Release Notes

UNIVERGE® SV8300

R6.0 Software Release

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1. Overview

NEC Corporation of America and the ***UNIVERGE*® SV8300** continues to provide new and enhanced features with the release of 8300 R6.0 series software. R6.0 revision software includes new and enhanced features that help to improve, simplify, and increase the functionality of the SV8300.

R6.0 new and enhancement features:

- **Failover:** Secondary (Failover) CPU is now available. When Primary CPU is down the secondary CPU will take over and control the remote network

- **VoIP Encryption:** Both the Voice (SRTP) and Control Messages (RTP) are encrypted. When a call is encrypted an ICON is displayed on the terminal's LCD

- **Mobility Access Enhancement:** Call Hold and Call Transfer operation from mobile phone

- **UCD Enhancement:** The number of UCD groups has been expanded from 16 to 100

- **Destination Number Check (Call Forwarding - Outside):** When Call Forwarding Outside the number is check for destination. Can be restricted on PSTB, but allowed in private network.

- **Bluetooth Hub Adapter (BHA) Unit Support:** DT330 - Interface for user-provided Bluetooth cordless headset

- **UM8000 Live Record Enhancement:** Live Recorded calls that are placed on hold or transferred are stored in one recorded message files

- **Dial Mask for Trunk Call – CCIS:** Upon call connection over CCIS any additional digits entered can be masked

- **PC Pro Enhancement:** ISDN Clock Receiving Status Check and CCIS/ISDN Wizard Enhancement

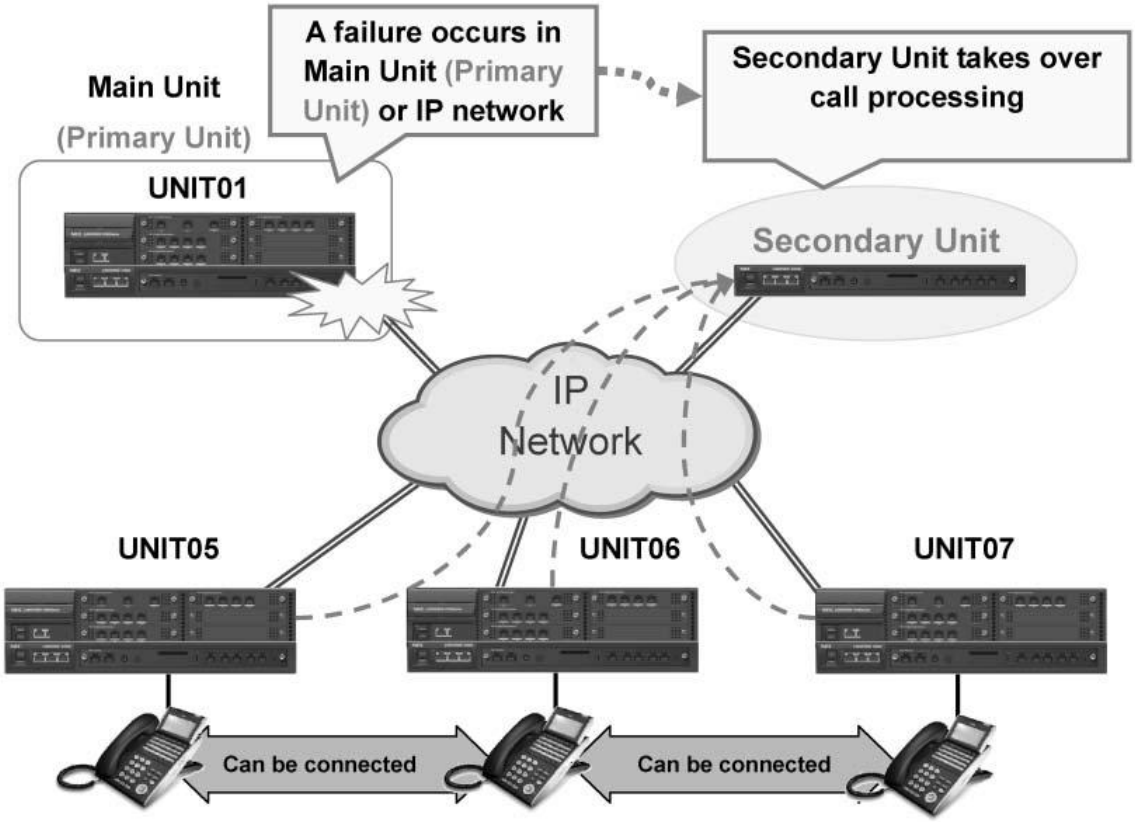
2. New and Enhanced Features to R6.0

2.1 Failover

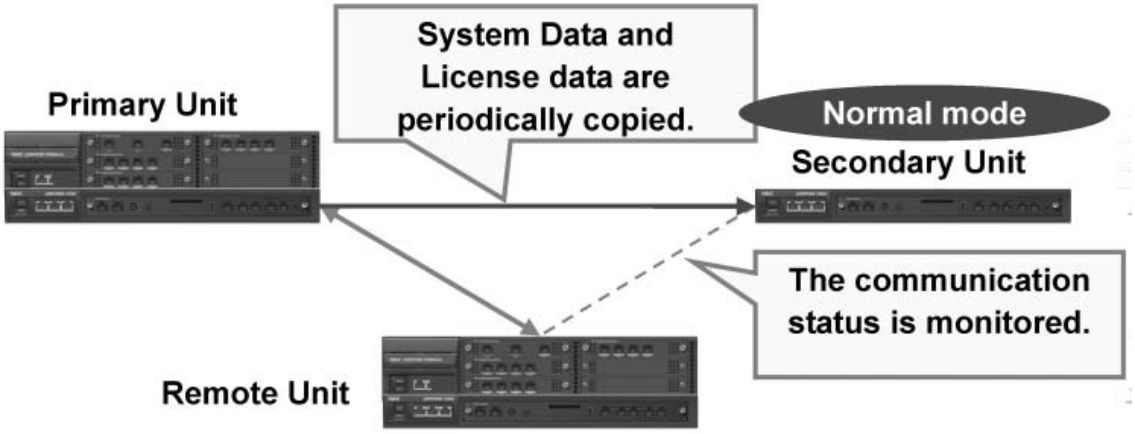
When SV8300 Units are installed at remote site, and connected to a SV8300 at main site over IP network, the Main Site system controls and maintains the Remote Units operation as one single system. If a communication failure occurs between the Main Site and Remote Site, the Remote Units are connected to Secondary Unit which controls Remote Units instead of the Main Site under Failover Mode.

Failover Definitions:

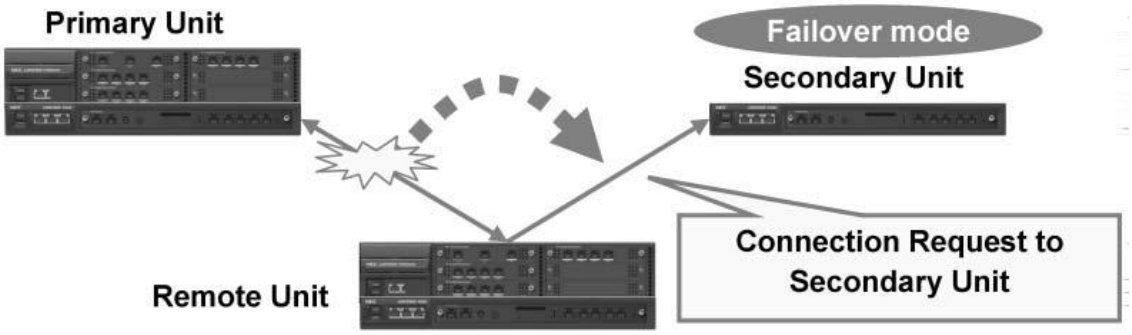
- **Primary Unit:** Unit 01 of Main System
- **Secondary Unit:** Can be Unit 05 to 50 (stand-by for Unit 01). CPU module that operates call processing in the event of communication failure between Main and Remote Units. Only one Secondary Unit can be installed in a system.
- **Remote Unit:** All Units (Unit 5 to 50) except for Main and Secondary Units
- **Normal Mode:** Primary Unit is operating normally as main system. The Secondary Unit is in a status of standby for Main Unit. In this condition, the Secondary Unit does not operate call processing.
- **Failover Mode:** Primary Unit fails or is not available; Secondary Unit operates as Primary Unit. The Secondary Unit is in a status of call processing operation for Remote Units.



Normal Mode Operation: When the Primary Unit works normally, the Secondary Unit is in Normal Mode and it does not operate call processing. In Normal Mode, the Secondary Unit monitors connection status between Remote Units and Secondary Unit itself and copies office data/license data from Primary Unit periodically.



Failover Mode Operation: If a communication failure occurs between the Main Site and Remote Site, Remote Unit automatically resets itself, and sends a connection request to the Secondary Unit. Then Secondary Unit goes to Failover Mode and starts controlling call processing of Remote Unit. In Failover Mode, the system data and license data copied during Normal Mode will be effective.



2.1.1 Required Software and Hardware

- R6.0 Version License Software
- SV8300 SIP Basic PKG (1U Chassis with 128 VOIP)
- Failover License (Provides for Secondary Failover)

Optional Failover Licenses (Failover defaults to 15 days)

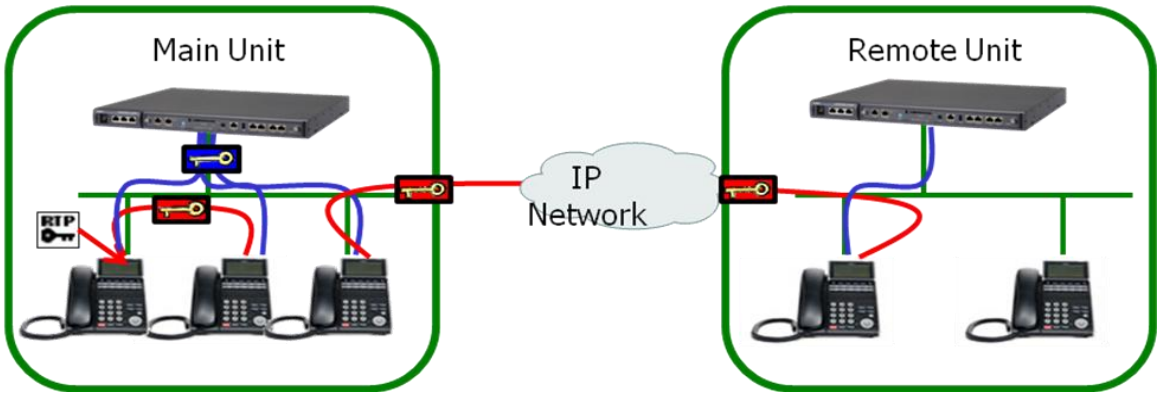
- Extended 30 Day-LIC (Allows Remote Network to stay in Failover for 30 days)
- Extended 60 Day-LIC (Allows Remote Network to stay in Failover for 60 days)

2.2 VoIP Encryption

The SV8300 has added VoIP Encryption with R6.0 version software. Privacy information, such as calling number and called number, can be easily acquired by analyzing the signal messages (SIP messages) transmitted between DT700 series and main system. Therefore, the signal is encrypted to provide secure communication. This feature provides a secure communication by enabling the following encryptions.

Voice Encryption (SRTP) for station-to-station calling between DT700 series
Feature provides encryption for Voice data (SRTP) for station-to-station calling between DT700 series within same unit or between multi units. And while an encrypted call is in progress, the icon indicating that the voice data is encrypted is shown on the terminal LCD until the call ends.

Signal Message (SIP message) Encryption for DT700 Series
Feature provides encryption for the signal messages (SIP messages) transmitted between DT700 series and main system. Since SIP message is not used as signal between main and remote units (NEC proprietary method is used), encryption is not provided. Encryption for the SIP message can provide even in Remote Unit in Survival Mode.



2.2.1 Required Software and Hardware

- R6.0 Version License Software
- VoIP Encryption System License

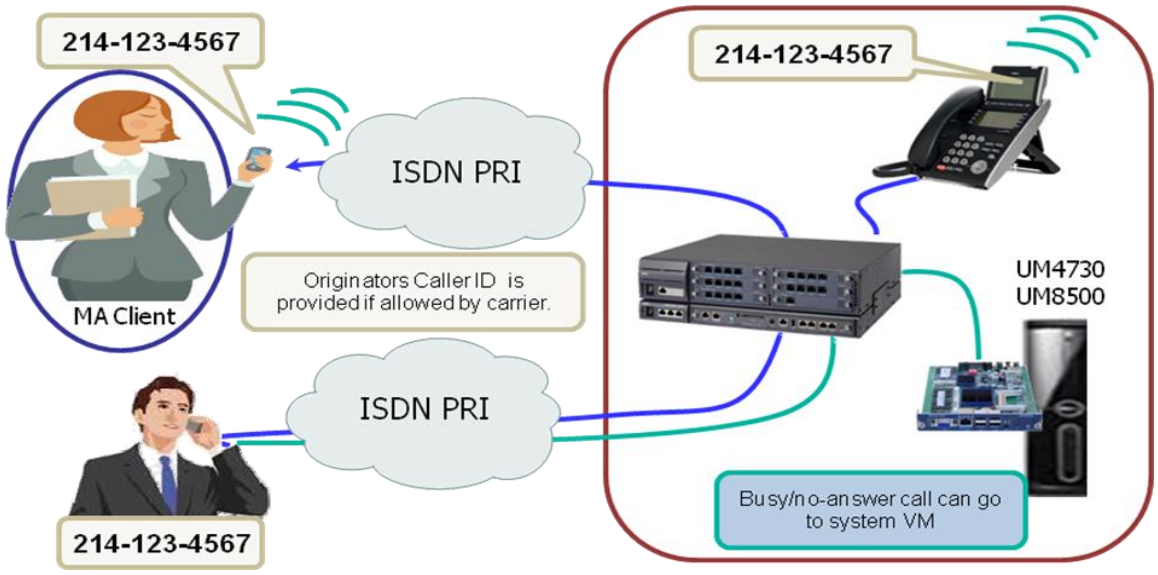
2.3 Mobility Access Enhancements

With R6.0 version software the SV8300 continues to provide enhancements to service features for Mobility Access. Mobility Access (MA) feature including enquiry calls and activation/deactivation by a user. This feature allows a user to make/receive telephone calls from a remote location via the SV8300, as if the user does from their desk phone.

With R5.0 Mobility Access was enhanced with:
Dual Ringing (Twinning): Both mobile phone and station ring and when either answers the other stops ringing.

Caller ID Pass Through: The enhancement provides Caller ID Pass Through to send the original Caller ID from ISDN trunk to the carrier network and display on the mobile phone.

System Voice Mail: Call Forward-No Answer call will go to system VMS.

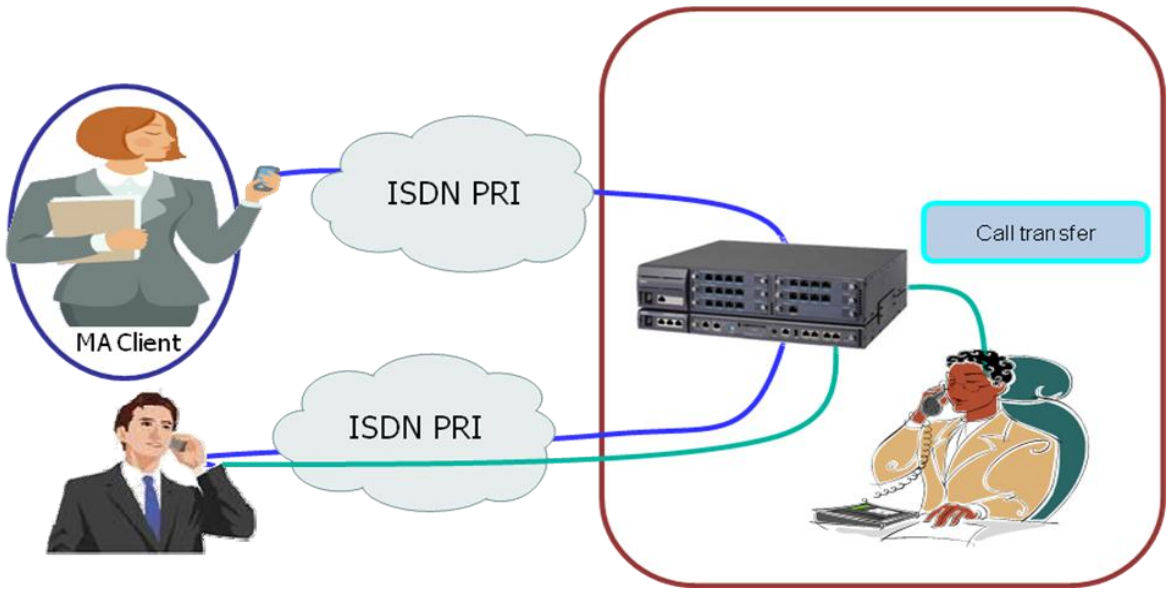


With R6.0 enhancement has been made to **Hold** and **Call Transfer** operation form mobile phone, **Station Service Activation**, and allows multiple carries for MA forwarding.

Hold/Call Transfer: A remote MA user can activate hooking and Hold/Call Transfer during the conversation of MA call.

Station Service Activation from mobile phone: The station services that can be activated from a mobile phone are as follows.

- Call Forwarding-All Calls set/cancel (same as before)
- Call Pickup (Direct. Group, Designated Group)
- Call Park-Tenant answer
- Station Speed Dialing
- System Speed Dialing
- Setting and canceling of Call Forwarding-Busy Line/No Answer



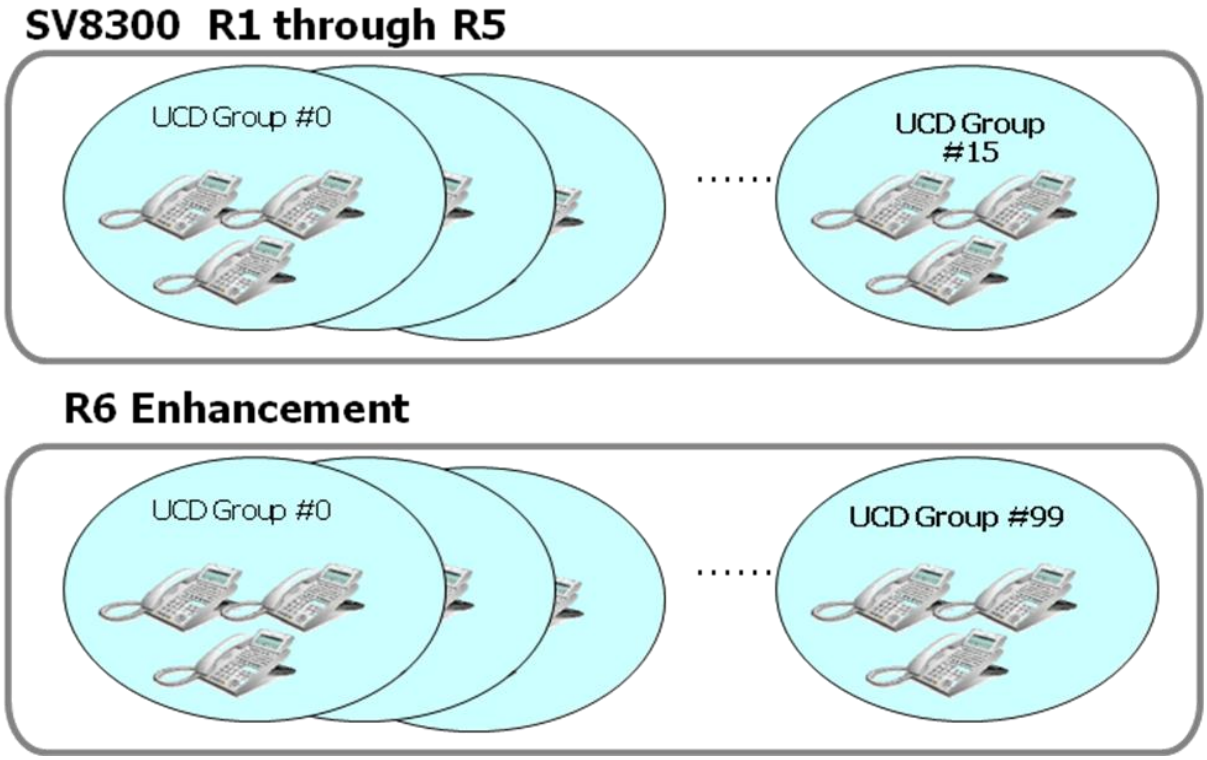
2.3.1 Required Software and Hardware

- R6.0 Version License Software
- MA User License

2.4 UCD Enhancements

The Uniform Call Distribution (UCD) feature permits incoming calls to terminate to a prearranged group of stations. Calls are distributed in the order of arrival to idle terminals within the group, based on which terminal has been idle the longest period of time.
With Applications using UCD becoming more frequent, there is a need to expand current UCD groups. The number of UCD groups has been expanded from 16 to 100. Independent UCD group can be configured for each Remote Site. And a group can be flexibly divided to smaller groups according to the user's business style.

Previously a separate announcement was used for each UCD group. Now with R6.0 software the same announcement can be sent to more than one UCD Group.



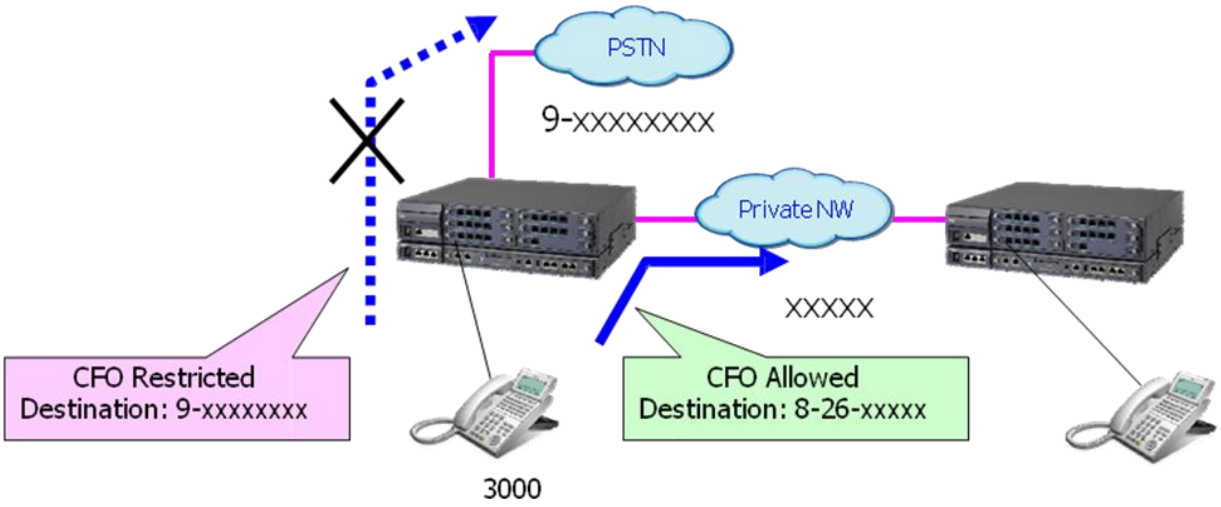
2.4.1 Required Software and Hardware

- R6.0 Version License Software

2.5 Destination Number Check (Call Forwarding-Outside)

Call Forwarding - Outside setting can be restricted according to the forwarding destination number. With R6.0 enhancement, the forwarded call can be allowed or restricted depending on the connection.

CFO – PSTN call is restricted
CFO – Private Network call is allowed

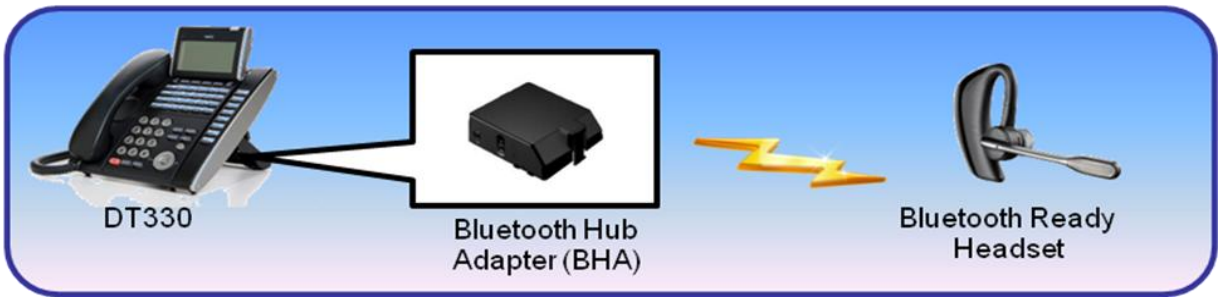


2.5.1 Required Software and Hardware

- R6.0 Version License Software

2.6 Bluetooth Hub Adapter (BHA) Unit Support

DT330 – Interface for user-provided Bluetooth cordless headset.



2.6.1 Required Software and Hardware

- R6.0 Version License Software

2.7 UM8000 Live Record Enhancement

In R5 Live Recorded calls that were placed on hold or transferred were stored in two recorded message files. On with R6.0 enhancement Live Recorded calls that are placed on hold or transferred are stored in one recorded message files.

Even if a call is placed on hold or transferred during live recording, the recordings can be combined to one message file. This allows the user to retrieve the voice mail by simple operation and comprehend the whole conversation easily.

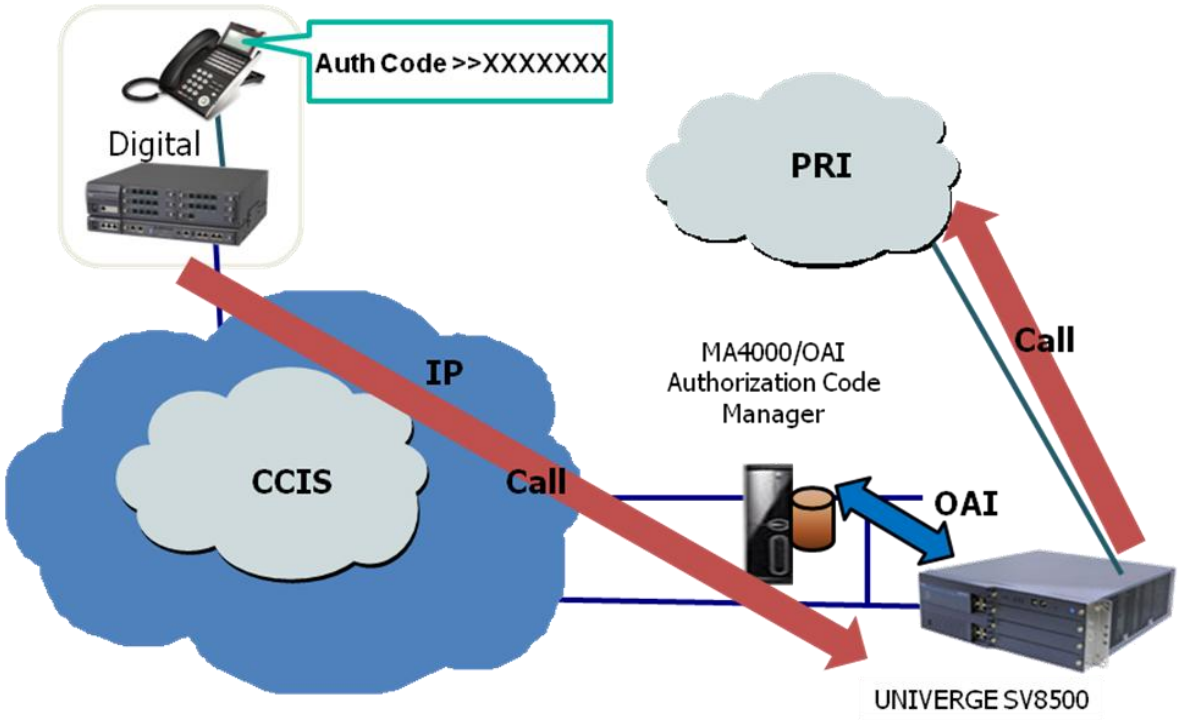
2.7.1 Required Software and Hardware

- R6.0 Version License Software

2.8 Dial Mask for Trunk Call - CCIS

With the Dial Mask for Trunk Call - CCIS feature allows dialing numbers to mask with asterisk on DT300/DT700 LCD of the terminal while CCIS trunk call is being established.

For example, when ID code input is required on an ID Code Authentication Manager in the distant office via CCIS trunk, this feature can mask the entered ID code with asterisk (*) on the LCD of Multiline Terminal to conceal the ID code.



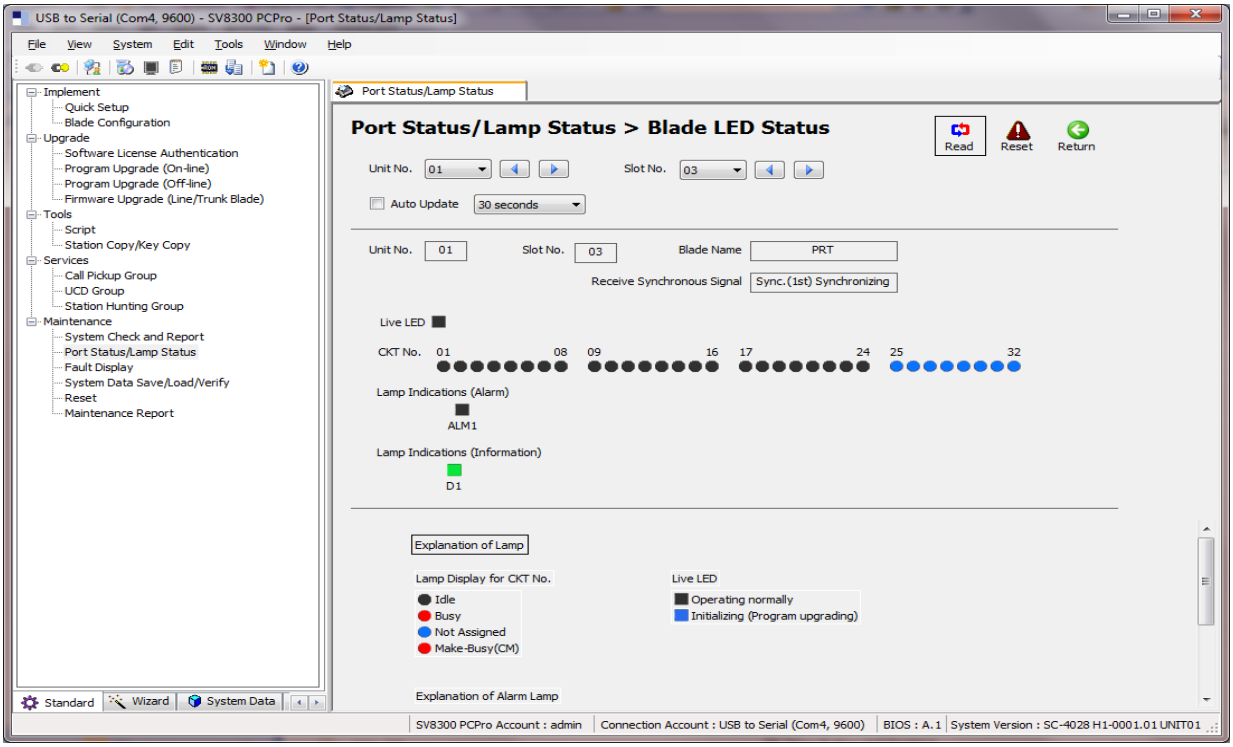
2.8.1 Required Software and Hardware

- R6.0 Version License Software

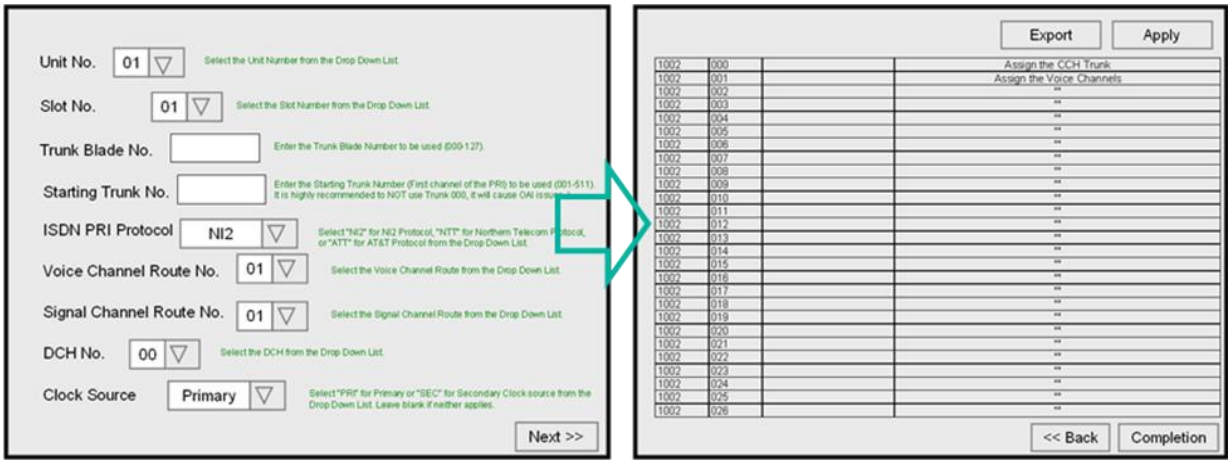
2.9 PC Pro Enhancements

SV8300 continues to provide enhancements to PC Pro R6 (x)

- ISDN Clock Receiving Status Check



- CCIS/ISDN Wizard Enhancement: CCIS/ISDN system data setting wizard mode is enhanced to allow system data to be exported to a script file. This allows system data settings and changes to be made in the off line mode, then loaded at a later time into the system.



2.9.1 Required Software and Hardware

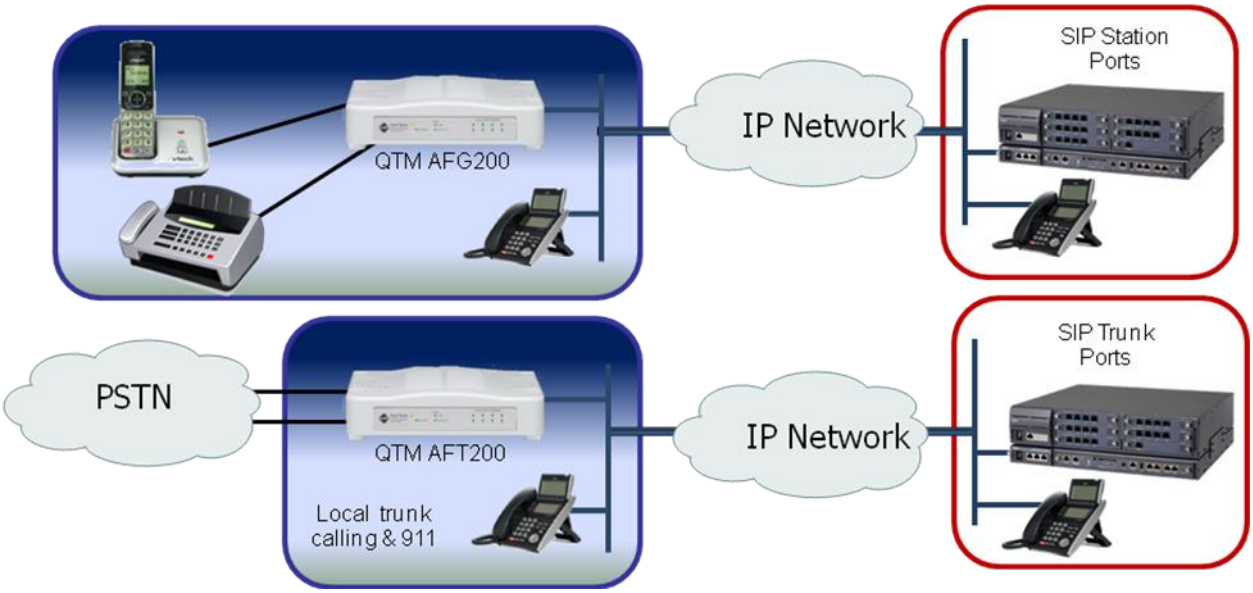
- R6.0 Version License Software
- PC Pro (R6)

2.10 Quintum Gateways (Available in MQ June 2011)

SV8300 supports Quintum Tenor AF Series Gateways. These are low cost applications for geographically dispersed IP stations.

Tenor AF Series

- Analog VoIP Gateway
  - 2 Port FXS
  - 2 Port FXO



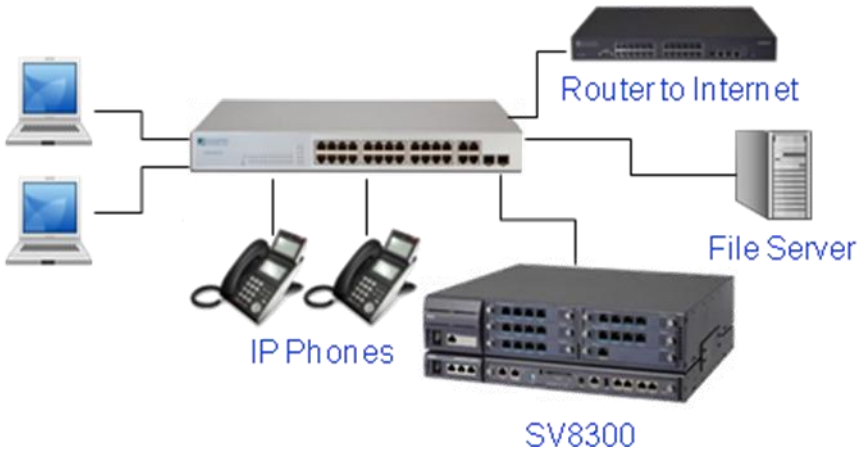
2.10.1 Required Software and Hardware

- Standard SIP License
- SIP Trunk System License
- SIP Trunk Channel License
- System Port Licenses

2.11 EdgeConnect 2402 PoE (Available in MQ March 2011)

The EdgeConnect 2402 Power over Ethernet Switch (PoE) is a flexible, easy-to-use, managed power over Ethernet LAN switch that is ideal for converged voice, video and data applications. The switch provides a broad range of powerful features for Layer 2 switching, delivering reliability and consistent performance for your network traffic. With EdgeConnect 2402PoE switch, you can bring order to poorly performing networks by segregating them into separate broadcast domains with IEEE 802.1Q compliant VLANs, and empower multimedia applications with multicast switching and CoS services.

- EdgeConnect 2402 PoE Switch
- SMB Product Group
- Complete Solution
- 802.1Q VLANs
- 24 x 10/100 Mbps auto-sensing Ethernet ports
- 2 x 10/100/1000 Mbps uplink or high speed server ports
- Up to 12.8 Gbps aggregated throughput with full wire speed forwarding.



Software and Hardware

Part Number	Description	Comments
Software - New and Enhancements		
670993	**LS-SYS-R6-LIC**	**SV8300 System Version License R6.0** Version License loads the following built-in settings in to the main site CPU (UNIT 1): - 108 System Port Licenses - 32 Dterm SIP Licenses - 16 VoIP PAD Channels - 32-Party Conference (8 ports default) - SMDR System Wide License - ISDN System Wide License
670995	**LS-SYS-FAILOVER-LIC**	Provides for Secondary Failover Associated with Failover CPU PKG
690919	**LS-SYS-FORM 30 DAYS-LIC**	Allows Remote Unit Network to stay in Failover mode for 30 days.
690920	**LS-SYS-FORM 60 DAYS-LIC**	Allows Remote Unit Network to stay in Failover mode for 60 days.
670994	**LS-FEA-VOIP ENCRYPTION-LIC**	VoIP Encryption - Both Voice (SRTP) and Control Messages (RTP) are Encrypted
670768	**LS-NW-MA-LIC**	Mobile Access (MA) License - One required for each terminal using the Mobility Access Feature
670833	**AS System PC APP-CD**	SV8300 PC Pro (R6)

NOTE: *These release notes are provided as a quick reference of R6.0 enhancements and may not cover all service and operation conditions. The UNIVERGE® SV8300 Features and Specifications document should be referenced for detailed information about each feature and enhancement before discussion and implementation.*

Technical Documentation

Description	Revision
SV8300 Hardware Manual	5.0
SV8300 Command Manual	7.1
SV8300 Programming Manual	7.1
SV8300 Networking Manual	7.1
SV8300 System Manual	7.1
SV8300 PC Programming Manual	6.0
SV8300 System Data Programming	6.0
SV8300 System Maintenance Manual	5.0
SV8300 Business/Hotel Feature & Specification	6.0
SV8300 SMDR-MCI-PMS Specification	3.0
SV8300 ISDN/Q-SIG Feature & Specification	6.0
SV8300 CCIS Feature & Specification	6.0
SV8300 WCS Feature & Specification	5.0
UM8000 Installation Guide	4.0
InRouter Configuration Guide	1.0
PoE Gigabit Switch Configuration Guide	2.0
SV8300 Parts & Price Book	8.0