RJ45 connector. Use the crimping tool to fix it.

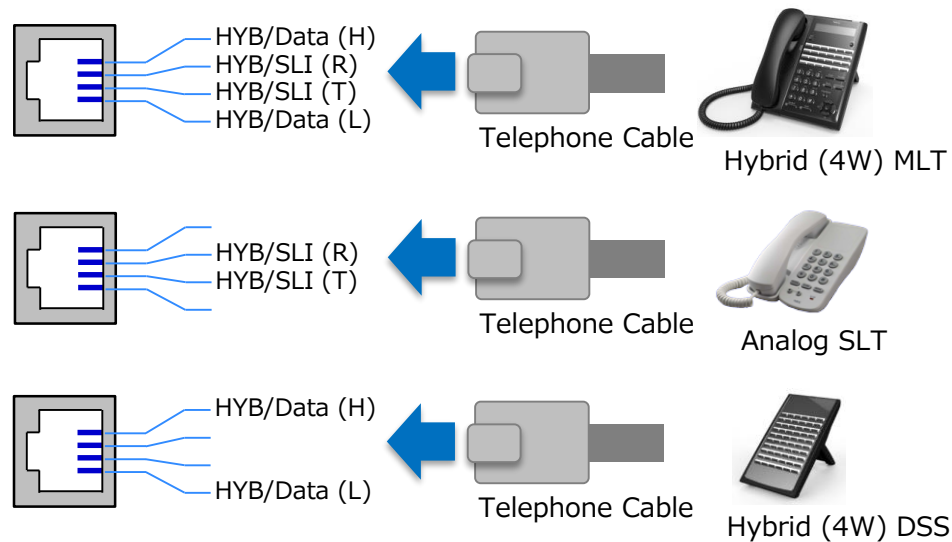


Extension Cabling (2)

Cable Distribution TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237



Terminal Connection

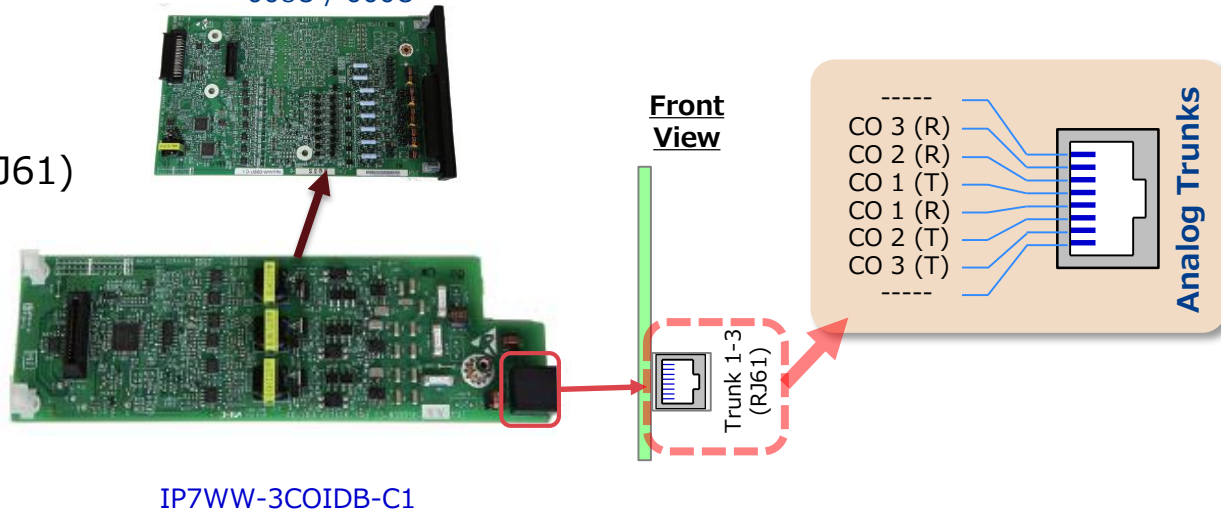


Trunk Daughter Boards (1)

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237
008U / 000U

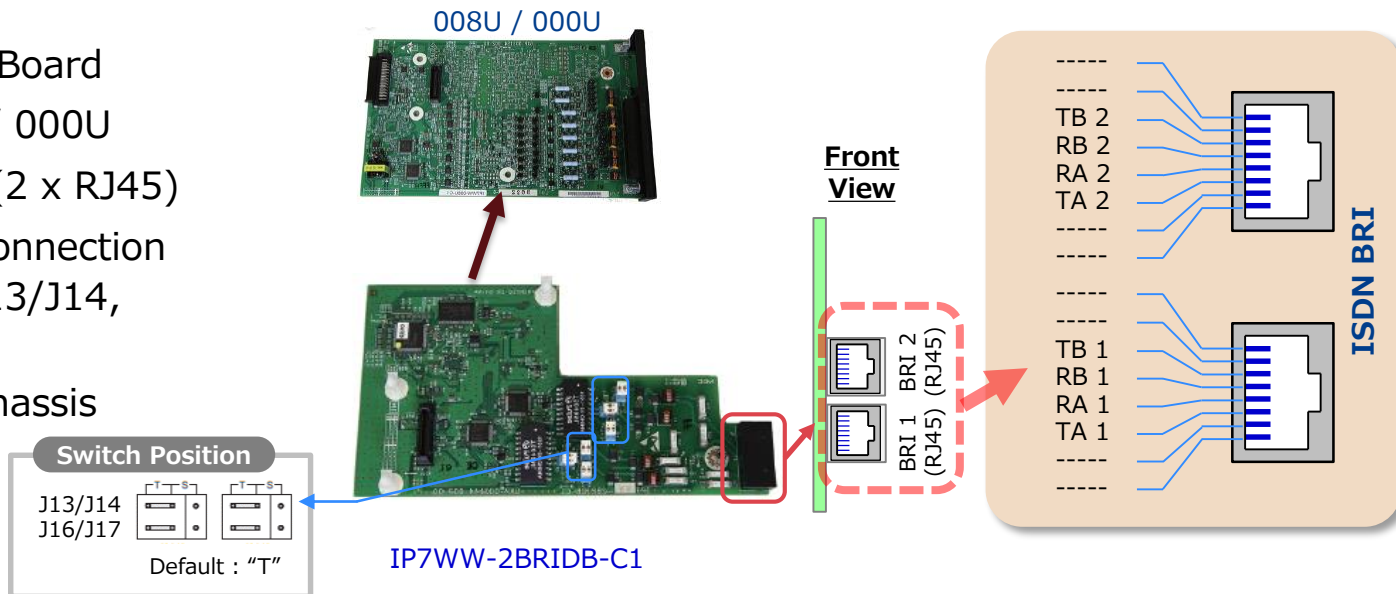
IP7WW-3COIDB-C1

- Analog Trunk Daughter Board
- Mount to the 008U / 000U
- 3 x Analog Trunk Ports (1 x RJ61)
- Support Loop-Start only
- Max 4 Boards per Chassis
- No Power Failure Circuit



IP7WW-2BRIDB-C1

- ISDN BRI Daughter Board
- Mount to the 008U / 000U
- 2 x ISDN BRI Ports (2 x RJ45)
- Support T/S-point connection (by Hard Switch <J13/J14, J16/J17> and PRG)
- Max 4 Boards per Chassis
- No Power feeding for S-point

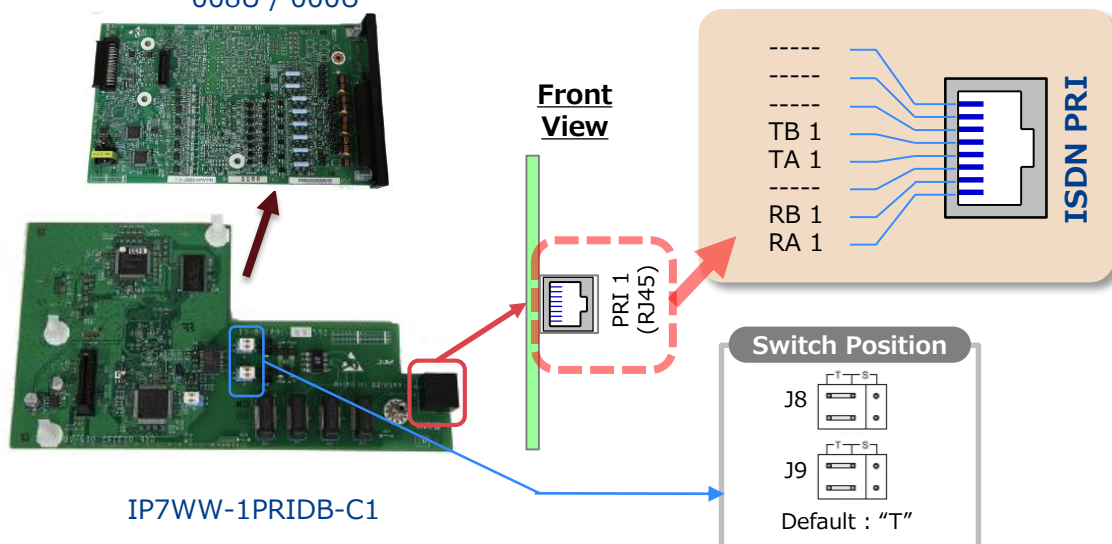


Trunk Daughter Boards (2)

IP7WW-1PRIDB-C1 TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237
008U / 000U

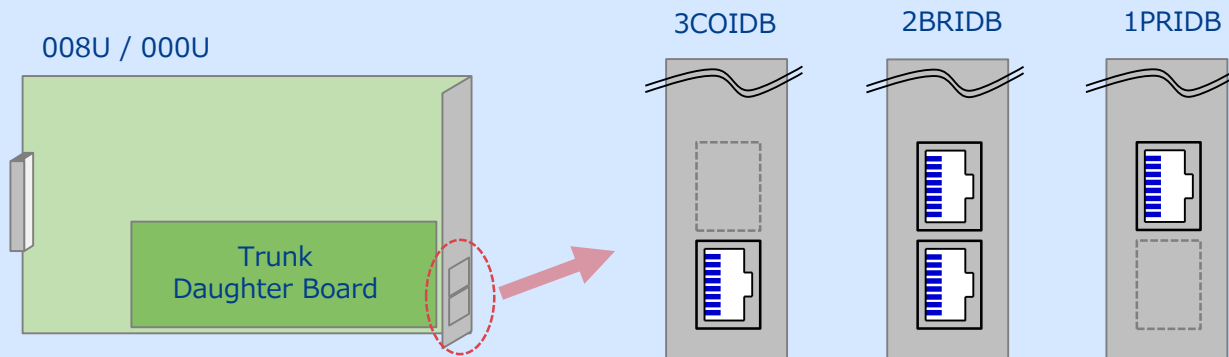
- ISDN PRI (2M) Daughter Board
- Mount to the 008U / 000U
- 1 x ISDN PRI Port (1 x RJ45)
- Support T/S-point connection (by Hard Switch <J8/J9> and PRG)
- 1 Board per Chassis, Max 3 Boards per system
- No Power feeding for S-point

Note : SL2100 for Asia does NOT support 1.5M and u-law.



<Note> How to recognize the type of Trunk Daughter Board after installing

The type of installed Trunk Daughter Board can be easily recognized by checking the position of RJ61/RJ45 connectors at Front Panel, **without removing the installed Board from Chassis.**



Terminals

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Terminal Design Concept

ROUND & EDGE



Terminal Features (Hybrid)

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

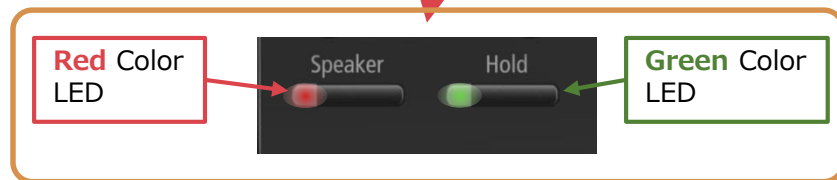
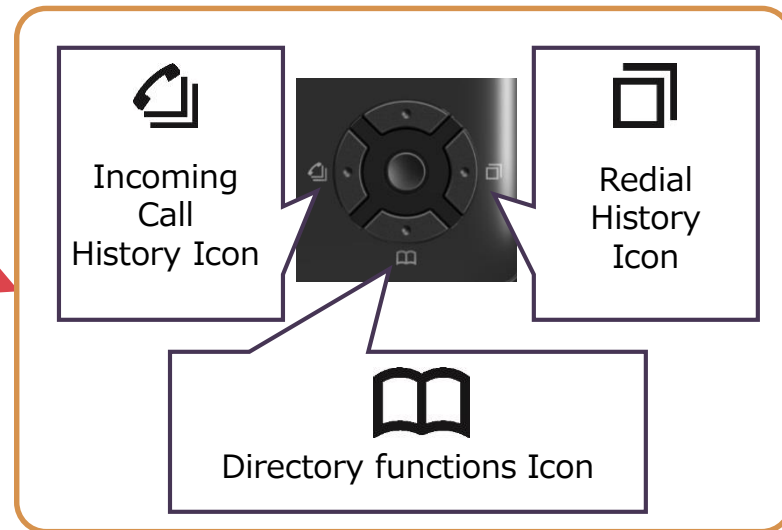
Multi-Line Terminal with DSS Console



Key Indications & LED (Hybrid)



Red Color LED



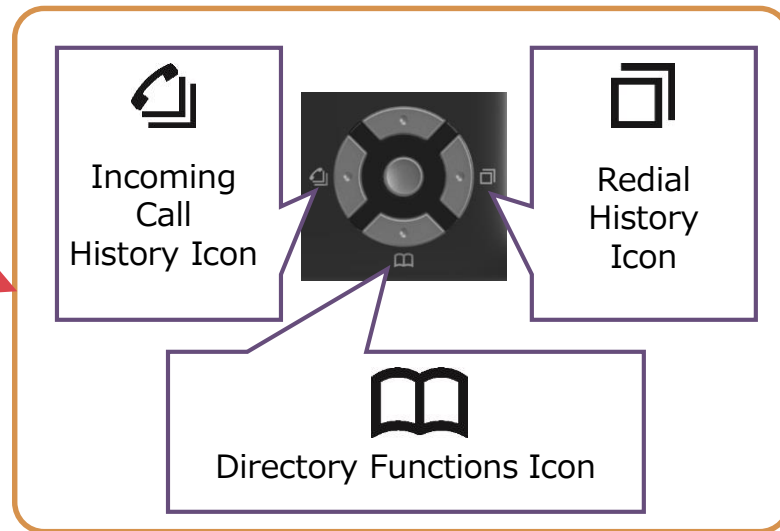
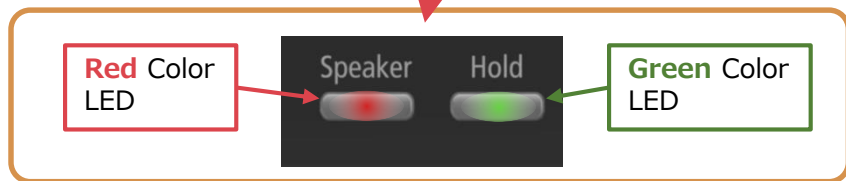
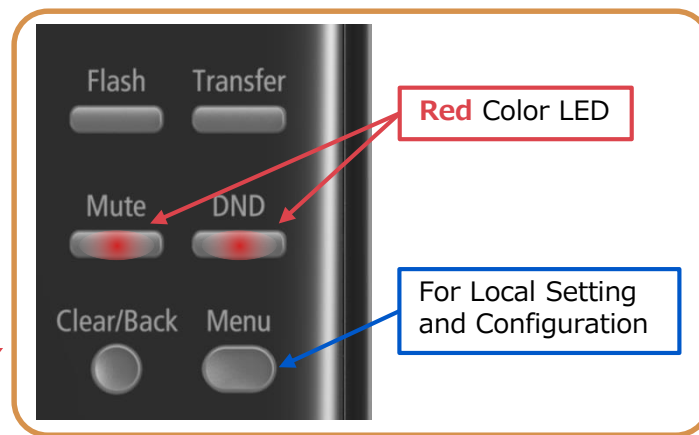
Red Color LED

Green Color LED





Terminal Features (IP DESI-Less)



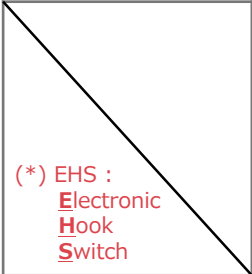




Key Indications & LED (IP DESI-Less)



Terminals (Proprietary Models for SL2100)

(*) EHS : Electronic Hook Switch	IP7WW-12TXH-A1 TEL 	IP7WW-24TXH-A1 TEL 	IP7WW/U-8IPLD TEL 
Terminal Type	Hybrid (4W) Multi-Line Terminal	Hybrid (4W) Multi-Line Terminal	IP (i-SIP) Multi-Line Terminal
Connected to	Hybrid Extension Port	Hybrid Extension Port	Ethernet Port at LAN (100M)
Power Feeding	by Hybrid Ext. Port	by Hybrid Ext. Port	by PoE Only 
Color Line-Up	Black Only	Black Only	Black Only
LCD	16 digits x 2 lines w/o Backlit	16 digits x 2 lines w/o Backlit	168 x 128 Dots w/ Backlit
Number of Programmable Keys	12 (BLF : Red/Green)	24 (BLF : Red/Green)	8 (BLF : Red/Green)
Soft Keys	No	No	Yes
Menu Cursor Key	Yes	Yes	Yes
Incoming LED	2 colors (Red/Green)	2 colors (Red/Green)	2 colors (Red/Green)
Handsfree	Half-duplex	Half-duplex	Full-duplex
Backlit Dial Pad	No	No	No
Illuminance Sensor	No	No	No
Headset Port	No (use Handset Port)	No (use Handset Port)	Yes
PC Port	No	No	Yes (10M/100M/1000M x 1)
Angle Adjustment	2-steps (Low/High)	2-steps (Low/High)	2-steps (Low/High)
EHS(*) Support	No	No	Yes (by EHS Cable)
Wall Mounting Kit	Built-In	Built-In	use Wall Mount Kit
Support CODEC	---	---	G.711/G.729a

Terminals (Accessories)

 <p>(*) EHS : Electronic Hook Switch</p>	<p>IP7WW-60D-A1 DSS CONSOLE</p> 	<p>DP-D-1A/1D DX4NA Doorphone HS.D503DOR-A</p> 	<p>IP4WW-WALL MOUNT UNIT</p> 	<p>APD-80 (Plantronics)</p> 	
	Type	Hybrid (4W) DSS Console	Doorphone Box	Wall Mount Kit for IP Terminal	EHS(*) Cable for IP Terminal
	Connected to	Hybrid Extension Port No.8 at each Board	Hybrid Extension Port No.6 / No.7 on 308U Board	IP7WW-8IPLD TEL	IP7WW-8IPLD TEL
	Color Line-Up	Black Body with Black color DESI Sheet	Dark Brown	---	---
	Programmable Keys	60 (BLF: Red/Green)	---	---	---
	Angle Adjustment	2-steps (Low/High)	---	---	---
	Wall Mounting Kit	Built-In	Built-In	---	---










APD-80 (Local Supply)

<http://www.plantronics.com/us/product/apd-80>

- It is same model used in DT820 terminals.
- APD-80 is different from APN-91 used in DT700/DT830 Series.

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Correlation Table of SMB Platforms and Terminals

Series	SL1000 Terminals		SL2100 Terminals		SV Series Terminals				
Name	12/24 TXH-A 	24TIXH-C 	12/24 TXH-A1 	8IPLD-C1 	DT400 Series 	ITY-6D (DT820) 	ITY-8LDX (DT820) 	DT800 Series 	UT880 
Type	4W Hybrid	IP-MLT	4W Hybrid	DESI-Less IP-MLT	2W Digital	IP-MLT	DESI-Less IP-MLT	IP-MLT	IP-MLT (Android)
Power Feeding	by Hybrid Port	by PoE / AC Adapter	by Hybrid Port	by PoE	by Digital Port	by PoE	by PoE	by PoE / AC Adapter	by PoE
Color	Black / White	Black / White	Black	Black	Black / White	Black	Black	Black / White	Black
SV9100	No	No	No	No	Yes	Yes	Yes	Yes	Yes
SL1000	Yes	Yes (*1)	Yes (*2)	Yes (*2)	No	No	No	No	No
SL2100	Yes	Yes (*1)	Yes	Yes (*1)	No	No	No	No	No

(*1) The element of "IP EXT License" has been included in the terminal (No license is required to accommodate this terminal to the system)

(*2) Special Software is needed for SL1000.

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System Capacity & License Line-Up

System Capacity

Number of Chassis		1 Chassis	2 Chassis	3 Chassis	4 Chassis	
Number of Universal Slot		4	8	12	16	4th Chassis is connected to the 1st Chassis by IP connection.
Number of CPU		1			2	4th Chassis must have secondary CPU and VoIP channels.
Total System Ports (Trunk + Extension)		240				128 Trunk Ports + 112 Extensions (software)
Total Legacy Ports (Trunk + Extension)		112	186	238	240	Time-slot 80ch per Chassis
IP	Trunks (Max)	36 / 42	72 / 84	108 / 126	128 / 128	Max number of Trunk Port (software) is 128.
	Analog	12	24	36	48	Max 4pcs of 308U or 3COIDB per Chassis
	ISDN BRI	16	32	48	64	Max 4pcs of 2BRIDB per Chassis
	ISDN PRI (2M)	30	60	90	120	Max 1pc of 1PRIDB per Chassis, Max 4pcs of 1PRIDB per System
	Extensions (Max)	54	92	112	112	Max number of Extension Port (software) is 112.
	Hybrid Extensions (4W)	24	48	72	96	Max 3pcs of 308U or 008U per Chassis
	Analog Extensions	32	64	96	112	Max 4pcs of 308U or 008U per Chassis
	DSS Console (4W)	3	6	9	12	Max 3pcs of DSS Console per Chassis
	Doorphone	6				Max 6pcs of Doorphone per System, connect to an Analog Ext. Port
	IP Trunks (SIP/H323)	64				Number of available trunks is decided by license
IP Extensions (IP-MLT/Std-SIP)	112				Number of available extensions is decided by license	
Audio / Others	Relay	11				308U is required
	Paging	3				308U is required
	External MOH	1				308U is required
	BGM	1				308U is required
	Ethernet Port	1			2	on CPU
	Analog Modem	1				EXIFB is required
VRS/VM	Built-In VM (InMail) Channels	4				Enable to increase the number of channels by EXIFB (4ch -> 16ch)
	Built-In VRS/VM (InMail) Storage	Approx. 2 hours				Available number of VRS MSG : 100
	Built-In Voice Prompts for VRS/VM	1 language				Enable to change the language by WebPRO
	VRS/VM Storage (by SD)	Approx. 15 Hours (S) / Approx. 120 Hours (L)				S : SDVMS, L : SDVML Available number of VRS MSG : 100
	Voice Prompts for VRS/VM	26 languages				
VoIP	Built-In VoIP Channel	8				
	VoIP Channel (by VOIPDB)	128				Number of available channels is decided by license

Note : InMail ports are NOT included to the above port number.

Software Capability

Item	Max QTY	Note
Port		
Trunk Port	128	
Extension Port	112	
Virtual Extension	50	
Doorphone	6	
Operator	10	
External Speaker	3	
Conference		
Remote Conference Bridge	4	
Conference (Number of participants)	32	
Table		
Common/Group ABB (Speed Dial) Table	1,000	
Personal ABB (Speed Dial) Table	100	
DDI Conversion Table	1,000	Increased from 800
ARS Dial Analysis Table	400	
F-Route Dial Analysis Table	200	
F-Route Dial Analysis Extension Table	1,000	4 areas x 250
F-Route Table	100	
Class		
Class of Service	15	
Toll Restriction Class	15	
Timer Class	15	

Item	Max QTY	Note
Group for Internal		
Department (Hunt) Group	50	Increased from 32
Park Hold Group	50	
Call Pickup Group	50	Increased from 32
Internal Paging Group	50	Increased from 32
Group for External		
Trunk Group	50	Increased from 25
Trunk Group Routing	50	Increased from 25
Trunk Group Routing Order	4	
Incoming Ring Group	50	Increased from 25
Day/Night		
Night Mode Group	4	
Mode	8	
InACD		
ACD Group	8	
ACD Agent	112	
SIP Trunk		
IP Multiple Profile	6	Increased from 2
Multiple Gateway	1	
SIP System Interconnection	1,000	
SIP Register ID	50	
Digit		
Extension Number Digit	8	Increased from 4
Speed Dial Digit	36	
Caller-ID Digit	16	
DDI Received Digit	8	

License Line-Up (1)

Category	BE code	License Name	Description	Type of License	Bundled License	System Max	Note
IP Related	BE116744	SL2100 IP CHANNEL-16 LIC	Additional VoIP Resource License (16ch per Lic) for VOIPDB	Channel Base	16ch (on VOIPDB)	128ch	VOIPDB : 16ch Lic x 7 = 112ch Total : 128ch max
	BE116745	SL2100 IP TRUNK-01 LIC	IP Trunk License	Port Base	0	64	
	BE116746	SL2100 IP EXT-01 LIC	IP Extension License for Std-SIP Terminal	Port Base	0	112	It is NOT required for SL1000/2100 IP-MLT
	BE116747	SL2100 ENCRYPTION LIC	Encryption (including TLS) License for Multi-Line IP Terminal	System Base	0	On	It is NOT released in China
Networking	BE116748	SL2100 ASPIRENET-01 LIC	AspireNet over IP License (Enable to connect between SL1000/SL2100/SV8100/9100)	Channel Base	0	128	Max Node : 50
System Features	BE116750	SL2100 REMOTE CONF-01 LIC	Conference Bridge (Remote Conf.) License	Bridge Base	0	4	
	BE116751	SL2100 VM E-MAIL NOTIFY LIC	InMail E-Mail Notification License	System Base	0	On	No extra Hardware is required
	BE116752	SL2100 IN-ACD LIC	InACD Feature License	System Base	0	On	
	BE117668	SL2100 ACD P-EVENT LIC	ACD P-EVENT feature License	System Base	0	On	
	BE116753	SL2100 HOTEL LIC	Hotel/Motel Feature License	System Base	0	On	
	BE116754	SL2100 PMS LIC	Hotel PMS API License (up to 64 Rooms)	System Base	0	On	Up to 64 rooms can be controlled
	BE116756	SL2100 3RD CTI LIC	3rd Party CTI Feature License	System Base	0	On	

License Line-Up (2)

Category	BE code	License Name	Description	Type of License	Bundled License	System Max	Note
Clients Related	BE116757	SL2100 MOBILE EXT-01 LIC	Additional Mobile Extension Port License	Port Base	4 (on CPU)	112	
	BE117552	SL2100 IN-UC CLIENT-01 LIC	InUC Web Client License with telephony control	User Base	0	112	
	BE116760	SL2100 WEB VIDEO CNF-01 LIC	Web Video Conference Session License	Session Base	4	32	
UC Suite	BE117743	SL2100 DT CLIENT-01 LIC	Desktop Client License for UC Suite	User Base	0	112	
	BE117745	SL2100 SOFTPHONE-01 LIC	IP Softphone License for UC Suite	User Base	0	112	
	BE117747	SL2100 CRM INTEGRATION-01 LIC	CRM Integration License for UC Suite	User Base	0	112	
	BE117749	SL2100 INMAIL INT-01 LIC	InMail Integration License for UC Suite	User Base	0	112	
Contact Center App. (inc. UC Suite)	BE116765	SL2100 CC MIS LIC	CC App. (ACD-MIS) Feature License	System Base	0	On	
	BE116766	SL2100 CC MIS MONITOR-01 LIC	CC App. (ACD MIS) Monitor Feature License	User Base	0	5	
On-Board Apps.	BE116763	SL2100 INGUARD LIC	Toll Fraud Guard License	System Base	0	On	
	BE116764	SL2100 LUA PMS LIC	PMS API Converter License	System Base	0	On	

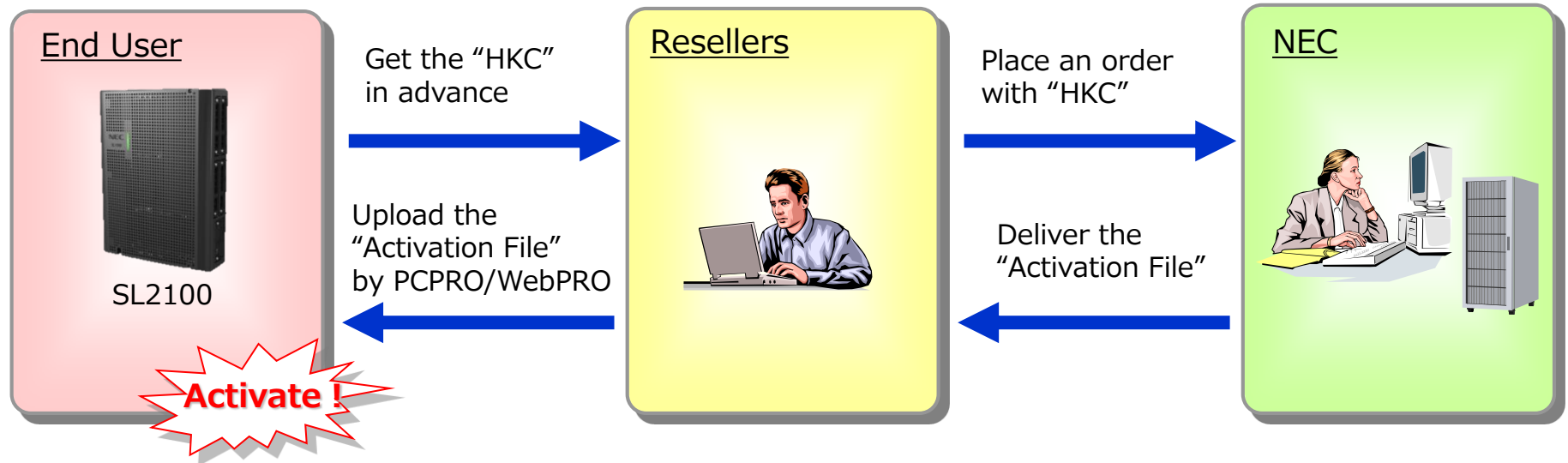
<Notice>

All licenses do NOT have compatibility between SL1000 and SL2100.

License Activation

Summary TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

The licenses are managed by LMS and the manner of activation method is exactly same as SL1000/SV9100.



Main Software

Built-In Features in CPU

Comparison Table (SL1000 vs SL2100)

SL1000		SL2100
2ch of Built-In Auto-Answering	⇒	4ch of Built-In VRS/VM (InMail)
8 Minutes of Recording Storage	⇒	2 Hours of Recording Storage
1 Voice Prompt of Built-In Auto-Answering (Limited)	⇒	1 Voice Prompt of Built-In VRS/VM (InMail) (Full)
4 Clients of Mobile Extension	⇒	4 Clients of Mobile Extension
4 IP Trunks	⇒	8ch of Built-In VoIP Resources
4 sessions of Web based Video Conference (R7)	⇒	4 sessions of Web based Video Conference



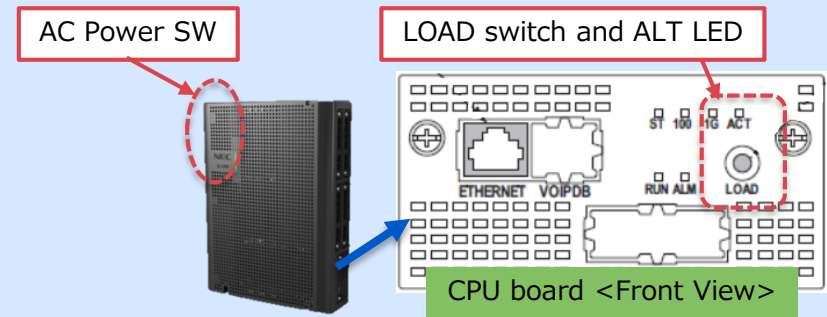
Built-In Features on CPU is changed because the system configuration of VRS/VM (InMail) and VoIP is changed from SL1000 to SL2100.

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

System Start-Up

Method

Same manner with SL1000

Start Up Method	Description	Purpose	Operation
COLD Start	The factory setting data (default) is loaded	- First time Start up - System Initialization	<ol style="list-style-type: none"> 1. Confirm the power switch is OFF. 2. Push in and hold the LOAD switch on the CPU board and turn the power switch ON at the Main Chassis. 3. Continue holding the LOAD switch until ALT LED lights ON (red). (Approx : few seconds) 4. Release the LOAD switch, and wait about one minute. 5. When the system has completed reloading the software, the RUN LED is flashing (Green ON) the CPU board and the connected Multiline Telephone's LCD will show the Time & Date and Extension Number.  <p>The diagram illustrates the physical components mentioned in the operation steps. On the left, a main chassis is shown with a red dashed circle around the 'AC Power SW' on its side. A blue arrow points from this switch to the 'CPU board <Front View>' on the right. On the CPU board, a red dashed box highlights the 'LOAD' switch and the 'ALT' LED, with a red arrow pointing to the 'LOAD' switch. Other components labeled on the board include 'ETHERNET', 'VOIPDB', 'ST 100', 'MG ACT', and 'RUN ALM'.</p>
HOT Start	The customer setting data is loaded	- System Reboot	<ol style="list-style-type: none"> 1. Confirm the power switch is OFF. 2. Turn the power switch ON at the Main Chassis and wait about one minute. 3. When the system has completed reloading the software, the RUN LED is flashing (Green ON) the CPU board and the connected Multiline Telephone's LCD will show the Time & Date and Extension Number.

Method TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237



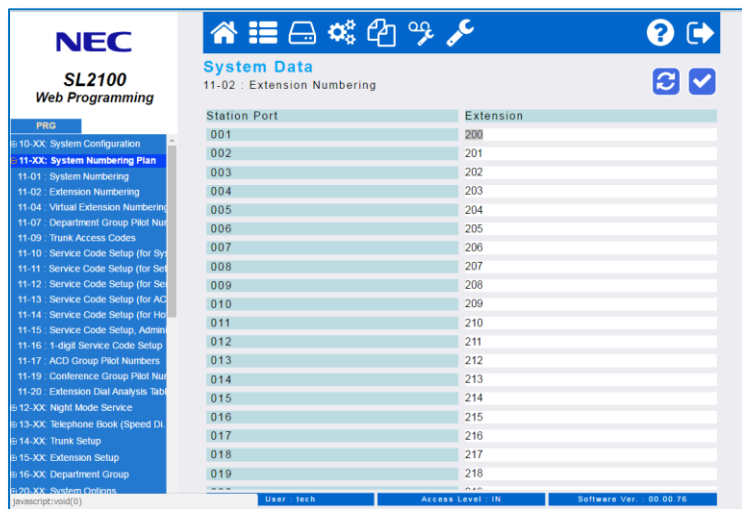
Programming Method	Access Device	Description
TEL PRO	Multi-Line Terminal (MLT)	Enable to enter the necessary data by dialing Ten Keys on the terminal. This is traditional method, so limited information can be displayed because of LCD size on the terminal, and also it is little bit complicated operations specially Alphanumeric data entry, but this method is sometimes useful in case specified PRG is quickly changed (ex: just change the data from "0" to "1" at the specified PRG).
WebPRO	PC with Web Browser	Enable to enter the PRG mode from PC by using Web Browser, so "real-time" and "on-line" programming are available. Advantage of this method is : <ul style="list-style-type: none"> ➢ Easy operation by user-friendly GUI and Keyboard/Mouse (instead of limited size LCD and Ten Keys on MLT) ➢ Easy access by any PC which has Web Browser (No installation of any special application) This method is useful mainly for the data maintenance after installation. Of course it is possible to use this method for new installation as well, but off-line programming is not available. System data (setup data) can be saved not only for system CPU but also to the PC but there is no way to open/edit the data because of no special application in the PC.
PCPRO	PC with special application	The special application which is supplied from NEC must be installed to the PC. Both "on-line" / "off-line" programming and system data saving on the PC are available. This method is useful for all the cases, not only for the installation but also the data maintenance including customer management.

ID & Password

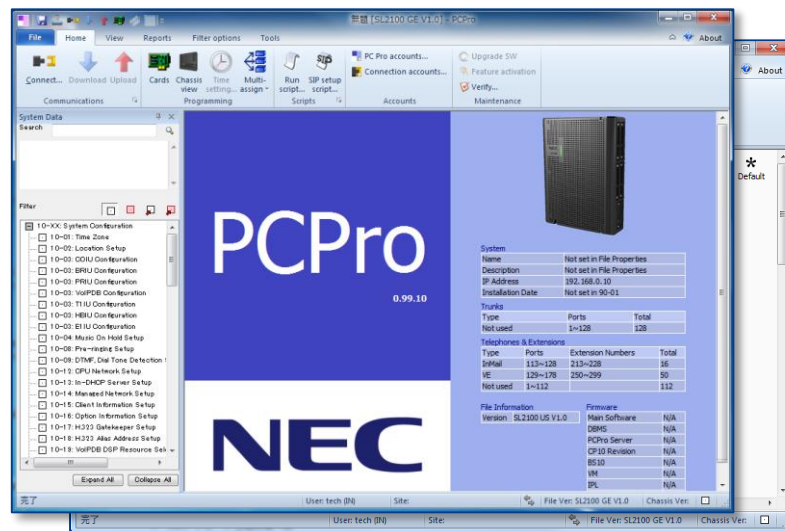
The default setting of ID & Password is same as SL1000. (MF access level is disabled)

PCPRO / WebPRO / UserPRO

- SL2100 provides PCPRO/WebPRO/UserPRO as same as SL1000/ SV8100/SV9100.
- New designed GUI is provided for WebPRO/UserPRO.



WebPRO/UserPRO (New GUI)



PCPRO



New Features

Built-In VoIP (Demo with IP Extension) (1)



Summary

Up to 8 channels of Built-In VoIP resource are initially available on CPU, and SL2100 IP extension (8IPLD TEL) includes IP extension license, so SL2100 IP extension (8IPLD TEL) shall work without additional hardware and license.

Programming (Minimum) (Plug/play mode without DHCP)

10-46: DT800/DT700 Server Information Setup

01 - Register Mode

04 - Server Name

06 - Registrar Port

07 - Encryption Mode

08 - Encoding Type

09 - One Time Password

10 - 1st DT800/DT700 to register

10-13: DHCP Server Setup

01 - DHCP Server Mode

10-12: CPU Network Setup

09 - VOIP IP Address

10 - VOIP Subnet Mask

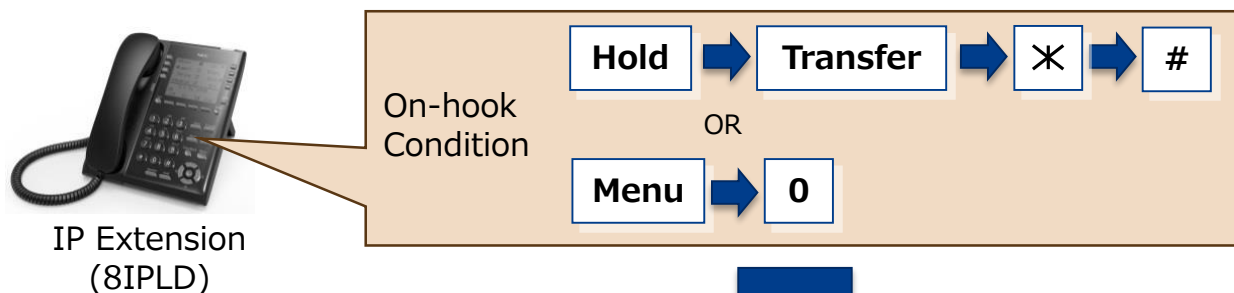
PRG	Description	Value	Default
10-46-01	Registration Mode	Select the type of registration mode from the pull-down menu (select "Plug & Play")	Plug & Play
10-46-10	IP Terminal Start port	Set the start extension port for IP terminal	1
10-13-01	In-DHCP Mode	It must be set to "0 : OFF" to disable the In-DHCP.	0
10-12-09	VoIP IP Address	IP Address for VoIP	172.16.0.10
10-12-10	Subnet mask for VoIP	Subnet mask for VoIP	255.255.0.0

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Setting for IP Extension TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

- When the IP terminals are connected to the IP Network, local setup at each IP terminal is required in order to accommodate IP terminals to SL2100 via IP Network.
- Following operations describes how to enter the local menu at the IP Multiline terminal.



Press the Cursor Key (↓) to move the cursor at the Password column.

Enter the password (Default : 6633222) and press "OK".

First page of Local menu appears. Dial the desired number to setup.

User Name	ADMIN
Password	<input type="text"/>
BK	Set
Cancel	OK

User Name	ADMIN
Password	*****
BK	Set
Cancel	OK

[1]	Network Settings
[2]	SIP Setting
↓	Cancel
	Save

Save : Input data is saved and restart automatically
Cancel : Input data is erased and restart automatically with previous data



Setting for IP Extension (Cont'd)

1. Enter the local menu and dial "1 : Network Settings".

[1] Network Settings
[2] SIP Setting
↓ Cancel Save

2. Dial "1 : DHCP Mode". -> To set DHCP Mode

[1] DHCP Mode
[2] IP Address
↓ Exit

3. Dial "1 : Disable" to disable the DHCP and press "OK". (Default : Disable)

⊙ [1] Disable
○ [2] Enable
↑ Cancel OK

4. Dial "2: IP Address". -> To set IP Address

[1] DHCP Mode
[2] IP Address
↓ Exit

5. Set IP Address for the IP Extension and Press "OK".

'*' For"
172.16.0.xxx
BK Cancel OK

6. Press "↓". -> To set Subnet Mask

[1] DHCP Mode
[2] IP Address
↑ ↓ Exit

7. Dial "4: Subnet Mask".

[3] Default Gateway
[4] Subnet Mask
↑ ↓ Exit

8. Set Subnet Mask as "255.255.0.0", and press "OK".

'*' For"
255.255.0.0
BK Cancel OK

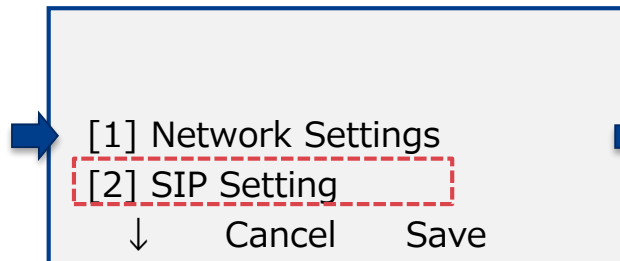
9. Press "Exit".

[3] Default Gateway
[4] Subnet Mask
↑ ↓ Exit

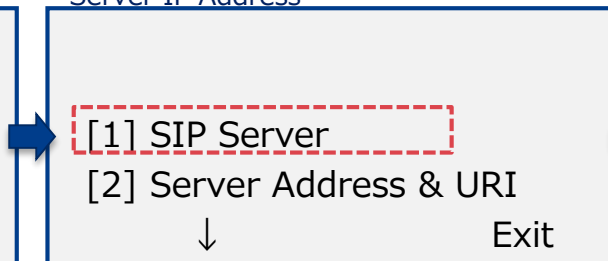


Setting for IP Extension (Cont'd)

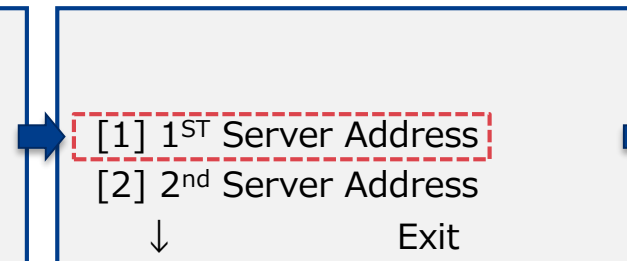
10. Dial "2 : SIP Setting".



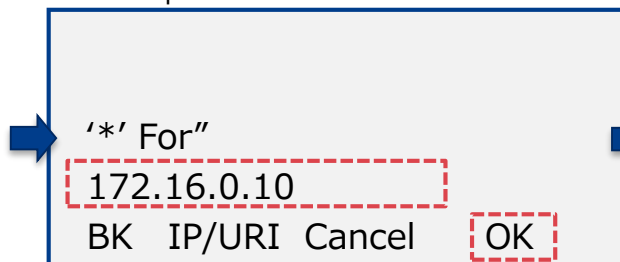
11. Dial "1 : SIP Server". -> To set SIP Server IP Address



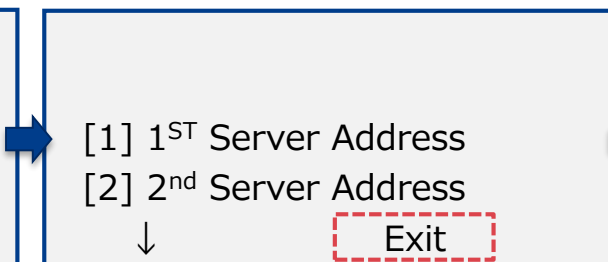
12. Dial "1 : 1ST Server Address".



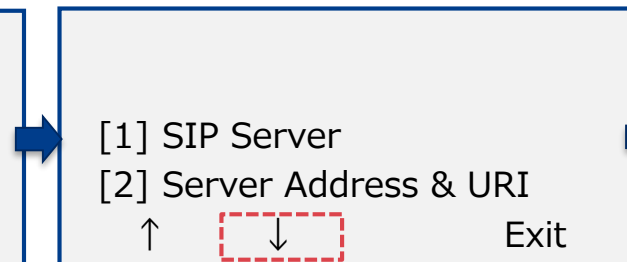
13. Set IP Address as "172.16.0.10", and press "OK".



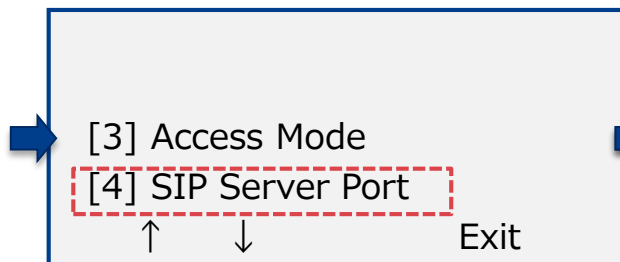
14. Press "Exit".



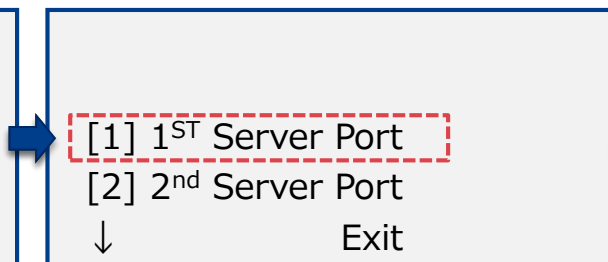
15. Press "↓". -> To set SIP Server Port



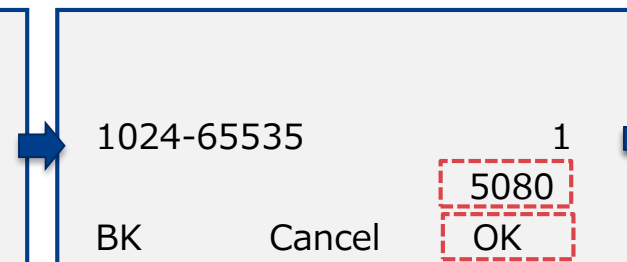
16. Dial "4: SIP Server Port".



17. Dial "1: 1ST Server Port".



18. Set port as "5080", and press "OK".

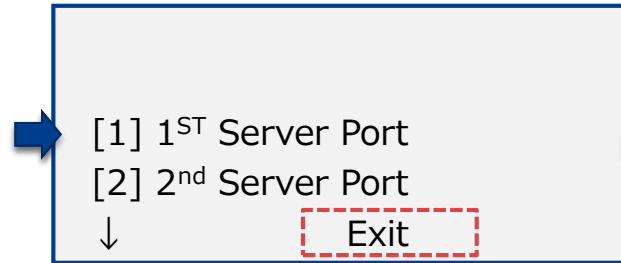


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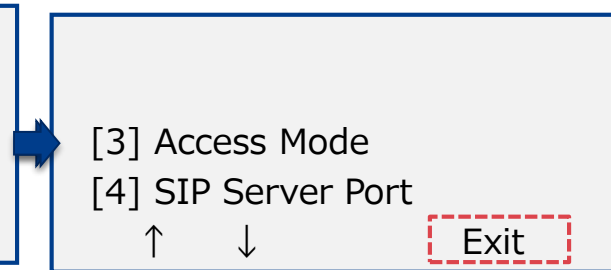


Setting for IP Extension (Cont'd)

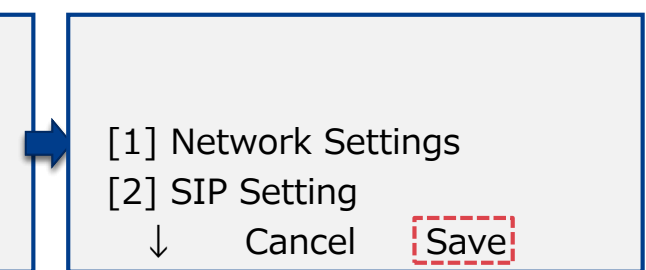
19. Press "Exit".



20. Press "Exit".



21. Press "Save".



22. All the settings will be saved, and the extension will restart



Operation (Demo)

1. Place an Intercom Call between IP Extension and Legacy Terminal.

➔ *You can realize that built-in VoIP resource is working !!*

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237



Summary

VRS and Voice Mail (InMail) is provided by Hardware (PZ-VM21 and CF Card) in SL1000, however in SL2100, 4ch of Built-In VRS/VM (InMail) and approx. 2 hours VM storage are initially available on CPU so that users can use VRS and VM (InMail) features without optional hardware and licenses.

Programming (Minimum)

No setting is needed. (Mailbox and extension mapping is assigned by PRG47-02)
Function Key : PRG15-07 (Code 77 + Mailbox Number)

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237



Operation (Demo)

Leave a message to another user

1. Press SPK Key and dial "*8".
2. Dial "77".
3. Leave a message and press "#".
4. Dial the destination extension number to send a message.
5. Dial "#" to complete message sending.
6. Hang Up to finish. (MW lamp / Mailbox Key on destination terminal shall flash)

Listen to a left message at Mailbox

1. Press SPK Key and dial "*8".
2. Dial "5".

➡ *You can realize that built-in InMail is working !!*

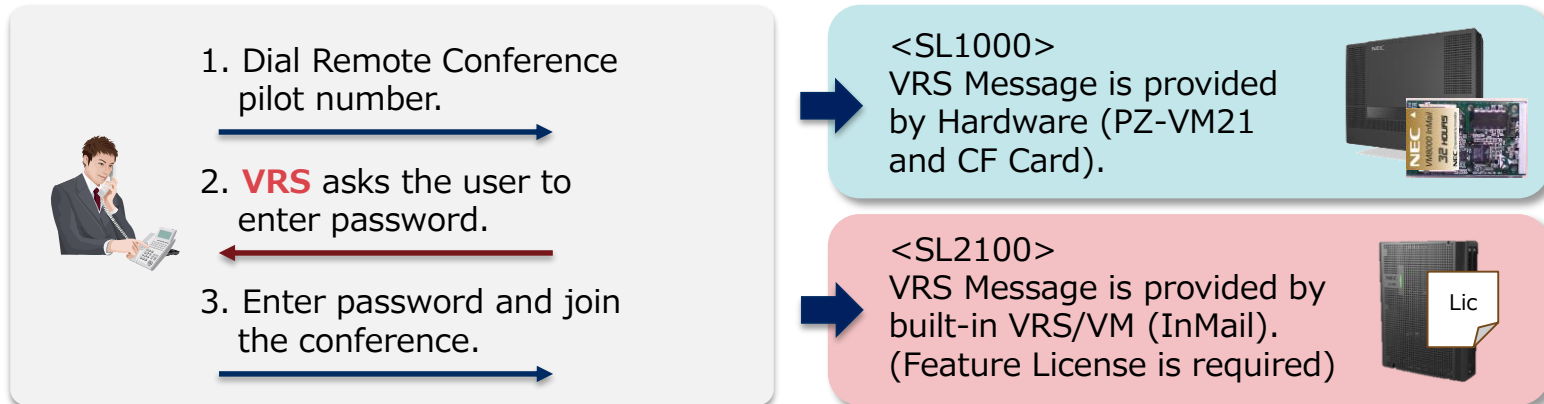
TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

Conference Bridge (Remote Conference) (1)

Summary

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

- VRS message, which is needed for Conference Bridge (Remote Conference), is provided by Hardware (PZ-VM21 and CF Card) in SL1000, however in SL2100, 4ch of Built-In VRS/VM (InMail) are initially available on CPU so that users can use Conference Bridge (Remote Conference) feature by License instead of optional hardware.
- Up to 4 conference bridges are available, and the CPU provides 32 conference resources, but limit of participants for one conference is 16.
- Enable to record the conversation to the Mailbox. (InMail : 2 hours built-in, no licenses for basic features, Max 65min per call)



BE code	License Name	Description	Type of License	Bundled License	System Max
BE116750	SL2100 REMOTE CONF-01 LIC	Conference Bridge (Remote Conf.) License	Bridge Base	0	4

Conference Bridge (Remote Conference) (2)

Programming (Minimum)

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

11-19: Conference Group Pilot Numbers

PRG	Description	Value	Default
11-19-01	Pilot Number of Bridge	Maximum of 8 digits	No setting

20-34: Conference Group Setup

PRG	Description	Value	Default
20-34-01	Conference Name	Maximum of 12 characters	Conf 1
20-34-02	Conference Password	4 digits (fixed)	
20-34-03	Max Number of Participant	0~16 Max number of participants for one conference is 16.	8
20-34-04	Max Conference Duration	0~64800 seconds	7200
20-34-05	Time to Send End Time Remind Alert	0~64800 seconds Define how long should the system send a beep tone to remind conference participants of conference end time	No setting
20-34-06	Password Mode	0 : Normal, 1 : Skip Define whether participants need password to join the conference or not.	0
20-34-07	Automatic Recording	0 : Disable, 1 : Enable If it is disabled, then a function key should assign to start conference recording manually	0
20-34-08	Recording Destination Mail Box	1~128 Define to which InMail box the recording will be stored.	No setting

Conference Bridge (Remote Conference) (3)

Operation (Demo)

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

1. Extension 1 user dials conference pilot number. (set at PRG11-19-01)
2. Extension 1 user will hear a VRS message (Please enter your security code).
3. Extension 1 user dials password. (set at PRG20-34-02)
4. Extension 1 user will hear a beep tone which means the user has joined the conference successfully.
5. Users of Extension 2 and 3 do the same as Extension 1 user does. Then the three users should hear each other's voice, and have a conference.



6. During conference call, press "Conference Record" Key (PRG15-07, Code #10)
7. All participants of conference call will hear a VRS message (Start recording).
8. Conversation is recorded.
9. When the conference is finished (hang up), pre-assigned Mailbox (PRG20-34-08) shall flash. (this conversation is left at mailbox as one of messages)

➡ *You can realize that the conference bridge with recording feature is working without additional hardware !!*

Web Base InUC Client (2)

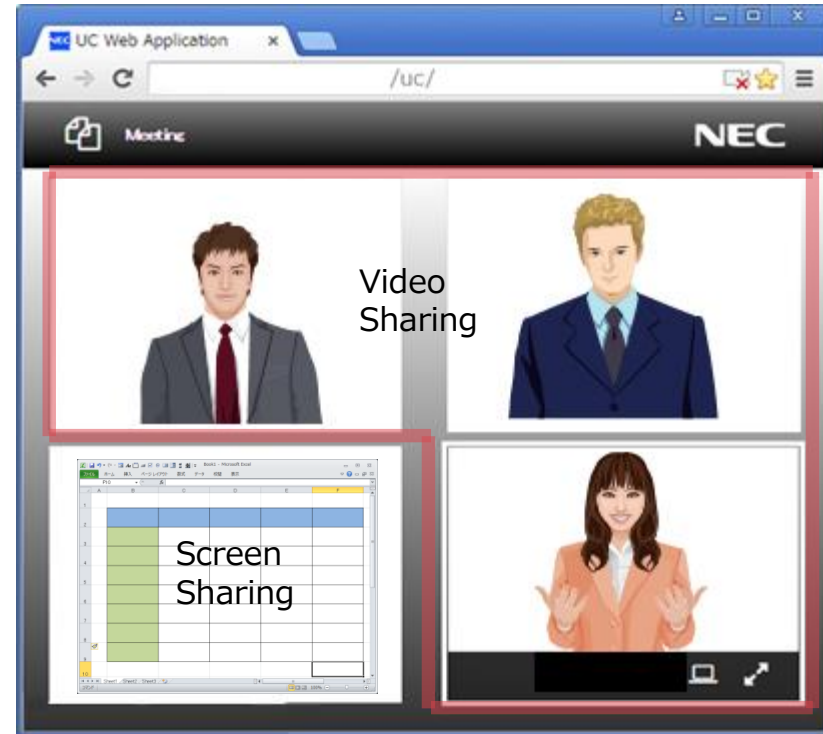
Summary : Web Base Video Conference

- Video conference can be easily established among browsers^(*1) without any special installation and/or dedicated applications.
- Video Session license is required (Max. 32).
- Video and screen-sharing^(*2) are supported.
- Max. 4 conference room is supported, and max. 8 participants per one room.

Note

(*1) Only Chrome and IE are supported, and IE needs to install WebRTC Plug-in to support this feature.

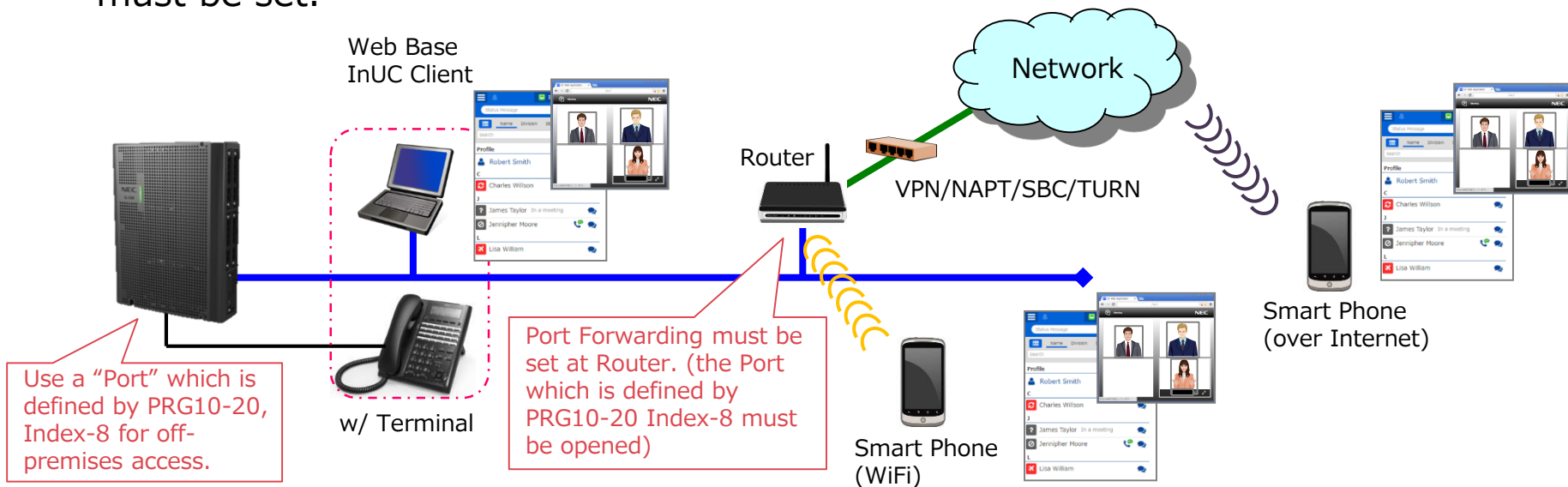
(*2) Chrome needs NEC Net Sharing Chrome plug-in to use screen-sharing feature. On the other hand, IE does not support screen-sharing feature.



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Web Base InUC Client (3) New !!

- Port setting is necessary in case Web Base InUC Client is used at off-premises.
- In case Web Video Conference is required at off-premises, TURN/STUN Server must be set.



Type of Terminals	Legacy MLT (12/24TXH-A1)	SLT	IP-MLT (8IPLD-C1)	Std-SIP Terminal	ST450/ST465	PC/Mobile Device
Telephony Control	Enable by Desktop Phone Mode	Enable by Desktop Phone Mode	Enable by Desktop Phone Mode	N/A	Enable by Mobile Device Mode	Disable
Private Network (VPN)	Yes	Yes (*2)	Yes	N/A	Yes (*2)	Yes
Over the Internet using NAPT (by Router, SBC)	Yes (*1)	Yes (*1/*2)	Yes (*1)	N/A	Yes (*1/*2)	Yes (*1)

(*1) TURN/STUN Server is required for Web Video Conference.

(*2) Enable to operate outgoing call only by InUC Client. (Enable to answer/place calls by terminal)



Programming (Minimum)

PRGs with * are mandatory.

20-57: UC User Information Setting

User Information Table (1~128)

01 - User ID

02 - Password

03 - Last Name

04 - First Name

41 - UC-Extension number

42 - Language

20-64: UC Web Application Setting

01 - Web Conference Duration Timer

02 - End alert of Web Conference

03 - IM Port Number

04 - Allow blank password

PRG	Description	Value	Default
20-57-01*	User ID	Maximum of 16 characters (Letters and Numbers)	No setting
20-57-02*	Password	Maximum of 16 characters (Letters and Numbers)	No setting
20-57-03*	Last Name	Maximum of 16 characters (Letters and Numbers)	No setting
20-57-04*	First Name	Maximum of 16 characters (Letters and Numbers)	No setting
20-57-07~24	User Profile Setting	Information set in these PRG will be displayed at each user's profile.	No setting
20-57-41	Extension Number	Maximum of 8 digits If there is no setting here, call control feature will not work.	No setting
20-57-42	Language	Choose language for each user from pull-down	English
20-64-03	IM port number	0~65535 If IM port number is not set, then IM feature will not work.	0 (means no setting)
20-64-04	Allow Blank Password	0~Not Allow, 1~ Allow	0

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Programming (Minimum) (Cont'd)

PRGs with * are mandatory.

10-12: CPU Network Setup

09 - VOIP IP Address

10 - VOIP Subnet Mask

10-20: LAN Setup for External Equipment

External Equipment Type TCP Port Keep alive time

09 - 1st Party CTI

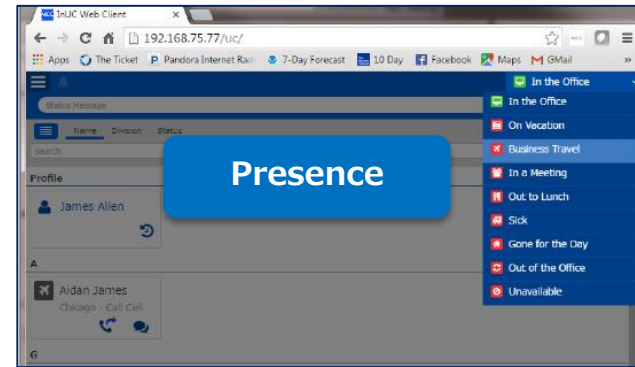
PRG	Description	Value	Default
10-12-09	VoIP IP Address	IP Address for VoIP	172.16.0.10
10-12-10	Subnet mask for VoIP	Subnet mask for VoIP	255.255.0.0
10-20-09*	TCP port for 1 st Party CTI	0~65535 Example: 8282	0

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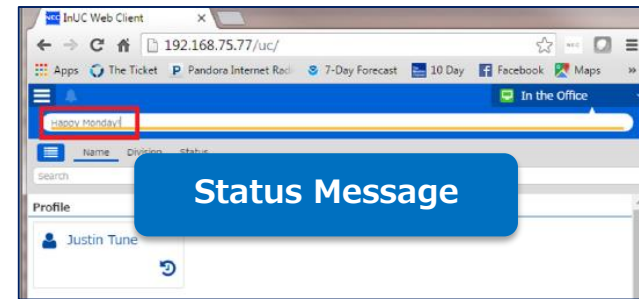
● Presence

1. Change User 1's presence.
2. Confirm at both User 1's and User 2's page to see the presence has been changed.



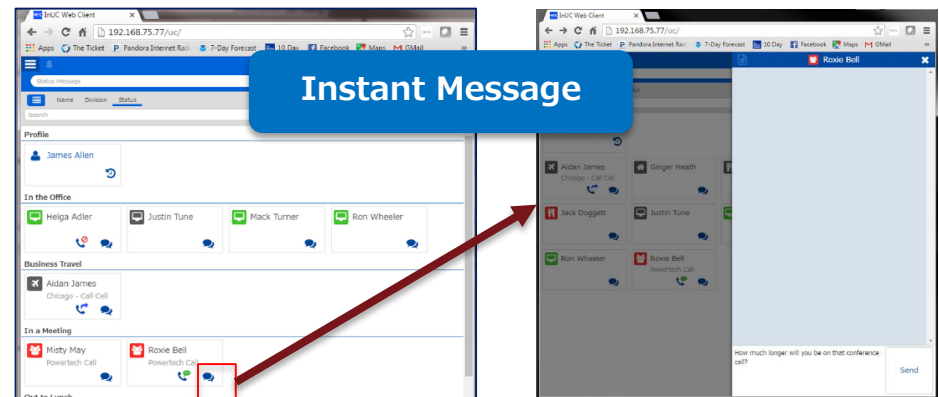
● Status Message

1. Change User 1's Status Message.
2. Confirm at both User 1's and User 2's page to see the Status Message has been shown.



● Instant Message

1. User 1 clicks IM icon of User 2's at contact list. (chat window will open)
2. User 1 input message into chat area, and click send button.
3. Confirm the message is sent.
4. User 2 confirms if the message is received.

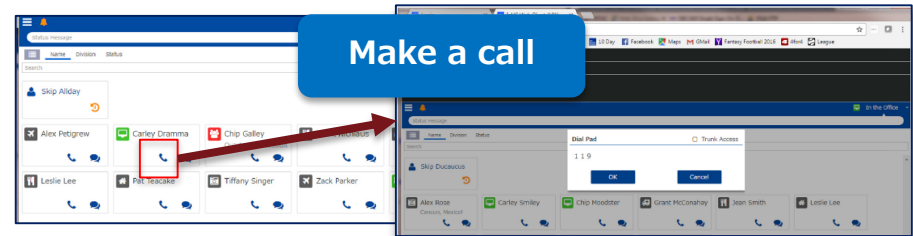




Operation (Demo) (Cont'd)

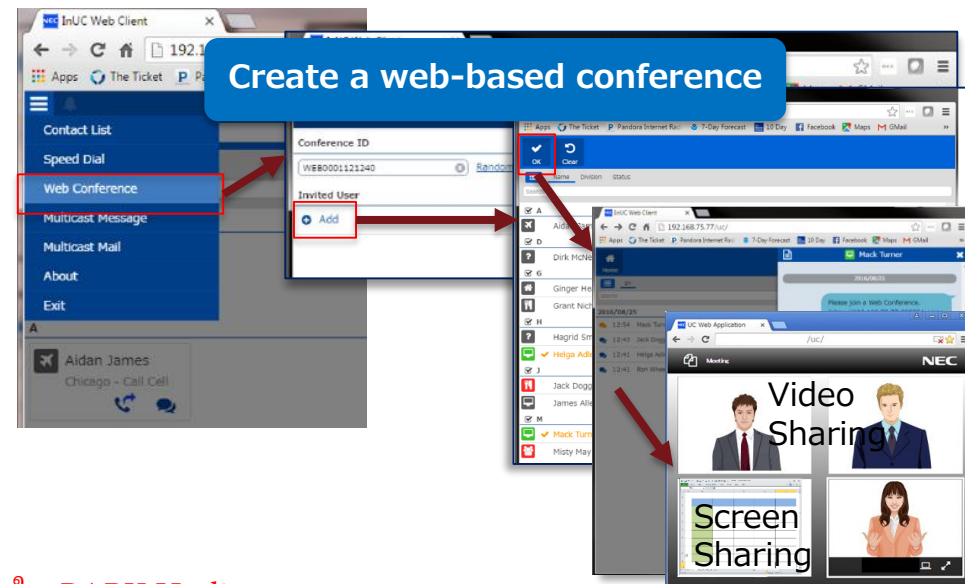
● Call control (Make a call)

1. User 1 clicks User 2's telephone icon. (dial pad will be displayed with User 2's phone number)
2. Click "OK". (User 2's phone will ring, and speaker of User 1's phone will be on)
3. User 1 gets phone handset.
4. User 2 answers the call.
5. Confirm the call will be established.



● Web Conference

1. Click "Web Conference" button from menu (Web Conference page will be displayed).
2. Click "+Add" to add participants.
3. After adding participants, click "OK" button. (then invitation will be sent to the invited participants)
4. After all the participants join the conference, confirm they can see each other's through video and hear each other.



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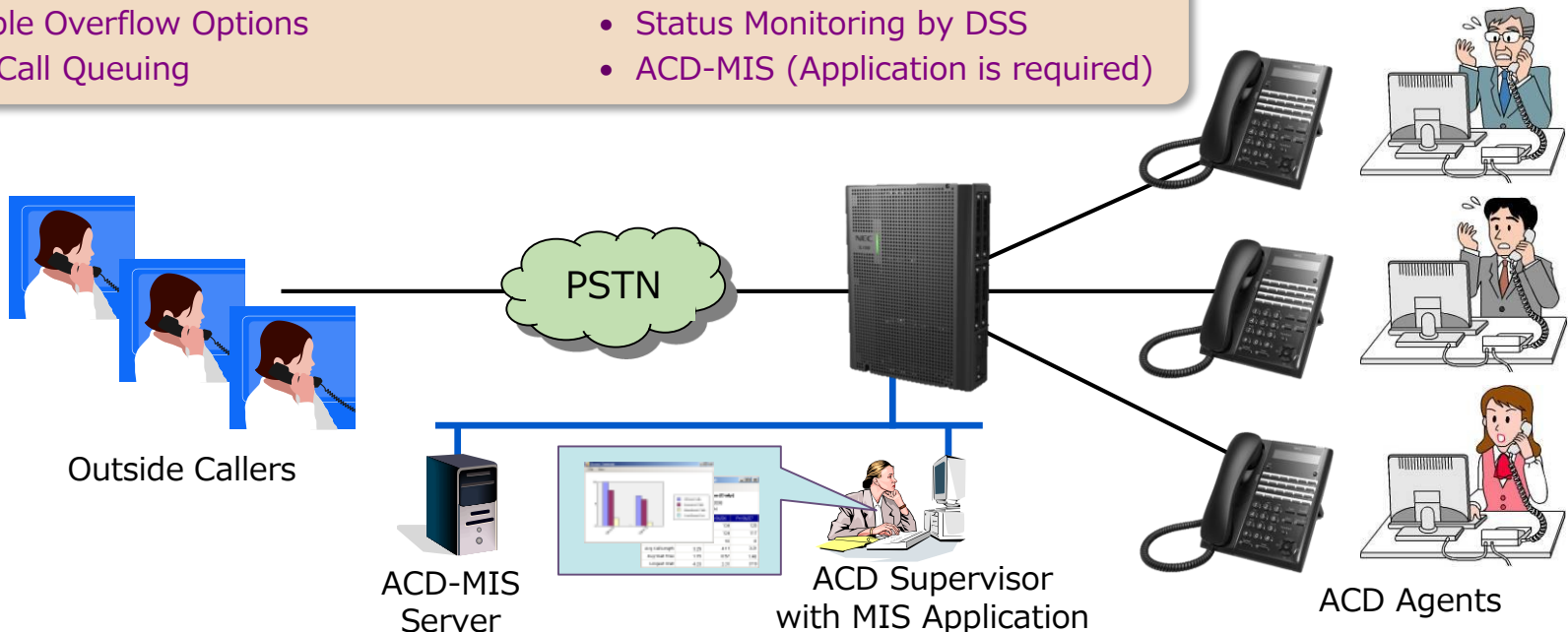
Value-Added Features (Description)

Summary

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

- SL2100 supports the simple ACD (uniformly distributes calls to Agents), so the service levels can be maintained efficiently and calls are distributed fairly.
- Following various features are provided by license. (System Base)
- Number of ACD Agents **should be less than 16** for the system performance point of view.

- Flexible Works Scheduling
- ACD Groups
- Agent Log-In/Out, Unavailable, Wrap-up
- Flexible Overflow Options
- ACD Call Queuing
- ACD Supervisors
- Call Monitoring
- Emergency Call / Whispering
- Status Monitoring by DSS
- ACD-MIS (Application is required)



[Value-Added] Hotel with PMS

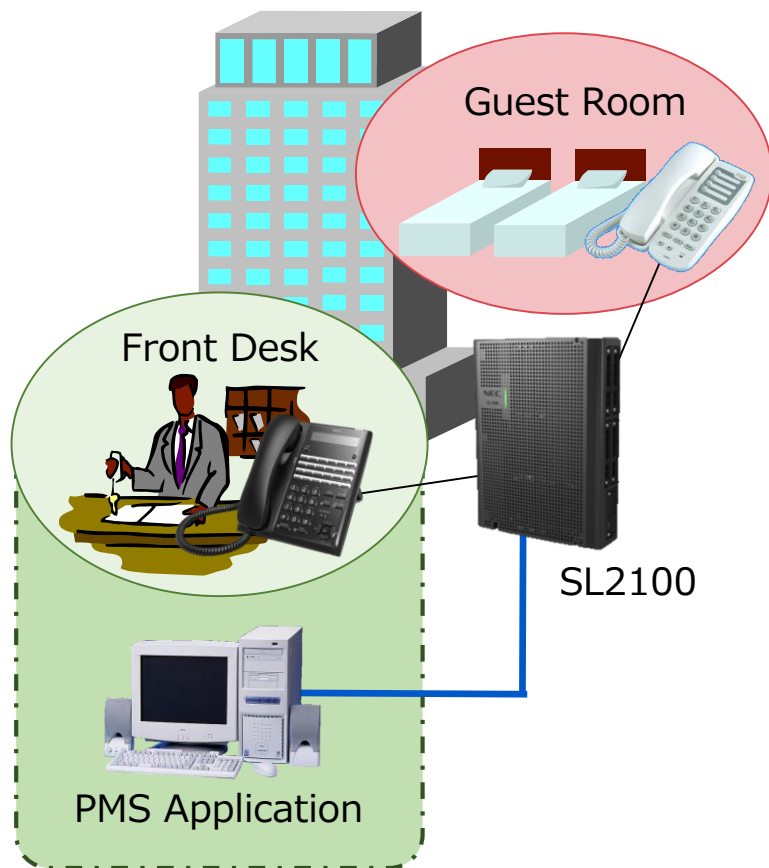
Summary

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

- SL2100 supports following Hotel features in addition to other features for business use (Hotel License is required).
- PMS I/F is available by license as well, and up to 64 rooms can be controlled.

Hotel Features List

- Check-In / Check-Out
- Wake-Up Call
- Message Waiting
- Do Not Disturb (DND)
- Single Digit Access
- Toll Restriction Class Change for each Room
- Room to Room Call Restriction
- Room Status Indication on DSS Console
- Room Status Output
- Room Monitoring by SLT
- PMS Integration (64 rooms) **New !!**



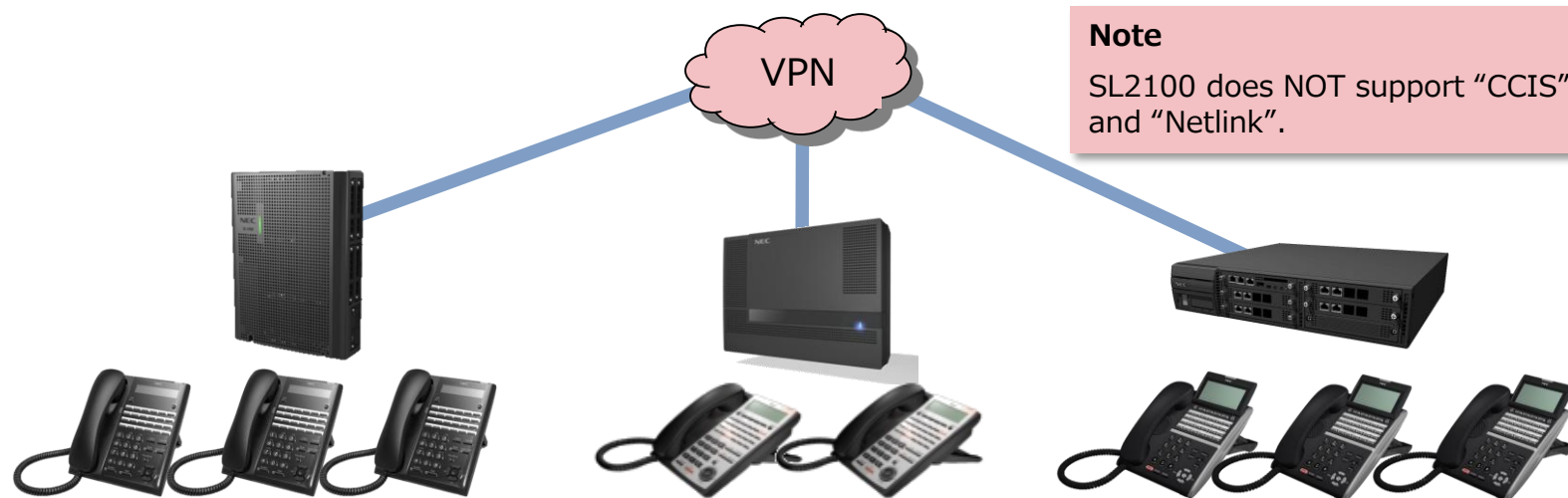
[Value-Added] Networking (AspireNet)

Summary

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

- SL2100 supports “AspireNet (over IP)” as same as SL1000/SV8100/SV9100 to establish the system interconnection. (AspireNet License is required)
- Easy to access to the desired extension from remote site, and support major system features transparency across AspireNet.
- Maximum number of available channels is 128. (Available number of simultaneous call depends on the number of available VoIP Resources)

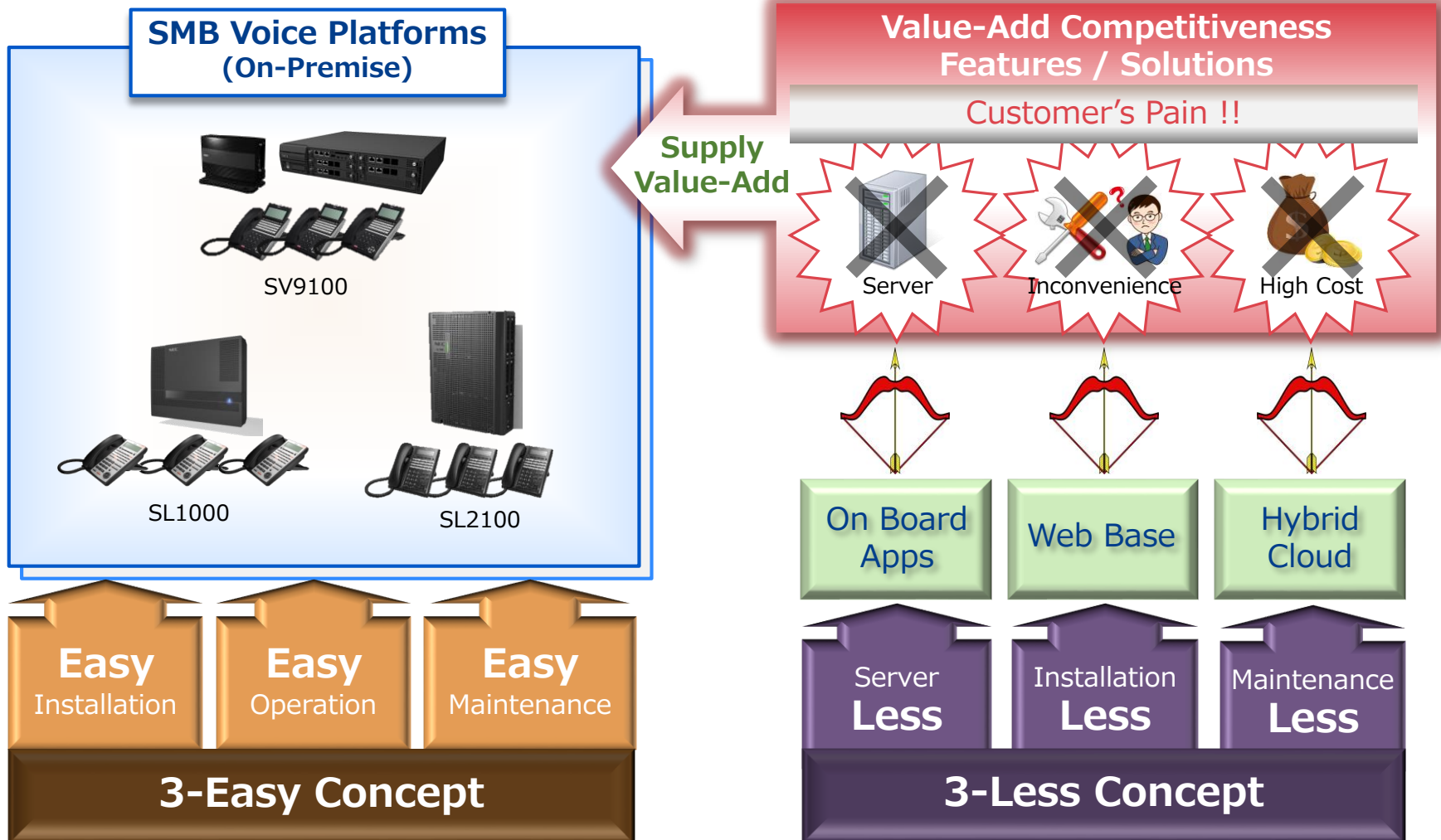
	Connectivity with SV8100/9100		Connectivity with SL Series system		Number of Channels		Number of Nodes	
	SL1000	SL2100	SL1000	SL2100	SL1000	SL2100	SL1000	SL2100
AspireNet	Yes	Yes	Yes	Yes	32	128	50	50



Applications

Basic Strategy of "Value-Add" on SMB Products (1)

Supply the Value-Add Features / Solutions with reduced customer's pain by 3-Less Concept



Basic Strategy of “Value-Add” on SMB Products (2)

Direction

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- On-Premises, Very Simple Solution -> by On-Board Apps / Web Base
- On-Premises, Sophisticated Solution -> by Hybrid Cloud Under Planning

Method / Plan

- On-Board Apps : Proceed to prepare various types of Lua Applet
- Web Base : Continue to enhance InUC Web Client
- Hybrid Cloud : Prepare the Cloud Applications and create the business model (OPEX model by timed license, etc.) Under Planning

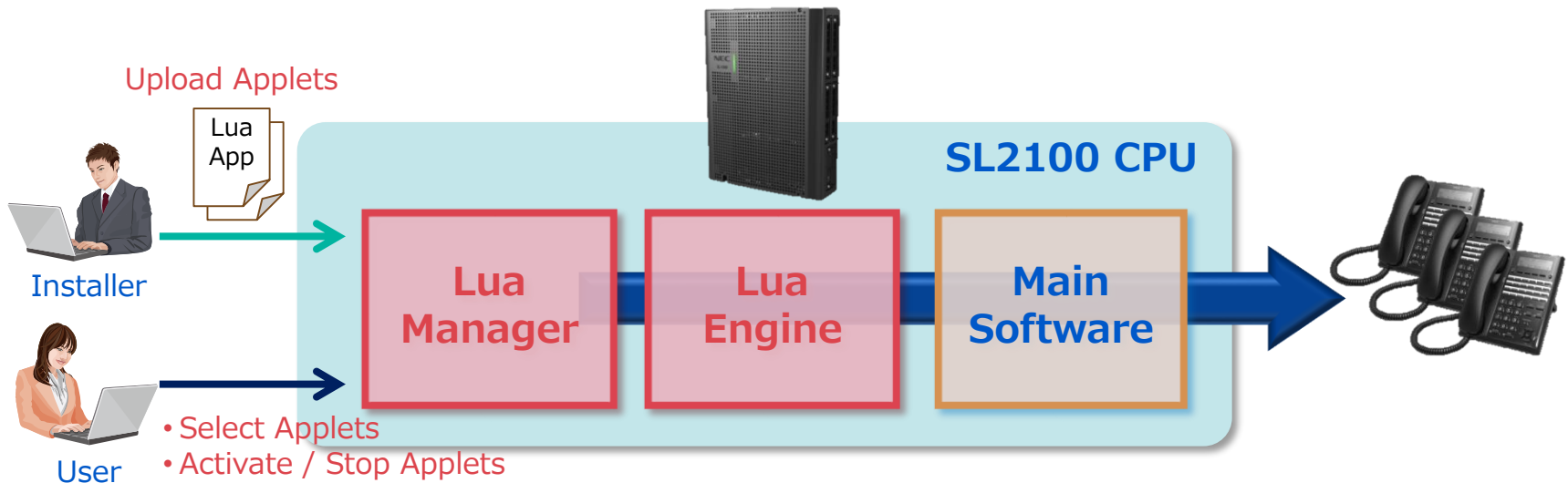
Local Applications

- NECJ basically allows to connect the local Applications accordingly. 3rd Party Venders who have interest to connect their Applications to our product can apply to USP (UNIVERGE Solution Partners) and enable to download necessary API.

On-Board Applications

What is on-board applications?

- SL2100 has a capability to support the on-board applications by using “Lua” technology on CPU. Simple and easy solution can be supplied without external server.
- Lua Engine and Manager are initially equipped on the CPU beside SL2100 Main Software, and various types of solutions will be able to be supplied by uploading the Lua Applet.



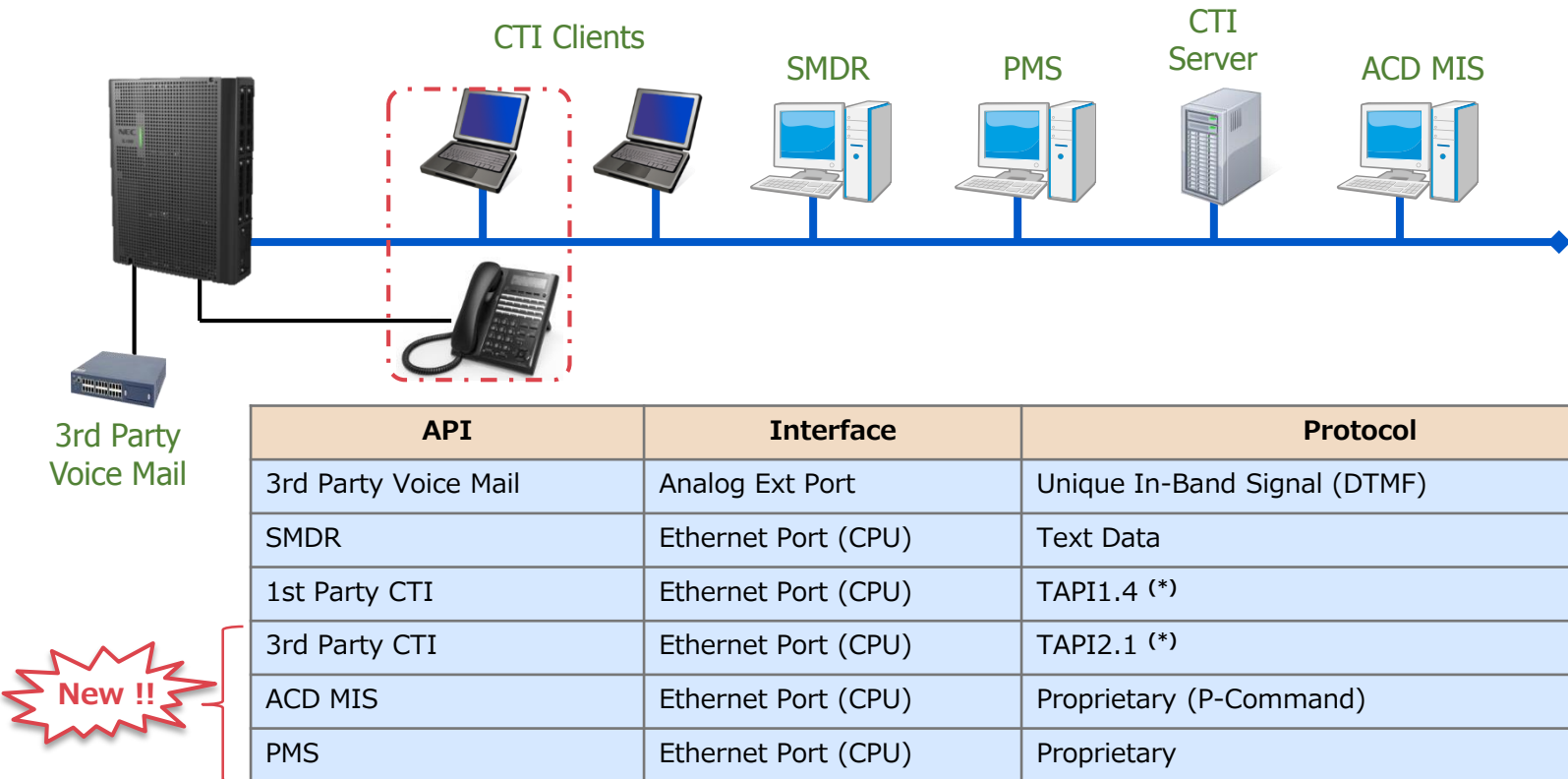
What kind of on-board applications will be available?

- “In-Guard (Toll Fraud Guard)” and “PMS API Converter” will be released on R1, and other various type of applets are under planning.
- Each Applet is copy-free but must be controlled by license to activate on SL2100.

Application Interface (API)

Available APIs on SL2100

- SL2100 has following various interface for 3rd Party Applications.
- Ready to collaborate with applications for value-added solutions.



New !!

(*) TSP Driver for SV9100 will be used on SL2100 as well, and it shall be installed on CTI Server.

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UC Suite

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- SL2100 has capability to work with UC Suite (UC Suite : R5 or later) which is prepared for SV9100/SL2100.
- Only “Server-Less” mode is supported.

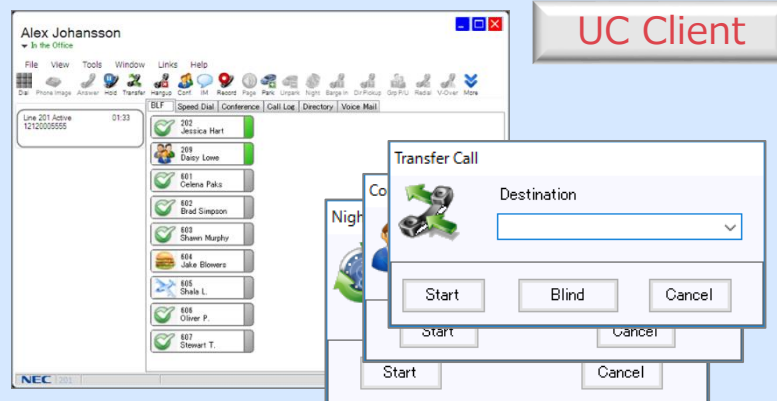
Components



UC Suite Basic features

- ✓ Outlook integration
- ✓ IM / Presence
- ✓ Click to dial
- ✓ Call log/recording
- ✓ Pop-up on ringing
- ✓ Soft Phone

etc...



Reference (1)

○ : Yes - : N/A

Category	Features	SL2100 (SL2100 : R1, UC Suite : R5)				SV9100 (SV9100 : R7 / UC Suite : R5)			
		Web Base InUC Client	UC Suite			Web Base InUC Client	UC Suite		
			Server-Less Mode	Server Mode			Server-Less Mode	Server Mode	
				FAT Client	FAT Client			Web Client	FAT Client
Type of Terminals	Work with Legacy/IP MLT	○	○	-	-	○ (SV91 R7)	○	○	○
	Work with Analog SLT	○ (*1)	○ (*1)	-	-	○ (*1) (SV91 R7)	○ (*1)	○ (*1)	○ (*1)
	Work with Std-SIP TEL	-	-	-	-	-	-	-	-
	Work with ST4xx on Smartphone	TBD	-	-	-	TBD	-	-	-
	Work with IP Softphone	TBD	○ (SP310)	-	-	TBD	○ (SP310)	○ (SP310)	-
Type of GUI	Toolbar Mode	-	○	-	-	-	○	○	-
	Window Mode	○	○	-	-	○	○	○	○
	Phone Image	-	-	-	-	-	○ (SP310)	○ (SP310)	-
Call Handling Features	Call Control (Answer, Hold, Transfer, Hang Up, Dial, Conference, etc.)	○	○	-	-	○ (SV91 R7)	○	○	○
	Last Number Redial	-	○	-	-	-	○	○	-
	Voice Over	-	-	-	-	-	○	○	-
	Voice Mail Access	-	○	-	-	-	○	○	○
	Call Log	○ (*2)	○ (*2)	-	-	○ (*2) (SV91 R7)	○ (*2)	○	○
	Call To Tag	-	○	-	-	-	○	○	-
Highlight Dial	-	○	-	-	-	○	○	○	

(*1) There are some feature limitations due to type of terminal (Analog SLT).

(*2) There are some limitations of max number of log storage and type of call for call log.

Reference (2)

○ : Yes - : N/A

Category	Features	SL2100 (SL2100 : R1, UC Suite : R5)				SV9100 (SV9100 : R7 / UC Suite : R5)			
		Web Base InUC Client	UC Suite			Web Base InUC Client	UC Suite		
			Server-Less Mode	Server Mode			Server-Less Mode	Server Mode	
				FAT Client	FAT Client			Web Client	FAT Client
Directory	Directory/Contact	○	○	-	-	○	○	○	○
	Shared Directory	○ (*3)	-	-	-	○ (*3) (SV91 R7)	-	○	○
Presence	Phone Status (BLF) Monitoring	○ (*4)	○ (*4)	-	-	○ (*4) (SV91 R7)	○ (*4)	○ (*5)	○ (*5)
	Remote Conference Monitoring	-	○	-	-	-	○	-	-
	Presence	○	○	-	-	○	○	○	○
	Photo Presence	-	-	-	-	-	-	○	○
	Park Monitoring	-	-	-	-	-	-	○	○
Messaging	IM	○	○	-	-	○	○	○	○
	Quick Message	-	-	-	-	-	-	○	-
	Phone Message	-	-	-	-	-	-	○	-
VM	InMail Integration	-	○	-	-	-	○	○	-
	UM8000 Integration	-	-	-	-	-	○	○	-
Conference	Data Conference	-	-	-	-	-	○	○	-
	Web Base Video Conference	○	-	-	-	○	-	-	○
Integration with other App. / Others	Outlook Add-in	-	○	-	-	-	○	○	○
	CRM Integration	-	○	-	-	-	○	○	○
	Answering Center (Plug-In)	-	TBD	-	-	-	○	○	-
	ACD Agent (with ACD-MIS App)	-	-	-	-	-	-	○	○

(*3) System Speed Dial (*4) Contact list members only (*5) All TELs under the system

Summary

(Major Differences between SL1000 and SL2100)

Summary : Major Differences (SL1000 vs SL2100) (1)

Category	Items	SL1000	SL2100
Hardware	KSU design for Capacity Expansion	Piggy-back design	Slot-In design
	4th KSU	Bus connection to Main KSU	IP Connection to Main KSU (R2)
	Analog Trunk + Hybrid Ext Board	408 (4 Trunks + 8 Hybrid Ext)	308 (3 Trunks + 8 Hybrid Ext)
	Power Failure Transfer Circuits	Available	Not available
	PRI Board	Interface Board type (occupy 1slot)	Daughter Board type (mount on 008U/000U Board)
	Analog Trunk Board	Not available	Daughter Board type (mount on 008U/000U Board)
	Additional Memory for feature expansion	MEMDB Board	No more additional memory
	Additional Telephony Resource	by PZ-VM21 and/or Expansion KSU	by EXIFB-C1 Board
	Analog Modem (V.34)	by PZ-VM21	by EXIFB-C1 Board
	Audio Port	Use unused Analog Trunk port as Audio Port	Dedicated Audio Port is provided on 308U Board
	Power feeding at ISDN S-point	Available	Not available
Terminals	Multi-Line Terminals	Flatness and Thinness design	Round & Edge design
	Proprietary IP Terminal	24 Keys, same design as Legacy terminals	8 Keys, DESI-Less design
	Color Line-up	Black and White	Black only
	Terminal Migration of previous model	Not allowed	Allowed to accommodate SL1000 terminals
	Doorphone	Max 8	Max 6
VRS/VM	Hardware	PZ-VM21 Board and CF Cards (3 types)	No hardware, Optional SD Cards (2 types)
	Channels	2ch by default on CPU (limited function) Max 16ch by MEMDB Board, CF and Licenses	4ch by default on CPU Max 16ch by EXIFB Board
	Recording Storage	8 min. by default on CPU (limited function) 15 hours (CFVMS), 40 hours (CFVML)	2 Hours by default on CPU 15 hours (SDVMS), 120 hours (SDVML)

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Summary : Major Differences (SL1000 vs SL2100) (2)

Category	Items	SL1000	SL2100
VoIP	VoIP Resources	No default resources Max 32ch by VOIPDB Board, MEMDB and License	8ch by default on CPU Max 128ch by VOIPDB Board and Licenses
	IP Trunks	4 IP Trunks are available on CPU Max 32 by Licenses	No bundle IP Trunks on CPU Max 64 by Licenses
	IP Extensions	No bundle IP Extensions on CPU Max 64 by Licenses	No bundle IP Extensions on CPU Max 112 by Licenses
System Features	InACD	Not available	Available with License
	Hotel PMS	Not available	Available with License
	NAPT Traversal	Available by License	Available without License
	3rd Party CTI	Not available	Available with License
	Web Base InUC Client	Not available	Available with License
Software Capability	DDI Conversion Table	800	1,000
	Department (Hunt) Group	32	50
	Call Pickup Group	32	50
	Internal Paging Group	32	50
	Trunk Group	25	50
	Trunk Group Routing	25	50
	IP Multiple Profile	2	6
	Extension Number Digit	4	8
Applications	Lua Applets	Available with License (from R7)	Available with License
	UC Applications	Available with License (SL Desktop Suite)	Available with License (UC Suite)
	ACD-MIS Application	Not available	Available with License ("Contact Center" which is contained in the "UC Suite" package)
Maintenance	Auto Upgrading	Not available	Available (if system is connected to the Internet)

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Reference : Features List

Features List (Plan) <1>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Abbreviated Dialing/Speed Dial	Abbreviated Dialing/Speed Dial	<input type="radio"/>	<input type="radio"/>	None
Account Code Forced/Verified/Unverified	Account Code Forced/Verified/Unverified	<input type="radio"/>	<input type="radio"/>	None
Account Code Entry	Account Code Entry	<input type="radio"/>	<input type="radio"/>	None
Alarm	Alarm	<input type="radio"/>	<input type="radio"/>	None
Alarm Reports	Alarm Reports	<input type="radio"/>	<input type="radio"/>	Add Some Alarm information. Refer to package specification for new alarm.
Alphanumeric Display	Alphanumeric Display	<input type="radio"/>	<input type="radio"/>	SL2100 does not support LCD external file Integrate the extension number digit through all market(8 digit)
Analog Communications Interface (ACI)	Analog Communications Interface (ACI)	<input type="radio"/>	<input type="radio"/>	HW specification are difference. Refer to package basic specification for detail information.
Ancillary Device Connection	Ancillary Device Connection	-	<input type="radio"/>	None
Answer Hold/Automatic Hold	Answer Hold/Automatic Hold	<input type="radio"/>	<input type="radio"/>	None
AspireNet	AspireNet	<input type="radio"/>	<input type="radio"/>	Number of Ch is increased from 32 to 128
Attendant Call Queuing	Attendant Call Queuing	<input type="radio"/>	<input type="radio"/>	None
Automatic Call Distribution (ACD)	Automatic Call Distribution (ACD)	-	<input type="radio"/>	SL2100 function is based on SL ACD for US. SL2100 will supports supervisor and AIC Log in. SL2100 expand the ACD group from 4 to 8. SL2100 expand the ACD Agents to 112.
Automatic Release	Automatic Release	<input type="radio"/>	<input type="radio"/>	None
Automatic Route Selection (ARS/F-Route)	Automatic Route Selection (ARS/F-Route)	<input type="radio"/>	<input type="radio"/>	None
Background Music	Background Music	<input type="radio"/>	<input type="radio"/>	HW specification are difference. Refer to package basic specification for detail information.
Barge-In	Barge-In	<input type="radio"/>	<input type="radio"/>	None
Battery Backup - System Memory	Battery Backup - System Memory	<input type="radio"/>	<input type="radio"/>	None
Battery Backup - System Power	Battery Backup - System Power	<input type="radio"/>	<input type="radio"/>	None
Built-in Auto-Answering	Built-in Auto-Answering	<input type="radio"/>	<input type="radio"/>	Build in VRS and VM are supported at All market. Refer to VM basic specification for detail information.
Built-in Automated Attendant	Built-in Automated Attendant	-	<input type="radio"/>	Build in VRS and VM are supported at All market. Refer to VM basic specification for detail information.

Features List (Plan) <2>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Call Arrival (CAR) Keys	Call Arrival (CAR) Keys	<input type="radio"/>	<input type="radio"/>	None
Call Duration Timer	Call Duration Timer	<input type="radio"/>	<input type="radio"/>	None
Call Forwarding	Call Forwarding	<input type="radio"/>	<input type="radio"/>	None
Call Forwarding with Follow Me	Call Forwarding with Follow Me	<input type="radio"/>	<input type="radio"/>	None
Call Forwarding, Off-Premise	Call Forwarding, Off-Premise	<input type="radio"/>	<input type="radio"/>	None
Call Forwarding/Do Not Disturb Override	Call Forwarding/Do Not Disturb Override	<input type="radio"/>	<input type="radio"/>	None
Call Monitoring	Call Monitoring	<input type="radio"/>	<input type="radio"/>	None
Call Redirect	Call Redirect	<input type="radio"/>	<input type="radio"/>	None
Call Waiting/Camp-On	Call Waiting/Camp-On	<input type="radio"/>	<input type="radio"/>	None
Callback	Callback	<input type="radio"/>	<input type="radio"/>	None
Caller ID Call Return	Caller ID Call Return	<input type="radio"/>	<input type="radio"/>	None
Caller ID	Caller ID	<input type="radio"/>	<input type="radio"/>	Support SV8100 R9 VRS Talkie Enhancement function.
Caller ID - Flexible Ringing	Caller ID - Flexible Ringing	<input type="radio"/>	<input type="radio"/>	None
Caller ID - Shared Logging	Caller ID - Shared Logging	<input type="radio"/>	-	We will supply system caller log in return for shared logging.
Central Office Calls, Answering	Central Office Calls, Answering	<input type="radio"/>	<input type="radio"/>	None
Central Office Calls, Placing	Central Office Calls, Placing	<input type="radio"/>	<input type="radio"/>	None
Class of Service	Class of Service	<input type="radio"/>	<input type="radio"/>	None
Clock/Calendar Display/Time and Date	Clock/Calendar Display/Time and Date	<input type="radio"/>	<input type="radio"/>	None
Code Restriction/Toll Restriction	Code Restriction/Toll Restriction	<input type="radio"/>	<input type="radio"/>	None
Code Restriction Override/Toll Restriction Override	Code Restriction Override/Toll Restriction Override	<input type="radio"/>	<input type="radio"/>	None
Code Restriction, Dial Block/Toll Restriction, Dial Block	Code Restriction, Dial Block/Toll Restriction, Dial Block	<input type="radio"/>	<input type="radio"/>	None
Conference	Conference	<input type="radio"/>	<input type="radio"/>	None
Conference, Remote	Conference, Remote	<input type="radio"/>	<input type="radio"/>	None
Conference . Remote Conference Recording	Conference . Remote Conference Recording	<input type="radio"/>	<input type="radio"/>	None

Features List (Plan) <3>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Conference, Voice Call/Privacy Release	Conference, Voice Call/Privacy Release	○	○	None
Continued Dialing	Continued Dialing	○	○	None
Data Line Security	Data Line Security	○	○	None
Delayed Ringing	Delayed Ringing	○	○	None
Department Calling	Department Calling	○	○	None
Department Step Calling	Department Step Calling	○	○	None
DHCP Client	DHCP Client	○	○	None
Dial Pad Confirmation Tone	Dial Pad Confirmation Tone	○	○	None
Dial Tone Detection	Dial Tone Detection	○	○	None
Dialing Number Preview	Dialing Number Preview	○	○	None
Digital Trunk Clocking	Digital Trunk Clocking	○	○	None
Direct Inward Dialing (DID)	Direct Inward Dialing (DID)	○	○	None
Direct Inward Line (DIL)	Direct Inward Line (DIL)	○	○	None
Direct Inward System Access (DISA)	Direct Inward System Access (DISA)	○	○	None
Direct Station Selection (DSS) Console	Direct Station Selection (DSS) Console	○	○	None
Directed Call Pickup	Directed Call Pickup	○	○	None
Distinctive Ringing, Tones and Flash Patterns	Distinctive Ringing, Tones and Flash Patterns	○	○	None
Do Not Disturb (DND)	Do Not Disturb (DND)	○	○	None
Door Box	Door Box	○	○	Terminal line up are difference. Refer to Terminal specification for detail.
Drop Key	Drop Key	○	○	None
Ecology	Ecology	○	○	None
Flash	Flash	○	○	None
Flexible Ring	Flexible Ring	○	○	None
Flexible System Numbering	Flexible System Numbering	○	○	System Capacity is difference. Refer to System Data specification for detail.
Flexible Timeouts	Flexible Timeouts	○	○	None

Features List (Plan) <4>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Forced Trunk Disconnect	Forced Trunk Disconnect	<input type="radio"/>	<input type="radio"/>	None
Group Call Pickup	Group Call Pickup	<input type="radio"/>	<input type="radio"/>	None
Group Listen	Group Listen	<input type="radio"/>	<input type="radio"/>	None
Handset Mute/Handset Cutoff	Handset Mute/Handset Cutoff	<input type="radio"/>	<input type="radio"/>	None
Handsfree and Monitor	Handsfree and Monitor	<input type="radio"/>	<input type="radio"/>	None
Handsfree Answerback/Forced Intercom Ringing	Handsfree Answerback/Forced Intercom Ringing	<input type="radio"/>	<input type="radio"/>	None
Headset Operation	Headset Operation	<input type="radio"/>	<input type="radio"/>	None
Hold	Hold	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel	Hotel/Motel	<input type="radio"/>	<input type="radio"/>	Support PMS. Support Wakeup Call Setting Snooze Callback (SV9100 R3 function)
Hotel/Motel – Do Not Disturb	Hotel/Motel – Do Not Disturb	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – DSS Console Monitoring	Hotel/Motel – DSS Console Monitoring	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – Message Waiting	Hotel/Motel – Message Waiting	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – PMS Integration	Hotel/Motel – PMS Integration	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – Room Status	Hotel/Motel – Room Status	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – Room Status Printout	Hotel/Motel – Room Status Printout	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – Room-to-Room Call Restriction	Hotel/Motel – Room-to-Room Call Restriction	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – Single Digit Dialing	Hotel/Motel – Single Digit Dialing	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – Toll Restriction (When Checked In)	Hotel/Motel – Toll Restriction (When Checked In)	<input type="radio"/>	<input type="radio"/>	None
Hotel/Motel – Wake Up Call	Hotel/Motel – Wake Up Call	<input type="radio"/>	<input type="radio"/>	None
Hot Key-Pad	Hot Key-Pad	<input type="radio"/>	<input type="radio"/>	None
Hotline	Hotline	<input type="radio"/>	<input type="radio"/>	None
Howler Tone Service	Howler Tone Service	<input type="radio"/>	<input type="radio"/>	None

Features List (Plan) <5>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
InGuard (Toll Fraud Guard)	InGuard (Toll Fraud Guard)	R7	<input type="radio"/>	None
InMail	InMail	<input type="radio"/>	<input type="radio"/>	None
InMail – Auto Setting	InMail – Auto Setting	<input type="radio"/>	<input type="radio"/>	None
InMail – Automatic Access to VM by Caller ID	InMail – Automatic Access to VM by Caller ID	<input type="radio"/>	<input type="radio"/>	None
InMail – Cascade Message Notification	InMail – Cascade Message Notification	<input type="radio"/>	<input type="radio"/>	None
InMail – Email Notification	InMail – Email Notification	<input type="radio"/>	<input type="radio"/>	None
InMail – Find-Me Follow-Me	InMail – Find-Me Follow-Me	<input type="radio"/>	<input type="radio"/>	None
InMail – Language Setting	InMail – Language Setting	<input type="radio"/>	<input type="radio"/>	None
InMail Park and Page	InMail Park and Page	<input type="radio"/>	<input type="radio"/>	None
InMail Upload Download Audio	InMail Upload Download Audio	<input type="radio"/>	<input type="radio"/>	None
Intercom	Intercom	<input type="radio"/>	<input type="radio"/>	None
InUC Web Client	---	-	<input type="radio"/>	New Feature
IP Multiline Station (SIP)	IP Multiline Station (SIP)	<input type="radio"/>	<input type="radio"/>	New designed IP Terminal
IP Single Line Terminal (SIP)	IP Single Line Terminal (SIP)	<input type="radio"/>	<input type="radio"/>	Support ST4xx as well
IP Trunk - (SIP) Session Initiation Protocol	IP Trunk - (SIP) Session Initiation Protocol	<input type="radio"/>	<input type="radio"/>	None
IP Trunk - H.323	IP Trunk - H.323	<input type="radio"/>	<input type="radio"/>	None
ISDN Compatibility	ISDN Compatibility	<input type="radio"/>	<input type="radio"/>	None
ISDN Compatibility - Collect Call Blocking	ISDN Compatibility - Collect Call Blocking	<input type="radio"/>	<input type="radio"/>	None
Last Number Redial	Last Number Redial	<input type="radio"/>	<input type="radio"/>	None
LCR-Least Cost Routing	LCR-Least Cost Routing	<input type="radio"/>	<input type="radio"/>	None
Licensing	Licensing	<input type="radio"/>	<input type="radio"/>	New License Line-up
Line Preference	Line Preference	<input type="radio"/>	<input type="radio"/>	None
Long Conversation Cutoff	Long Conversation Cutoff	<input type="radio"/>	<input type="radio"/>	None

Features List (Plan) <6>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Loop Keys	Loop Keys	<input type="radio"/>	<input type="radio"/>	None
Maintenance	Maintenance	<input type="radio"/>	<input type="radio"/>	New designed PCPRO/WebPRO/UserPRO
Maintenance - Automatic System Update	---	-	<input type="radio"/>	SL2100 will supply a new maintenance method. Refer to Features & Specs Manual for detail.
Maintenance- Software Update	---	-	<input type="radio"/>	SL2100 will supply a new maintenance method. Refer to Features & Specs Manual for detail.
Meet Me Conference	Meet Me Conference	<input type="radio"/>	<input type="radio"/>	None
Meet Me Paging	Meet Me Paging	<input type="radio"/>	<input type="radio"/>	None
Meet Me Paging Transfer	Meet Me Paging Transfer	<input type="radio"/>	<input type="radio"/>	None
Memo Dial	Memo Dial	<input type="radio"/>	<input type="radio"/>	None
Message Waiting	Message Waiting	<input type="radio"/>	<input type="radio"/>	None
Microphone Cutoff	Microphone Cutoff	<input type="radio"/>	<input type="radio"/>	None
Mobile Extension	Mobile Extension	<input type="radio"/>	<input type="radio"/>	Support the following functions as well. Mobile Extension Enhance (Distinctive Ringing) Mobile Extension Enhance (Progress tone)
Mobile Extension - Callback to Mobile Phone	Mobile Extension - Callback to Mobile Phone	<input type="radio"/>	<input type="radio"/>	None
Multiple Trunk Types	Multiple Trunk Types	<input type="radio"/>	<input type="radio"/>	None
Multi Device Support	---	-	<input type="radio"/>	New function. Spec is same as SV9100.
Music on Hold	Music on Hold	<input type="radio"/>	<input type="radio"/>	H/W Specification is different from SL1000
Name Storing	Name Storing	<input type="radio"/>	<input type="radio"/>	None
Navigation Key	Navigation Key	<input type="radio"/>	<input type="radio"/>	Same as SL1000
Night Service	Night Service	<input type="radio"/>	<input type="radio"/>	None
Off-Hook Signaling	Off-Hook Signaling	<input type="radio"/>	<input type="radio"/>	None
One-Touch Calling	One-Touch Calling	<input type="radio"/>	<input type="radio"/>	None
Operator	Operator	<input type="radio"/>	<input type="radio"/>	None
Paging, External	Paging, External	<input type="radio"/>	<input type="radio"/>	HW Specification is different from SL1000
Paging, External (VRS)	Paging, External (VRS)	<input type="radio"/>	<input type="radio"/>	None
Paging, Internal	Paging, Internal	<input type="radio"/>	<input type="radio"/>	None
Park	Park	<input type="radio"/>	<input type="radio"/>	None

Features List (Plan) <7>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
PBX Compatibility/Behind PBX	PBX Compatibility/Behind PBX	○	○	None
PC Programming	PC Programming	○	○	None
---	PC Programming - Intuition Setup	○	-	Support general PC pro function by Web PRO.
---	Power Failure Transfer	○	-	Remove this function. Currently user uses their private mobile phone when power failure happen at their office.
Prime Line Selection	Prime Line Selection	○	○	None
Private Line	Private Line	○	○	None
Programmable Function Keys	Programmable Function Keys	○	○	None
Programming from a Multiline Terminal	Programming from a Multiline Terminal	○	○	TelPRO is same as SL1000
Pulse to Tone Conversion	Pulse to Tone Conversion	○	○	None
Redial Function	Redial Function	○	○	None
Repeat Redial	Repeat Redial	○	○	None
Resident System Program	Resident System Program	○	○	None
Ring Groups	Ring Groups	○	○	None
Ringdown Extension (Hotline), Internal/External	Ringdown Extension (Hotline), Internal/External	○	○	None
Room Monitor	Room Monitor	○	○	None
Save Number Dialed	Save Number Dialed	○	○	None
Secondary Incoming Extension	Secondary Incoming Extension	○	○	None
Secretary Call (Buzzer)	Secretary Call (Buzzer)	○	○	None
Secretary Call Pickup	Secretary Call Pickup	○	○	None
Security	Security	○	○	None
Selectable Display Messaging	Selectable Display Messaging	○	○	None
Selectable Ring Tones	Selectable Ring Tones	○	○	None
Serial Call	Serial Call	○	○	None
Simple Network Management Protocol (SNMP)	---	×	○	Function Spec is same as SV9100.
Single Line Terminals	Single Line Terminals	○	○	None

Features List (Plan) <8>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
SIP Trunk E.164 CLIP Enhancement	SIP Trunk E.164 CLIP Enhancement	○	○	None
SIP Trunk E.164 Support	SIP Trunk E.164 Support	○	○	None
Softkeys	Softkeys	○	○	Available only IP Terminals, and Spec is same as SL1000
Station Hunt	Station Hunt	○	○	None
Station Message Detail Recording	Station Message Detail Recording	○	○	None
Station Name Assignment - User Programmable	Station Name Assignment - User Programmable	○	○	
Station Relocation	Station Relocation	○	○	
System Caller Log		-	○	We will supply system caller log in return for shared logging.
Tandem Ringing	Tandem Ringing	○	○	None
Tandem Trunking (Unsupervised Conference)	Tandem Trunking (Unsupervised Conference)	○	○	None
TAPI Compatibility	TAPI Compatibility	-	○	New TAPI driver is required for SL2100.
Tone Override	Tone Override	○	○	None
Traffic Reports	Traffic Reports	○	○	None
Transfer	Transfer	○	○	None
Trunk Group Routing	Trunk Group Routing	○	○	None
Trunk Groups	Trunk Groups	○	○	None
Trunk Queuing/Camp-On	Trunk Queuing/Camp-On	○	○	None
Unicast/Multicast Paging Mode	Unicast/Multicast Paging Mode	○	○	None
Uniform Call Distribution (UCD)	Uniform Call Distribution (UCD)	○	○	None
Universal Slot		×	○	New function due to new hardware design
User Programming Ability	User Programming Ability	○	○	None
Video Conference with WebRTC		R7	○	Function spec is same as SV9100.
Virtual Extensions	Virtual Extensions	○	○	None
Voice Mail Integration (Analog)	Voice Mail Integration (Analog)	○	○	None
Voice Mail Message Indication on Line Keys	Voice Mail Message Indication on Line Keys	○	○	None
Voice/Melody Ringing by VM	Voice/Melody Ringing by VM	○	○	None

Features List (Plan) <9>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Voice Response System (VRS)	Voice Response System (VRS)	<input type="radio"/>	<input type="radio"/>	None
Voice Response System (VRS) Upload Download Audio	Voice Response System (VRS) Upload Download Audio	<input type="radio"/>	<input type="radio"/>	None
Voice Response System (VRS) - Call Forwarding - Park and Page	Voice Response System (VRS) - Call Forwarding - Park and Page	<input type="radio"/>	<input type="radio"/>	None
Volume Controls	Volume Controls	<input type="radio"/>	<input type="radio"/>	None
Warning Tone for Long Conversation	Warning Tone for Long Conversation	<input type="radio"/>	<input type="radio"/>	None

Reference : PRG List

Changed PRG Numbers <1>

SL1000		
PRG No.	Item	Input Data
10-29-09	DNS IP Address	0.0.0.0-126.255.255.254 128.0.0.1-191.255255.254 192.0.0.1-223.255.255.254
10-29-10	DNS Port	0-65535
10-29-17	DNS Source Port	0-65535
10-40-01	IP Trunk Availability	0: Disable 1: Enable
None (Auto assignment)		
10-40-02	Number of ports	0-32 (Port)
84-01-59 84-12-32 84-13-50 84-19-50	FAX Relay Mode	0: Disable 1: Enable 2: Each Port Mode
84-13-51 84-19-51	T.38 Protocol mode	0: R/U 1: U/R 2: RTP 3: UDPTL
None (no parameter setting)		
84-13-61 84-19-61	T.38 RTP Format Payload Number	96-127
84-01-36 84-13-52 84-19-52	T.38 FAX Max Rate	0: V.27ter: 4800 bps 1: V.29: 9600 bps 2: V.17: 14400 bps
None (no parameter setting)		
84-01-44 84-13-56 84-19-56	Low-speed Signal Data	0-2

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SL2100		
PRG No.	Item	Input Data
10-67-02	DNS IP Address	0.0.0.0-126.255.255.254 128.0.0.1-191.255255.254 192.0.0.1-223.255.255.254
10-67-03	DNS Port	0-65535
10-67-04	DNS Source Port	0-65535
10-68-01	Trunk Type	0: None 1: SIP 2: H.323 3: Reserved
10-68-02	Start Port	0-128
10-68-03	Number of Port	0-64
84-33-01	FAX Relay Mode	0: Disable 1: Enable 2: Each Port Mode
84-33-02	T.38 Protocol mode	0: R/U 1: U/R 2: RTP 3: UDPTL
84-33-04	T.38 Maximum Jitter Buffer	0-300
84-33-05	T.38 RTP Format Payload Number	96-127
84-33-06	T.38 FAX Max Speed	0: V.27ter: 4800 bps 1: V.29: 9600 bps 2: V.17: 14400 bps
84-33-07	T.38 Data Error Correction Mode	0: Redundancy 1: FEC
84-33-08	T.38 Error protection depth for Signaling	0-2

Changed PRG Numbers <2>

SL1000		
PRG No.	Item	Input Data
84-01-45 84-13-57 84-19-57	High-speed Signal Data	0-2
84-01-46 84-13-58 84-13-58	TCF Operation Setting	1: Training signal of the fax is locally generated and checked. 2: Training signal of the fax is sent over the network.
None (no parameter setting)		
84-32-01	FAX CODEC	1: G.711 a-law 2: G.711 u-law 3: G726
84-32-02	Payload Size	1-4 (10ms base)
84-32-03	Jitter Buffer Mode	1: Static 2: Self adjusting
84-32-04	Jitter Buffer (min)	0-300
84-32-05	Jitter Buffer (average)	0-300
84-32-06	Jitter Buffer (max)	0-300
84-32-07	RTP Payload Type	96-127 (Not Sip Trunk) 0,2,8,96-127 (SIP Trunk)
None (no parameter setting)		

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SL2100		
PRG No.	Item	Input Data
84-33-09	T.38 Error protection depth for Data	0-2
84-33-10	T.38 TCF Method	1: VOIPDB 2: G3FE
84-33-11	T.38 ECM(Error Correction Mode) Mode	0: Disable 1: Enable
84-33-12	FAX CODEC	1: G.711 a-law 2: G.711 u-law 3: G726
84-33-13	Payload Size	1-4 (10ms base)
84-33-14	Jitter Buffer Mode	1: Static 2: Self adjusting
84-33-15	Minimum Jitter Buffer	0-300
84-33-16	Average Jitter Buffer	0-300
84-33-17	Maximum Jitter Buffer	0-300
84-33-18	FAX RTP Payload Type	96-127 (Not Sip Trunk) 0,2,8,96-127 (SIP Trunk)
84-33-19	FAX over IP Type	0: Type 1 1: Type 2

Changed PRG Numbers <3>

SL1000		
PRG No.	Item	Input Data
84-01-62 84-12-31 84-13-32 84-19-32 84-21-21 84-25-31 84-27-01 84-34-01	DTMF Relay Mode	0:Disable 1:RFC2833 2:H.245
84-13-31 84-19-31	DTMF Payload Number	96-127
None (no parameter setting)		
None (no parameter setting)		
None (no parameter setting)		
84-01-69 84-12-39 84-13-62 84-19-62	DTMF Level Mode	0:VOIPU 1:Main Soft
84-01-70 84-12-40 84-13-63 84-19-63	DTMF Level High	1...-33dBm : 28...-6dBm
84-01-71 84-12-41 84-13-64 84-19-64	DTMF Level Low	1...-33dBm : 28...-6dBm
84-27-08	DTMF Duration	0: Use RFC2833 25-2000(ms)
84-27-09	DTMF Pause	0: Use RFC2833 25-2000(ms)

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SL2100		
PRG No.	Item	Input Data
84-34-01	DTMF Relay Mode	0:Disable 1:RFC2833 2:H.245
84-34-02	DTMF Payload Number	96-127
84-34-03	DTMF Detection Type	1-5
84-34-04	DTMF Transmit Type	1-5
84-34-05	DTMF Relay(inband) Retransmit Type	1-5
84-35-01	RFC2833 Payout Level	0... depend on RFC2833 1... Configuration
84-35-02	RFC2833 Payout Level High	1...-33dBm : 28...-6dBm
84-35-03	RFC2833 Payout Level Low	1...-33dBm : 28...-6dBm
84-35-04	RFC2833 Payout Transmit Duration	0: dpend on RFC2833 25-2000(ms)
84-35-05	RFC2833 Payout Pause Duration	0: dpend on RFC2833 25-2000(ms)

Changed PRG Numbers <4>

SL1000		
PRG No.	Item	Input Data
84-27-13	DTMF Level	1-61(-36db~24db) 1: -36 db 2: -35 db : 37: 0 db : 60: 23 db 61: 24 db
84-27-12	DTMF Duration	30-2000(ms)
None (no parameter setting)		
84-27-16	DTMF Detect Minimum Level	0: -40 dbm 1: -39 dbm 2: -38 dbm : 10:-30dbm : 31: -9 dbm
84-27-10	DTMF Detect Twist Positive Level	0-24(dB)
84-27-11	DTMF Detect Twist Negative Level	0-24(dB)
84-27-15	DTMF Detect Minimum Duration	23 - 2000(ms)
84-27-17	DTMF Detect Minimum S/N Ratio	0: -9 db 1: -8 db : 6: -3 db 7: -2 db 8: -1 db 9: 0 db

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SL2100		
PRG No.	Item	Input Data
84-36-01	DTMF Transmit Level	1-61(-36db~24db) 1: -36 db 2: -35 db : 37: 0 db : 60: 23 db 61: 24 db
84-36-02	DTMF Transmit Duration	30-2000(ms)
84-36-03	DTMF Transmit Twist Level	1-49(-24dB-24dB) 1: -24 dB 2: -23 dB : 25: 0dB : 48: 23 dB 49: 24 dB
84-37-01	DTMF Detect Minimum Level	0: -40 dbm 1: -39 dbm 2: -38 dbm : 10:-30dbm : 31: -9 dbm
84-37-02	DTMF Detect Twist Positive Level	0-24(dB)
84-37-03	DTMF Detect Twist Negative Level	0-24(dB)
84-37-04	DTMF Detect Minimum Duration	23 - 2000(ms)
84-37-05	DTMF Detect Minimum S/N Ratio	0: -9 db 1: -8 db : 6: -3 db 7: -2 db 8: -1 db 9: 0 db

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Changed PRG Numbers <5>

SL1000		
PRG No.	Item	Input Data
None		
90-09-01	Month	0 ~ 12
90-09-02	Day	0 ~ 31
None		
90-09-03	Hour	0 ~ 23
90-09-04	Minute	0 ~ 59

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SL2100		
PRG No.	Item	Input Data
90-09-01	Automatic System Reset	0: Disable 1: Enable
90-09-02	Month	0 ~ 12
90-09-03	Day	0 ~ 31
90-09-04	Week	0: No Setting 1: Monday : 7: Sunday
90-09-05	Hour	0 ~ 23
90-09-06	Minute	0 ~ 59

Masked PRG Numbers <1>

PRG No.	Name	Reason why masked
10-03-24(BRIU)	Power feeding for S-point	It is not used on SL1000/SL2100 because power feeding was not available on SL1000/SL2100.
10-06	ISDN BRI Setup	It is not used on SL1000/SL2100 because it is used only in US market.
11-11-66	Dial Control Key Operation	It is not used on SL1000/SL2100 because it is for Topaz terminal.
14-01-33	APSU Trunk Receive Gain	It is not used on SL1000/SL2100 because APSU card (hardware) is not supported.
20-07-21	Register and delete DECTPP	It is not used on SL1000/SL2100 because it is for migration from SV8100 to SV9100.
20-39	Shortcut Operation Setup	It is not used on SL1000/SL2100 because it is for Topaz terminal.
20-40	Function Key List Setup	It is not used on SL1000/SL2100 because it is for Topaz terminal.
20-41	Service Code Setup	It is not used on SL1000/SL2100 because it is for Topaz terminal.
40-01	Voice Mail Basic Setup	It is not used on SL1000/SL2100 because it is for used only in Japan market.
80-03-09	Area Type	It is not used on SL1000/SL2100 because it is used only in Aust market.
82-13	Volume level Data Setup for TXD TEL2	It is not used on SL1000/SL2100 because it is for Topaz terminal.
84-14-01	INVITE ReTx Count	It must be fixed data. (not allowed to change)
84-14-02	Request ReTx Count	It must be fixed data. (not allowed to change)
84-14-03	Response ReTx Count	It must be fixed data. (not allowed to change)
84-14-04	Request ReTx Start Time	It must be fixed data. (not allowed to change)
84-14-05	Request Maximum ReTx Interval	It must be fixed data. (not allowed to change)
84-24-31	DTMF Payload Number	It is not used on SL1000/SL2100 because it is for DT700 Series terminal.
84-24-38	DTMF Level mode	It is not used on SL1000/SL2100 because it is for DT700 Series terminal.
84-24-39	DTMF Level High	It is not used on SL1000/SL2100 because it is for DT700 Series terminal.
84-24-40	DTMF Level Low	It is not used on SL1000/SL2100 because it is for DT700 Series terminal.

Masked PRG Numbers <2>

PRG No.	Name	Reason why masked
11-11-71	Auto Backlight	It is masked from SL2100 because auto backlight feature is not supported on SL2100.
15-02-56	Screen Saver Start Time	It is masked from SL2100 because screen saver feature is not supported on SL2100.
15-02-63	Auto Backlight	It is masked from SL2100 because auto backlight feature is not supported on SL2100.
15-02-64	Auto Backlight bound threshold (auto setting)	It is masked from SL2100 because auto backlight feature is not supported on SL2100.
15-02-65	Auto Backlight bound threshold (manual setting)	It is masked from SL2100 because auto backlight feature is not supported on SL2100.
30-05-01	Idle Extension	It is masked from SL2100 because it does not support on SL2100.
35-03	SMDR Port Assignment for Trunk Group	It is masked from SL2100 because the number of SMDR port is changed to 1.
35-04	SMDR Port Assignment for Department Group	It is masked from SL2100 because the number of SMDR port is changed to 1.
47-01-17	In-Mail Port (From)	It is masked from SL2100 because the In-Mail port is fixed on SL2100 (no need to set).

PRG No.	Name	Reason why masked
10-03-02(COIU)	Select port type	It is masked from SL2100 because the audio port specification is changed from SL1000. (There is dedicated audio port and set by PRG10-60)
10-07	Conversation Recording Resource	It is masked from SL2100 because recording resource is not required to assign. (Conversation Recording feature shall work without this setting)
10-24	Daylight Savings Setup	It is masked from SL2100 because Daylight Saving setup is merged to PRG10-01-09.
10-26	IP System Operation Setup	It is masked from SL2100 because P2P mode can be set by PRG15-05-50 (Port base).
15-02-67	Caller ID shared groups	It is masked from SL2100 because shared System Caller Log feature is used instead of shared group feature.
20-49	Caller ID Shared Group Basic Data Setup	It is masked from SL2100 because shared System Caller Log feature is used instead of shared group feature.
90-13	Ssystem Information Output	It is masked from SL2100 because slot and port information can be displayed by WebPRO/PCPRO.
90-33	Preselected Data Setup	It is masked from SL2100 because similar features (easy setup, initial setup wizard) are provided by PCPRO.
90-35	Wizard Programming Level Setup	It is masked from SL2100 because similar features (easy setup, initial setup wizard) are provided by PCPRO.
90-57	Backup Recovery Data	It is masked from SL2100 because data backup is available by WebPRO/PCPRO.
90-58	Restore Recovery Data	It is masked from SL2100 because data backup is available by WebPRO/PCPRO.
90-59	Delete Recovery Data	It is masked from SL2100 because data backup is available by WebPRO/PCPRO.
90-66	FTP Firmware Update setup	It is masked from SL2100 because software auto-upgrading feature covers firmware upgrading as well.

Masked PRG Numbers <3>

PRG No.	Name	Reason why masked
84-01-11	Number of G.723 audio frames	It is masked from SL2100 because SL2100 does not support G.723.
84-01-19	G.723 Jitter Buffer(min)	It is masked from SL2100 because SL2100 does not support G.723.
84-01-20	G.723 Jitter Buffer (average)	It is masked from SL2100 because SL2100 does not support G.723.
84-01-21	G.723 Jitter Buffer (max)	It is masked from SL2100 because SL2100 does not support G.723.
84-01-61	Auto Gain Control	It is not used on SL1000/SL2100 because this setting is not required.
84-12-12	Number of G.723 Audio Frames	It is masked from SL2100 because SL2100 does not support G.723.
84-12-14	G.723 Jitter Buffer (min)	It is masked from SL2100 because SL2100 does not support G.723.
84-12-15	G.723 Jitter Buffer (average)	It is masked from SL2100 because SL2100 does not support G.723.
84-12-16	G.723 Jitter Buffer (max)	It is masked from SL2100 because SL2100 does not support G.723.
84-12-30	Echo Auto Gain Control	It is not used on SL1000/SL2100 because this setting is not required.
84-13-12	Number of G.723Audio Frame	It is masked from SL2100 because SL2100 does not support G.723.
84-13-14	G.723 Jitter Buffer - Minimum	It is masked from SL2100 because SL2100 does not support G.723.
84-13-15	G.723 Jitter Buffer - Standard	It is masked from SL2100 because SL2100 does not support G.723.
84-13-16	G.723 Jitter Buffer - Maximum	It is masked from SL2100 because SL2100 does not support G.723.
84-13-30	EchoAuto Gain Control	It is not used on SL1000/SL2100 because this setting is not required.
84-13-43	iLBC Audio Frame	It is masked from SL2100 because SL2100 does not support iLBC.
84-13-45	iLBC Jitter Buffer - Minimum	It is masked from SL2100 because SL2100 does not support iLBC.
84-13-46	iLBC Jitter Buffer - Standard	It is masked from SL2100 because SL2100 does not support iLBC.
84-13-47	iLBC Jitter Buffer - Maximum	It is masked from SL2100 because SL2100 does not support iLBC.
84-13-48	iLBC Payload Number	It is masked from SL2100 because SL2100 does not support iLBC.

Masked PRG Numbers <4>

PRG No.	Name	Reason why masked
84-19-12	Number of G.723 Audio Frame	It is masked from SL2100 because SL2100 does not support G.723.
84-19-14	G.723 Jitter Buffer - Minimum	It is masked from SL2100 because SL2100 does not support G.723.
84-19-15	G.723 Jitter Buffer - Standard	It is masked from SL2100 because SL2100 does not support G.723.
84-19-16	G.723 Jitter Buffer - Maximum	It is masked from SL2100 because SL2100 does not support G.723.
84-19-30	EchoAuto Gain Control	It is not used on SL1000/SL2100 because this setting is not required.
84-19-43	iLBC Audio Frame	It is masked from SL2100 because SL2100 does not support iLBC.
84-19-45	iLBC Jitter Buffer - Minimum	It is masked from SL2100 because SL2100 does not support iLBC.
84-19-46	iLBC Jitter Buffer - Standard	It is masked from SL2100 because SL2100 does not support iLBC.
84-19-47	iLBC Jitter Buffer - Maximum	It is masked from SL2100 because SL2100 does not support iLBC.
84-19-48	iLBC payload number	It is masked from SL2100 because SL2100 does not support iLBC.
84-24-30	EchoAuto Gain Control	It is not used on SL1000/SL2100 because this setting is not required.
84-27-02	Setup CODEC Mode	It is masked from SL2100 because SL2100 does not support G.723 and iLBC.

New PRG Numbers from SL2100 <1>

Operating System

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
10-74 [New]	OS User Password		
10-74-01	root password	Up to 20 characters	
10-74-02	admin password	Up to 20 characters	
10-75 [New]	iptables Setting		
10-75-01	iptables status	0: Disable 1: Enable	0

InMail

PRG No.	Name	Input Data	Default Value
47-01	InMail System Options		
47-01-20 [New]	Delete DTMF Tone when recording message	0: Disable 1: Enable	1

DTMF

PRG No.	Name	Input Data	Default Value
14-01	Basic Trunk Data Setup		
14-01-47 [New]	DTMF Receiver Type	1-3: Type1-Type3	1
80-03	DTMF Tone Receiver Setup		
80-03-10 [New]	Sensitivity Level	0-1	Type 1 = 0 Type 2 = 0 Type 3 = 0 Type 4 = 0 Type 5 = 0

New PRG Numbers from SL2100 <2>

Doorphone TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
82-04	SLIU Initial Data Setup		
82-04-15 [New]	Door Phone Button ON Time	1-255 (5ms-1275ms)	50 (250ms)
82-04-16 [New]	Door Phone Button OFF Time	1-255 (5ms-1275ms)	20 (100ms)

SNMP

PRG No.	Name	Input Data	Default Value
90-64 [New]	SNMP Setup		
90-64-01	SNMP	0..Off 1..On	0
90-64-02	Community Name	Up to 12 characters	public
90-64-03	Target hosts 1 (IP Address)		0.0.0.0
90-64-04	Target hosts 2 (IP Address)		0.0.0.0
90-64-05	Target hosts 3 (IP Address)		0.0.0.0
90-64-06	Target hosts 4 (IP Address)		0.0.0.0
90-64-07	Target hosts 5 (IP Address)		0.0.0.0
90-64-08	Domain Name	String(Max 255 digit)	No Setting
90-64-09	Trap Set Message	0: Not Accept 1: Accept	0

New PRG Numbers from SL2100 <3>

1st Party CTI

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
93-06 [New]	IP Address list for 1st Party CTI connection		
93-06-01	IP Address on the 1st Party CTI Client	IP Address: XXX.XXX.XXX.XXX	0.0.0.0
93-06-02	Availability of 1st Party CTI connection	0: Not Available 1: Available	0

Multi Device

PRG No.	Name	Input Data	Default Value
20-63 [New]	Multi-Device Group Setup		
20-63-01	Pilot Extension Number	Dial (Up to 8 digits)	No setting
20-63-02	Member Extension Number 1	Dial (Up to 8 digits)	No setting
20-63-03	Member Extension Number 2	Dial (Up to 8 digits)	No setting
20-63-04	Member Extension Number 3	Dial (Up to 8 digits)	No setting
20-63-05	Member Extension Number 4	Dial (Up to 8 digits)	No setting
20-63-06	Member Extension Number 5	Dial (Up to 8 digits)	No setting
20-63-07	Member Extension Number 6	Dial (Up to 8 digits)	No setting
20-63-08	Member Extension Number 7	Dial (Up to 8 digits)	No setting
11-11	Service Code Setup (for Setup/Entry Operation)		
11-11-75 [New]	Multi Device Support (ON)	0-9,*,# Maximum of 8 digit	No setting
11-11-76 [New]	Multi Device Support (OFF)	0-9,*,# Maximum of 8 digit	No setting
15-07	Programmable Function Keys		
15-07-01 Function Number #14 [New]	Multi-Device Support		

New PRG Numbers from SL2100 <4>

IP Trunk

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
10-68 [New]	IP Trunk Availability		
10-68-01	Trunk Type	0: None 1: SIP 2: H.323 3: Reserved	0
10-68-02	Start Port	0-128	0
10-68-03	Number of Port	0-64	0
14-18	IP Trunk Data Setup		
14-18-01 [New]	IP Trunk Type	0: None 1: SIP 2: H.323	0
14-18-03 [New]	P2P Mode	0: Disable 1: Enable	0
14-18-05	SIP Profile	1: Profile1 2: Profile2 3: Profile3 [New] 4: Profile4 [New] 5: Profile5 [New] 6: Profile6 [New]	1
10-67 [New]	SIP Stack Configuration Setup		
10-67-01	DNS Mode	0: off 1: on	0
10-67-02	DNS IP Address	0.0.0.0-126.255.255.254 128.0.0.1-191.255.255.254 192.0.0.1-223.255.255.254	0.0.0.0
10-67-03	DNS Port	0-65535	53
10-67-04	DNS Source Port	0-65535	53
10-67-05	Request ReTx Start time	0-65535 (0ms-6553.5sec)	5(500ms)
10-67-06	Request Max ReTx Interval	0-65535 (0ms-6553.5sec)	40(4000ms)
10-03	VoIP PKG Setup		
10-03-03(VoIPDB) [New]	Number of Voice Channels	(Read only) 0-128	0

New PRG Numbers from SL2100 <5>

8IPLD TEL TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
15-20 [New]	LCD Line Key Name Assignment		
15-20-01	Name/Name(Chinese Character)	The character of a maximum of 13 characters. The Chinese character of a maximum of 6 characters.	LINE 1 ~ LINE 8
15-25 [New]	DESI-less Page Setup		
15-25-01	Incoming Call Notify Event	0: Disable 1: Enable	1
15-25-02	automatically Screen Change while Incoming Call	0: Disable 1: Enable	1
15-25-03	automatic Display Setting while idle	0: Disable 1-4: Page1-Page4	0
15-25-04	automatic Display Setting while speaking	0: Disable 1-4: Page1-Page4	0
15-02	Multiline Telephone Basic Data Setup		
15-02-47 [New]	Icon display mode of DESI-less	0: OFF 1: ON	0
15-05	IP Telephone Terminal Basic Data Setup		
15-05-19 [New]	Side option information	(Read only) 0: No Option 1-3: Not used 4: EHS	0
15-05-50 [New]	Peer to Peer Mode	0: OFF 1: ON	1
15-05-51 [New]	Transport Protocol	(Read only) 0: UDP 1: TCP	0
15-24	Registration of Standard SIP Terminal		
15-24-04 [New]	Transport Protocol	0: UDP 1: TCP	0

New PRG Numbers from SL2100 <6>

Hotel (PMS) (1) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
42-06 [New]	PMS Service Setting		
42-06-01	PMS Port Number	0-65535	5129
42-06-02	3:00 AM Auto Room Scan	0: off 1: on	0
42-06-03	CheckIn Message Type	0: off 1: on	0
42-06-04	CheckOut Auto Status Change	0: off 1: on	0
42-06-05	AREYUTHERE/LINETEST Send Timing	1-128 (seconds)	10
42-06-06	AREYUTHERE/LINETEST Send Count	0-20 (times)	3
42-06-07	CheckOut Auto Flexible Status Change	0: off 1: on	0
42-06-08	Status for CheckOut Auto Flexible Status Change	1: Room Clean(Occupied) 2: Maid Required 3: Maid in Room 4: Inspection Required 5: Maintenance Request 6: Out of Order 7: Reserve 1 8: Reserve 2 9: Reserve 3 0: Room Clean(Vacant) *: Reserve 5 #: Reserve 6	4
42-07 [New]	PMS Restriction Level Conversion Table		
42-07-01	PMS Restriction Level Conversion Table	1-15	Level 0 = 10 Level 1 = 11 Level 2 = 12 Level 3 = 13
42-05	Hotel Room Status Printer		
42-05-05 [New]	PMS Protocol type	0: Normal 1: Fidelio	0

New PRG Numbers from SL2100 <7>

Hotel (PMS) (2) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
42-03	Class of Service Options (Hotel/Motel)		
42-03-13 [New]	PMS Restriction Level	0: off 1: on	1
42-08 [New]	Text Message Setup for Hotel Room Status		
42-08-01	Fidelio Room Status Number	0-#	
42-08-02	Text Message Data	Maximum 32 characters	No Setting
30-05	DSS Console Lamp Table		
30-05-09 [New]	Hotel Status Code 1(Hotel DSS)	0-7 (Lamp Pattern Data)	7
30-05-10 [New]	Hotel Status Code 2(Hotel DSS)	0-7 (Lamp Pattern Data)	1
30-05-11 [New]	Hotel Status Code 3(Hotel DSS)	0-7 (Lamp Pattern Data)	2
30-05-12 [New]	Hotel Status Code 4(Hotel DSS)	0-7 (Lamp Pattern Data)	3
30-05-13 [New]	Hotel Status Code 5(Hotel DSS)	0-7 (Lamp Pattern Data)	5
30-05-14 [New]	Hotel Status Code 6(Hotel DSS)	0-7 (Lamp Pattern Data)	3
30-05-15 [New]	Hotel Status Code 7(Hotel DSS)	0-7 (Lamp Pattern Data)	6
30-05-16 [New]	Hotel Status Code 8(Hotel DSS)	0-7 (Lamp Pattern Data)	4
30-05-17 [New]	Hotel Status Code 9(Hotel DSS)	0-7 (Lamp Pattern Data)	3
30-05-18 [New]	Hotel Status Code 0(Hotel DSS)	0-7 (Lamp Pattern Data)	0
30-05-19 [New]	Hotel Status Code *(Hotel DSS)	0-7 (Lamp Pattern Data)	4
30-05-20 [New]	Hotel Status Code #(Hotel DSS)	0-7 (Lamp Pattern Data)	5
42-01	System Options for Hotel/Motel		
42-01-07 [New]	Snooze Callback Timer	0-30(minute) 0: Not activated	10
42-01-08 [New]	Snooze Callback Setting Dial	0-9,*,# Up to 1 digits	1

New PRG Numbers from SL2100 <8>

InACD (1) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
41-01 [New]	System Options for ACD		
41-01-01	System Supervisory Extension	Dial (Up to 8 digits)	No Setting
41-01-02	Login ID Code Digit	Dial 0-20 (0: No ID)	0
41-01-03	ACD MIS Connection Ports	0: No set 3: LAN	0
41-01-04	ACD MIS Notification when ACD Call receives Busy	0: Enabled 1: Disabled	0
41-01-05	ACD MIS Output Format	0: Classic 1: 8-digit DDI Field 2: Extra DDI event 3: XML Format	0
41-02 [New]	ACD Group and Agent Assignments		
41-02-01	ACD Group No.	0-8 (0: No setting)	0
41-03 [New]	Incoming Ring Group Assignment for ACD Group		
41-03-01	ACD Group No.	0-8 (0: No setting)	0
41-03-02	Night announcement service	0: No 1: Yes	0
41-03-03	Priority Data	0 : No priority 1 : Highest priority : 4 : Low priority	0
41-04 [New]	Group Supervisory Station Setup		
41-04-01	Group Supervisory Extension	Up to 8 digits	No Setting
41-04-02	Operation Type	0 : Supervisor's extension does not receive ACD Group calls. 1 : Supervisor's extension receives ACD Group overflow calls only. 2 : Supervisor's extension receives ACD Group calls just like all other agents.	0

New PRG Numbers from SL2100 <9>

InACD (2) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
41-05 [New]	ACD Agent Work Schedules		
41-05-01	Start Time	00:00-23:59	0:00
	End Time	00:00-23:59	0:00
41-06 [New]	Trunk Work Schedules		
41-06-01	Start Time	00:00-23:59	0:00
	End Time	00:00-23:59	0:00
41-07 [New]	ACD Weekly Schedule Setup		
41-07-01	Day Number	1: Sunday 2: Monday 3: Tuesday 4: Wednesday 5: Thursday 6: Friday 7: Saturday	0
	Time Pattern	0-4 0: No ACD	
41-08 [New]	ACD Overflow Options		
41-08-01	Overflow Operation Mode	0: No overflow(None) 1: Overflow with no announcements 2: No overflow with 1st announcement only 3: No overflow with 1st and 2nd announcements 4: Overflow with 1st announcement only 5: Overflow with 1st and 2nd announcements 6: Not used 7: Not used 8: No overflow with 2nd announcement only 9: Overflow with 2nd announcement only	0

New PRG Numbers from SL2100 <10>

InACD (3) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
41-08-02	Transferred Destination when overflow	0-8 (0: No setting) 9: Extended Table(PRG 41-09) 10: Voice Mail Integration (In-skin VM) 11: Speed dial areas (PRG 41-08-05) 12: Incoming Ring Group(PRG 41-08-06)	0
41-08-03	Delay announcement source type	1: VRS 2: InMail	1
41-08-04	ACD overflow transfer time	0-64800(seconds) 0: Don't transfer	0
41-08-05	Speed Dial areas when overflow	0-999(Used when PRG41-08-02 is set to 11)	999
41-08-06	Incoming Ring Group when overflow	1-50(Used when PRG41-08-02 is set to 12)	1
41-09 [New]	ACD Overflow Table Setting		
41-09-01	Destination ACD Group	0-9 0: No Setting 9: InMail	0
41-11 [New]	VRS Delay Announcement		
41-11-01	Delay Message Start Timer	0-64800(seconds)	0
41-11-02	1st Delay Message Number	0-101 0: No Message 101: Fixed Message	101
41-11-03	1st Delay Message Sending Count	0-255	0
41-11-04	2nd Delay Message Number	0-101 0: No Message 101: Fixed Message	0
41-11-05	2nd Waiting Message Sending Count	0-255	0
41-11-06	Tone Kind at Message Interval	0: Ring Back Tone 1: MOH Tone 2: BGM Source	0
41-11-07	ACD Forced Disconnect Time after the 2nd Delay Message	0-64800(seconds) 0: No Disconnect	60

New PRG Numbers from SL2100 <11>

InACD (4) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
41-11-08	Queue Depth Announcement	0: Disable 1: After 1st 2: After 2nd 3: After 1st and 2nd	0
41-12 [New]	Night Announcement Setup		
41-12-03	ACD Night Announce Sending Time	0-64800(seconds)	0
41-13 [New]	VRS Message Number for Night Announcement		
41-13-01	VRS Message Number	0-100 0: No Message	0
41-13-02	Tone Kind at Message Interval	0: Ring Back Tone 1: MOH Tone 2: BGM Source	0
41-14 [New]	ACD Options Setup		
41-14-01	EMG call operation mode	0: Call to system supervisory extension when group supervisory extension is busy. 1: Not call to system supervisory extension when group supervisory extension is busy.	0
41-14-02	Automatic Wrap Up Mode	0: After wrap up mode key is pressed.(Manual) 1: After call is finished automatically.(Auto)	0
41-14-03	ACD Priority for Overflow Calls	0: Own group priority 1: Priority order by Program 41-03-03	0
41-14-04	Automatic Answer at Headset	0: off 1: on	0
41-14-06	Call Queuing after 2nd Announcement	0: Enable 1: Disable	0
41-14-07	Automatic Off Duty for SLT	0: No change to Off Duty mode 1: Change to Off Duty mode automatically	0
41-14-08	ACD Off Duty Mode	0: Can not receive internal call 1: Can receive internal call	0
41-14-09	Automatic Wrap Up End Time	0-64800 (seconds)	0
41-14-10	ACD No Answer Skip Time	0-64800 (seconds)	0

New PRG Numbers from SL2100 <12>

InACD (5) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
41-14-12	Start Headset Ear Piece Ringing (for SLT)	0-64800 (seconds)	0
41-14-17	CTI : Operation mode when transfer no login ACD groups	0: Transfer to ACD group 1: Error notice	0
41-16 [New]	ACD Threshold Overflow		
41-16-01	Number of Calls in Queue	0-128 0: No Limitation	0
41-16-02	Operation Mode for ACD Queue	0: The last waiting call is transfered 1: The longest waiting call is transfered 2: Send Busy Tone	0
41-17 [New]	ACD Login Mode Setup		
41-17-01	Login Mode	0: Normal Login Mode 1: AIC Login Mode	0
41-18 [New]	ACD Agent Identity Code Setup		
41-18-01	ACD Agent Identity Code	Up to 4 digits	No Setting
41-18-02	Default ACD Group Number	0-8 (0: No setting)	0
41-18-03	ACD Group Number in Mode 1	0-8 (0: No setting)	0
41-18-04	ACD Group Number in Mode 2	0-8 (0: No setting)	0
41-18-05	ACD Group Number in Mode 3	0-8 (0: No setting)	0
41-18-06	ACD Group Number in Mode 4	0-8 (0: No setting)	0
41-18-07	ACD Group Number in Mode 5	0-8 (0: No setting)	0
41-18-08	ACD Group Number in Mode 6	0-8 (0: No setting)	0
41-18-09	ACD Group Number in Mode 7	0-8 (0: No setting)	0

New PRG Numbers from SL2100 <13>

InACD (6) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
41-18-10	ACD Group Number in Mode 8	0-8 (0: No setting)	0
41-20 [New]	ACD Queue Display Settings		
41-20-01	Number of Calls in Queue	0-128 0: No Display	0
41-20-02	Queue Status Display Time	0-64800 (seconds)	5
41-20-03	Queue Status Display Interval	0-64800 (seconds)	60
41-20-04	ACD Call Waiting Alarm	0: Disable 1: Enable	0
41-20-05	ACD Call Waiting Alarm Hold Time	0-64800 (seconds)	0
41-20-06	Number of calls to switch the state of ACD Queue Alarm Display Key	0-128 0: Not switch	0
11-17 [New]	ACD Group Pilot Number		
11-17-01	ACD Group Pilot Number	Dial(Up to 8 digits)	No setting
15-07	Programmable Function Keys		
15-07-01 Function Number *10 [New]	ACD Log in / Log out		
15-07-01 Function Number *12 [New]	ACD Emergency call		
15-07-01 Function Number *13 [New]	ACD off-duty mode(Rest Mode)		
15-07-01 Function Number *15 [New]	ACD Terminal Speech Monitor		
15-07-01 Function Number *17 [New]	ACD Work wrap up time		

New PRG Numbers from SL2100 <14>

InACD (7) TeN PABX **ตู้สาขา** **ซ่อมตู้สาขา** โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
15-07-01 Function Number *19 [New]	ACD Queue Status Display		
11-13 [New]	Service Code Setup (for ACD)		
11-13-01	ACD Log In/Log Out (for KTS)	0-9,*,# Maximum of 8 digit	*5
11-13-02	ACD Log Out (for SLT)	0-9,*,# Maximum of 8 digit	755
11-13-03	Set ACD temporary release (for SLT)	0-9,*,# Maximum of 8 digit	756
11-13-04	Cancel ACD temporary release (for SLT)	0-9,*,# Maximum of 8 digit	757
11-13-05	Set ACD Off Duty (for SLT)	0-9,*,# Maximum of 8 digit	758
11-13-06	Cancel ACD Off Duty (for SLT)	0-9,*,# Maximum of 8 digit	759
11-13-08	ACD AIC Login	0-9,*,# Maximum of 8 digit	No setting
11-13-09	ACD AIC Logout	0-9,*,# Maximum of 8 digit	No setting
11-13-10	ACD Agent login by Supervisor	0-9,*,# Maximum of 8 digit	767
11-13-11	ACD Agent logout by Supervisor	0-9,*,# Maximum of 8 digit	768
11-13-12	Change agents ACD group by Supervisor	0-9,*,# Maximum of 8 digit	769
11-13-13	Agent change own ACD group	0-9,*,# Maximum of 8 digit	775
11-15	Service Code Setup, Administrative (for Special Access)		
11-15-02 [New]	ACD Access in Dialin Conversion Table	0-9,*,# Maximum of 8 digit	830
20-02	System Options for Multiline Teleohone		
20-02-27 [New]	ACD Monitor for Business Mode	0: OFF 1: ON	0
30-05	DSS Console Lamp Table		
30-05-04 [New]	ACD Agent Busy	0-7 (Lamp Pattern Data)	7
30-05-05 [New]	Out of Schedule(ACD DSS)	0-7 (Lamp Pattern Data)	0
30-05-06 [New]	ACD Agent Log Out (ACD DSS)	0-7 (Lamp Pattern Data)	5
30-05-07 [New]	ACD Agent Log In(ACD DSS)	0-7 (Lamp Pattern Data)	4
30-05-08 [New]	ACD Agent Emergency(ACD DSS)	0-7 (Lamp Pattern Data)	6

New PRG Numbers from SL2100 <15>

InUC / UC Suite (1) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
20-57	UC User Information Setting		
20-57-03 [New]	Last Name	Up to 20characters(ASCII only)	No setting
20-57-04 [New]	First Name	Up to 20characters(ASCII only)	No setting
20-57-07 [New]	TEL1	Dial Data(Up to 24 digits)0-9,*,#,@,P,R	No setting
20-57-08 [New]	Last Name2	Up to 20characters(ASCII only)	No setting
20-57-09 [New]	First Name2	Up to 20characters(ASCII only)	No setting
20-57-10 [New]	TEL2	Dial Data(Up to 24 digits)0-9,*,#,@,P,R	No setting
20-57-11 [New]	Last Name3	Up to 20characters(ASCII only)	No setting
20-57-12 [New]	First Name3	Up to 20characters(ASCII only)	No setting
20-57-13 [New]	TEL3	Dial Data(Up to 24 digits)0-9,*,#,@,P,R	No setting
20-57-14 [New]	Mobile1	Dial Data(Up to 24 digits)0-9,*,#,@,P,R	No setting
20-57-15 [New]	Mobile2	Dial Data(Up to 24 digits)0-9,*,#,@,P,R	No setting
20-57-16 [New]	E-Mail1	Up to 128characters(ASCII only)	No setting
20-57-17 [New]	E-Mail2	Up to 128characters(ASCII only)	No setting
20-57-18 [New]	Company	Up to 128characters(ASCII only)	No setting
20-57-19 [New]	Department/Division	Up to 128characters(ASCII only)	No setting
20-57-20 [New]	City	Up to 64characters(ASCII only)	No setting
20-57-21 [New]	State/Prov	Up to 32characters(ASCII only)	No setting
20-57-22 [New]	Zip/Postal	Up to 32characters(ASCII only)	No setting
20-57-23 [New]	Country	Up to 32characters(ASCII only)	No setting
20-57-24 [New]	Profile Note	Up to 256characters(ASCII only)	No setting
20-57-41 [New]	Extension Number	Dial (Up to 8 digits)	No setting

New PRG Numbers from SL2100 <16>

InUC / UC Suite (2) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
20-57-42 [New]	Language	0: Japanese 1: English 2: German 3: French 4: Italian 5: Spanish 6: Dutch 7: Portuguese 8: Norwegian 9: Danish 10: Swedish 11: Turkish 12: Romanian 13: Polish 14: Russian 15: Simplified Chinese 16: Traditional Chinese 17: Thai 18: Language18 19: Language19 20: Language20 21: Language21 22: Language22 23: Language23 24: Language24 25: Language25 26: Language26 27: Language27 28: Language28 29: Language29 30: Language30	1
20-58 [New]	UC Server Presence Settings <for UC Server on UC Suite>		
20-58-01	UC Server Presence States: In the Office	0: Disable 1: Enable	1
20-58-02	UC Server Presence States: On Vacation	0: Disable 1: Enable	1
20-58-03	UC Server Presence States: Business Travel	0: Disable 1: Enable	1
20-58-04	UC Server Presence States: In a Meeting	0: Disable 1: Enable	1
20-58-05	UC Server Presence States: Out to Lunch	0: Disable 1: Enable	1
20-58-06	UC Server Presence States: Sick	0: Disable 1: Enable	1
20-58-07	UC Server Presence States: Gone for the Day	0: Disable 1: Enable	1
20-58-08	UC Server Presence States: Out of the Office	0: Disable 1: Enable	1
20-58-09	UC Server Presence States: UnAvailable	0: Disable 1: Enable	1

New PRG Numbers from SL2100 <17>

InUC / UC Suite (3) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
20-58-10	UC Server Presence States: Unknown	0: Disable 1: Enable	1
20-58-11	UC Server Custom Presence Usage	0: Disable 1: Enable	0
20-58-12	UC Server Custom Presence 1 definition	32 characters	User Defined 1
20-58-13	UC Server Custom Presence 1 use	0: Disable 1: Enable	0
20-58-14	UC Server Custom Presence 2 definition	32 characters	User Defined 2
20-58-15	UC Server Custom Presence 2 use	0: Disable 1: Enable	0
20-58-16	UC Server Custom Presence 3 definition	32 characters	User Defined 3
20-58-17	UC Server Custom Presence 3 use	0: Disable 1: Enable	0
20-58-18	UC Server Custom Presence 4 definition	32 characters	User Defined 4
20-58-19	UC Server Custom Presence 4 use	0: Disable 1: Enable	0
20-59 [New]	UC Server User Settings		
20-59-01	UC-User ID	Upto 255 characters	No setting
20-59-02	UC-User Password	Upto 32 characters	No setting
20-59-03	UC-DT Client	0: Disable 1: Enable	0
20-59-04	UC-Web Client	0: Disable 1: Enable	0
20-59-05	UC-Deskset Extension	Dial (Up to 8 digits)	No setting
20-59-06	UC-Softphone Extension	Dial (Up to 8 digits)	No setting
20-59-07	UC-IM-Allow	0: Disable 1: Enable	1
20-59-08	UC-Shared Data Allow	0: Disable 1: Enable	0

New PRG Numbers from SL2100 <18>

InUC / UC Suite (4) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
20-59-09	UC-Global Presesnce Change Allow	0: Disable 1: Enable	0
20-59-10	UC-Message Feature Allow	0: Disable 1: Enable	1
20-59-11	UC-Phone Monitor Allow	0: Disable 1: Enable	0
20-59-12	UC-Block to be Monitored	0: Disable 1: Enable	0
20-59-13	UC-Server Connect	0: Disable 1: Enable	1
20-59-14	UC-License Level	0: Softphone 1: Deskset 2: Softphone+Deskset	1
20-59-15	UC-Login Mode	0: Softphone 1: Deskset	1
20-59-16	UC Attendant Mode	0: Disable 1: Enable	0
20-59-17	UC-Trial Mode	0: Disable 1: Enable	0
20-59-18	UC-Voicemail Interface	0: Disable 1: Enable	1
20-59-19	UC-ACD Agent Mode	0: Disable 1: Enable	0
20-59-20	UC-Abandon CallBack	0: Disable 1: Enable	0
20-59-21	UC-CRM Integration	0: Disable 1: Enable	0
20-60 [New]	UC Server Telephony Settings <for UC Server on UC Suite>		
20-60-01	UC Server Consult Call for Immediate Transfer	0: Disable 1: Enable	0
20-60-02	UC Server Emergency Number	Dial (Up to 16 digits)	No setting

New PRG Numbers from SL2100 <19>

InUC / UC Suite (5) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
20-61 [New]	UC Server Call Alerts Feature Settings <for UC Server on UC Suite>		
20-61-01	UC Server Abandon Call Alerts	0: Disable 1: Enable	0
20-61-02	UC Server Minimum Wait Time	0000-2359	0000
20-61-03	UC Server Clear Call Timer	0000-2359	0000
20-61-04	UC Server Clear call if matching Caller ID returns to queue	0: Disable 1: Enable	1
20-62 [New]	UC Exception Table		
20-62-01	Dial data	Dial (Up to 24 digits)	No setting
20-64	UC Web Application Setting		
20-64-03 [New]	IM Port Number	0-65535	0
20-64-04 [New]	Allow blank password	0: Not allow 1: Allow	0
20-64-05 [New]	Enter Key Operation at editing IM	0: Newline 1: Send IM	0
20-70 [New]	Custom Presence Status Setting		
20-70-01	Icon	0: arrow 1: asterisk 2: at 3: bed 4: coffee 5: book 6: building 7: lock 8: mobile 9: subway	0
20-70-02	Icon Color	0: Green 1: Orange 2: Red	0
20-70-03	Status Name	Up to 16 characters	None

New PRG Numbers from SL2100 <20>

InUC / UC Suite (6) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
10-69 [New]	UC Server General Settings <for UC Server on UC Suite>		
10-69-01	UC Server Availability	0: Disable 1: Enable	0
10-69-02	UC Server IP Address	0.0.0.0-126.255.255.254 128.0.0.1-191.255.255.254 192.0.0.1-223.255.255.254	0.0.0.0
10-69-03	UC Server Hostname	Upto 255 characters	NEUCSvr
10-69-04	UC Server Port Number	0-65535	0
10-69-05	UC Server Trace	0: Disable 1: Enable	0
10-69-06	UC Server Use Name for Communication	0: Disable 1: Enable	0
10-69-07	UC Server Large System Mode	0: Disable 1: Enable	0
10-69-08	UC Server Auto Restart	0: Disable 1: Enable	0
10-69-09	UC Server Auto restart frequency	0: Weekly 1: Monthly	0
10-69-10	UC Server Auto Restart : Day of the Week	0: Sun 1: Mon 2: Tue 3: Wed 4: Thu 5: Fri 6: Sat	0
10-69-11	UC Server Auto Restart Week	0: First 1: Second 2: Third 3: Fourth	0

New PRG Numbers from SL2100 <21>

InUC / UC Suite (7) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
10-69-12	UC Server Auto Restart Day	0: Sun 1: Mon 2: Tue 3: Wed 4: Thu 5: Fri 6: Sat	0
10-69-13	UC Server Auto Restart Time	0000-2359	0000
10-70 [New]	UC Server VoiceMail Interface Settings <for UC Server on UC Suite>		
10-70-01	UC Server Voicemail Integration	0: Disable 1: Enable	0
10-70-02	UM8000 IP Address	0.0.0.0-126.255.255.254 128.0.0.1-191.255.255.254 192.0.0.1-223.255.255.254	0.0.0.0
10-70-03	UM8000 Port Number	0-65535	0

New PRG Numbers from SL2100 <22>

Maintenance (1) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
20-07	Class of Service Options (Administrator Level)		
20-07-34 [New]	Clear Alarm Report	0: OFF 1: ON	COS1-15=0
20-07-35 [New]	Save Statistical Information of RTP	0: OFF 1: ON	COS1-15=0
11-10	Service Code Setup (for System Administrator)		
11-10-53 [New]	Clear Alarm Report	0-9,*,# Maximum of 8 digit	No setting
11-10-54 [New]	Save Store Statistical Information of RTP	0-9,*,# Maximum of 8 digit	761
90-03	Save Data		
90-03-02 [New]	Save DIM log	1→Hold	-
90-03-03 [New]	Save Statistical Information of RTP	1→Hold	-
90-04	Load Data		
90-04-02 [New]	LCD External File	1→Hold	-
90-04-03 [New]	License Name Data Load	1→Hold	-
90-36	Firmware Update Time Setting		
90-36-01 [New]	Automatic System Update	0: Disable 1: Enable	0
90-36-04 [New]	Week	0: No Setting 1: Monday 2: Tues day 3: Wednesday 4: Thursday 5: Friday 6: Saturday 7: Sunday	0
90-36-05 [New]	Hour	0-23: Hour	0
90-36-06 [New]	Minute	0-59: minute	0
90-36-08 [New]	Manual System Update	0: Disable 1: Enable	0

New PRG Numbers from SL2100 <23>

Maintenance (2) TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG No.	Name	Input Data	Default Value
90-36-09 [New]	Month	1-12: Month	1
90-36-10 [New]	Day	1-31: Day	1
90-36-12 [New]	Hour	0-23: Hour	0
90-36-13 [New]	Minute	0-59: minute	0
90-38	User Programming Data Level Setup		
90-38-35 [New]	UC User Information Setting	0..Off 1..On	1
90-38-37 [New]	Multi-Device Group Setup	0..Off 1..On	1
90-38-38 [New]	Ten key Backlit Control	0..Off 1..On	1
90-77 [New]	LAN Link Speed Information		
90-77-01	LAN Link Speed of CPU	0: No Link 1: 1Gbps - Full Duplex 2: 1Gbps - Half Duplex 3: 100Mbps - Full Duplex 4: 100Mbps - Half Duplex 5: 10Mbps - Full Duplex 6: 10Mbps - Half Duplex	0
90-77-02	LAN Link Speed of Voip	0: No Link 1: 1Gbps - Full Duplex 2: 1Gbps - Half Duplex 3: 100Mbps - Full Duplex 4: 100Mbps - Half Duplex 5: 10Mbps - Full Duplex 6: 10Mbps - Half Duplex	0
15-01	Basic Extension Data Setup		
15-01-16 [New]	Line Load Control Restriction	0: Not Restrict 1: Restrict	Port1 = 0 Other = 1

PRG Numbers related for Digital (2W) / DT Terminals (1)

Following PRGs are related for Digital (2W) / DT terminals on SL2100. These are **NOT required** for Asian region but enable to access.

PRG No.	Name	Input Data	Default Value	SL2100 (2W)	DT400 Series	DT800 Series
15-02	Multiline Telephone Basic Data Setup					
15-02-44	Reversing Display Indication	0=Normal Indication 1=Reversing Indication	0	X	○	○
15-02-45	Double height character Indication	0=Normal Indication 1=Double height character Indication of calendar display line. 2=Double height character Indication of status display line.	0	X	○	○
15-02-49	Button kit Information of Multi-Line Telephone		0	X	○	○
15-07	Programmable Function Keys					
15-07-01 Function Number 47	Reverse Voice Over	-	-	○	○	○
15-07-01 Function Number 48	Voice Over	-	-	○	○	○
15-07-01 Function Number #08	Bluetooth Connect	-	-	X	○	○
15-07-01 Function Number #09	Bluetooth Path	-	-	X	○	○
10-03	ESI PKG Setup					
10-03-01	Terminal Type	0=No setting 1=Multiline Telephone 10=DSS Console	0	○	○	X
10-03-02	Logical Port Number	0=No setting 1=Multiline Telephone(1-128) 10=DSS Console(1-12)	0	○	○	X
10-03-08	Multiline Telephone Type	0=DT3** 1=DT4** 3=SL 2W 4=Pyxis 2W	0	○	○	X

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

PRG Numbers related for Digital (2W) / DT Terminals (2)

PRG No.	Name	Input Data	Default Value	SL2100 (2W)	DT400 Series	DT800 Series
10-03-09	Item Side option information	0=No Option 4=EHS		X	○	X
10-03-10	Bottom option information	0=No Option 4=WHA 5=BCA	0	○	○	X
10-03-12	Multiline Telephone Line	0=None 12=12 Line 24=24 Line	0	○	○	X
11-12	Service Code Setup (for Service Access)					
11-12-41	Voice Over	0-9, *, # Maximum of 8 digit	890	○	○	○
11-16	Single Digit Service Code Setup					
11-16-08	Voice Over	0-9, *, # Maximum of 1 digit	6	○	○	○
30-03	DSS Console Key Assignment					
30-03-01 Function Number 99	Alternate Answer Key			○	○	○
30-04	DSS Console Alternate Answer					
30-04-01	DSS Console Alternate Answer			○	○	○

TeN PABX ตู้สาขา ซ่อมตู้สาขา โทรศัพท์ภายใน PABX Hotline: 089-1454237

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