

SL2100 (For NEC THAI)

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Date: 20-23 June 2017

Part : Seller and pre sale



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Product Definition & Concept

Project Name

Project Name : **Pyxis** (constellation of a compass)

This means “point to the future of SMB products”.

- NEC got “SMB Global No.1”, so we must lead SMB product market.
- Point to the way of future network business.



Reference : <http://contest.japias.jp/tqj13/130460/main/yuumei/rasinban.html>

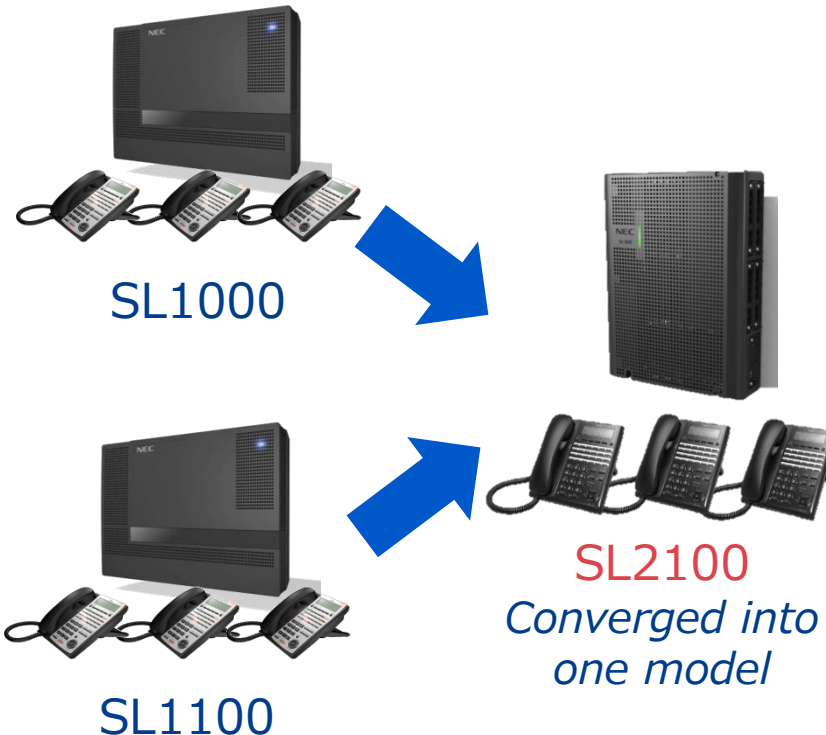
Product Name : **SL2100**

Why "SL2100"?

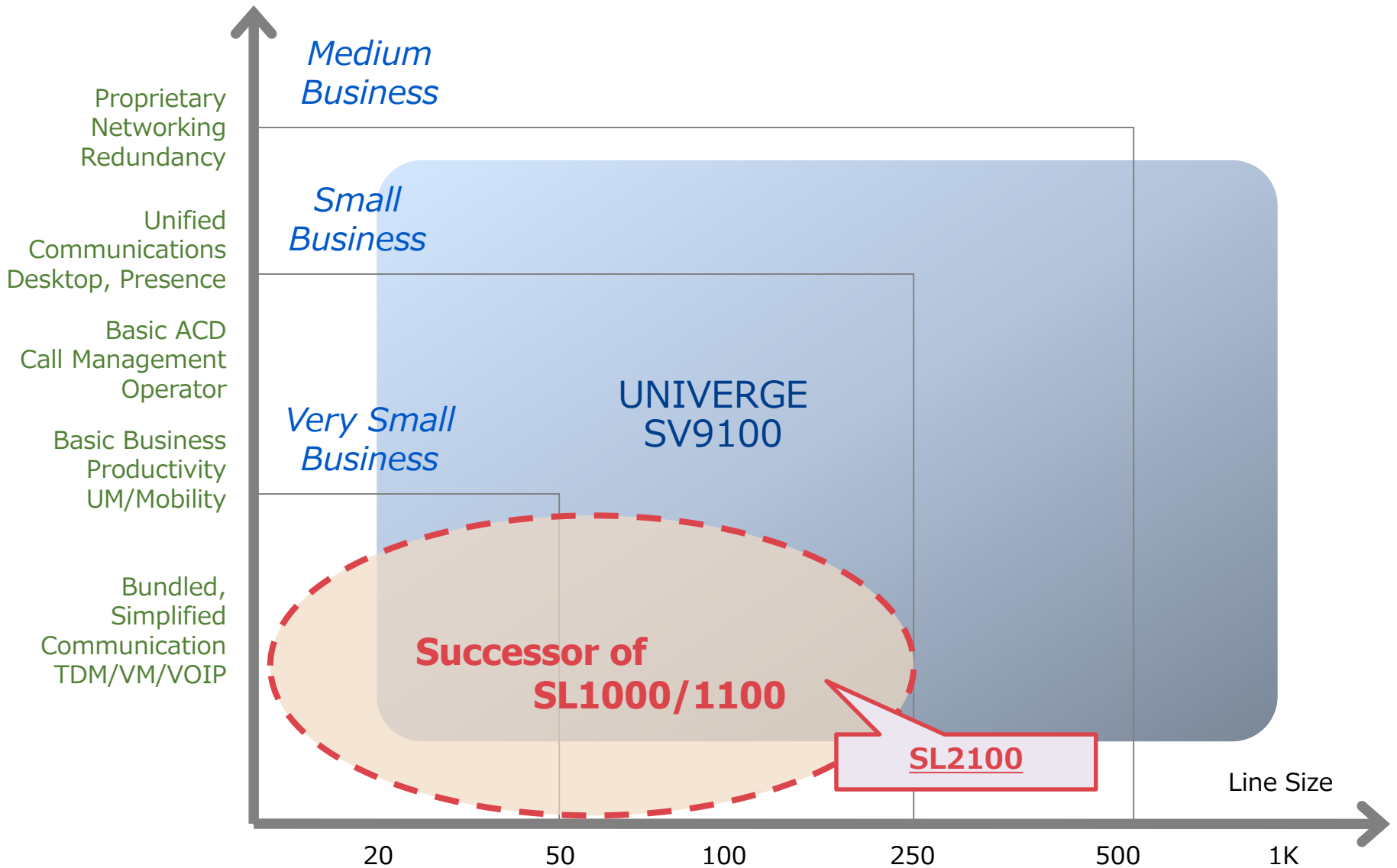
- The SL2100 is a **progression** from the SL1000/SL1100, so we can explain **migration story** easily.
- "1000+1100" is a **good marketing story**.
- We can **keep NEC brand image** by using "SL" prefix.
- SL2100 is **in line with the SV9100 naming convention** (xxx100).
- The SL2100 is still **futuristic** because 2100 is in the future.

Target Market & Positioning

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

Current Product →	SL2100	Target Market	Product Positioning
 SL1000 SL1100 SL2100 <i>Converged into one model</i>	Asia Middle East Africa Russia Europe CALA North America Australia	SL2100 - Full Hybrid Design - Small TDM/IP Converge System - For Wholesaler (US)	

SMB Product Portfolio



Product Outline

New Designed Chassis and Terminals

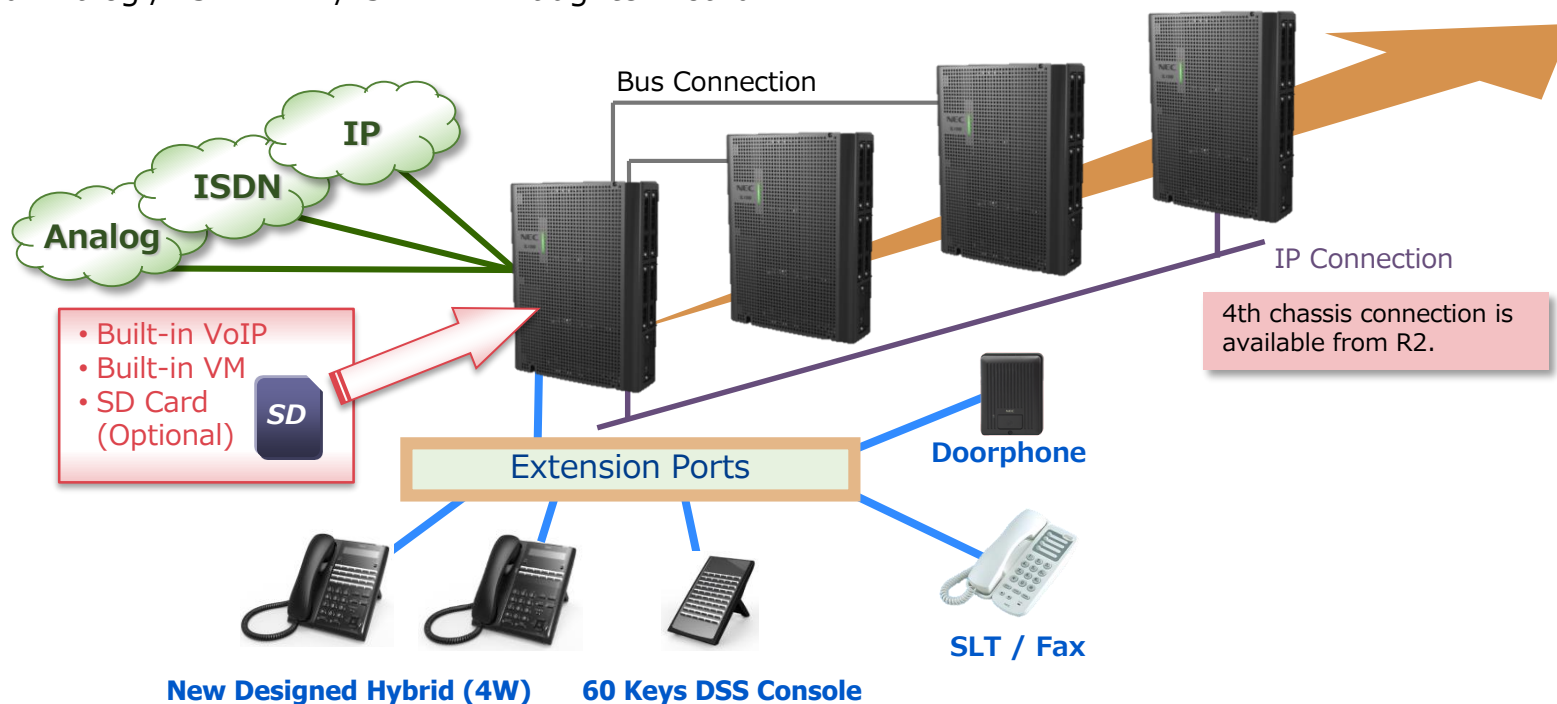
- Wall Mountable with Slot-In Design (Fan-Less) Chassis
- New cosmetic designed Hybrid / IP Multi-Line terminals

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)



Hardware Line-Up & Description

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>

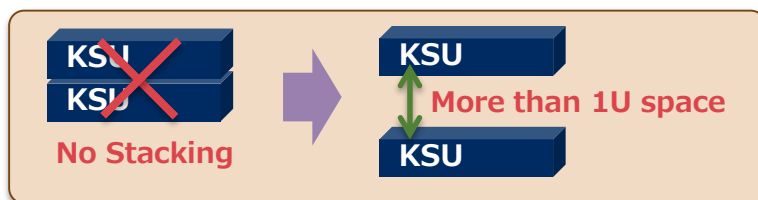
All hardware items (except Multi-Line Terminals, Backup Battery Box, Doorphone Box) **do NOT have compatibility** between SL1000 and SL2100.

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)

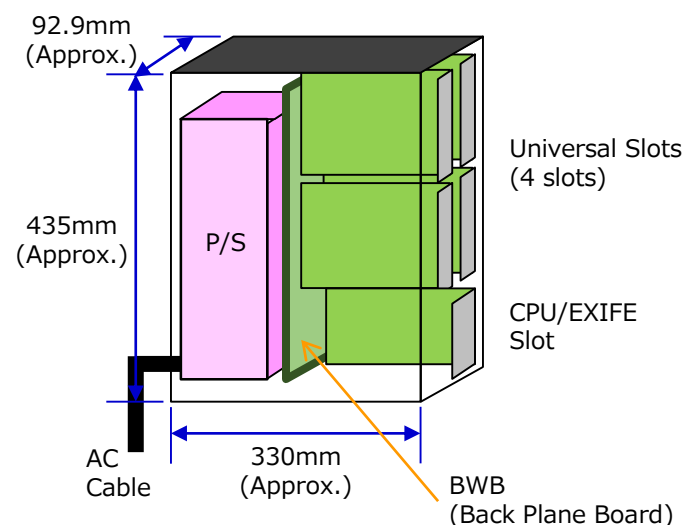
● No Power-on-Maintenance (Hot-Swap) support

- 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

IP7WW-CPU-C1

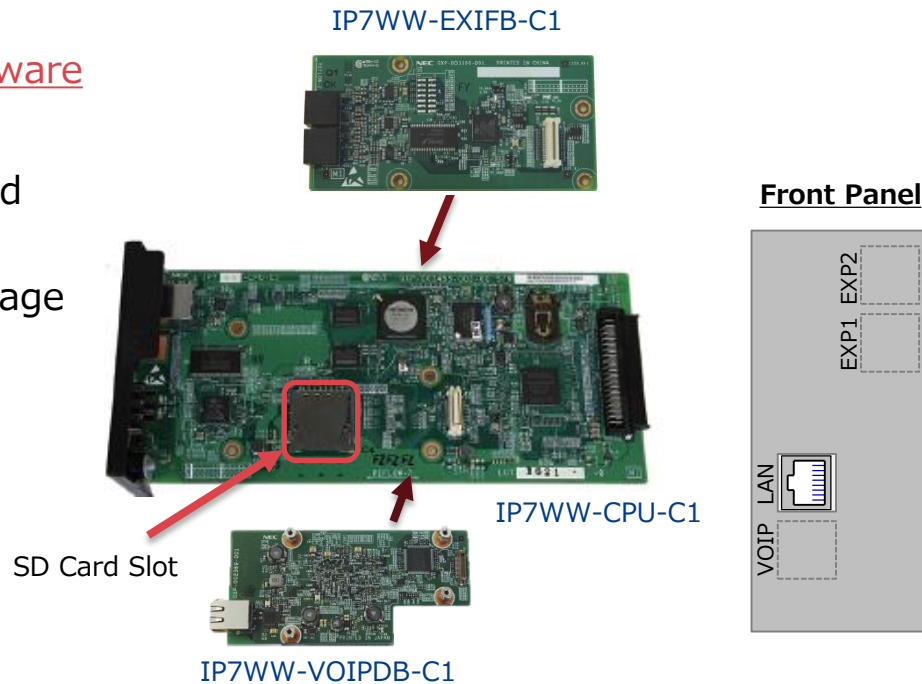
- SL2100 Main Processor Board with Main Software
- Install to the CPU/EXIFE slot of Main Chassis
- Support Built-In VoIP Resource (Max 8ch) and Built-In VRS/VM (InMail) (Max 4ch)
- Support approximately 2 hours message storage for VRS/VM (InMail) without SD Card
- Initially provide :
 - 1 x Ethernet (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



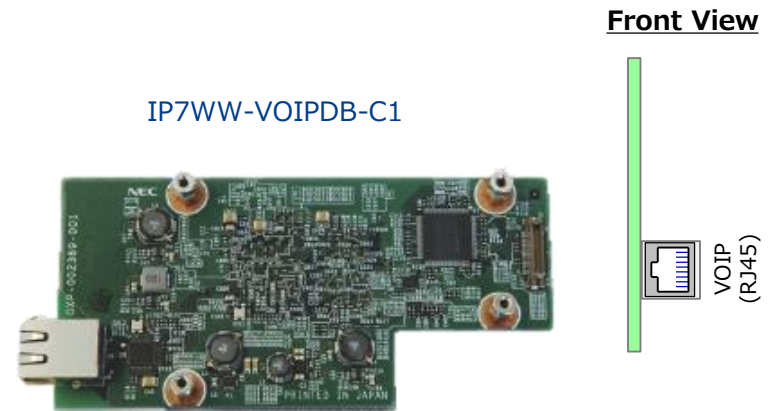
DSP on CPU	Telephony Resources (for DTMF/DT/BT Detection, FSK CID Receiver/Sender)	28
	Tone Sender Resources (for System Tones sender, DTMF Sender)	128
	Conference Resources	32

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

Optional Items for CPU (1)

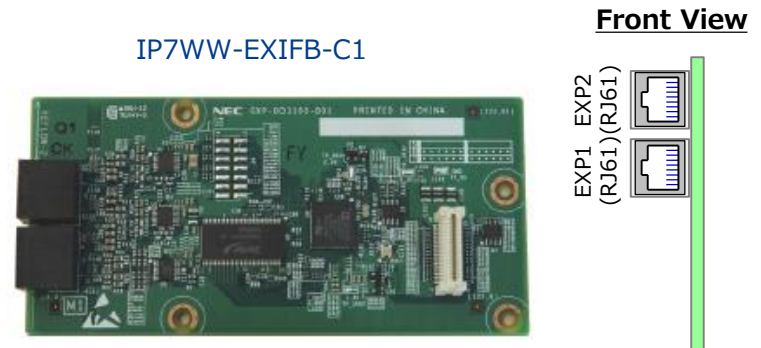
IP7WW-VOIPDB-C1

- 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.



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)



DSP on EXIFB	Telephony Resources (for DTMF/DT/BT Detection, FSK CID Receiver/Sender)	48
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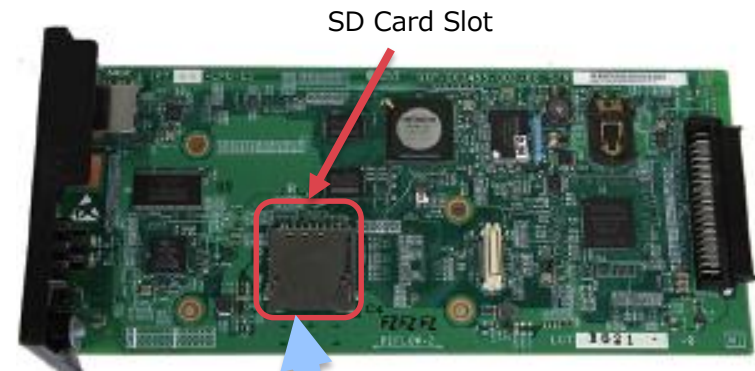
Optional Items for CPU (2)

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



IP7WW-SDVMS-C1
(1GB)



IP7WW-SDVML-C1
(4GB)

Optional Items for Chassis

IP7WW-EXIFE-C1

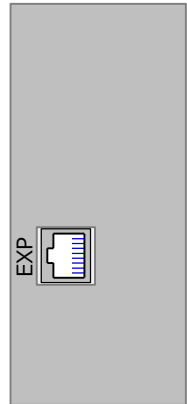
- Bus Board for Expansion Chassis
- Install to the CPU/EXIFE slot of Expansion Chassis
- Additional Telephony Resources for Expansion Chassis
- Initially provide :
 - 1 x Bus connectors for Main Chassis (RJ61)

IP7WW-EXIFE-C1



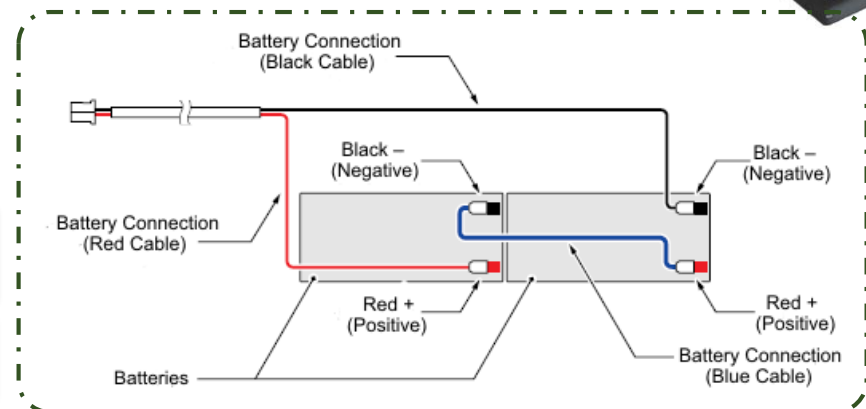
DSP on EXIFE	Telephony Resources (for DTMF/DT/BT Detection, FSK CID Receiver/Sender)	32
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Front Panel



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)

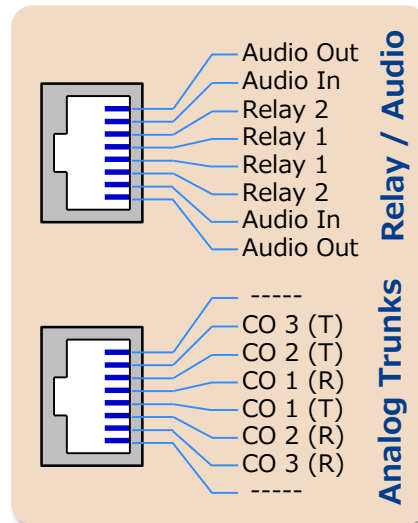
Recommended Battery : GS Yuasa NP7-12
Size (H x W x D) per Battery : 100 x 151 x 65 (mm)

Extension Boards (1)

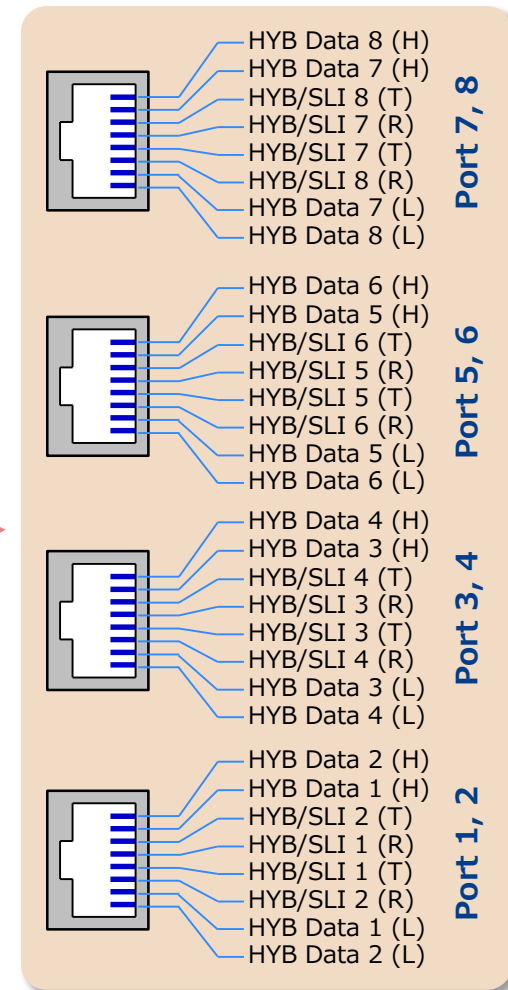
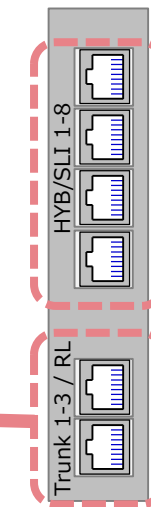
IP7WW-308U-A1

- 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)
- (1 x RJ61)
- 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

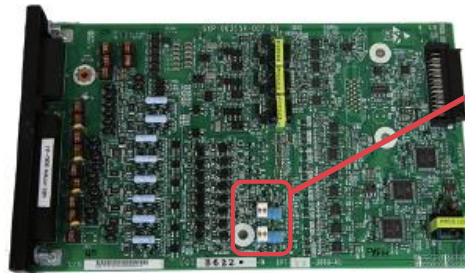


Extension Boards (2)

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.

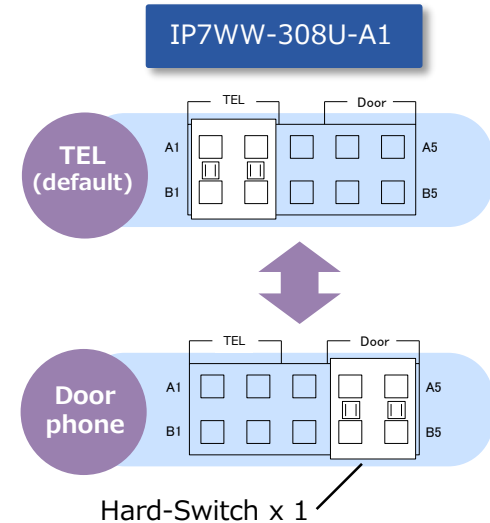
Hard-Switch position	Sensor mode	Applied Voltage during Sensor Off	Loop Current during Sensor On
TEL	Disable	-	-
Doorphone	Enable	25V	40mA



IP7WW-308U-A1

Switch Position

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



Extension Boards (3)

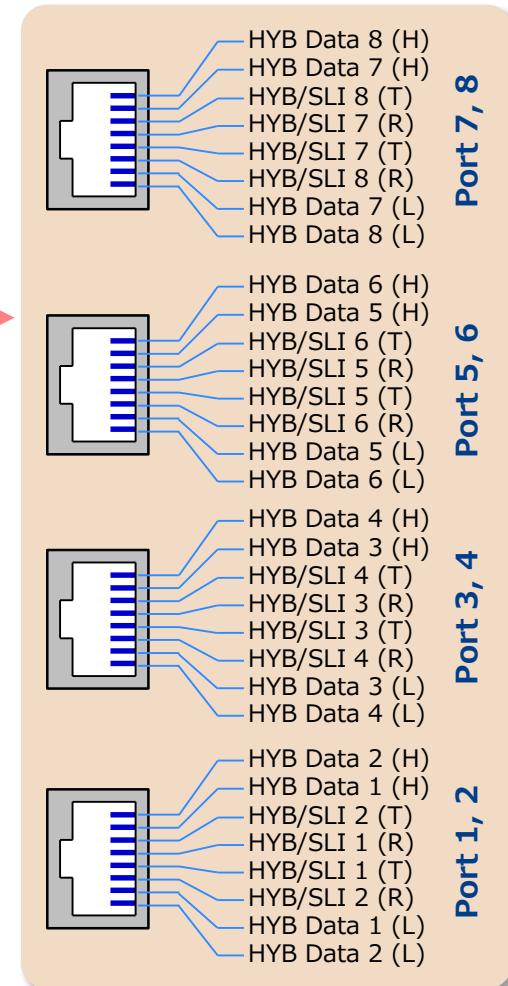
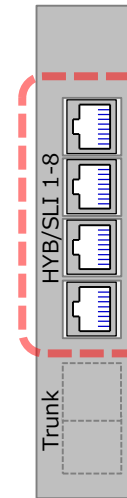
IP7WW-008U-C1

- 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



IP7WW-000U-C1

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

IP7WW-000U-C1



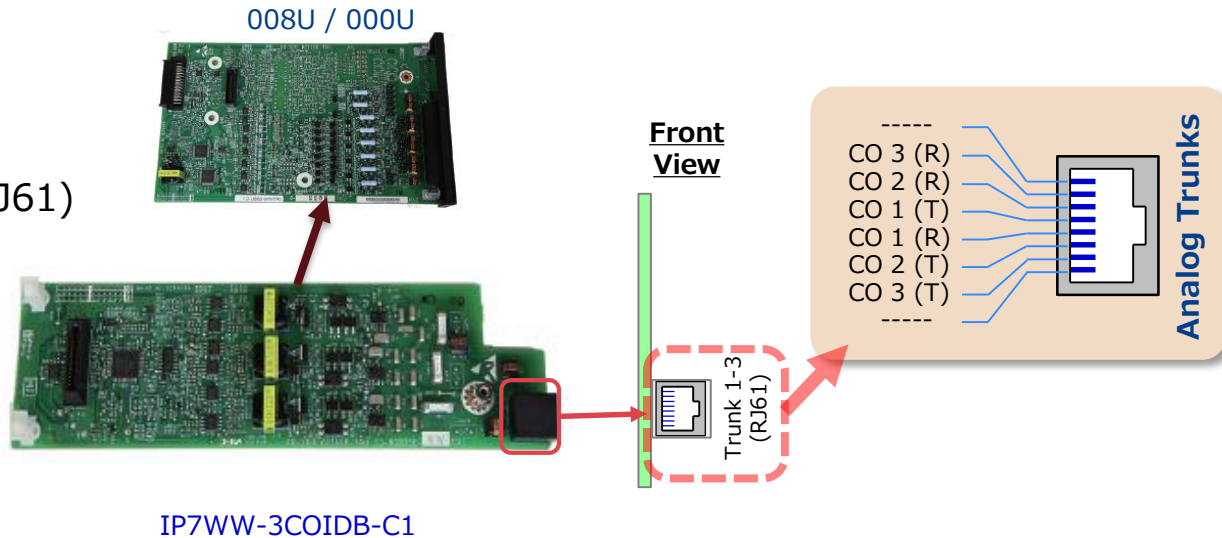
Front Panel



Trunk Daughter Boards (1)

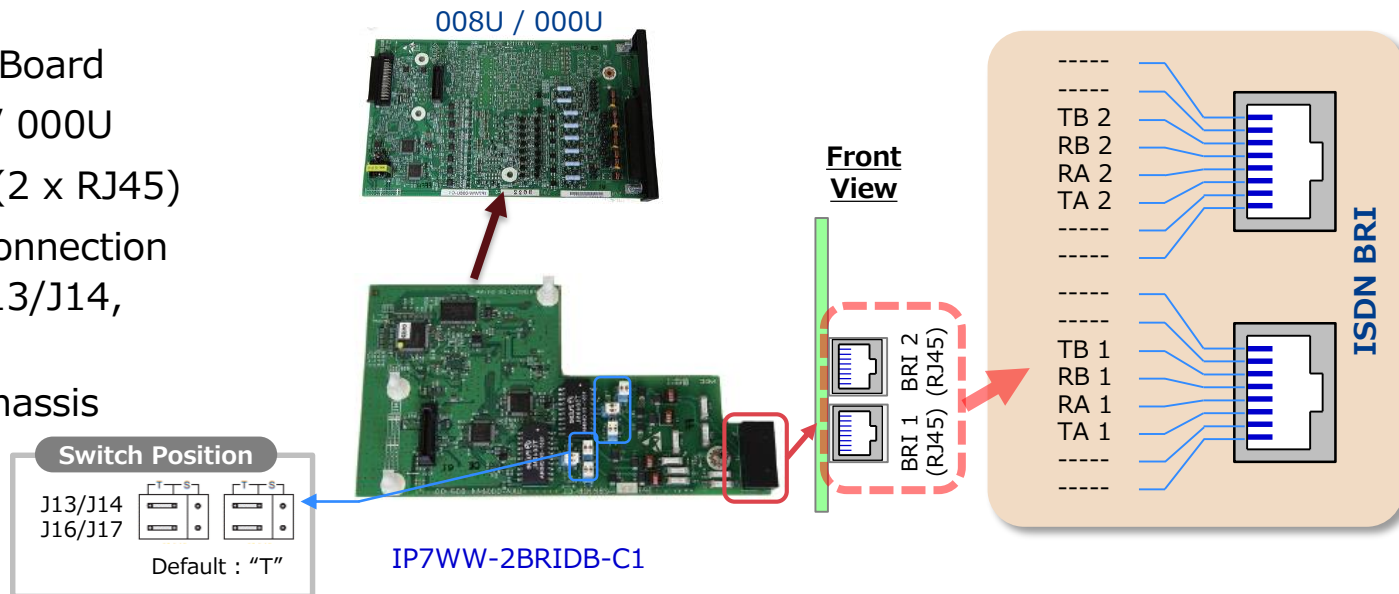
IP7WW-3COIDB-C1

- 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

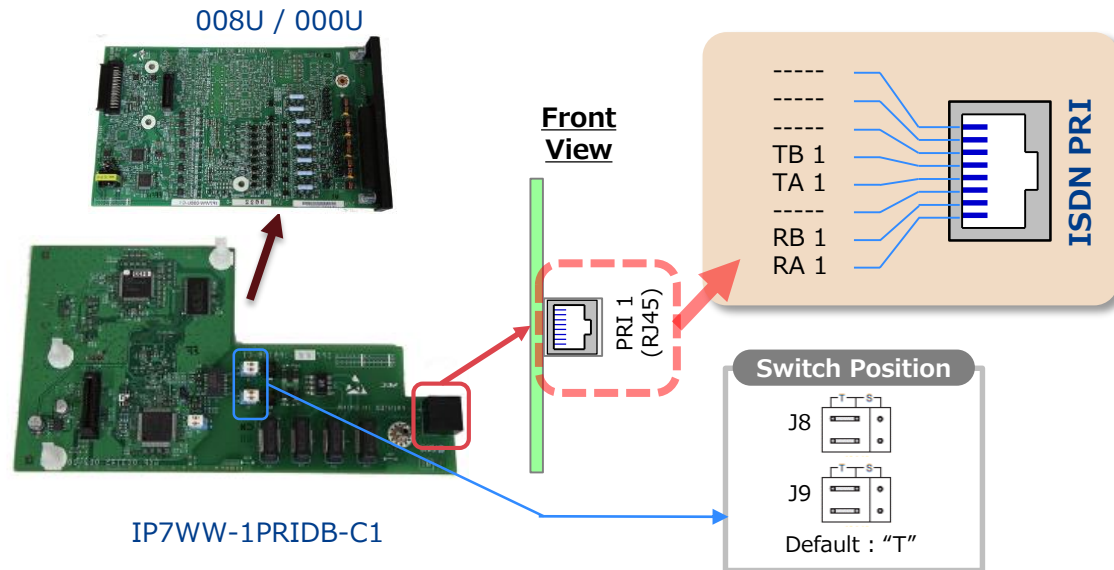


Trunk Daughter Boards (2)

IP7WW-1PRIDB-C1

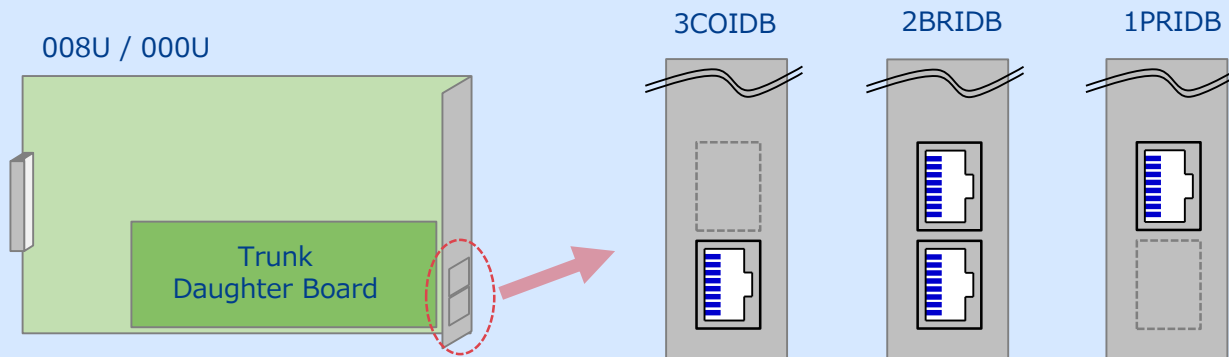
- ISDN PRI (2M) Daughter Board
- Mount to the 008U / 000U
- 1 x ISDN PRI Port (1 x RJ45)
- Support T/S-point connection (by Hard Switch <J8/J9> and PRG)
- 1 Board per Chassis, Max 3 Boards per system
- No Power feeding for S-point

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

Terminal Design Concept

ROUND & EDGE

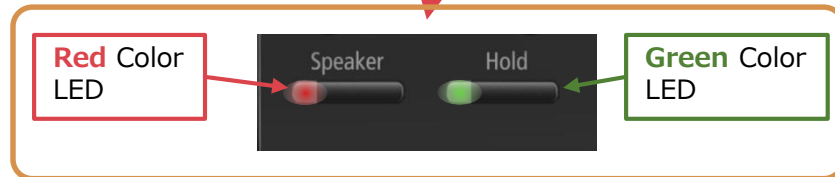
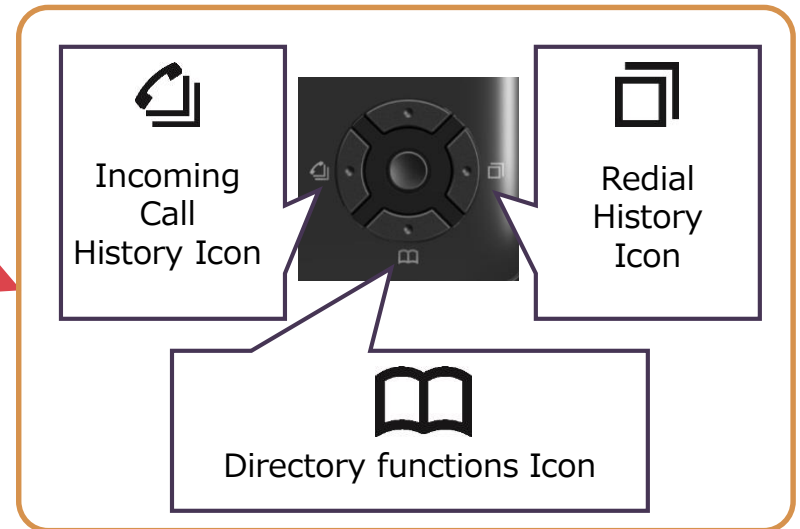


Terminal Features (Hybrid)

Multi-Line Terminal with DSS Console



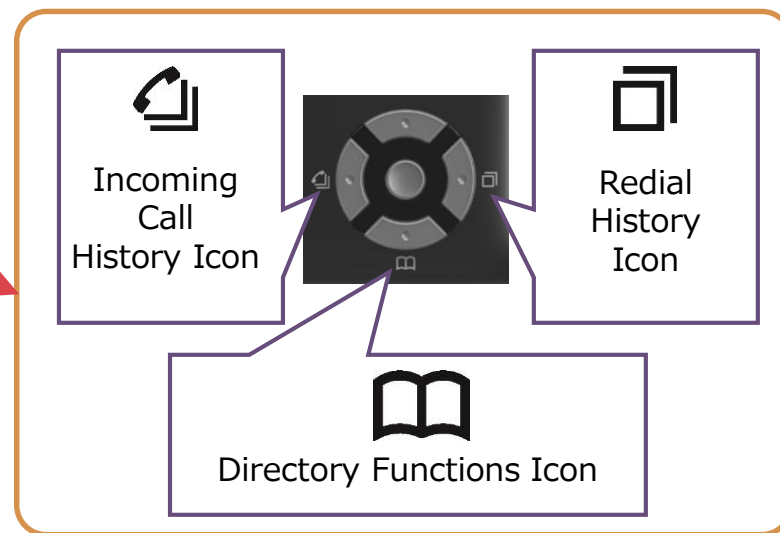
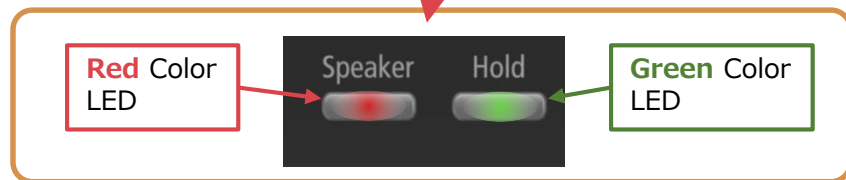
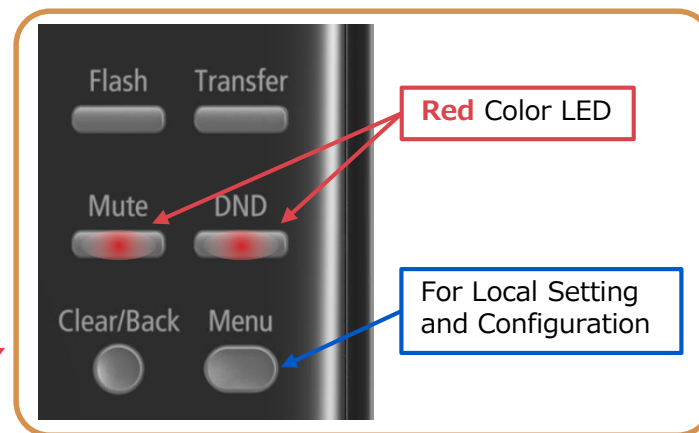
Key Indications & LED (Hybrid)



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)

(*) EHS : Electronic Hook Switch	IP7WW-60D-A1 DSS CONSOLE 	DP-D-1A/1D DX4NA Doorphone HS.D503DOR-A 	IP4WW-WALL MOUNT UNIT 	APD-80 (Plantronics) 
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.

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.

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	

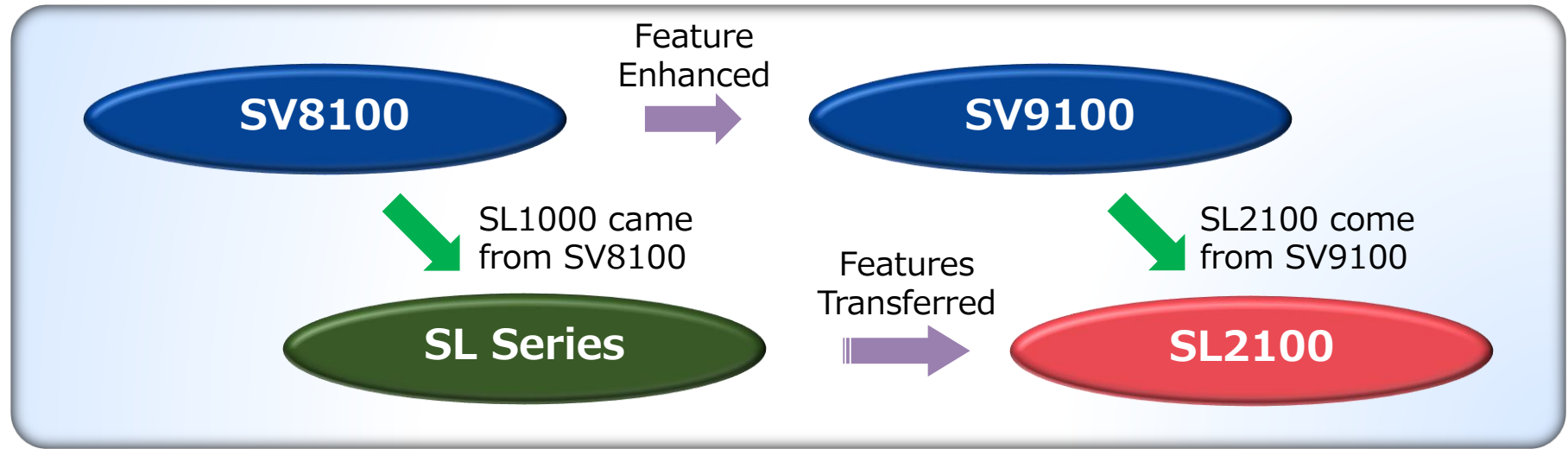
License Line-Up (2)

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.

Features



Concept of SL2100 Main Software

- SL2100 Main Software follows current system's architecture, functionality and PRG methods.
- Almost enhanced features on SV8100/SV9100/SL1000 are included to SL2100 Main Software.
- Specific enhanced features for SL2100 are included to SL2100 Main Software.



Easy Installation, Operation and Maintenance
by PRG Methods & Features Migration

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

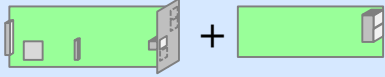


System configuration of VRS/VM (InMail) and VoIP is changed from SL1000 to SL2100. (Refer to the next pages)

VRS/VM (InMail) (1)

VRS/VM (InMail) Channels

- 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

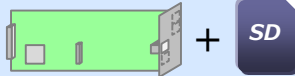
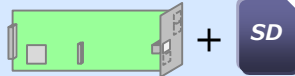
VRS/VM (InMail) Storage

- 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)

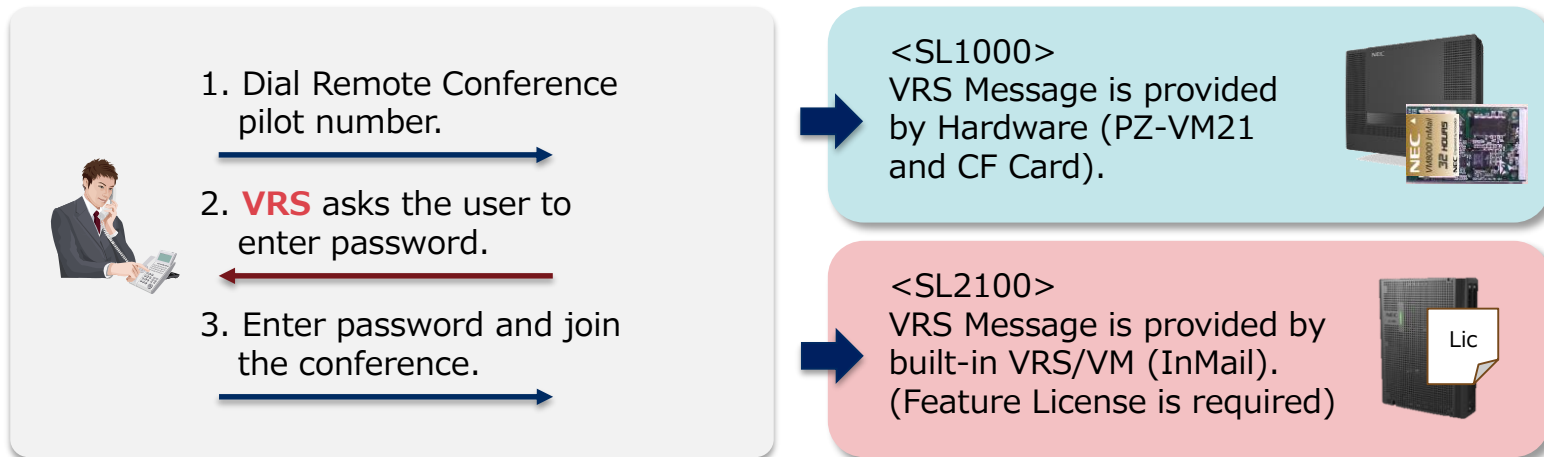
- One language(*) of Voice Prompts is initially available on CPU.
- Enable to use multi-language Voice Prompts in case optional hardware (IP7WW-SDVMS-C1 / IP7WW-SDVML-C1) is installed. Up to 26 languages are provided.

	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		

VRS/VM (InMail) (2)

Conference Bridge (Remote Conference)

- 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.
- There are 4 conference bridges.
- 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)



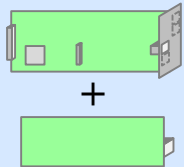
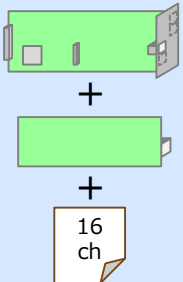
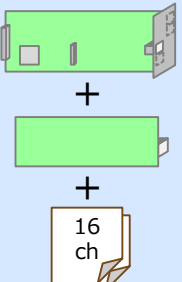
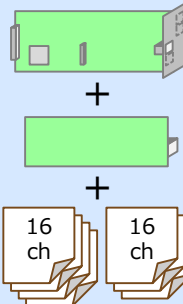
VoIP Resources

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

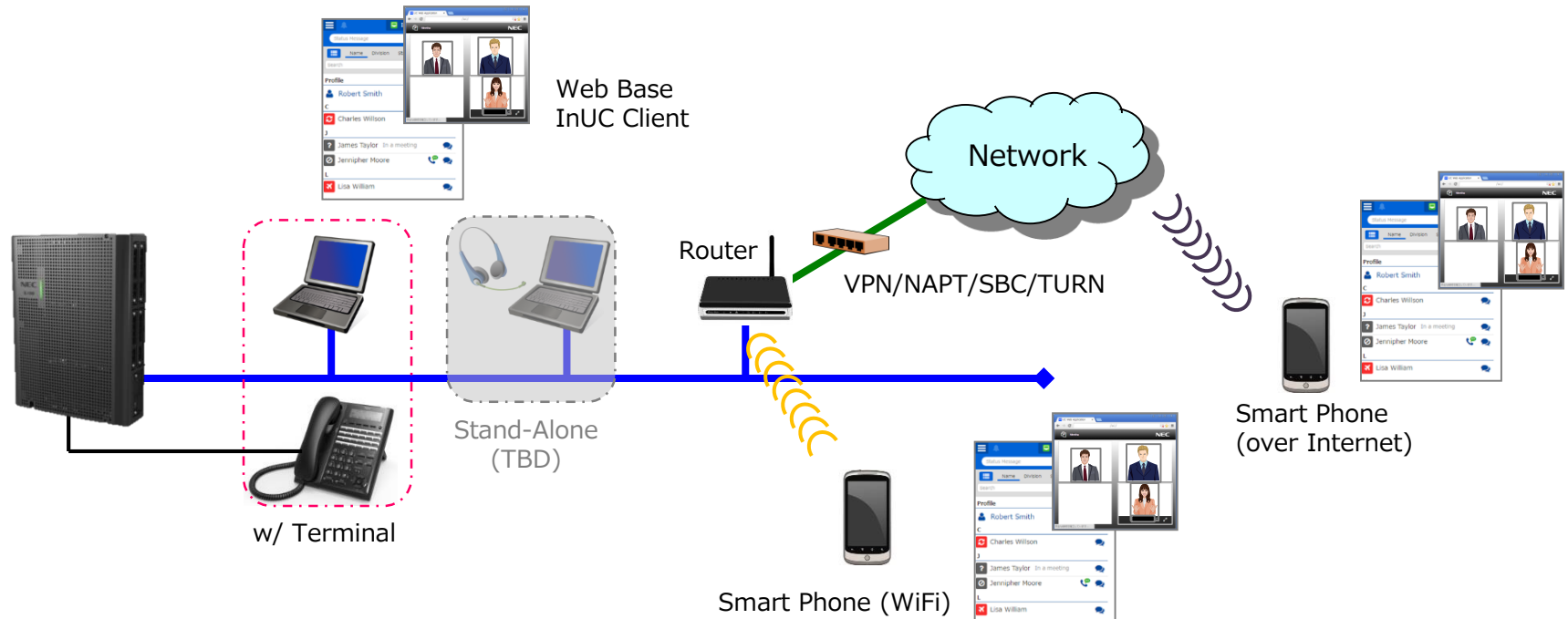
- There is an optional hardware (IP7WW-VOIPDB-C1) which has capability to provide maximum 128 channels of VoIP resources.
- Up to 16 channels of VoIP resources are available per system in case IP7WW-VOIPDB-C1 is installed.
- Enable to increase the number of VoIP resources by adding necessary number of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

Web Base InUC Client

- SL2100 supports the Web-based InUC Clients from CPU without installing the FAT Application on each PC (Client License is required) . Following functions are supported.
 - Simple Presence / IM
 - Phone Features (with Terminal : similar CTI)
 - Multi-Language Support (English, Simplified/Traditional Chinese, Thai, Japanese, Vietnamese, Bahasa and some European languages)
 - (TBD) Phone Feature (Stand-Alone : Similar Softphone)
 - (TBD) Outlook Integration / CRM Integration
 - (TBD) Conference Reservation / E-Mail invitation to Conference

These will be enhanced step-by-step



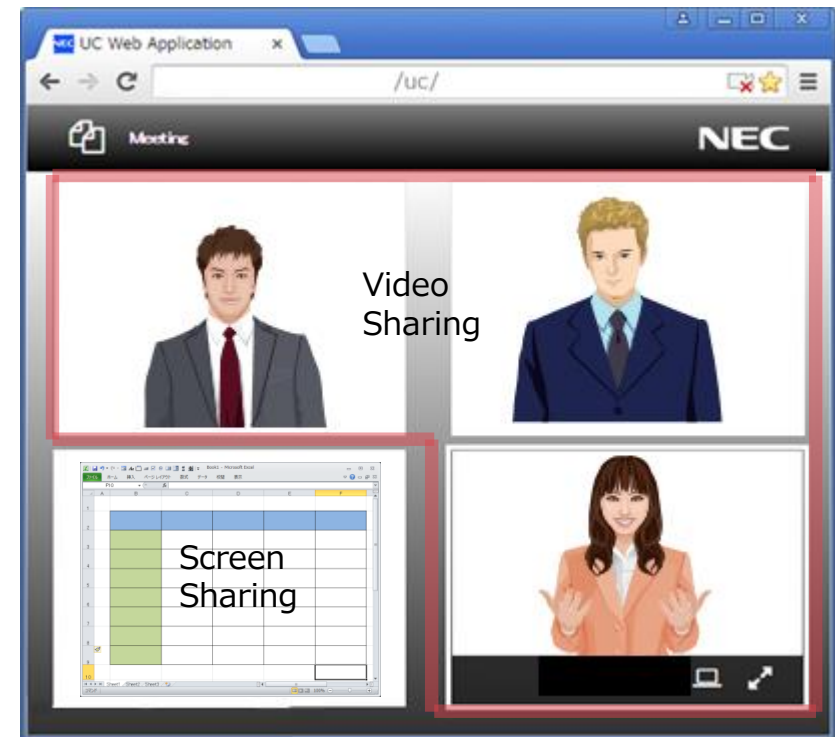
Web Base Client (2)

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

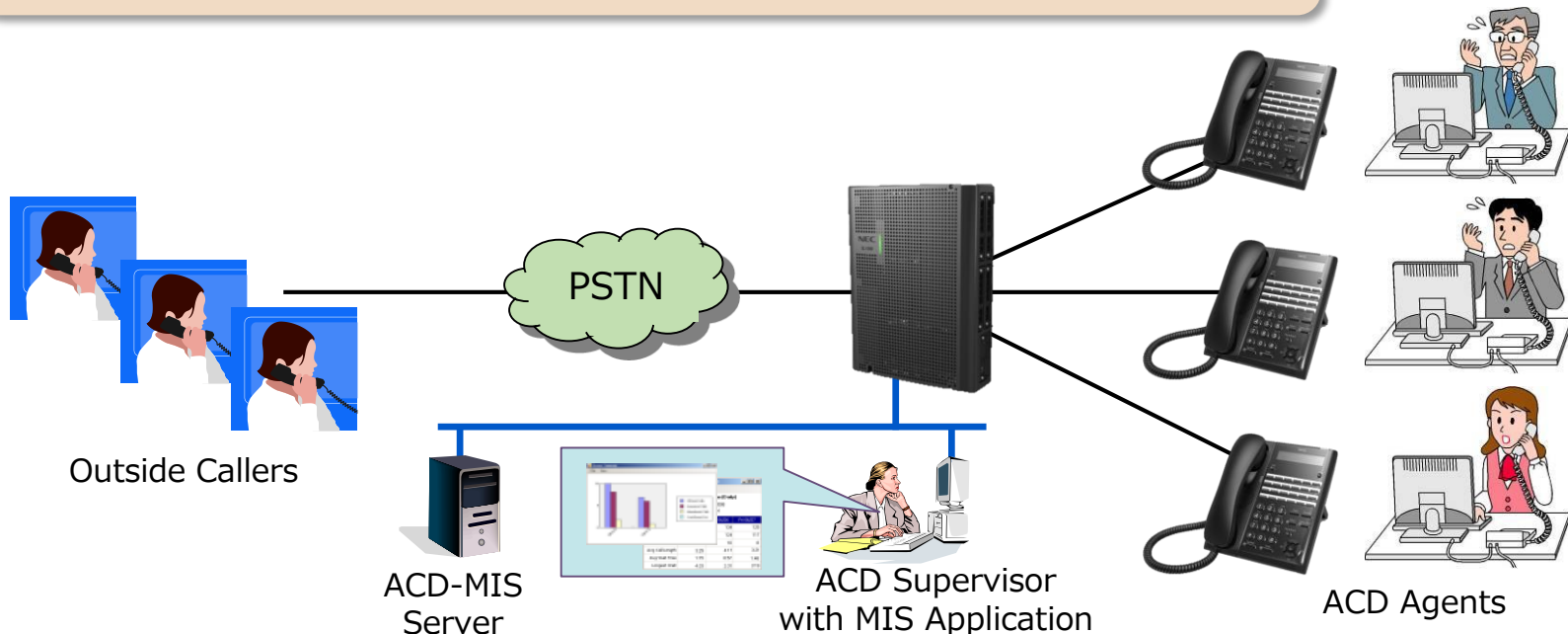
- (*1) Only Chrome and IE are supported, and IE needs to install WebRTC Plug-in to support this feature.
- (*2) Chrome needs NEC Net Sharing Chrome plug-in to use screen-sharing feature. On the other hand, IE does not support screen-sharing feature.



InACD (Automatic Call Distribution)

- 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)



Hotel with PMS

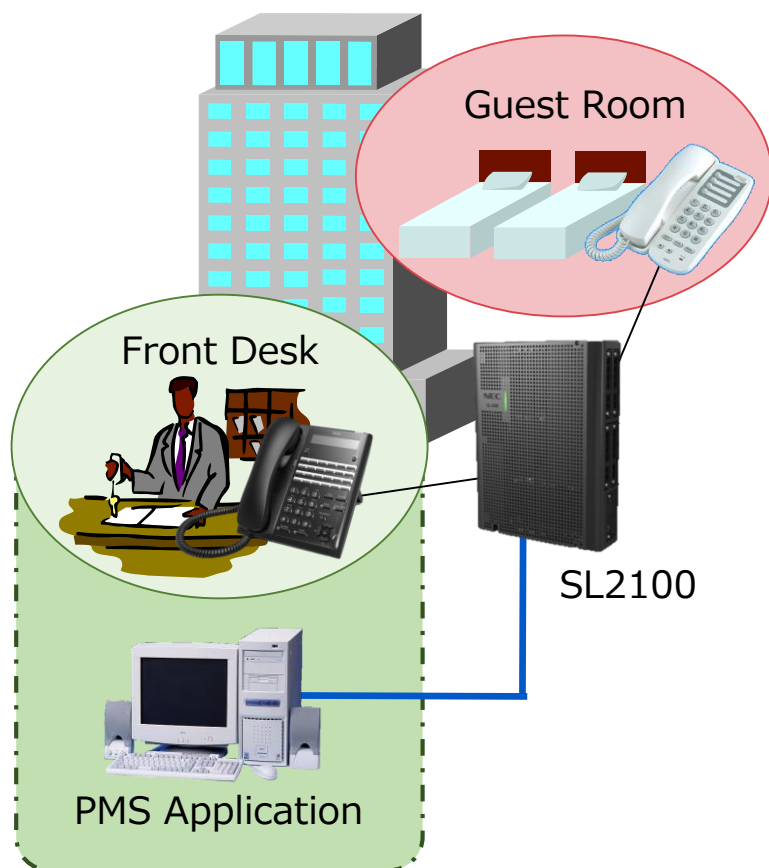
Hotel with PMS

- 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 !!

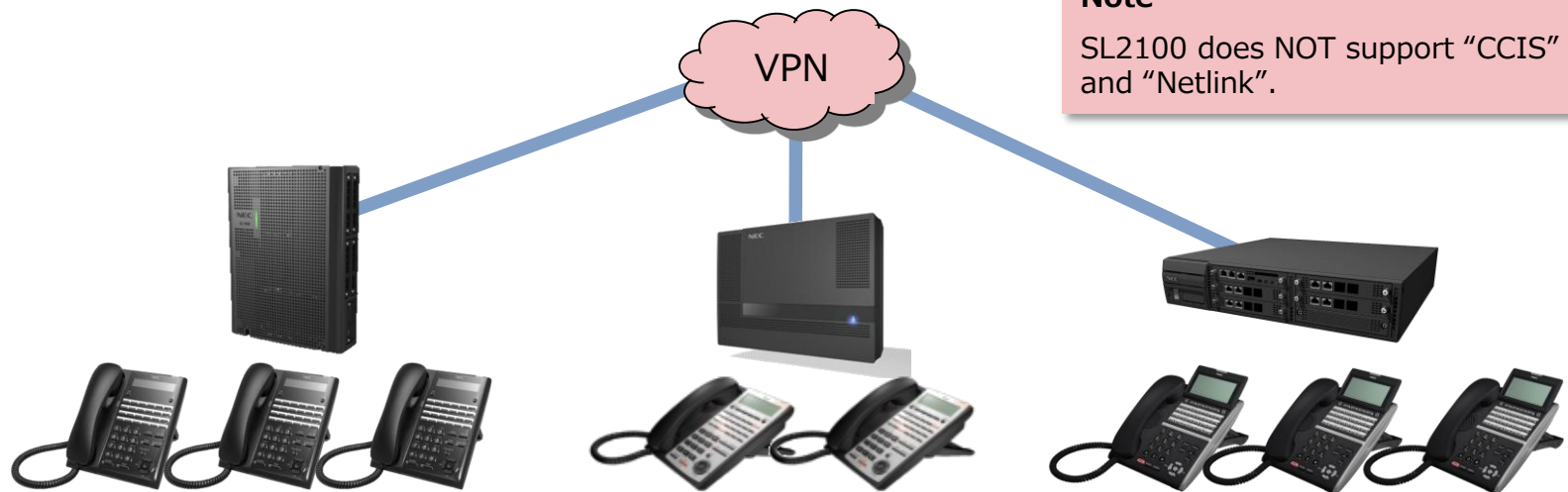


Networking (AspireNet)

Networking (AspireNet)

- 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)

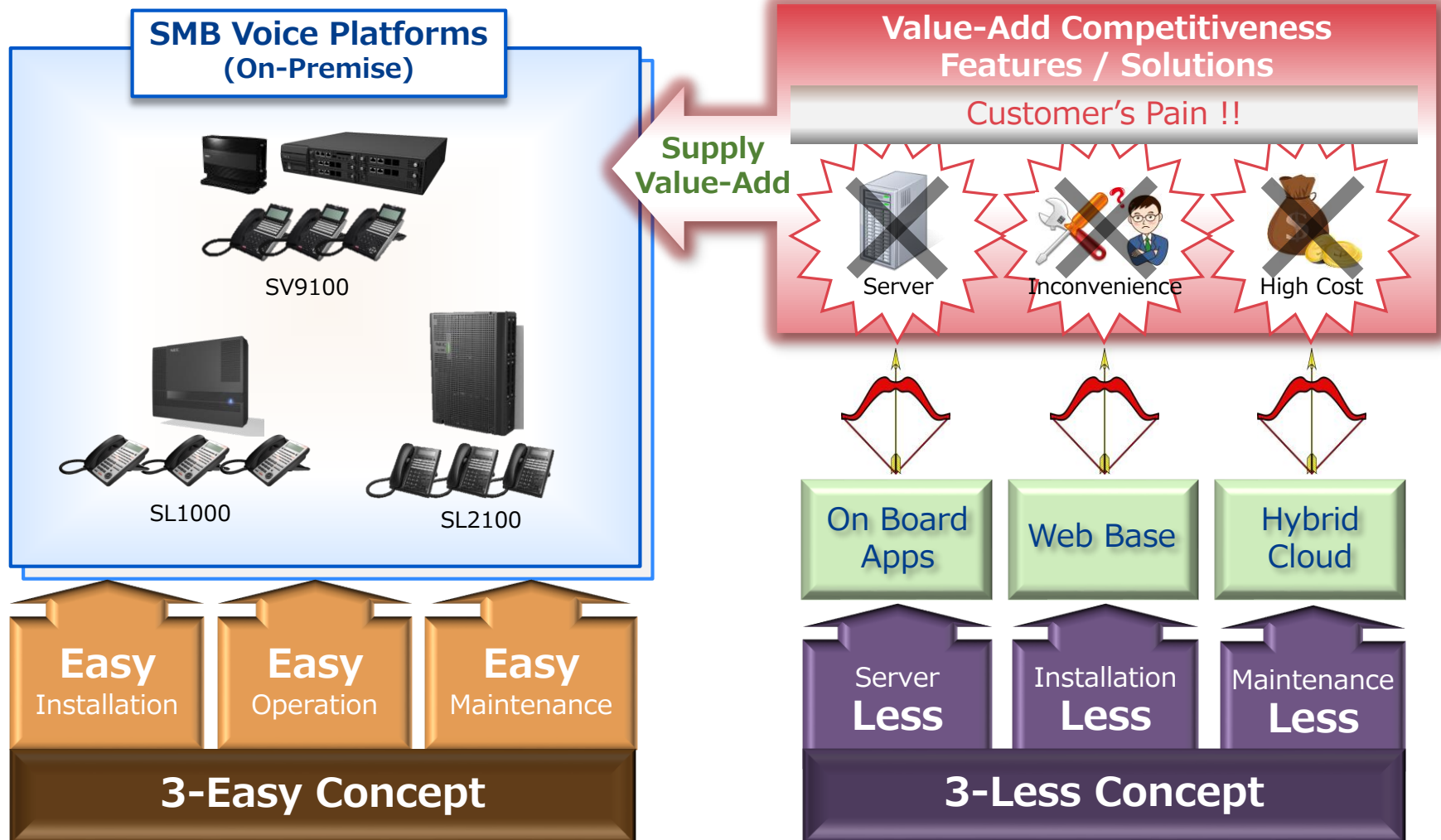
	Connectivity with SV8100/9100		Connectivity with SL Series system		Number of Channels		Number of Nodes	
	SL1000	SL2100	SL1000	SL2100	SL1000	SL2100	SL1000	SL2100
AspireNet	Yes	Yes	Yes	Yes	32 → 128		50	50



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

- 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

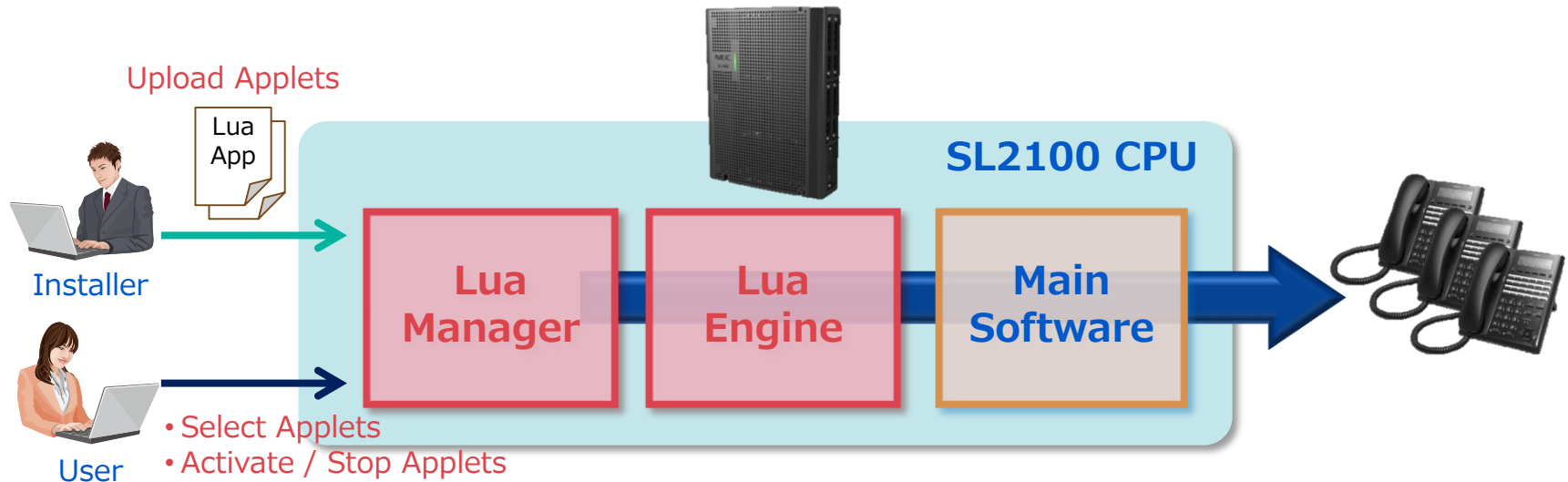
Local Applications

- 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.



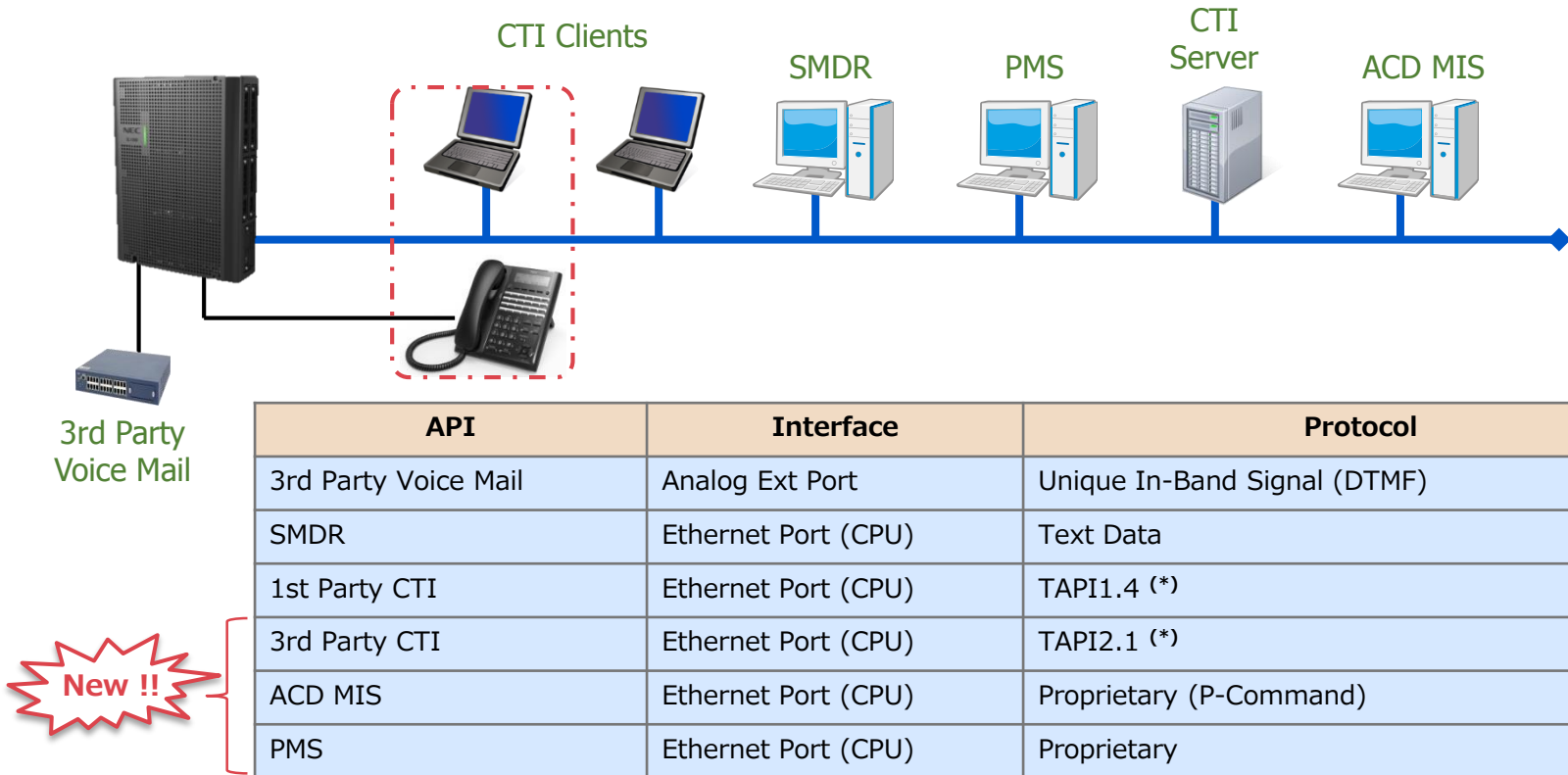
What kind of on-board applications will be available?

- “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.



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

UC Suite

- 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.

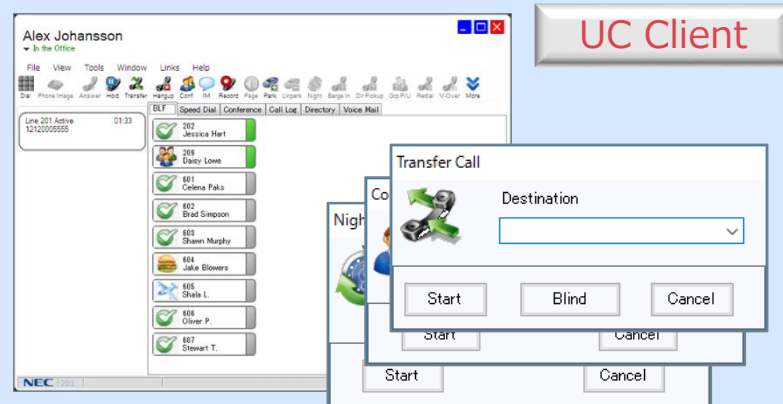
Components



UC Suite Basic features

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

etc...



Reference (1)

Features Comparison Table of UC Client Applications (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)

Features Comparison Table of UC Client Applications (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)	-	-	-	-	-	-	○	○

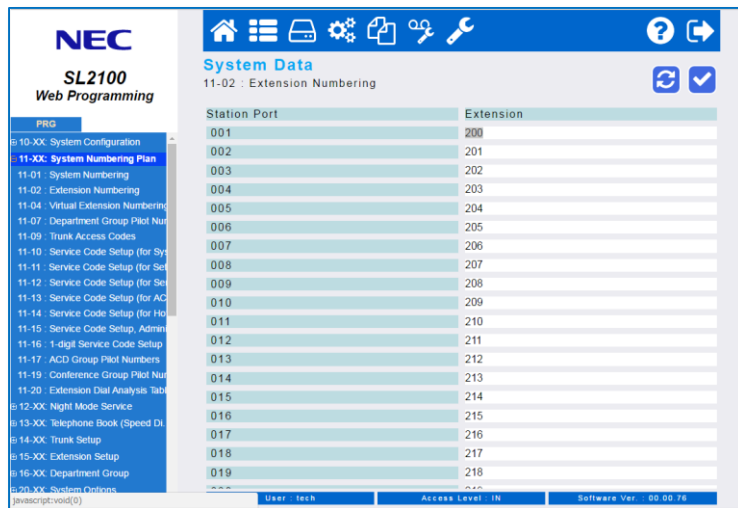
(*3) System Speed Dial (*4) Contact list members only (*5) All TELs under the system

Maintenance

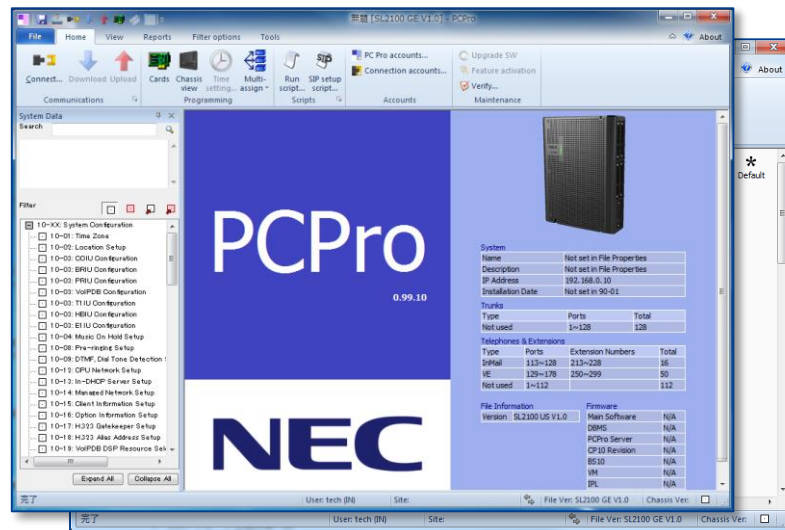
PCPRO / WebPRO / UserPRO

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



References

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)

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)

Features List (Plan) <1>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Abbreviated Dialing/Speed Dial	Abbreviated Dialing/Speed Dial	○	○	None
Account Code Forced/Verified/Unverified	Account Code Forced/Verified/Unverified	○	○	None
Account Code Entry	Account Code Entry	○	○	None
Alarm	Alarm	○	○	None
Alarm Reports	Alarm Reports	○	○	Add Some Alarm information. Refer to package specification for new alarm.
Alphanumeric Display	Alphanumeric Display	○	○	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)	○	○	HW specification are difference. Refer to package basic specification for detail information.
Ancillary Device Connection	Ancillary Device Connection	-	○	None
Answer Hold/Automatic Hold	Answer Hold/Automatic Hold	○	○	None
AspireNet	AspireNet	○	○	Number of Ch is increased from 32 to 128
Attendant Call Queuing	Attendant Call Queuing	○	○	None
Automatic Call Distribution (ACD)	Automatic Call Distribution (ACD)	-	○	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	○	○	None
Automatic Route Selection (ARS/F-Route)	Automatic Route Selection (ARS/F-Route)	○	○	None
Background Music	Background Music	○	○	HW specification are difference. Refer to package basic specification for detail information.
Barge-In	Barge-In	○	○	None
Battery Backup - System Memory	Battery Backup - System Memory	○	○	None
Battery Backup - System Power	Battery Backup - System Power	○	○	None
Built-in Auto-Answering	Built-in Auto-Answering	○	○	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	-	○	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	○	○	None
Call Duration Timer	Call Duration Timer	○	○	None
Call Forwarding	Call Forwarding	○	○	None
Call Forwarding with Follow Me	Call Forwarding with Follow Me	○	○	None
Call Forwarding, Off-Premise	Call Forwarding, Off-Premise	○	○	None
Call Forwarding/Do Not Disturb Override	Call Forwarding/Do Not Disturb Override	○	○	None
Call Monitoring	Call Monitoring	○	○	None
Call Redirect	Call Redirect	○	○	None
Call Waiting/Camp-On	Call Waiting/Camp-On	○	○	None
Callback	Callback	○	○	None
Caller ID Call Return	Caller ID Call Return	○	○	None
Caller ID	Caller ID	○	○	Support SV8100 R9 VRS Talkie Enhancement function.
Caller ID - Flexible Ringing	Caller ID - Flexible Ringing	○	○	None
Caller ID - Shared Logging	Caller ID - Shared Logging	○	-	We will supply system caller log in return for shared logging.
Central Office Calls, Answering	Central Office Calls, Answering	○	○	None
Central Office Calls, Placing	Central Office Calls, Placing	○	○	None
Class of Service	Class of Service	○	○	None
Clock/Calendar Display/Time and Date	Clock/Calendar Display/Time and Date	○	○	None
Code Restriction/Toll Restriction	Code Restriction/Toll Restriction	○	○	None
Code Restriction Override/Toll Restriction Override	Code Restriction Override/Toll Restriction Override	○	○	None
Code Restriction, Dial Block/Toll Restriction, Dial Block	Code Restriction, Dial Block/Toll Restriction, Dial Block	○	○	None
Conference	Conference	○	○	None
Conference, Remote	Conference, Remote	○	○	None
Conference . Remote Conference Recording	Conference . Remote Conference Recording	○	○	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	○	○	None
Group Call Pickup	Group Call Pickup	○	○	None
Group Listen	Group Listen	○	○	None
Handset Mute/Handset Cutoff	Handset Mute/Handset Cutoff	○	○	None
Handsfree and Monitor	Handsfree and Monitor	○	○	None
Handsfree Answerback/Forced Intercom Ringing	Handsfree Answerback/Forced Intercom Ringing	○	○	None
Headset Operation	Headset Operation	○	○	None
Hold	Hold	○	○	None
Hotel/Motel	Hotel/Motel	○	○	Support PMS. Support Wakeup Call Setting Snooze Callback (SV9100 R3 function)
Hotel/Motel – Do Not Disturb	Hotel/Motel – Do Not Disturb	○	○	None
Hotel/Motel – DSS Console Monitoring	Hotel/Motel – DSS Console Monitoring	○	○	None
Hotel/Motel – Message Waiting	Hotel/Motel – Message Waiting	○	○	None
Hotel/Motel – PMS Integration	Hotel/Motel – PMS Integration	○	○	None
Hotel/Motel – Room Status	Hotel/Motel – Room Status	○	○	None
Hotel/Motel – Room Status Printout	Hotel/Motel – Room Status Printout	○	○	None
Hotel/Motel – Room-to-Room Call Restriction	Hotel/Motel – Room-to-Room Call Restriction	○	○	None
Hotel/Motel – Single Digit Dialing	Hotel/Motel – Single Digit Dialing	○	○	None
Hotel/Motel – Toll Restriction (When Checked In)	Hotel/Motel – Toll Restriction (When Checked In)	○	○	None
Hotel/Motel – Wake Up Call	Hotel/Motel – Wake Up Call	○	○	None
Hot Key-Pad	Hot Key-Pad	○	○	None
Hotline	Hotline	○	○	None
Howler Tone Service	Howler Tone Service	○	○	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	○	None
InMail	InMail	○	○	None
InMail – Auto Setting	InMail – Auto Setting	○	○	None
InMail – Automatic Access to VM by Caller ID	InMail – Automatic Access to VM by Caller ID	○	○	None
InMail – Cascade Message Notification	InMail – Cascade Message Notification	○	○	None
InMail – Email Notification	InMail – Email Notification	○	○	None
InMail – Find-Me Follow-Me	InMail – Find-Me Follow-Me	○	○	None
InMail – Language Setting	InMail – Language Setting	○	○	None
InMail Park and Page	InMail Park and Page	○	○	None
InMail Upload Download Audio	InMail Upload Download Audio	○	○	None
Intercom	Intercom	○	○	None
InUC Web Client	---	-	○	New Feature
IP Multiline Station (SIP)	IP Multiline Station (SIP)	○	○	New designed IP Terminal
IP Single Line Terminal (SIP)	IP Single Line Terminal (SIP)	○	○	Support ST4xx as well
IP Trunk - (SIP) Session Initiation Protocol	IP Trunk - (SIP) Session Initiation Protocol	○	○	None
IP Trunk - H.323	IP Trunk - H.323	○	○	None
ISDN Compatibility	ISDN Compatibility	○	○	None
ISDN Compatibility - Collect Call Blocking	ISDN Compatibility - Collect Call Blocking	○	○	None
Last Number Redial	Last Number Redial	○	○	None
LCR-Least Cost Routing	LCR-Least Cost Routing	○	○	None
Licensing	Licensing	○	○	New License Line-up
Line Preference	Line Preference	○	○	None
Long Conversation Cutoff	Long Conversation Cutoff	○	○	None

Features List (Plan) <6>

As of 10 May, 2017

Feature Name		SL1000	SL2100	Remarks
SL2100	SL1000			
Loop Keys	Loop Keys	○	○	None
Maintenance	Maintenance	○	○	New designed PCPRO/WebPRO/UserPRO
Maintenance - Automatic System Update	---	-	○	SL2100 will supply a new maintenance method. Refer to Features & Specs Manual for detail.
Maintenance- Software Update	---	-	○	SL2100 will supply a new maintenance method. Refer to Features & Specs Manual for detail.
Meet Me Conference	Meet Me Conference	○	○	None
Meet Me Paging	Meet Me Paging	○	○	None
Meet Me Paging Transfer	Meet Me Paging Transfer	○	○	None
Memo Dial	Memo Dial	○	○	None
Message Waiting	Message Waiting	○	○	None
Microphone Cutoff	Microphone Cutoff	○	○	None
Mobile Extension	Mobile Extension	○	○	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	○	○	None
Multiple Trunk Types	Multiple Trunk Types	○	○	None
Multi Device Support	---	-	○	New function. Spec is same as SV9100.
Music on Hold	Music on Hold	○	○	H/W Specification is different from SL1000
Name Storing	Name Storing	○	○	None
Navigation Key	Navigation Key	○	○	Same as SL1000
Night Service	Night Service	○	○	None
Off-Hook Signaling	Off-Hook Signaling	○	○	None
One-Touch Calling	One-Touch Calling	○	○	None
Operator	Operator	○	○	None
Paging, External	Paging, External	○	○	HW Specification is different from SL1000
Paging, External (VRS)	Paging, External (VRS)	○	○	None
Paging, Internal	Paging, Internal	○	○	None
Park	Park	○	○	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)	☐	☐	None
Voice Response System (VRS) Upload Download Audio	Voice Response System (VRS) Upload Download Audio	☐	☐	None
Voice Response System (VRS) - Call Forwarding - Park and Page	Voice Response System (VRS) - Call Forwarding - Park and Page	☐	☐	None
Volume Controls	Volume Controls	☐	☐	None
Warning Tone for Long Conversation	Warning Tone for Long Conversation	☐	☐	None

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