

NEC UNIVERGE SV9100 Introduction



Our History in Telephony

1899 NEC was founded by Western Electric Early 1900's Started as a major supplier of telephone systems to NTT

1927 Installed the first PBX in Japan

1970 Installed the first PBX in U.S.

1974 First NEAX PABX was released

2002 First IP Enabled PABX was released

2006 Full IP PABX was released

2009 UNIVERGE SV8000 Series released

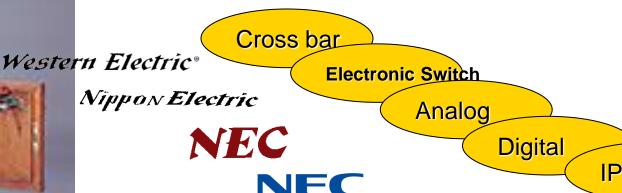


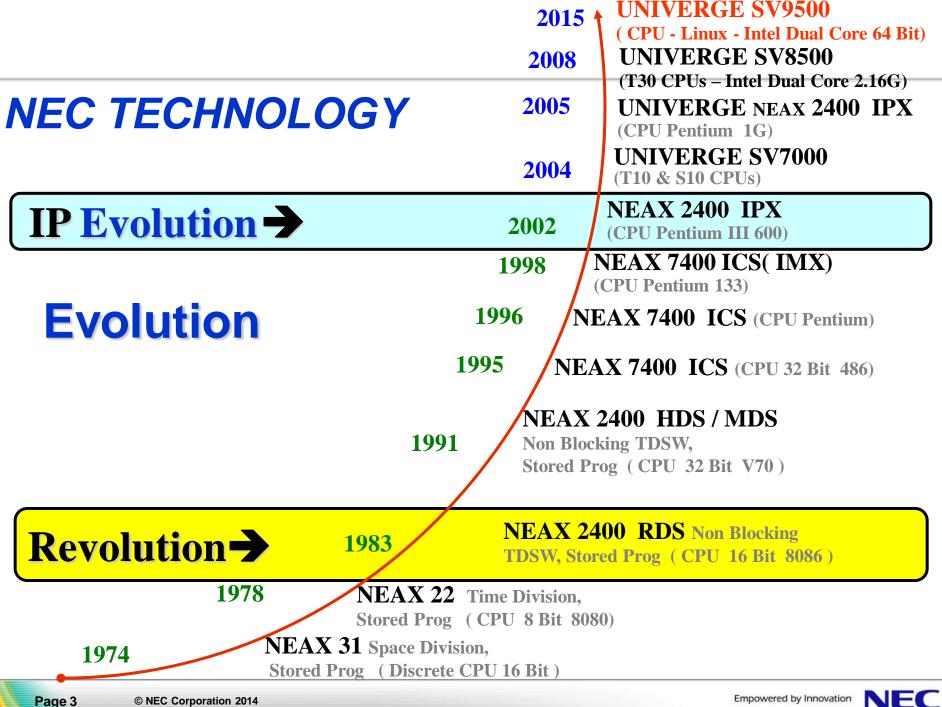
Kunihiko Iwadare, cofounder of Nippon Electric

TOUNDER

Kunihiko Iwadare







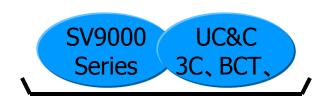
SV9000 Series Definition

SV9000 Series takes a responsibility to accelerate the current Enterprise Network business toward the ICT business (3C is core component)

(SV9000 Series is part of UNIVERGE 3rd Generation)

ICT: Information and Communication Technology

- New Platform that enables to meet the Market Demands
 - Review the architecture: "Open" (SIP Terminals, API), UI/User Experience Improvement, BYOD support, Security Support, etc...
 - Proceed the Service Business : Global SWA, etc...
 - Profitability Improvement: Utilize the cost-effective assets (ie: SMB hardware) to the entire UNIVERGE 3rd Generation, and reduce the number of items by "common use" concept.
- Provide Gateway Solution
 - On-premises Gateway for 3C and/or Cloud services by using SV9000 Series PF.
- Business Expansion by Continuous Development
 - Provide the migration-path for current products.
- Advanced Hardware
 - Green IT (Low Power Consumption, Space-saving design)
 - Common Hardware, High reliability for all PF



Total business



Sales Guideline for SV9100 and SV9300

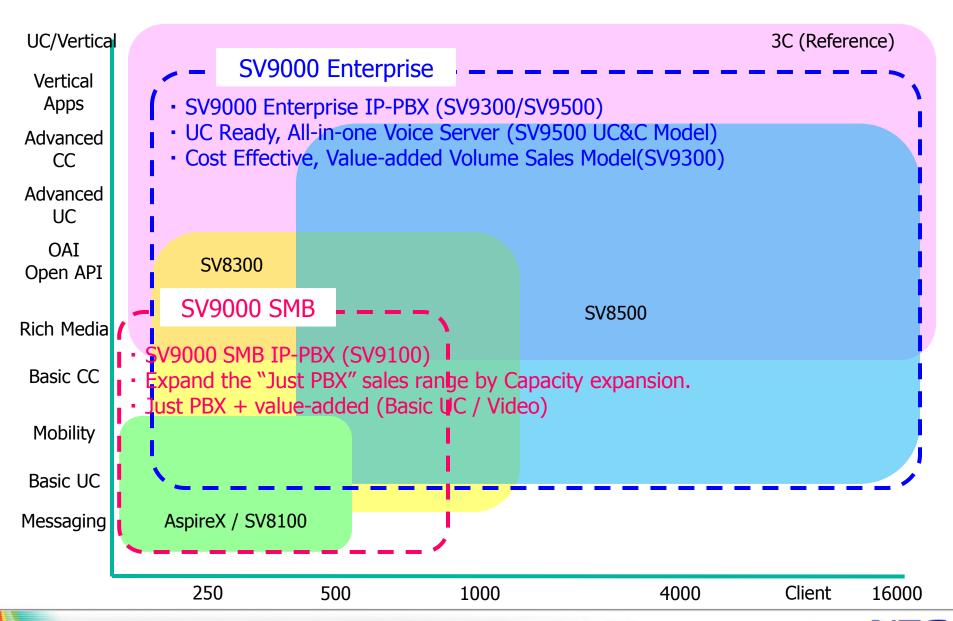
Sales guideline how to differentiate SV9100 from SV9300

This guideline is just proposal from NEC Japan, so the suitable product must be selected by End Users in accordance with their requirement and/or Dealer's recommendation based on their sales strategy.

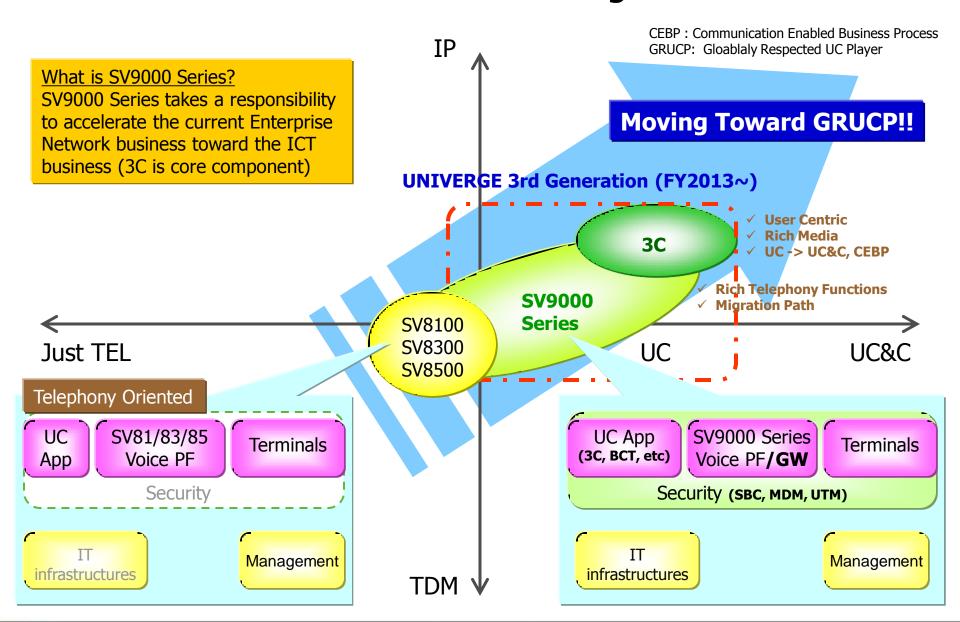
- SV9100 recommended in case ...
 - Basic voice features, simple UC and/or simple Networking are required.
 - System price is highest priority to select a product.
- SV9300 is recommended in case ...
 - Redundancy, Hotel features, and/or high traffic Contact Center solutions are required.
 - Full UC by 3C and/or BCT is required.



SV9000 Series Positioning



UNIVERGE 3rd Generation Positioning (Product Functionality Point of View)



The Big Picture, Platform





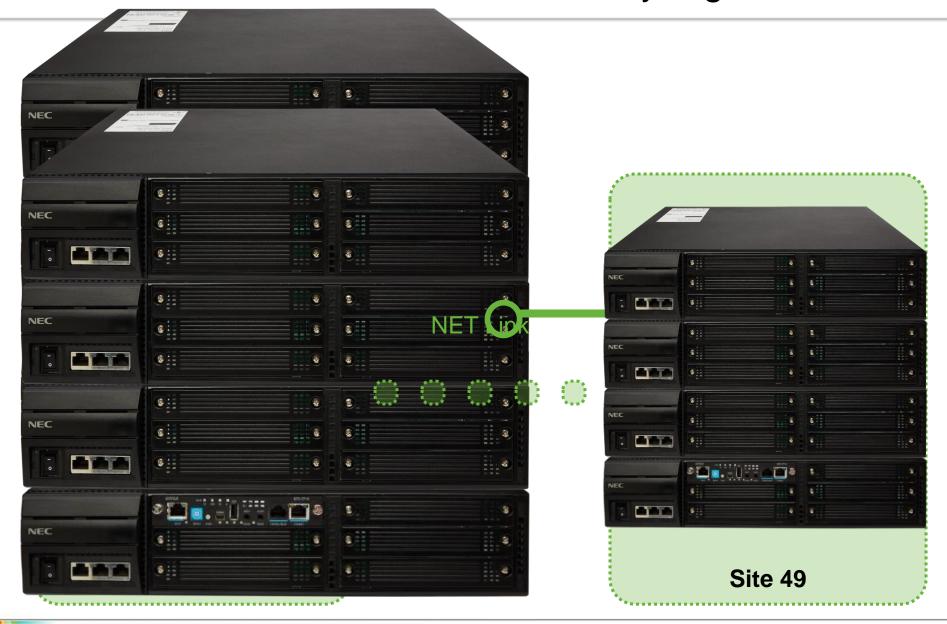
SV9100 400 TRK + 896 EXT

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UNIVERGE SV9100 – deployable in and out of a rack



UNIVERGE SV9100 – Scales to fit any organisation





Networking Option

SV9100 Networking Solutions

NetLink

Single Database
Single Image
50Total Sites

ASPIRE NET/K-CCIS(CCIS)

Network Standalone Sites
Mixed NEC Platforms
256 Total Sites

NAPT

SIP to Any 3rd Party

Mixed Telephony Platforms
Point-to-Point
Multi-Point



UNIVERGE SV9100 - Enables video

- Video phones (Desk phones and softphones)
- Video trunks (Video bridges)
- Multi-party video conferencing in-built
- Becomes the video gateway for the entire SV9000 series





Networking Solutions

- ✓ Single database/single image
- √ 50 total sites
- Suitable for a small organization in a multi-floor, multi-building campus or geographically dispersed office environment
- ✓ Networked standalone offices
 - SV9100 to SV9100, SV9300, SV9500 SV8100, SV8300, SV8500.
- √ 256 total sites
- Suitable for larger organizations in a multi-building campus or geographically dispersed office environment
- ✓ DT700 IP terminals can be installed to support remote worker
- ✓ Remote DT800/ DT700 IP terminals retain functionality
- √ Supports VPN-less Plug and Play connectivity
- ✓ SIP to Any PBX or 3rd Party Telephony System.
- √ SV9100 to any manufacturer
- √ Supports NAPT
- √ Suitable for organizations with disparate systems

NetLink

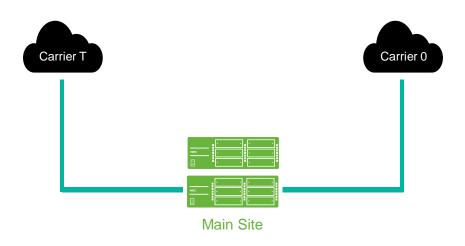
K-CCIS AspireNet

NAPT

SIP to Any

UNIVERGE SV9100 – Integrates well with others

- SIP trunking now supports two simultaneous carriers (R2)
- Expanding to 6 in the future





Migration Option

Migration Options

Migration

Easy Migration from 8100/8300

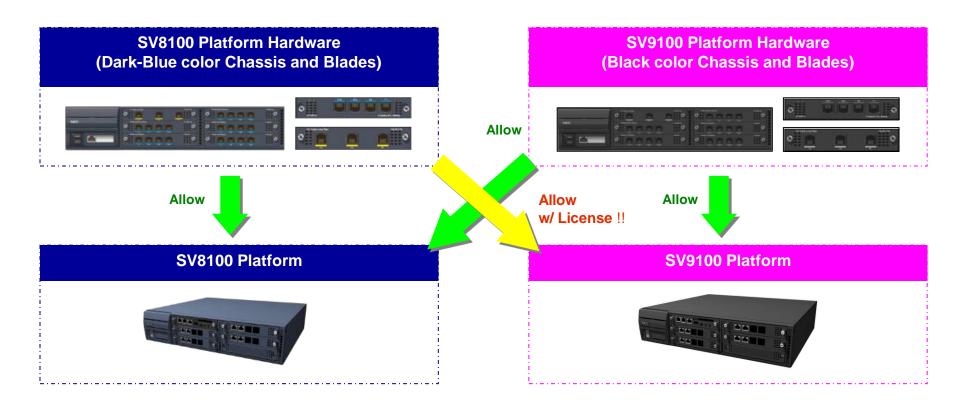
- ✓ Two aspects to migration; Hardware and License
- ✓ Hardware migration
 - ✓ Platform items migrate
 - End points migrate
 - Migration license required
- ✓ Hardware upgrade
 - ✓ CPU/SD
 - ✓ IPLE/D



Migration Options – Blades/Cards

Hardware Migration

- 1) Current SV8100 ALLOWS to accommodate SV9100 platform hardware for system expansion
- 2) SV9100 <u>ALLOWS</u> to accommodate current SV8100 platform hardware with New "Hardware migration license".



Migration – Terminals & Licenses

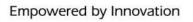
Terminal Migration

- 1) SV9100 ALLOWS to accommodate current DT3xx/7xx terminals
- 2) Current SV8100 <u>ALLOWS</u> to accommodate new designed DT terminals with condition. (Retro-Mode: new features on terminals do not work)
- 3) SV9100 does **NOT ALLOW** to accommodate old generation terminals such as Dterm85 / Aspila EX terminals and before.

License Migration

- Current SV8100 licenses can <u>NOT</u> be installed to SV9100.
- 2) SV9100 licenses can **NOT** be installed to current SV8100.
- 3) SV9100 does NOT provide any license migration path from SV8100. (LMS does not support to transfer the installed licenses on current SV8100 to SV9100.)







Overview

System Scalability

Number of Max Port is expanded to 1,296. (400 Trunks + 896 Extensions)

Easy to configure the system capacity by adding Chassis and Blades and licenses.

Majority of small and medium customers, single or multi-location can be covered by SV9100.



400 TRK + 896 EXT

| | | Items | SV8100 | SV9100 |
|----|------------------------|---------|--------|--------|
| Ма | Max Ports | | 712 | 1,296 |
| | Max Trunks (Total) | | 200 | 400 |
| | | Analog | 200 | 400 |
| | | ISDN | 200 | 400 |
| | | IP | 200 | 400 |
| | Max Extensions (Total) | | 512 | 896 |
| | | Digital | 512 | 896 |
| | | Analog | 512 | 896 |
| | | IP | 512 | 896 |

| Items | SV8100 | SV9100 |
|---------------------------|-------------|---------|
| Virtual Extension | 256 | 512 |
| Max VoIP Channels | 128 | 256 |
| Remote Node (Netlink) | 15 | 49 |
| Tone Detection | 32 | 64 |
| Max VRS Channels | 16 | 16 |
| Max VM Channels | 16 | 16 |
| Analog Modem | 1 (PZ-VM21) | 1 (CPU) |
| 1st Party CTI | 128 | 256 |
| 3 rd Party CTI | 512 | 512 |

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General overview

The UNIVERGE SV9100 Communication server is robust, feature-rich, Unified communications enabled system that are ideal for small and medium sized businesses.

As the All-in-one UC ready, UC element has been included as basic function.

The SV9100 offers:

- Scalable coverage up to 1,296 ports by enhanced new CPU
- All-in-one UC platform (UC Suite /In Mail)
- Rich UC functionality
- Wide choice of Desktop terminals
- Multi location network by Net-link
- Easy installation, operation & maintenance
- Smartphone collaboration
- ECO friendly minimizing power consumption



Specifications

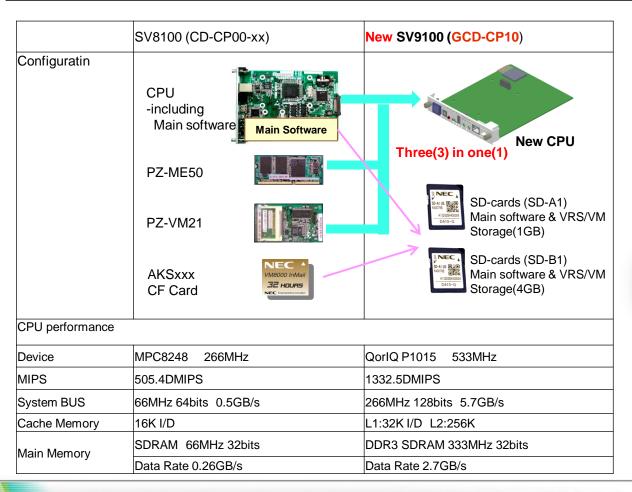
| Items | SV9100 9.5 inch chassis | SV9100 19 inch chassis | |
|------------------------|---|--------------------------------|--|
| Ports capacity | Max. 1,296ports /system (400 trunk ports+896 extension ports) | | |
| System Dimension | W: 369mm (14.5inch) x D: 111mm | W: 430mm (16.9inch) x D: 400mm | |
| System Dimension | (4.4inch) x H: 215mm (8.5inch) | (15.7inch) x H: 88mm (3.5inch) | |
| Weight | 4.5 Kg | 7.9 Kg | |
| System Voltage | AC100V-240V (50/60Hz) | | |
| Environment | Temperature: 0°C-40°C /Humidity 20%-90% | | |
| | Safety EN60950-1 | | |
| | EMC | | |
| Regulatory Compliance | Emission EN55022 | | |
| Tregulatory Compilance | Immunity EN55024 | | |
| | Powering EN61000 | | |
| | Transmission TBR3 TBR4 ES203-0 | 021 | |

New SV9100 CPU Package

New Hardware: Enhanced CPU "GCD-CP10 (PKG)"

Higher cost performance and easy handling, new CPU engine has following enhancement.

a) higher processing performance 2) larger memory on board 3) InMail / Modem built-in New CPU realize UC ready platform UNIVERGE SV9100.



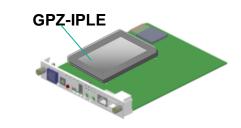


New Hardware : Enhanced Media Gateway "GPZ-IPLE"

To realize IP/UC solution, new Media Gateway card has been released for SV9100.

- To be mounted on new CPU.
- Max 256ch can be supported

| | SV8100 (PZ-xxIPLB) | SV9100 (GPZ-IPLE) | |
|-------------------------|--|-------------------------------------|--|
| DSP | OCT1010 | OCT2224M | |
| Number of | 6 | 24 | |
| DSP core | each core operates at 1.2GHz | each core operates at 1.0GHz | |
| Memory & Data Rate | Mobile DDR SDRAM 166MHz 64bits 1.33MB/s | DDR3 SDRAM 900MHz 32bits 3.6GB/s | |
| Storage area of program | Flash Memory (On board) | SD Card on CPU card (download) | |
| Voice channels | 128ch | 256ch | |
| Video support | Not supported | supported | |





Usage of GPZ-IPLE

Networking (K-CCIS / AspireNet / Netlink)

IP Trunk (SIP trunk)

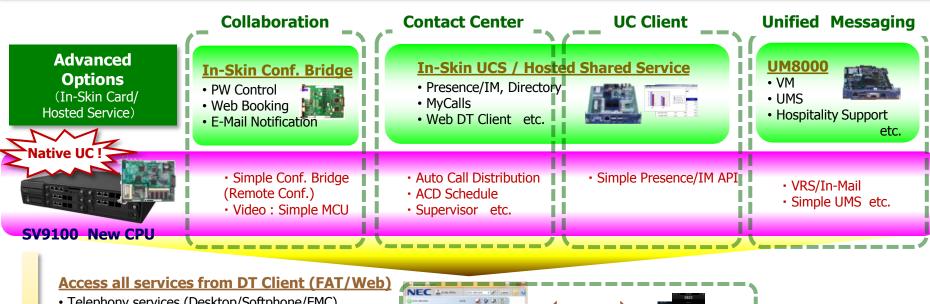
IP Terminal

IP related (Video MCU)



New UNIVERGE SV9100: Application overview toward Entry UC

- "Solution in the Box" by embedded/In-Skin UC Features
- Provide embedded simple UC features from SV9100 CPU, and value-add UC features can be provided as an "Option" by adding In-Skin blades / Hosted Services accordingly.
- "DT Client (FAT/Web)" is the portal to access all services from various type of End Point
 - Easy installation, operation & maintenance by DT Client. Enable to use it on various types of End Point by Web DT Client.



- Telephony services (Desktop/Softphone/FMC)
- In-Mail services
- Simple Presence/IM (FAT), Full Presence/IM (FAT/Web)
- · Conf. Bridge services, Web Booking
- ACD Agent services (work w/ ACD-MIS) etc.







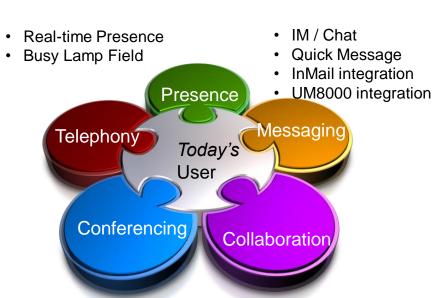
UC Application for SV9100 : UC Suite

NEC's "UC Suite" is one of the core UC application for new SV9100, providing practical UC functionality. This will realize improvement of business efficiency and productivity and also contribute customer satisfaction.

The UC Suite overview

- Innovative desktop application that increases efficiency and productivity
- Simplified call management through easy to use graphical user interfaces
- Real-time Presence and availability of colleagues
- Quick messaging to one or multiple colleagues
- Provides Microsoft® Outlook® calendar integration
- Enables simplified call handling for Attendant
- Data conference including video
- Seamless integration with the SV9100 simple ACD for contact center functionality

The UC Suite provides wide range of services



- Click to dial
- Drag & Drop call handling
- Pop-up on ringing
- Attendant
- Soft Phone
- Call log/recording

- Data conference
- App sharing
- White board
- File Transfer
- Video conference
- **CRM** integration
- Microsoft Outlook
- Salesforce.com



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UC Application for SV9100: InMail

- No specific hardware is required for VRS/InMail (CPU with SD-A1/B1 only)
- License Control: Channel base (VRS), Mail Box base (InMail)
- Up to 2 VRS Channels are initially bundled on CPU
- Enable to choose either SD-A1 or B1 in accordance with required storage size
- Exactly same functionality with SV8100
- Enable to operate the Mail Box (Replay, Delete, etc) from DT Client (InMail Integration)



| 01 | .US En | glish | |
|----|--------|-------|--|
| 02 | .UK En | glish | |
| | | | |

03...Australian English 04...French Canadian

05...Dutch

06...Mexican Spanish

07...Latin America Spanish

08...Italian

09...German

10...Madrid Spanish

11...Norwegian

12...Parisian French

13...Brazilian Portuguese

14...Japanese

15...Mandarin Chinese

16...Korean

17...Iberian Portuguese

18...Greek

19...Danish

20...Swedish

21...Thai

22...Mandarin Chinese (Taiwan)

23...Flemish

24...Turkish

25...Arabic

26...Russian

| Prroduct name | InMail | | | |
|-----------------------|-----------------------------------|--|-------------|--|
| | Embedded VMS | | | |
| Hardware | None | | | |
| Software | SD-A1 OT/CH | | SD-B1 OT/CH | |
| | 1GB | SHEC ASSESSMENT OF THE PROPERTY OF THE PROPERT | 4GB | SC-1 of Differences CATOS BILLS A 2015-G |
| License | Per VRS Channel Qty 3-16 | | | |
| | Per VM BOX license Qty 1-896 | | | |
| | Per InMail Email client Qty 1-896 | | | |
| Storage hour | 12 hours | 3 | 115 hou | ırs |
| Concurrent voice path | 16ch | | | |
| Mailbox capacity | 896 Mail boxes | | | |
| Language supported | Up to 26 languages stored to SD | | | |
| Language supported | Card | | | |
| Functionality | Same with SV8100 | | | |



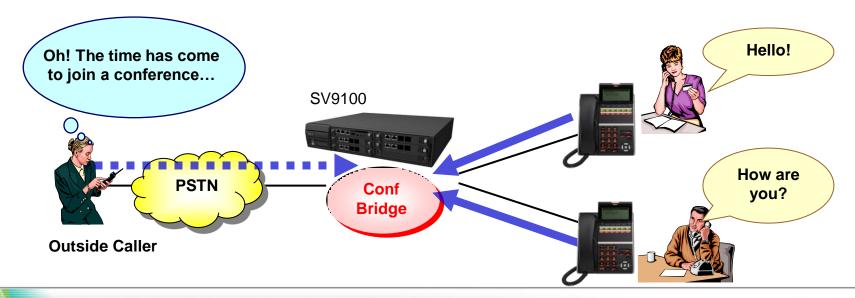
UC Application for SV9100: Conference bridge

SV9100 provides two choice of conference bridge

1) License controlled 2) Future rich In-skin Conf. bridge

License controlled (Simple Conf. bridge)

- Enjoy the simple Conference Bridge by option license; SV9100 REMOTE CONF-01 LIC No additional hardware option required
- Call to the specified number of Conference Bridge and enter the PW to log-on.
- Up to 4 Bridges, and up to 8 participants per Bridge





2. Future rich In-skin Conf. bridge

- Conference up to 32 internal and external participants
- Simple GUI Setup via Browser
- Schedule conferences up to a year in advance
- PW control
- E-mail Notification
- Voice recording to the CF
- Record conferences, playback on PC's media player
- Mute or disconnect noisy participant on real view page

Necessary option items

- -Option hardware GCD-RGA with AKS-RGA-AOO-GATEWAY-CF
- -License RGA Conference PORT-08-LIC x 1,2,3,4,

Setup Menu GUI



Real View Page



Using iCal for distributing Conference Invitations





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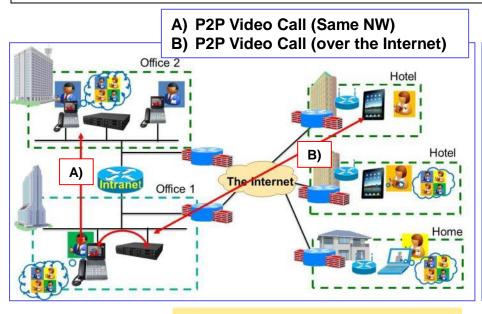
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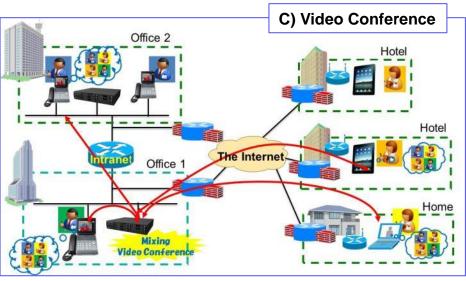
UC Application for SV9100: Video

Enable to use IPLE channels not only for Voice (VoIP)

but also video communications. (CODEC: H264, Size: CIF / VGA)

- A) Enable to make a Video Call (P2P) under same Network (LAN / Intranet < Netlink>)
- B) Enable to make a Video Call over the Internet (NAT traversal)
- C) Enable to establish a Video Conference on the IPLE
- -> "SV9100 VIDEO MCU LIC" is required for above B) and C) cases.





Tested Video Terminals

Polycom VVX1500, Polycom VVX500, Polycom VVX600

Polycom RealPresence Mobile(iOS) <Softphone> Polycom RealPresence Mobile(Android) < Softphone>

B) P2P Video Call (over the Internet)

- Max number of call at the same time

CIF: 4 (96ch required) VGA: 3 (192ch required)

C) Video Conference

- Max 4 parties
- Required Resources CIF: 64ch, VGA: 160ch

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UC Application for SV9100: Contact Center

SV9100 provides 1) In ACD function as license control basis, further option 2) ACD -MIS Reporting as license control basis with In-Server or external server

1. In ACD function

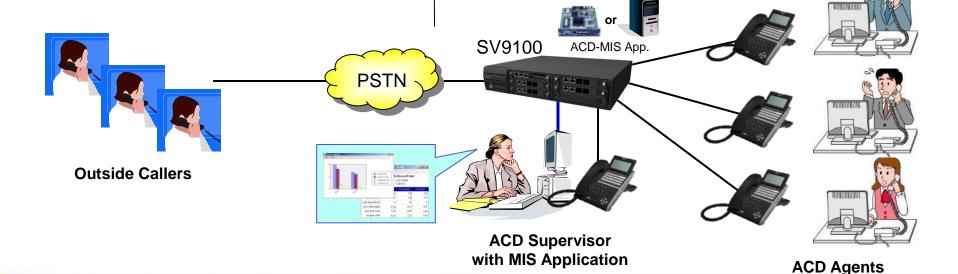
For SV9100, ACD (call routing) is standard function with license control.

- SV9100 ACD AGENT-01 LIC
- SV9100 ACD SKILL/CID BASE LIC

2. ACD-MIS Reporting

If MIS report is necessary., this will be hardware & license option.

- Optional In-server / external Server
- SV9100 ACD P-EVENT LIC
- SV9100 ACD MIS LIC
- SV9100 ACD-MIS MONITOR-01 LIC
- SV9100 ACD MIS AGENT-01 LIC
- Web DT Client



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UC Application fro SV9100 : UC Suite "Data conference"

By simple operation, user can set up "Data conference", up to eight (8) party can work together. by most suitable media Telephony /Chat / Application sharing, Whiteboard / Video.

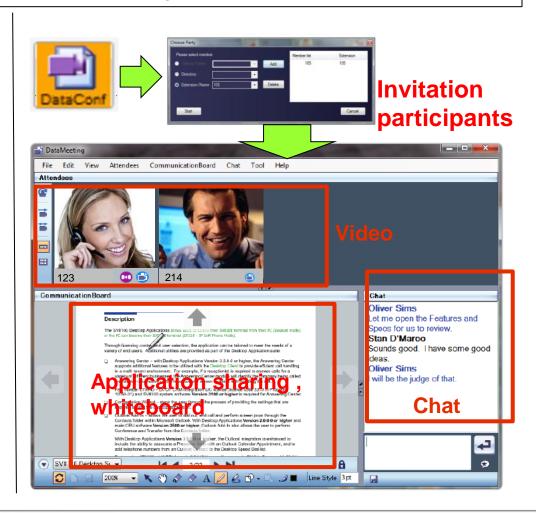
Function to be provided

- Audio/Videoconferencing
- Real time Presence
- Application sharing
- Whiteboard
- Instant Message/Chat
- File transfer

By utilizing this feature, user can enjoy

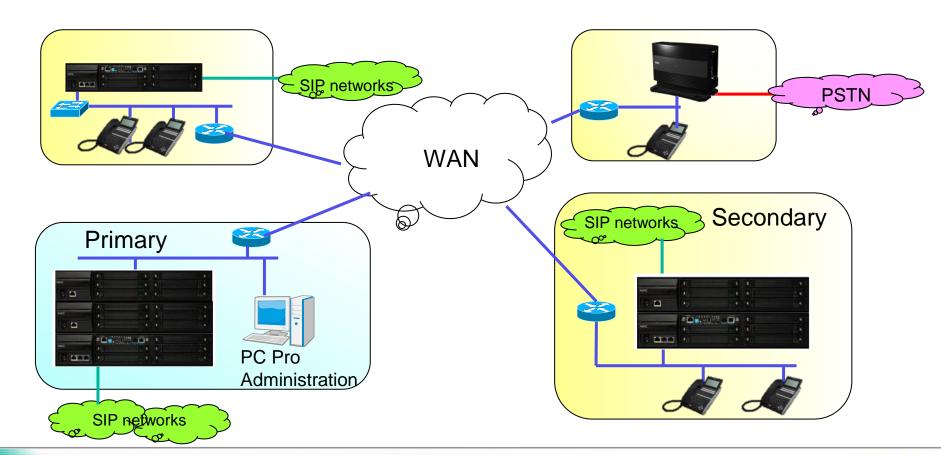
- ✓ Improve Efficiency
- ✓ Increase productivity
- ✓ Reduce travel cost





Enhanced Network function: Netlink

SV9100 provides Network function, enhanced "Netlink" will provide 50 Locations / 896 users / 400 trunks as one system with Failover functionality. Suitable for a small organization in a multi-floor, multi-building campus or geographically dispersed office environment



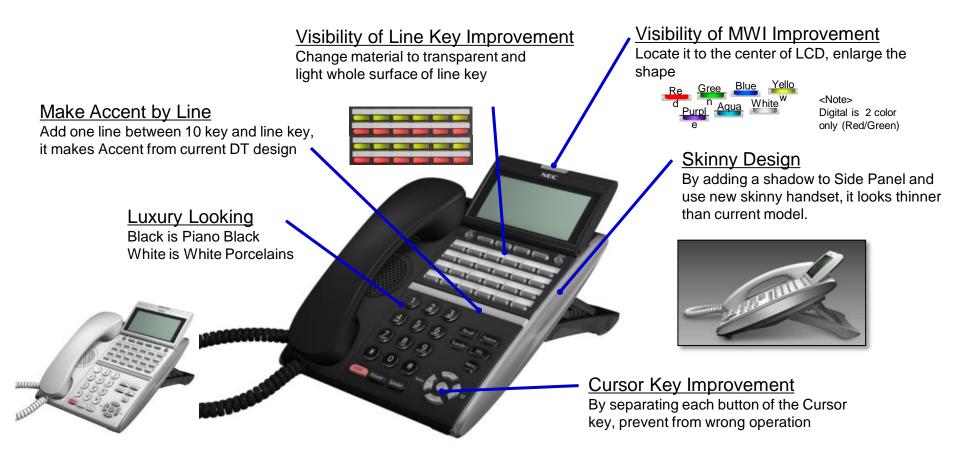


Terminals

New UNIVERGE New terminals DT400/800

UNIVERGE SV9000series enhancement, new series enhanced DT400/800 has been released. -New cosmetic design, Line Key & Lamp visibility improvement.

Considering smartphone usage in office, Smartphone integration will be available.



UNIVERGE New terminals DT400

| Item | DTZ-2E | DTZ-6DE | DTZ-12D/24D | DTZ-8LD | | | |
|----------------------|-------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--|--|--|
| | | A C | | | | | |
| LCD | N/A | 24x3 line, 92x35mm (w/o Backlit) | Gray Scale 165x58 dot, 92x56.5mm | Main + Sub: Same as left | | | |
| Incoming Lamp | 3 colors (Red, Green, ` | Yellow) | | | | | |
| Line Key | 2 /6/12/24 buttons with | LED (LED: Red, Green | n) | 8 with LED (x4=32) (LED: Red, Green) | | | |
| Soft Key | N/A | 6 buttons (Exit, Help ar | and 4 button) | | | | |
| 10 Key Backlit | N/A | | Yes (Orange) | | | | |
| Handset | Narrow band, supporting | ng HAC | | | | | |
| Hands free | Full Duplex | | | | | | |
| Consumed Power | 1.0W | 1.1W | 2.0W w/o option | 2.2W w/o option | | | |
| Power Feeding | | | Local Feeding: AC Ada | pter (27V 1A) (Option) | | | |
| Bottom Option | N/A | | ADA, APR, BHA, BCA | | | | |
| Side Option | N/A | | 8LK, EHS Cable (Plantronics) | | | | |
| Dimension (WxDxH) | 182x225x109mm | | 182x258x109mm | 182x272x109mm | | | |
| Weight | 1.1kg | 1.1kg | 1.2kg | 1.3kg | | | |
| Color | Black | Black | Black / White | Black / White | | | |

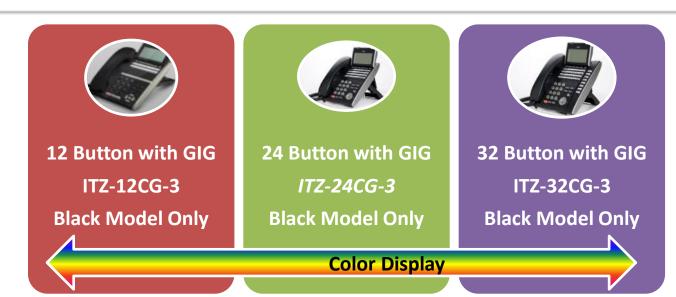
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UNIVERGE New terminals DT800

| Item | ITZ-12D/24D | ITZ-12DG/24DG | ITZ-8LD/8LDG | ITZ-12CG/24CG | | | | |
|----------------------|--|--|---|---|--|--|--|--|
| | | | | This image cannot currently be displayed. | | | | |
| LCD | Gray Scale 224x96 dot | , 92x56.5mm | Main + Sub: Same as left | Color 480x272 pixel, 105.5x67.2mm | | | | |
| Incoming Lamp | 7 colors (Red, Green, B | Blue, Yellow, Purple, Aqu | a, White) | | | | | |
| Line Key | 12/24 buttons with LED (LED: Red, Green) | | 8 with LED (x4=32) (LED: Red, Green) | 12/24 with LED (LED: Red, Green) | | | | |
| Soft Key | 6 buttons (Exit, Help an | d 4 button) | | | | | | |
| 10 Key Backlit | Yes (Orange) | | | | | | | |
| Handset | Wide band, supporting HAC | | | | | | | |
| Hands free | Full Duplex | | | | | | | |
| Consumed Power | IEEE802.3at Type1 Class2(below 6.49W) | IEEE802.3at Type1 Cla IEEE802.3at Type1 Cla | nss3 (below 12.95W) nss2(below 6.49W) (*ITZ- | -8LD) | | | | |
| Power Feeding | Local Feeding: AC Ada | pter (27V 1A) (Option) / F | PoE: IEEE802.3at Type | 1 | | | | |
| LAN I/F | 10/100 BASE | 10/100/1G BASE (8LD | is 10/100 BASE) | | | | | |
| USB I/F | N/A | 1 Port (USB 2.0) | N/A | 1 Port (USB 2.0) | | | | |
| Bottom Option | ADA, BCA | | | | | | | |
| Side Option | 60 DSS Console, 8LK, | EHS Cable (Plantronics) | | | | | | |
| Dimension (WxDxH) | 182x258x109mm | | 182x272x109mm | 182x278x109mm | | | | |
| Weight | 1.2kg | 1.2kg | 1.3kg | 1.3kg | | | | |
| Color | Black / White | Black / White | Black / White | Black /White | | | | |



DT830 (Gig/IP) Terminals (Value Line)

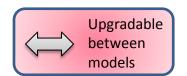




8 Button Gray scale
With GIG
ITZ-8LDG-3
White/Black Models

Value Line

- USB port (excludes 8LDG)
- NO upgrade from Desi to Desiless and Grayscale to Color





12 Button with GIG
ITZ-12DG-3
Black Model Only



24 Button with GIG

ITZ-24DG-3

Black Model Only

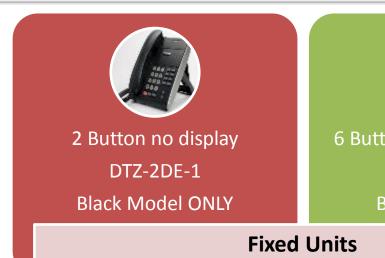
Gray scale Display



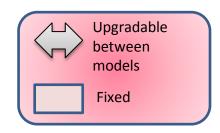
32 Button with GIG
ITZ-32DG-3
Black Model Only

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DT410 & DT430 (Digital) Terminals







Economy Based DT410

Value Based (DT430)



12 Button Display (DTZ-12D-3)

White /Black Models



24 Button Display (DTZ-24D-3)

White /Black Models



32 Button Display (DTZ-32D-3)

White /Black Models

Gray Scale Display



8 Button Desiless Display (DTZ-8LD-3)

White /Black Models

Gray Scale Display

Gray Scale Display

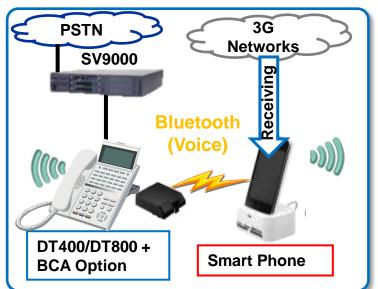
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New UNIVERGE New terminals DT400/800

Smartphone is becoming essential communication tools for the daily business. New DT400/800 will provide integration function with smart phone by Bluetooth technology. In addition to basic Receive /Place call from smartphone and Application SDK has been prepared for further customization.

Receive Call

- -When call is coming to Smart Device, DT Terminal is also ringing.
- -Answer and End the call by Handset or Speaker on DT terminal.
 (Hands free call can be available)
- -Volume can be controlled from DT terminal.



Place Call

- -DT Terminal can dial through PBX systems from an operation by Smart Device.
- -Dial from Phone book in Smart Device is available.
- -This solution requires an application, SDK is prepared. Refer to the next page for details of the SDK.





UT880 - One Desk phone to rule them all



A phone that will support your growing business



UT880 - UC Touch Screen Deskphone



Specifications

| | reatures | U 1880 Desktop Telephone |
|----------|---------------------------------|---|
| | LCD Display | 7 inch TFT LCD WVGA(1024 χ 600) with Backlight, 16.7M Colors |
| | Touch Screen | Capacitive 4 Finger Multi-Touch Window |
| | Camera | Built-in Camera, 1.3M CMOS Image Sensor, Auto Exposure, Auto White Balance, Fix IRIS |
| | Incoming Call Lamp | 3 Colors (Red, Green, Blue) |
| | Bluetooth | Bluetooth V2.1 |
| | Bluetooth Profiles Supported | +EDR, V3.0 (HS not supported), V4.0 HSP Profile (Headset) & PBAP Profile (Phone Book Access |
| | | Hands-free Microphone: Omni-Directional |
| are | Audio | Wideband Speaker: Wideband:G722HD; Narrow Band:G711ulaw/ alaw,G729A |
| Hardware | | Handset: RJ-9 Single Jack |
| Ĩ | | Headset: RJ-9 Single Jack |
| | Hook Switch | Operating Force 50gf (max.) |
| | Ethernet Port | 2 Switched 10/100/1000 Mbps |
| | LAN Port | 10/100/1000Base-T |
| | PC Port | 10/100/1000Base-T |
| | Power over Ethernet (PoE) | IEEE 802.3af Compliant, No AC Jack |
| | SD Card I/F | Micro SD Card Connector supports spec version 1.01 & 2.00 |
| | USB I/F | Host - USB 2.0 Type A connector, Device - USB 3.0 Micro B Type |
| | Flash Memory | 4GB MLC NAND Flash |
| | SDRAM Memory | 1GB |

UT880 Desktop Telephone



License & Enhancement

New UNIVERGE SV9100:Smart communications for small medium businesses

Basic license structure will be as categorized below.

1. Version license 2. Capacity license 3. Optional license and

New 4. User license

1. Version license

- Version license is required to enjoy all system
- Without version license,

Basic and bundled feature will work no additional licenses (capacity + option) can be installed

==Basic and bundled feature ==

Default Capacity on CPU x 64 ports

Built-In VRS x 2

Mobile Extension clients x 4

IP Trunks(SIP/H323) x 4

IP Terminals (SIP-MLT/SIP-SLT/3rd party) x 4

2. Capacity license

Page 46

Default Capacity on CPU x 64 ports Additional port license (1 port)

3. Optional license

- 3. 1 Networking
- 3. 2 VoIP channel **IPLE**
- IPI F 3. 3 IP Trunk
- 3. 4 IP terminal IPLE / DT800
- 3. 5 IP related **IPLE**
- 3.6 CTI
- 3.7 In-ACD
- 3. 8 System Feature
- 3.9 InMail
- 3.10 UM8000
- 3.11 PVA
- 3.12 UC suite
- 3.13 MyCalls

New UNIVERGE SV9100: Smart communications for small medium businesses

User License

- Provide the "User" based bundled license to lead SV9100 users toward IP/UC world.
- Enable to provide the value-added IP/UC features by single license with competitive price.
- Up to 3 kinds of User Licenses are ready.

| | | License (a-la-carte) | User License | | | | | |
|-----------------|----------|--------------------------------|--------------|---------------|-----------|--|--|--|
| Category | BE Code | Name (a-la-carte) | STANDARD | STANDARD PLUS | PREMIUM | | | |
| IP Station | BE114054 | SV9100 IP PHONE-01 LIC | x | x | X (2 pcs) | | | |
| InMail | BE114083 | SV9100 INMAIL VM BOX-01 LIC | | X | Х | | | |
| IIIIViaii | BE114084 | SV9100 INMAIL EMAIL CLT-01 LIC | | | Х | | | |
| | BE114056 | SV9100 DT CLIENT-01 LIC | Х | X | Х | | | |
| | BE114057 | SV9100 WEB DT CLIENT-01 LIC | | X | Х | | | |
| | BE114063 | SV9100 INMAIL INT-01 LIC | | X | Χ | | | |
| UC Suite | BE114061 | SV9100 BASIC SHARED SVC-01 LIC | | X | | | | |
| | BE114060 | SV9100 SHARED SVC-01 LIC | | | Х | | | |
| | BE114062 | SV9100 CRM INTEGRATION-01 LIC | | | Х | | | |
| System Features | BE114055 | SV9100 MOBILE EXT-01 LIC | Х | X | Х | | | |
| System Features | BE114151 | SV9100 MULTI DEVICE-01 LIC | | | Х | | | |



1. Version License (1/3)

X : Released --- : Not released

N : Available in default w/o license

Current SV8100

| | Item | Code | | Thom Name | Description | | Item Name Description | | Description | | US OT | | | AU | EMEA |
|----------|----------|------|------|-------------------------------|------------------------|--------|-----------------------|------|-------------|-------|-------|------|--|----|------|
| BE | US Stock | LASC | Aust | item Name | | | 03 | LASC | Asia | China | AU | EMEA | | | |
| BE112431 | TBD | TBD | TBD | LK-SYS-V9000 Enhancements-LIC | Version license for R9 | ON/OFF | X | X | X | X | X | X | | | |



Proposal for SV9100

| | Item | Code | | Thom Name | Item Name Description | | Description US | | ОТ | | | | | БМЕА |
|----------|----------|------|------|-------------------------|------------------------|--------|----------------|------|------|-------|----|------|--|------|
| BE | US Stock | LASC | Aust | item Name | | | US | LASC | Asia | China | AU | EMEA | | |
| BE114043 | 640772 | TBD | | SV9100 VERSION LIC (R1) | Version license for R1 | ON/OFF | X | X | X | X | X | X | | |

- Version license is required in order to ready the system to enjoy all system features.
- The system without version license shall provide <u>basic and bundled features</u>, and can not install any specified feature licenses (including capacity license).
- Latest version license will be released every enhancement timing.
- Feature enhancement (except bug-fix) will be contained in the version license and/or specified feature license.
- R2-LIC or upwards will contain the previous version licenses. (same as current SV8100 version license concept. When the new version license is released, previous version license shall automatically be EOL.)

<Note>

Version license will be provided by FOC for SWA customers in order to guarantee the software upgrading.
 Refer to SWA guideline for more details of SWA role.

NEC

1. Version License (2/3)

| | | Non-SWA Customer | SWA Customer |
|---|--------------------|---|-------------------------|
| W | hen New Sales | | |
| | Main S/W Level | Latest version | Latest version |
| | Version License | FOC | FOC |
| W | hen Enhanced | | |
| | Main S/W Upgrading | MUST ask Dealer (Maybe charged service by Dealer) | FOC (inc. SWA contract) |
| | Version License | MUST Purchase | FOC (inc. SWA contract) |

NEC guarantees to provide the "Latest Quality" software to all new customers regardless SWA contract. (Version Lic shall be supplied by each market)

1. Version License (3/3)

SV9100 features are categorized as below.

- Basic & Bundled Features
 Enable to use with necessary hardware only.
- Licensed & Enhanced Features
 Value-Add features (such as ACD, Hotel, IP Trunk, etc.
 and more than 64 ports) and enhanced features on
 each Software Enhancement. Enable to activate by
 version license and appropriate feature licenses.

Features Availability
(Image)

Specified
Feature Licenses

Version License

Hardware

Basic & Bundled Features

Licensed & Enhanced Features

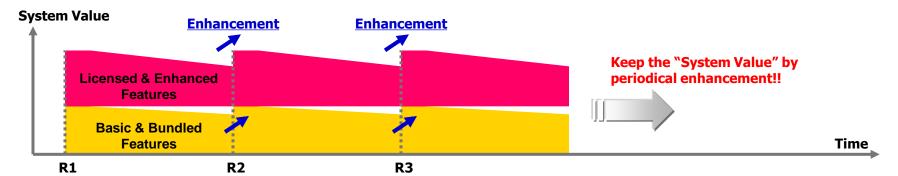
<Example>

In case the customer installed only necessary hardware:

- Enable to enjoy Basic & Bundled features on "R1" level
- Feature level shall be stayed on "R1" even if main software is upgraded.
- Can not install any specified feature licenses without version license.

Main Software Enhancement (Image)

"System Value" is going down day by day. SWA shall guarantee to keep the system value therefore Version License will be supplied by FOC for SWA customers.



Line Load Control

 Enable to supervises the CPU load status, and if the value of CPU load factor exceeds threshold, the system intentionally restrict several extensions and trunks in order to stabilize entire system.

Normal Condition



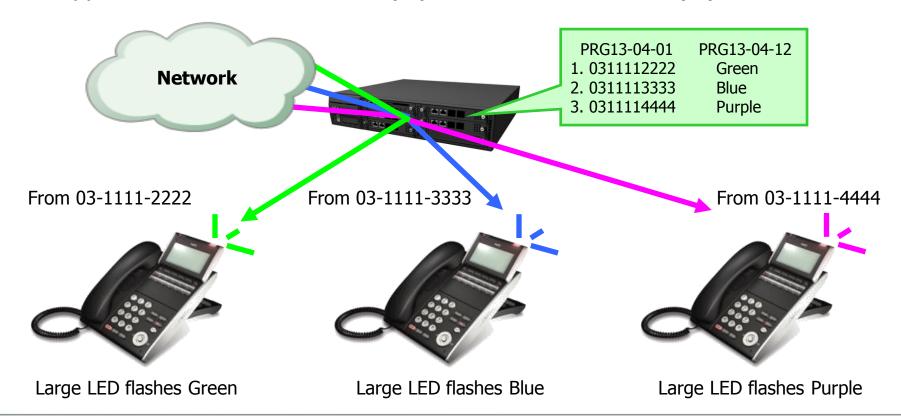
Restrict incoming/outgoing calls



System safe and high availability

7 colors LED display by Caller ID

- Enable to identify who is calling by LED color.
- Assign one of LED colors (7 colors) for pre-registered CID in PRG13-04.
- Applicable for DT7xx terminals (IP) and new DT terminals (IP).



System Incoming Call Log

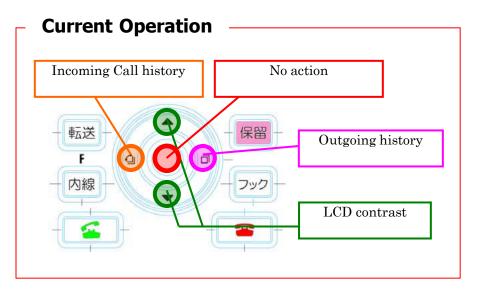
 Enable to check the all incoming calls Log on the system by pressing the function key.

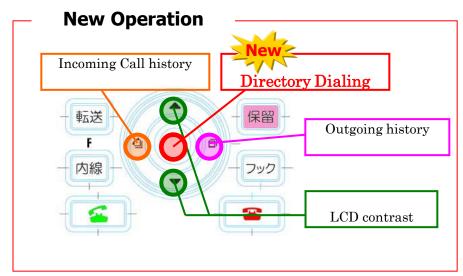


Press the soft key to check the incoming call log on his terminal.

Press the "System Caller Log" key (Programmable Function Key) to check the all incoming calls log on the system.

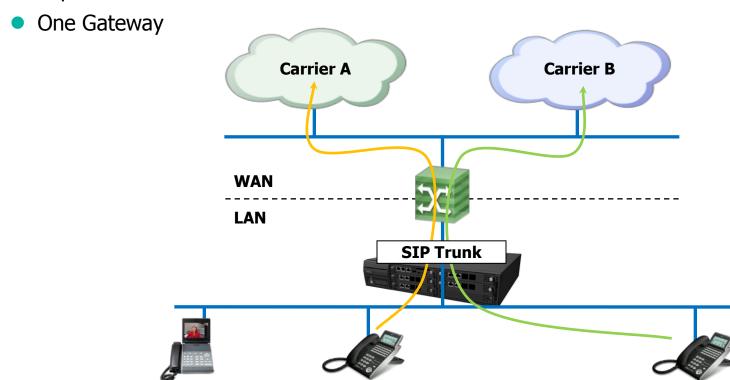
- Directory Dialing Operation Enhancement on 12BT Terminal
 - Enable to operate the Directory Dialing by Cursor Keys on Bluetooth Handset.





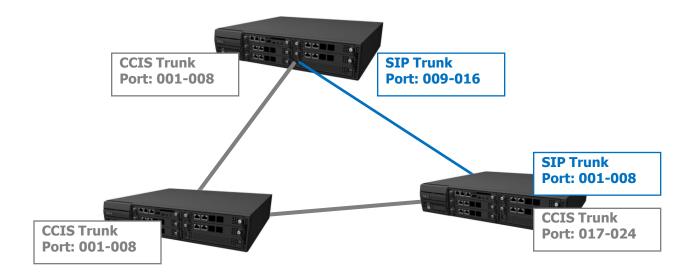
Multi SIP Profile Support

- Enable to use two SIP Profiles for SIP trunk accommodation.
 (ex : System Interconnection and Carrier or Two Carriers)
- Limitations
 - Separate SIP Port each SIP Profile



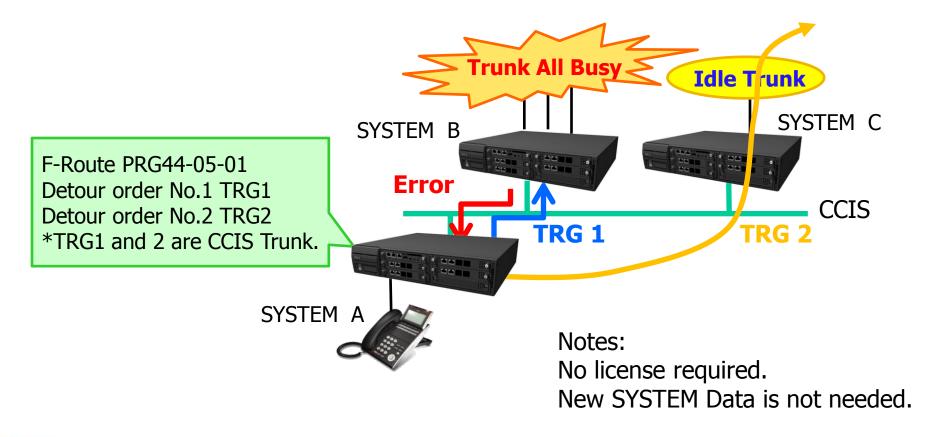
IP Trunk Assignment Algorism Improvement

- IP CCIS port and SIP trunk port can be assigned more flexibly.
 - Enable to assign IP CCIS and SIP Trunk port without IPLE installation.
 - Enable to select start port and number of ports with each CCIS and SIP
 - Enable to assign separate area with each CCIS and SIP



Call rerouting on busy CCIS route

 The Trunk can be rerouted according to Detour order of PRG44-05-01 in SYSTEM A when all trunks in SYSTEM B are busy and cannot be seizure and return an error code to SYSTEM A from SYSTEM B.



SIP Fax Path Through

Enable to relay the fax if SIP Carrier do not support the T.38 Fax relay.

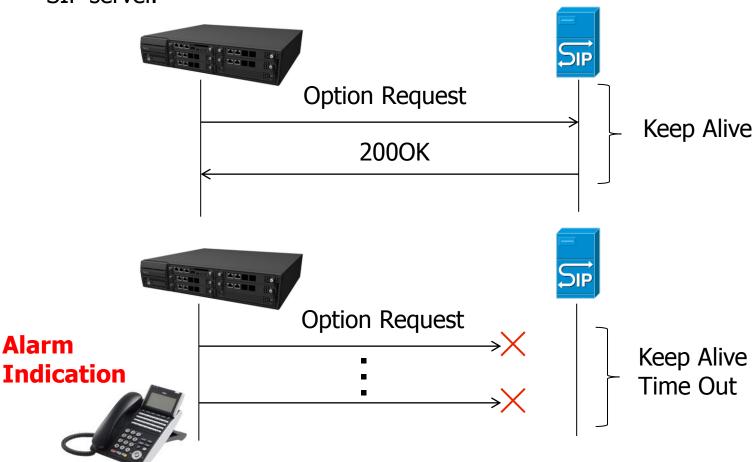


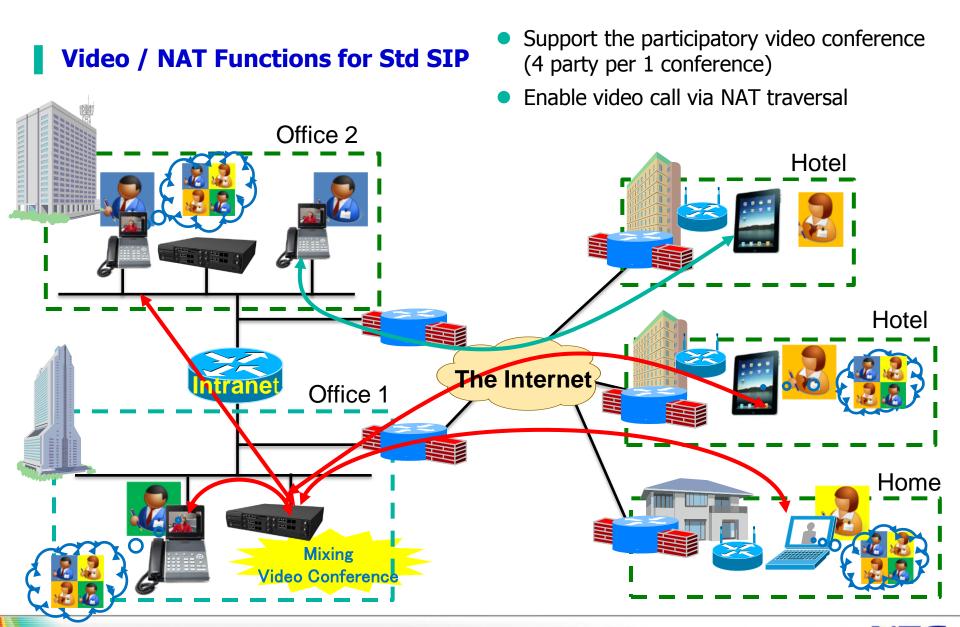
Fax Detect. Change the codec of RTP to G.711



SIP Option Keep Alive

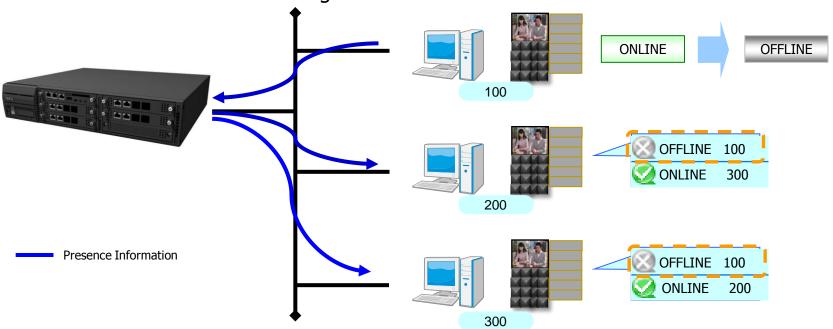
 To check alive of SIP server, the system sends the SIP Option message to the SIP server.





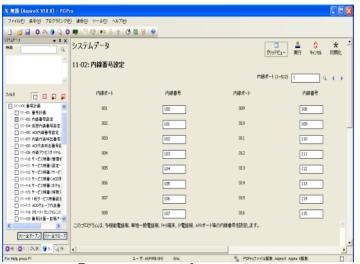
Simple Presence / IM API

- Newly equip the API on the system to provide simple Presence / IM functions for appropriate client applications.
- Output the following information from this new API.
 - Simple Presence
 - Incoming / Outgoing History notification
 - Profile information management

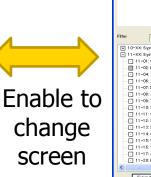


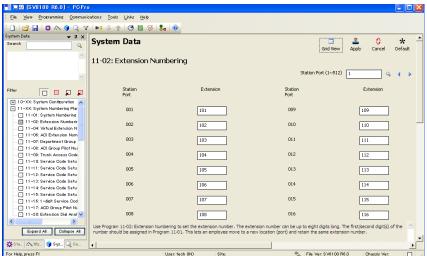
New PCPRO (Global Version)

- Only one type (Global Version) PCPRO is released, and enable to access any market type of SV9100 by new PCPRO.
- Enable to change the market with menu on PCPRO. (ex. US<->General Export, US<->EMEA)



Japan version screen





US version screen

New WebPRO (GUI Color/Design)

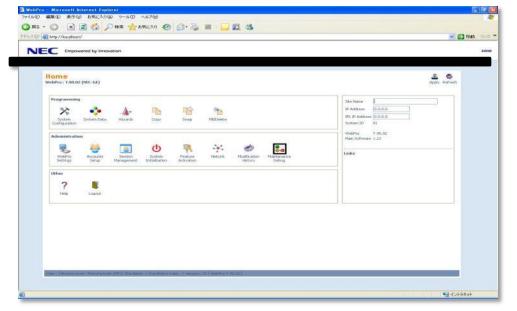
Change the GUI color and design. (like a MA4000)

SV8100 WebPRO Design



Change Color usage like MA4000

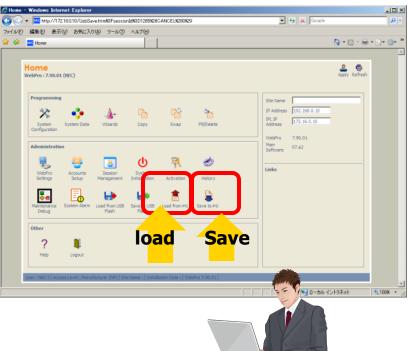
SV9100 WebPRO Design



New WebPRO Enhancement (File Save/Load)

- Enable to save/load the system data as PCPRO format to/from PC by WebPRO.
- Enable to handle (review/edit) the saved system data by PCPRO, if necessary.
 (Off-line programming)





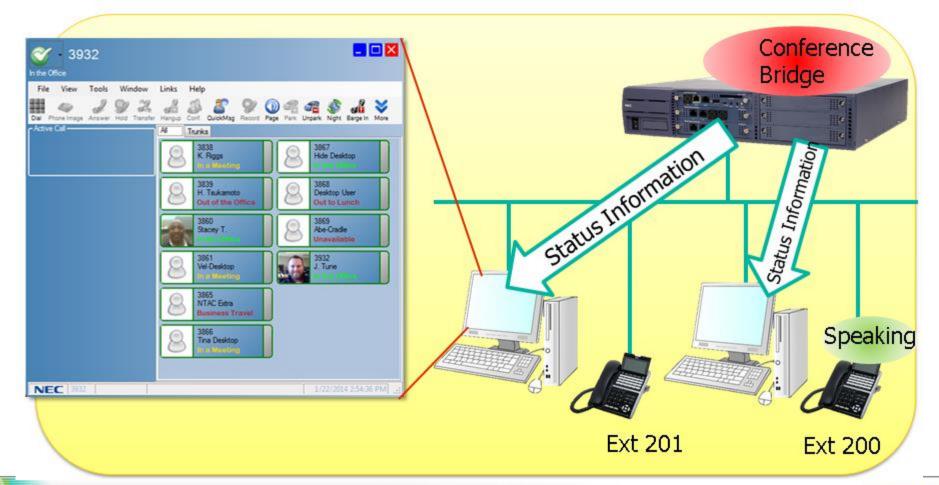
- New WebPRO Enhancement (Remote Upgrade)
 - Enable upgrade the main software from PC by WebPRO.





Simple Presence/IM API (TEL/Conf. Bridge status)

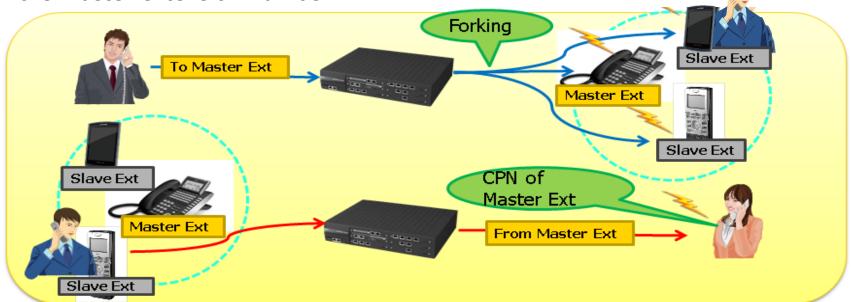
 Improve the Presence API to support TEL status (BLF, Call Forwarding and DND) and Conf. Bridge (Remote Conference) status for UC Suite.



Multi Device Support

- This feature enables up to 6 devices can be assigned to one user, one extension, and those multiple devices can behave as if it were a single device.
- The devices need to be assigned in a dedicated group. And one of the extension numbers become the master extension number which can call all the extensions in the group by "forking".

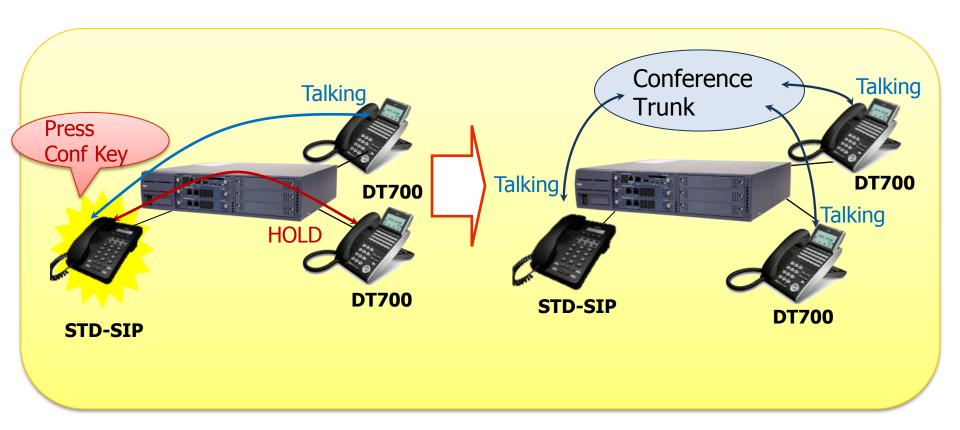
 Calls from any devices in the group have the same CPN and the caller name of the master extension number.



CONF Key on Std SIP

Conference Call by Standard SIP Terminal

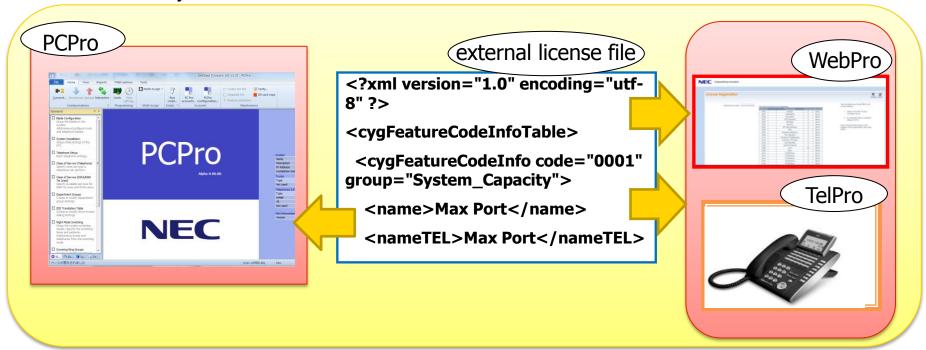
Support conference key of STD-SIP by using system conference resource.



License Name External File Support

Control license information by external file

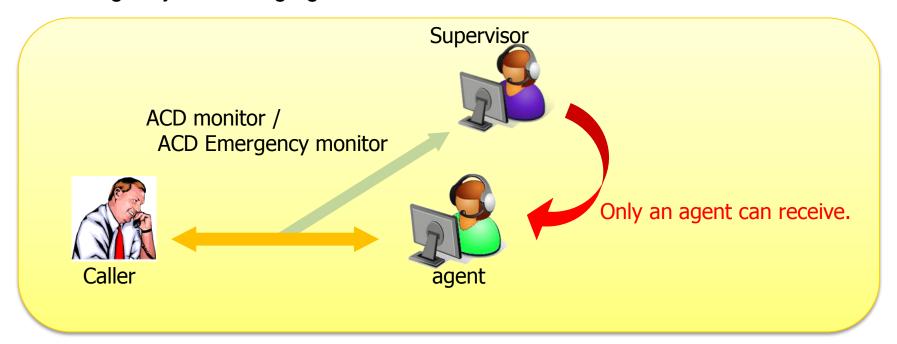
- Define common license format as external file for Tel/Web/PCPro, so that it becomes easy to set license information by just changing this external file.
- And overseas office member can control license information by changing this file directly.



ACD Whispering

This function allows supervisor to advise an agent in ACD monitor.

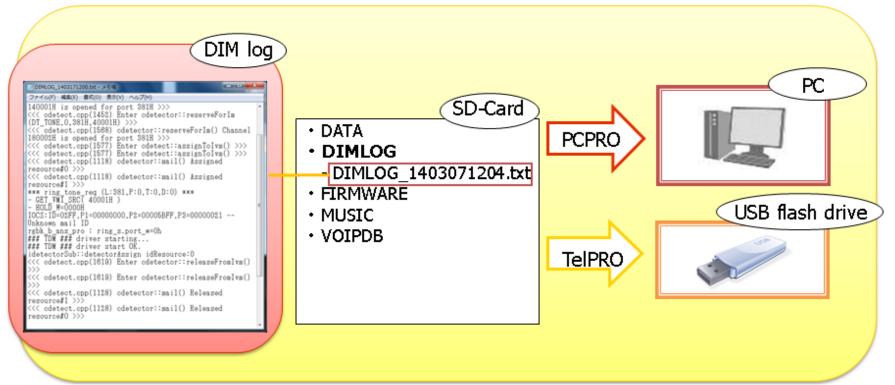
- The agent can hear voice of the supervisor, but the caller cannot.
- This function is activated by the supervisor pressing ACD Whispering Key, when the supervisor is using ACD Monitor or ACD Emergency monitor, or ACD Emergency call is ringing.



Saving DIM to SD-Card

DIM log is saved as a text data to SD-Card on CPU.

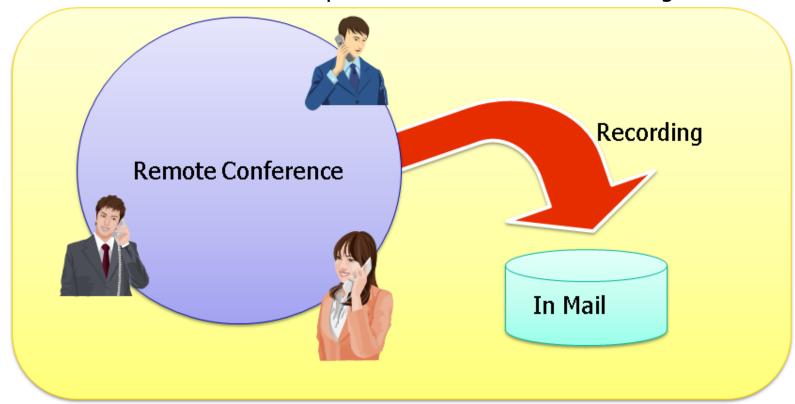
- Saved DIM log can be extracted to USB flash drive by PRG90-03, and can be saved to PC via PC programming.
- Debug commands can be switched to ON/OFF via Web programming.



Remote Conference Recording DIM to SD-Card

Support Recording for Remote conference.

- Support auto recording and manual recording.
- Conversation is recorded to specified mail box as new message.

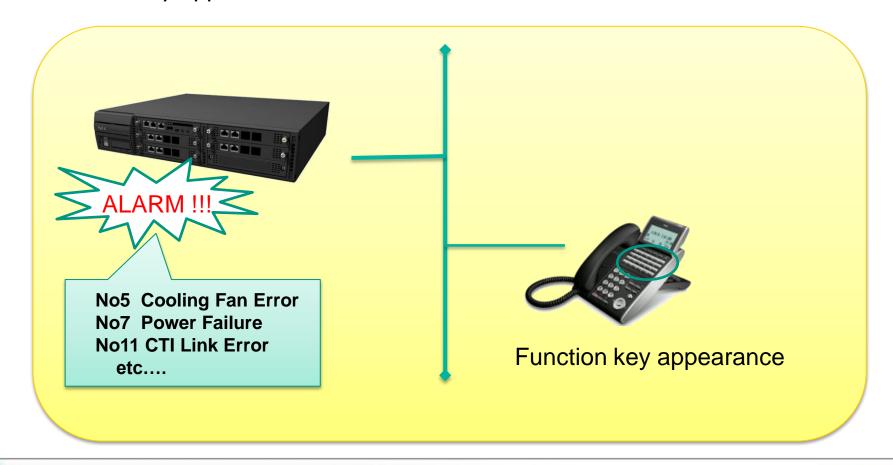


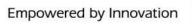
Major New / Enhanced Features on R2

Alarm Improvement

This feature provides two new methods of alarm indication.

Function key appearance







UC Suites

Basic Policy of SV9100 UC Solution

Objective

- Transform from "Just Voice System" to "Appliance UC System"
- Provide a clear message to the market that SV9100 is a "Appliance UC System"

Target

 Increase the product attractiveness and feature advantage by "UC" against competitors, and achieve the Global No.1 position at the SMB segment

Concept

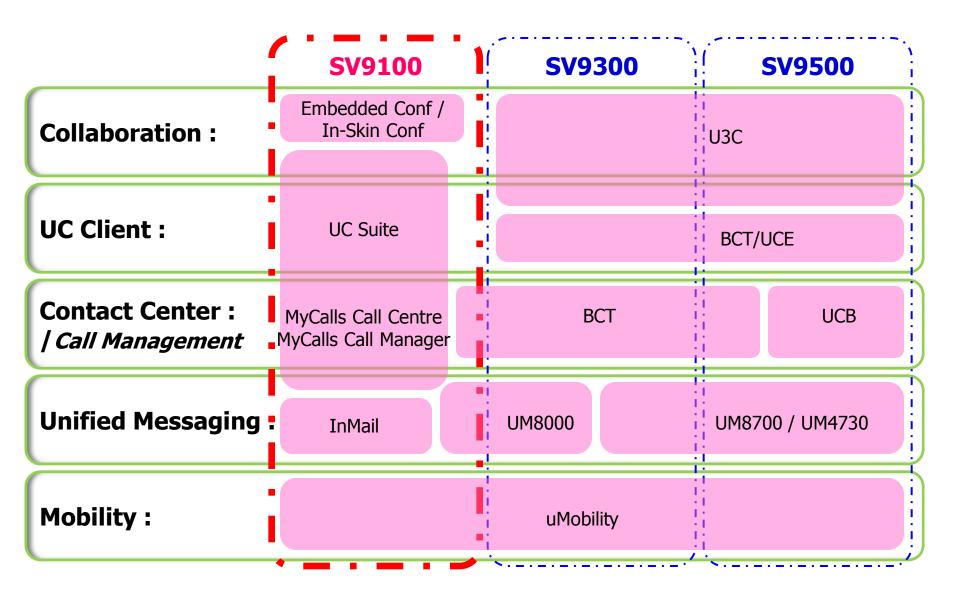
- Easy Installation, Operation and maintenance
- Provide the UC Solution with competitive cost

Positioning

- Define that the SV9100 UC Solution is called "Entry UC" (Solution in the Box)
- Offer the other PF (SV9300 / SV9500 / 3C / Cloud, etc.) if "Formal UC (more rich features, high performance, etc.)" is requested

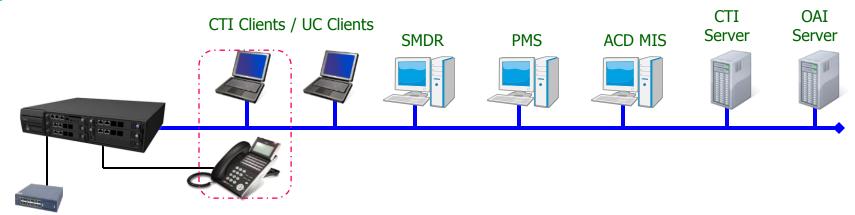


Applications Mapping



Application Interface

- SV9100 has following various interface for 3rd Party Applications.
- Ready to collaborate with applications for value-added solutions.



3rd Party Voice Mail

| API | Interface | Protocol | |
|----------------------|---------------------|------------------------------|--|
| 3rd Party Voice Mail | Analog Ext Port | Unique In-Band Signal (DTMF) | |
| SMDR | Ethernet Port (CPU) | Text Data | |
| 1st Party CTI | Ethernet Port (CPU) | TAPI1.4 | |
| 3rd Party CTI | Ethernet Port (CPU) | TAPI2.1 | |
| ACD MIS | Ethernet Port (CPU) | Proprietary (P-Command) | |
| PMS | Ethernet Port (CPU) | Proprietary | |
| OAI (Subset) | Ethernet Port (CPU) | Proprietary | |
| Simple Presence/IM | Ethernet Port (CPU) | Proprietary | |
| XMLPro (Web Server) | Ethernet Port (CPU) | Proprietary | |

Enhanced User Experience



- Manage terminals from desktop computer
 - Access features speed dialing, call management & contact lookup
- Simple interface with flexible directories
 - Simple Icons for Hold, Transfer, Conference, Park, Barge-in, etc.
 - Click-to-dial from directories or contact lists
- Customer Relationship Management Integration (CRM)
 - Outlook integration
 - Browser based CRMs, Goldmine, Salesforce.com, Tigerpaw, Time Matters, or ACT!





Enhanced User Experience

UC e included

- Works like Smartphone but from your desktop
- Highlight any phone number with your mouse
 - ✓ Email signature, website, word doc, Outlook contacts, etc
- Right click and your SV phone will dial the number
- Everyone benefits from Highlight Dial



Enhanced User Experience

UC e included

- ✓ Web Client Provides:
 - ✓ Click to Answer/Transfer
 - ✓ Outlook calendar integration
 - ✓ Presence
 - √VM Greeting
 - √ Call Forward
- Compatible across multiple platforms
 - ✓ Windows, Linux and Mac.



UNIVERGE SV9100 – A true UC Solution

- Desktop Suite now called UC Suite (UCS)
- Optional Web-based Client
- Improved look and feel
- Same features you love

- Increased TAPI
 - 512 users 3rd party





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Enhanced User Experience: Attendant

UC

e Attendant included

- Change Presence status for other users
- Monitor details of a user's active call
- Monitor Park Orbit bins
- Create multiple customizable BLF tabs
- Change Night Mode status
- Barge In
- Voice over
- Send phone messages to other users



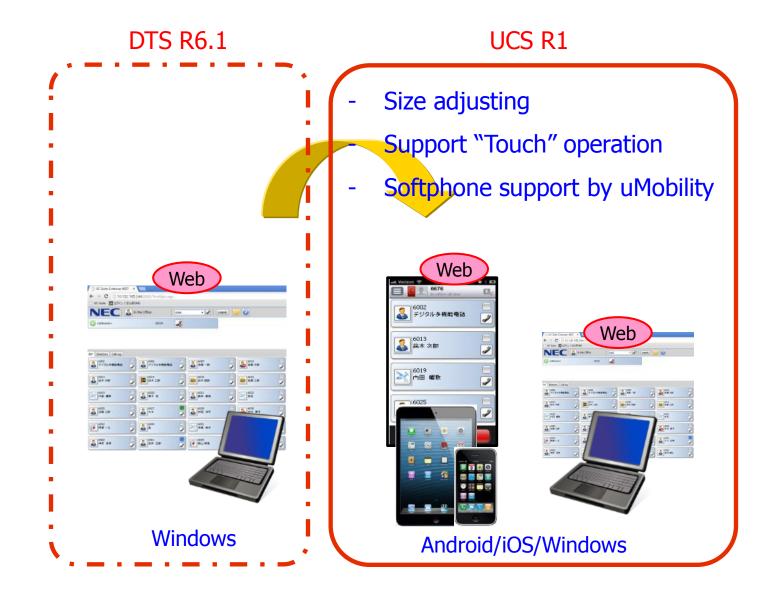


UC Suite (UCS): Enhancement List from DTS

Candidates

- 1. SV9100 Support
- 2. Windows8.1 Support
- 3. Mobile device support in Web Client
- 4. DT Client (FAT) (Presence/IM/Contact) on SV9100
- 5. Improve easy configuration on SV9100
- Brushing up Web Client (Easy launch by icon / Outlook add-in / New icons with text)
- 7. Others (Office2013 / New Presence Icons / Color Selection / Photo Uploads / UI Improvement)

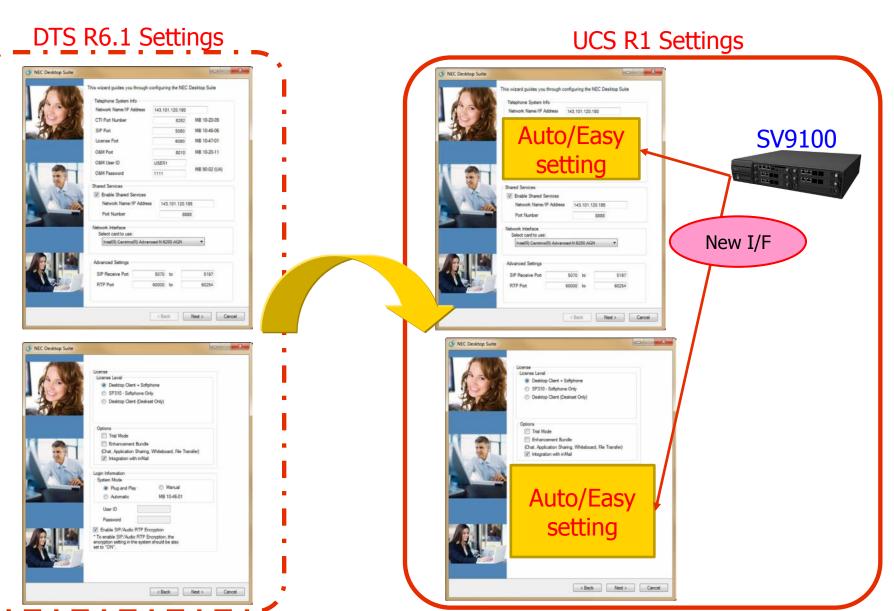
UCS Enhancement: Mobile Device Support by Web



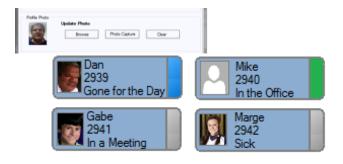
UCS Enhancement : DT Client

| | External server | Option board | CPU Built-in |
|---------------------|---|--|---------------------------------------|
| Type | SV8100 External server FAT Web Desktop Suite | SV8100 Option board In-Skin DTS Desktop Suite | SV9100 CPU Built-in UC Suite |
| Price | High(Need external server) | Middle (Need option board) | Low (No additional H/W) |
| Install/Maintenance | Difficult (Need external server maintenance) | Middle (Need board installation and maintenance) | Middle (Need FAT Client installation) |
| Max client | 512 | 512 | 128 |
| Features | Full features | Full features | Limited features |
| Web Client | Support | Support | In the future |

UCS Enhancement: Easy Configuration



UCS Enhancement: New Icon / Photo Uploads





In The Office



Out of the Office



Unavailable

- Associate a photo image with a user profile
- Display BLF layout with photos instead of Presence icons
- Include photo in IM window layout
- Supported in both FAT client and Web Client
- Icons
 - Addresses the issue of only showing Male images
 - Applies to Presence states for In the Office, Out of the Office, and Unavailable

UCS Enhancement: Color Selection







- Each user can customize the color scheme of the application
- Color selection applies to Window mode main form and IM window
- Supported in FAT Client



\Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

Empowered by Innovation

