

Release Note

NEAX[®] 2000 IVS

Business

1700 Series Enhancements Second Software Release

1.0 Overview

The second release of 1700 Series Software provides additional enhancements to the evolution of the **NEAX[®] 2000 IVS**. 1700 Series Software offers unique features such as Remote PIM and Back-Up CPU which up until now could not be found in Small PBX's and Key Systems. Additional features such as BRI Trunk and French Prompts on the Dterm LCD provide powerful business tools and open new markets for the **NEAX[®] 2000 IVS**.

2.0 New Business Features and Hardware

2.1 Remote PIM - Provides the ability to link one to three sites for advanced communications needs. Full feature transparency including busy lamp field across the network, trunk and station line appearance across the network, ACD agents across the network. The remote Dterm or single line station share all the features with Dterms in the main system including Voice Mail, Call Accounting, Property Management System, CTI, OAI, ACD etc.. 1700 Series software enhancement is the first release of Remote PIM that provides 23 ports (stations or trunks). In the event that the communication link between the main system and the Remote PIM is interrupted, the Remote PIM if equipped with local trunks will automatically activate Power Fail Transfer unit (PFT) (Note PFT unit is optional).

2.1.1 Required Hardware - PN-DAIA, PN-DAIB. The PN-DAIA mounts in an AP slot in the main system (PIM-UB with CP00/B & 512 port software or CP03 & 320 port software). The PN-DAIB mounts in the MP slot of the Remote PIM (PIM-UB or PIM-Q). The PN-DAIA has a built in Firmware Processor (FP)(each PN-DAIA reduces the FP count by 1) and built in T1. The PN-DAIB has a built in T1. Maximum of three PN-DAIA can be mounted per system, in addition you can still have 120 T1 trunks. Also, with three PN-DAIA cards you still have twelve Application Processor positions available for the system.

2.1.2 Typical Application - Business, Hotel Motel, Multi-tenant and Networking applications where there is a main location with one to three remote locations. (example; Hayes manufacturing facilities 10 miles across town is connected to Hayes Inc. main office via Remote PIM. Also, Hayes warehouse facilities at the airport 50 miles away is connected to Hayes Inc. main office via a second Remote PIM).

2.2 Back-Up CPU - The NEAX2000 IVS Back-Up Main Processor (MP) System employs duplicated processing, in the event of active (MP00) failure, the system automatically changes the active (MP00) to standby (MP01) to ensure system operation.

Active and Standby Changeover (Cold Standby)

- MP00 used as active, MP01 as standby. Automatic changeover MP00 to MP01. No automatic changeover from MP01 to MP00.
- Automatic change over occurs in the event of MP00 COP Alarm or Endless Loop condition.
- Make busy switch on the MP card can be used for manual changeover.
- Change over time is estimated at one to two minutes depending on configuration.
- Established calls and processing functions are discontinued during changeover.

System Data Copy

System Data is stored in active MP(MP00), this data is copied to the standby MP (MP01) automatically once a day for example at 2:00 am. Traffic handling is reduced during copy function.

Note: In the event of switch over from MP00 to stand by MP01 the system status and functionality (features set by station) will be the same as it was when System Data Copy occurred. (example; if System Data Copy to MP01 occurred at 2:00 am when the system was in night mode, then switch over MP00 to MP01 takes place at 1:00 pm, when MP01 comes on line the system will be in night mode).

2.2.1 Required Hardware - Back-Up CPU Package, which includes PIM-H, two CP02(MP) cards with cable and two copies of Large 64/Upgrade 1710 (FD) software. If more than 64 ports are required additional hardware consisting of PIM-UB, required cards and two copies of either Large 512 /Upgrade1720 (FD) or Large 512 /Upgrade 1730 (FD) must be purchased.

2.2.2 Typical Application - Comply with RFP requiring Back-Up CPU. Business applications, small Hospital and Medical Clinic requiring back up capabilities.

2.3 ISDN BRI Trunk - Provides connectivity for Voice, High Speed Data, Switched Video and G4 FAX calls to be placed and received via ISDN Basic Rate (BRI) to the ISDN Network. Each BRI card provides (1) 2B+D circuit. Each B Channel provides 64K bps.

2.3.1 Required Hardware - SPN-BRTA-C (AP), has built in DCH (D Channel Handler). The SPN-BRTA-C has a ST interface, a locally provided NT1 device is required to connect to the ISDN Network.

2.3.2 Typical Application - One BRI trunk provides two incoming/outgoing voice connections and (or) two 64k bps channels for high-speed data.

3.0 Enhanced Business Features & Hardware

3.1 French Prompts on Dterm LCD - Provides French Prompts on the Dterm LCD Display. This is accomplished on a system wide basis.

3.1.1 Enhancement - Previously only English was supported.

3.1.2 Typical Application – French Canadian market and customers requiring French Prompts.

3.2 ISDN BRI (Station) & SPN 8ICH- Provides connectivity for High Speed Data, Switched Video and G4 FAX calls to be placed and received via ISDN Primary Rate (PRI) or ISDN Basic Rate (BRI) trunks. Each BRI station card provides two 2B+D circuits. Three BRI station circuits connected to an Inverse MUX (I-MUX) can provide 384K bps of switched video. One BRI circuit connected to a PC (e.g. IBM Wave Runner board, PCIMA or ISABUS mounted in PC) can provide two switched 64K bps for Data calls or Internet access.

3.2.1 Previously - One SPN-2ICH and one PN-2ILC must be used for every 1 or 2 circuits of BRI required.

3.2.2 Enhancement – One **SPN-8ICH** will support up to four PN-2ILC cards.

3.2.3 Typical Application - PC's equipped with ISDN Desk Top Conference (Intel ProShare etc.) can take advantage of video and share documents, station to station in the same system or via CCIS or via ISDN PRI to PC users in other systems.