NEC

Release Notes

NEAX®2000 IVS²

Business / CCIS

2300 Series Software R4.1 Release

NEC

1. Overview

2300 Series R4.1 Software introduces new features and hardware to the NEAX®
2000 IVS^2 platform and provides enhancements to the existing feature set.

2. New Business Features

2.1 CID Call Back – This feature provides the ability to automatically store up to 24 calling party numbers. Feature also provides the ability to search, call back and erase the stored numbers via soft-keys. Up to five outgoing numbers can be saved and up to 19 unanswered numbers can be saved. Unanswered calls can light the Message Reminder Feature Key as a notification of unanswered calls. Numbers can be searched via soft-keys, called back and erased.

2.1.1 *Required Software & Hardware* – (150492) 48-Port System Software 2300 Series R4.1 (FD). 512 numbers can be stored without memory expansion card (PZ-M537). By using the memory expansion card a total of 1024 numbers can be stored in the system.

2.1.2 *Typical Application* – Provides a convenient way for small business and larger systems with limited deployment to search and call back missed calls.

2.2 CS/ZT Peg Count – This feature allows displaying of Peg Count data and traffic data for CS/ZT on MAT. Peg Count data displayed: Number of call origination, number of call termination, number of location registration and number of hand-over. Traffic data displayed: Percentage of B-Channels all busy per hour in each CS/ZT, traffic volume in each CS/ZT.

2.2.1 *Required Software & Hardware* – (150492) 48-Port System Software 2300 Series R4.1 (FD)

2.2.2 *Typical Application* – Provides a way to determine whether or not the number of installed CS/ZT is enough to handle the traffic in that area, by measuring traffic data of CS/ZT.

2.3 Common Routing Table for Incoming ANI/ISDN/Analog CID – This feature provides routing tables to designate a call termination system by the calling party number received by ANI / ISDN / Analog Caller ID.

2.3.1 *Required Software & Hardware* – (150492) 48-Port System Software 2300 Series R4.1 (FD)
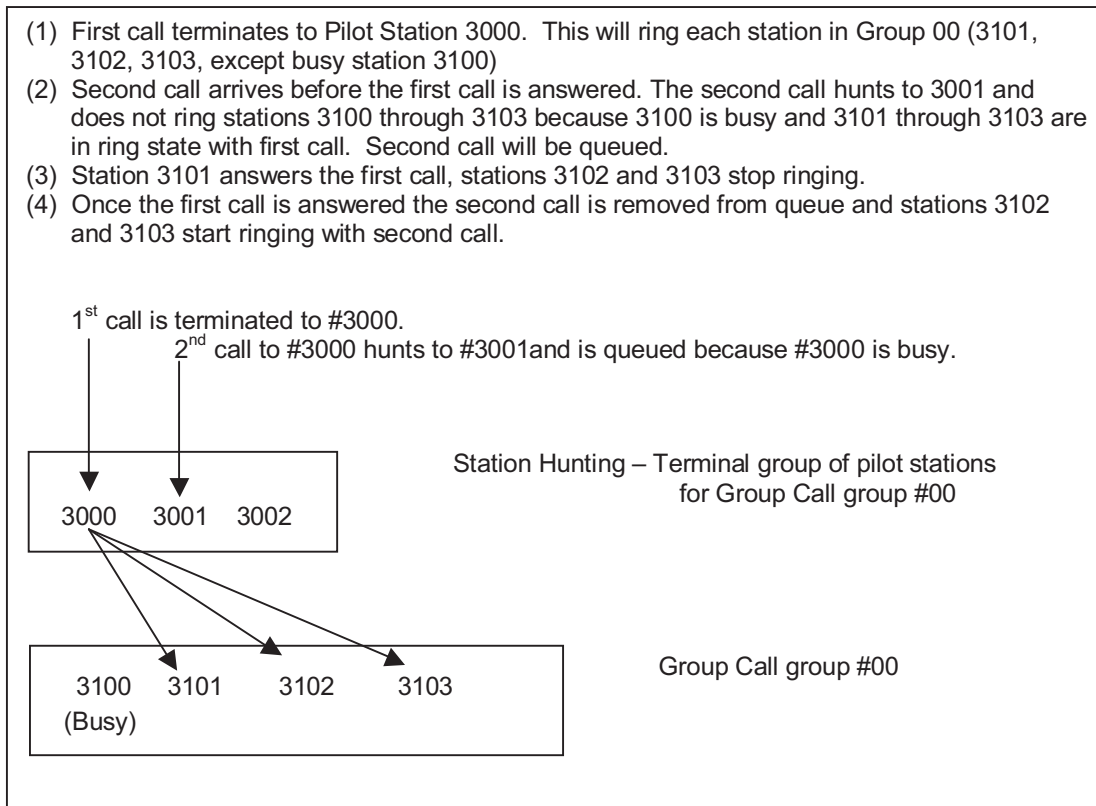
NEC

2.3.2 *Typical Application* – Provides a caller with enhanced services and improves call handling efficiency by connecting an incoming call from ANI / ISDN / Analog Caller ID trunks to the appropriate station based on the calling party number or call originating area.

2.4 <u>Group Call by Pilot Number Dialing</u> – This feature enables a station or trunk to ring/call a group of stations (up to 32) simultaneously via termination to a Group Call pilot station number. When the call is answered by one of the stations in the group, two-way calling is established between the answering party and the calling party and ringing to all other stations in the group stops. A multiline terminal my-line, PSII L1, virtual line and/or single line telephone may be registered in a Group Call group. (SPN-CFTC is not required for this feature.) Maximum 20 groups allowed per system, 32 stations per group.

2.4.1 *Required Software & Hardware* – (150492) 48-Port System Software 2300 Series R4.1 (FD)

2.4.2 *Typical Application* – A station can simultaneously call a group of stations (up to 32).

Example:

(1) First call terminates to Pilot Station 3000. This will ring each station in Group 00 (3101, 3102, 3103, except busy station 3100)
(2) Second call arrives before the first call is answered. The second call hunts to 3001 and does not ring stations 3100 through 3103 because 3100 is busy and 3101 through 3103 are in ring state with first call. Second call will be queued.
(3) Station 3101 answers the first call, stations 3102 and 3103 stop ringing.
(4) Once the first call is answered the second call is removed from queue and stations 3102 and 3103 start ringing with second call.

1st call is terminated to #3000.

2nd call to #3000 hunts to #3001and is queued because #3000 is busy.

| 3000 | 3001 | 3002 |

Station Hunting – Terminal group of pilot stations
for Group Call group #00

| 3100 (Busy) | 3101 | 3102 | 3103 |

Group Call group #00

NEC

3. Enhanced Business Features

3.1 <u>VM Integration</u> – This enhancement allows the coexistence of MCI and DTMF signaling in one system. Each application will be according to the choices for Voice Mail stations.

3.1.1 *Previously* – The type of Voice Mail system had to be chosen as either MCI or DTMF. The two integrations could not coexist in the same system.

3.1.2 *Typical Application* – This will allow both types of integrations to be utilized in the same system. Example – Voice Mail using MCI integration and IVR using DTMF integration.

3.2 <u>UCD/ATT Overflow</u> – This enhancement enables an incoming call to forward to a outside number or station in another office when the incoming call encounters UCD Delay Announcement or Attendant Delay Announcement when Attendant is not able to answer in a predetermined time period.

3.2.1 *Previously* – If a call terminates to a UCD group while all stations are busy or while all Attendant consoles are busy, a caller had to wait to be answered.

3.2.2 *Typical Application* – Allows a call to a UCD group or Attendant that is busy to be forwarded outside (over CCIS or PSTN) to an alternate answering location.

3.3 <u>Wake Up Call</u> – This enhancement will allow an announcement to be heard if the number of wake up calls exceeds the preset number of calls set at the same time. DAT trunks (built-in on MP, PN-4DATC, or PN-2DATA) are used for announcements. If DAT is not assigned or system data of the announcement is not assigned or if all DAT trunks are busy, reorder tone will be heard.

3.3.1 *Previously* – If wake up call could not be set before the preset time , reorder tone was heard by the setting Attendant or Front Desk Instrument.

3.3.2 *Typical Application* –Hotel/Motel applications; this will help Attendant and Front Desk Instrument users understand more clearly when too many wake up calls have been set for the same preset time.

3.4 <u>Expansion of DID Digit Conversion Table</u> – This enhancement provides additional DID digit conversion table and the table can be selected by trunk route. The additional table allows digit conversion of 8-digit received DID numbers.

3.4.1 *Previously* – The DID digit conversion tables allowed up to 4 digits of received DID numbers.

NEC

3.4.2 *Typical Application* – The switch is able to provide a more flexible numbering plan for DID service. When the system accommodates the DID lines from multiple carriers and the digit conversion tables are assigned by trunk route, the system can route the different station number even if the last 4 digits of the received DID numbers from the different trunk route (carrier) are the same. For example, using the additional table allows a distinction between the received DID number of 851111 and 861111.

3.5 ISDN/PRI Call by Call Service Selection – This enhancement enables the system to send Transit Network Selection Information Element and up to a 5-digit Network ID to the ISDN Network.

3.5.1 *Previously* – The switch did not have the ability to send Network Specific Facility Information Element and only sent a 3 digit Network ID to an ISDN Network using Call-by-Call Service.

3.5.2 *Typical Application* – The system has more flexibility when using ISDN/PRI with Call-by-Call Selection.

3.6 AP00B Default Data – This enhancement defaults RS0 as SMDR with 2400 IMS Format for outgoing calls when the AP00B card is defaulted and initialized.

3.6.1 *Previously* – When the AP00B was defaulted and initialized none of the RS ports on the card had default settings. SMDR had to be hand keyed into the system

3.6.2 *Typical Application* – This is the same default SMDR setting as the AP00 on the NEAX 2000 IVS.

4. New CCIS Features

4.1 CCIS Busy Lamp Field (BLF) – This feature provides a busy status indication of the predetermined stations within the CCIS network. The visual indication is provided with a red LED associated with each DSS button on the DSS/BLF Console and Multiline Terminal One-Touch Keys. Pressing the DSS button allows a direct access to the preprogrammed station within the CCIS network.

4.1.1 *Required Software & Hardware* - (150492) 48-Port System Software 2300 Series R4.1 (FD)

4.1.2 *Typical Application* – Network application that provides visual indication that a station located at another site is on the telephone.

NEC

4.2 <u>CCIS VM Password Mask</u> – This feature prevents the displaying of the password on the LCD and displays **** instead when connecting to VM via CCIS.

4.2.1 *Required Software & Hardware* - (150492) 48-Port System Software 2300 Series R4.1 (FD)

4.2.2 *Typical Application* – Network application allows a station in the remote site to mask the VM password on the LCD when accessing VM box to retrieve messages over CCIS.

4.3 <u>CCIS Alternate Routing for IPT</u> – This feature provides Alternate Routing from IP trunks to other trunks (T1/ISDN) when the IP trunks (CCIS over IP) do not receive the response in a specified time (the IP trunk judges the line failure).

4.3.1 *Required Software & Hardware* - (150492) 48-Port System Software 2300 Series R4.1 (FD)

4.3.2 *Typical Application* – Network application allows calls between sites to use alternate routing when the data network or intranet is not available.

5. Enhanced CCIS Features

5.1 <u>Caller ID Analog Station over CCIS</u> – This enhancement allows Caller ID Analog Stations to receive ISDN Calling Party Number (CPN) over CCIS.

5.1.1 *Previously* – Caller ID Analog stations could not receive ISDN Calling Party Number via CCIS.

5.1.2 *Typical Application* – Network application provides Caller ID Analog station the ability to receive CPN from incoming ISDN call over CCIS.

6. New Software

6.1 (150492) 48 Port System Software - 2300 Series R4.1 (FD): Required for new system sales and to upgrade existing systems to 2300 Series R4.1 Software.

6.2 (150452) AP00B MRC-C (FD): Flash ROM upgrade for (151280) SPN-AP00B MRC-A. Provides SMDR Resident Program on RS0 Port.

NEC

6.3 (150453) 24PRTA-C (FD): Flash ROM upgrade for SPN-24PRTA-B (150134). Provides firmware for *built-in CSU.*

6.4 (150454) 24DTAC-B (FD): Flash ROM upgrade for SPN-24DTAC-A (150123). Provides firmware for *built-in CSU*.

7. New Hardware

7.1 (151231) SPN-24PRTA-C (AP): 24-Channel PRI Trunk Interface with D-Channel Handler (DCH) and *built-in CSU* combined on one card. This card provides an optional built-in CSU that is enabled and disabled via a dipswitch. Replaces (150134) SPN-24PRTA-B.

7.2 (151232) SPN-24DTAC-B (AP): 24-Channel T1 Digital Trunk Interface and *built-in CSU* combined on one card. This card provides an optional built-in CSU that is enabled and disabled via a dipswitch. Replaces (150123) SPN-24DTAC-A.

7.3 (151229) SPN-AP00B MRC-C (AP): The card provides *SMDR Resident Program* on RS0 Port (same as the NEAX 2000 IVS). This card replaces (151280) SPN-AP00B MRC-A.

7.4 (151233) SPN-SC03B 8ICH (AP): D-Channel Handler for ISDN BRI station. This card replaces (150229) SPN-SC03A 8ICH.

8. New Issue Documentation

8.1 (151969) NEAX 2000 IVS2 Command/Maintenance Manual (Issue 4)

8.2 (152032) NEAX 2000 IVS2 Feature Programming Manual (Addendum 3.1)

8.3 (151998) NEAX 2000 IVS2 Installation Procedure Manual (Issue 4)

8.4 (151987) NEAX 2000 IVS2 CCIS System Manual (Issue 4)

8.5 (151988) NEAX 2000 IVS2 ISDN System Manual (Issue 3)

8.6 (152018) NEAX 2000 IVS2 IP System Manual (Issue 3)

8.7 (151989) NEAX 2000 IVS2 WCS System Manual (Issue 4)

8.8 (152001) NEAX 2000 IVS2 Office Data Programming Manual (Issue 4)

8.9 (152007) NEAX 2000 IVS2 Bus./Hotel/Data/Feat. & Spec. Manual (Issue4)

8.10 (152008) NEAX 2000 IVS2 CCIS Features & Spec. Manual (Issue 4)