

Release Notes

UNIVERGE* NEAX[®] 2000 IPS *Family of Products

Business / CCIS / ISDN

3700 Series Software R12.1 Release

1. Overview	3
2. New Modular Chassis	3
2.1 UNIVERGE NEAX [®] IPS DM/DML/DMR	3
2.1.1 Benefits	3
2.1.2 Required Software and Hardware.....	3
3. New Features.....	3
3.1 Live Record over CCIS	3
3.1.1 Benefits	3
3.1.2 Required Software and Hardware.....	3
3.2 Network Address Translation (NAT).....	3
3.2.1 Benefits	3
3.2.2 Required Software and Hardware.....	3
3.3 Mobility Access	3
3.3.1 Benefits	3
3.3.2 Required Software and Hardware.....	3
4. Enhanced Features	3
4.1 Remote PIM Over IP – Expansion.....	3
4.1.1 Benefits	3
4.1.2 Required Software and Hardware.....	3
4.2 Dterm Attendant Position Enhancements	3
4.2.1 Benefits	3
4.2.2 Required Software and Hardware.....	3
5. Software and Hardware.....	3
6. Technical Documentation.....	3

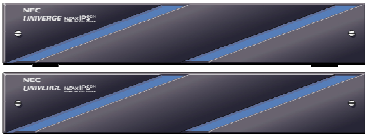
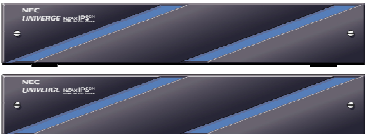
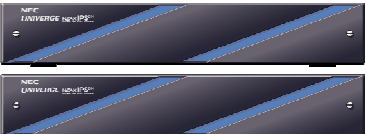
1. Overview

The **UNIVERGE NEAX 2000 IPS** provides new and enhanced features with the release of 3700 Series R12.1 Software. A short description of 3700 Series R12.1 Software new features and enhancements are outlined in the following pages. Please note that these release notes are provided as a quick reference of R12.1 enhancements and may not cover all service and operation conditions. The **UNIVERGE NEAX 2000 IPS** Features and Specifications document should be referenced for detailed information about each feature and enhancement before discussion and implementation.

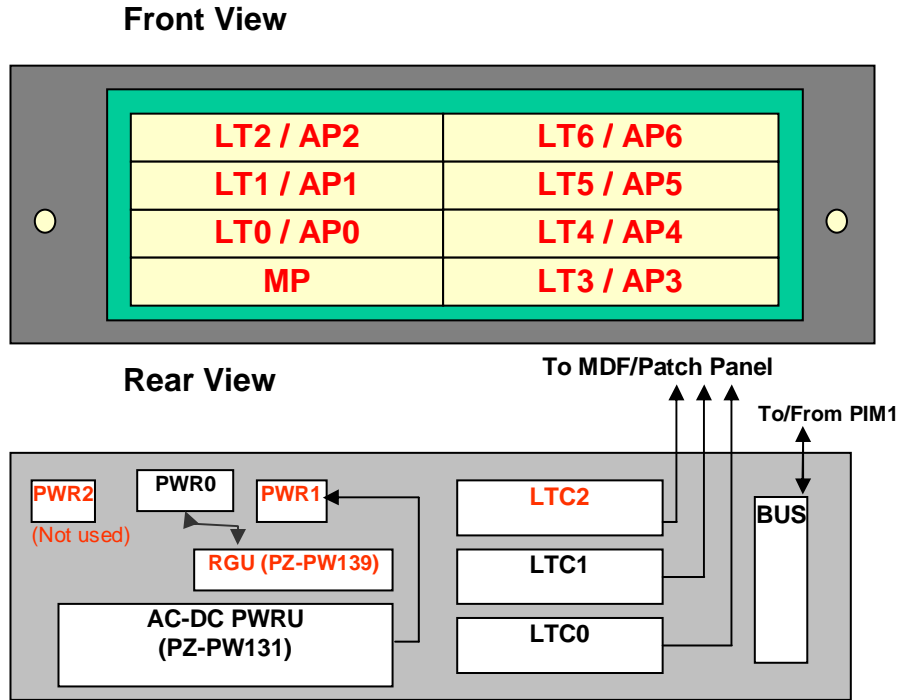
2. New Modular Chassis

2.1 UNIVERGE NEAX®IPS DM/DML/DMR

The **UNIVERGE NEAX®IPS DM/DML/DMR** Chassis has been enhanced to provide 2 additional card slots while maintaining its 2RU (Rack Unit) foot print. The new chassis provides 8 card slots including one card slot for the Main Processor (MP) and 7 slots for Line Trunk (LT)/Application Processor (AP) cards; 56 LT ports and 8 virtual LT ports for a total allocation of 64 ports per Modular Chassis. The **UNIVERGE NEAX®IPS DM** is equipped with a CP24C providing for a maximum of 952 IP telephones and up to 56 TDM ports for FAX and PSTN connections in a single chassis. Adding a second Modular Chassis to an IPS^{DM} provides 112 TDM ports and allows a maximum of 888 IP telephones. The **UNIVERGE NEAX®IPS DML/DMR** is equipped with a CP31C providing for a maximum of 128 IP telephones and up to 56 TDM ports for FAX and PSTN connections in single Modular Chassis and 112 TDM when using two Modular Chassis.

<ul style="list-style-type: none"> • SPN-CP24C 	<ul style="list-style-type: none"> • SPN-CP31C 	<ul style="list-style-type: none"> • SPN-CP31C
		
<p>IPS DM</p> <ul style="list-style-type: none"> • 112 Legacy Ports • 888 IP Stations • Network (CCIS/R-PIM) • Stand Alone • FTP Upgrade 	<p>IPS DML</p> <ul style="list-style-type: none"> • 112 Legacy Ports • 128 IP Stations • Network (CCIS) • Stand Alone • FTP Upgrade 	<p>IPS DMR</p> <ul style="list-style-type: none"> • 112 Legacy Ports • 128 IP Stations • Network (R-PIM Only) • Remote PIM • FTP Upgrade

Examples of 2 Chassis Configurations

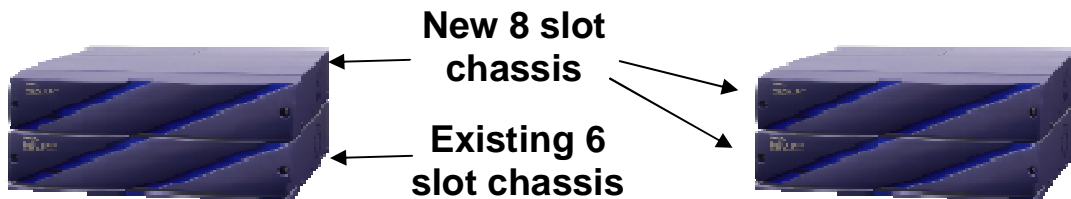


A major design change with the new Modular Chassis is the addition of the RGU (Ring Generator Unit (PZ-PW139)). With the addition of the Ring Generator standard or CID analog station cards PN-8LCAA, PN-8LCAD can be used. The PN-4LCAA is no longer required to supply ringing voltage to other single line cards in the PIM. Stutter dial tone is used to provide MW notification to analog station sets.

2.1.1 Benefits

This new PIM has been developed for more efficient use of TDM and LT slot as well as use less room in a rack by reducing the number of PIM's used in a maximum configuration. The Ring Generator allows the use of standard analog station cards to be used for all IPS family products.

The new 8 slot chassis can be used to expand to a second module when a 6 slot chassis is the first module.



2.1.2 Required Software and Hardware

- 64 PORT SYS SOFTWARE – 3500 SERIES R10 (FD)
- 64 PORT SYS SOFTWARE – 3600 SERIES R11 (FD)
- 64 PORT SYS SOFTWARE – 3700 SERIES R12.1 (FD)
- IPS DM(E) UNIV PIMMJ

3. New Features

3.1 Live Record over CCIS

Previously in a CCIS network of multiple IPS systems all sharing a centralized voice mail only the site where the voice mail was attached could use the Live Record feature. With the release of R12.1 on the IPS it is now possible to use Live Record (automatic or manual recording) from all IPS systems with R12.1 installed. When a tandem connection is required to reach voice mail only the originating and destination IPS offices need to have R12.1 software installed.

3.1.1 Benefits

Adds an extra level of security with the ability to record calls to a centralized VM anywhere in the network.

3.1.2 Required Software and Hardware

- 64 PORT SYS SOFTWARE – 3700 SERIES R12.1 (FD) (All Sites)
- All systems using Live Record must be IPS, DM or DML. Live Record CCIS is not available for IPX or IPK.

3.2 Network Address Translation (NAT)

Network Address Translation (hereinafter called NAT) is a technology used for converting a global address to private address and is a commonly used function of a broadband router. With the release of R12.1, DtermIP can be installed at a remote location through NAT. With this enhancement, a terminal can be accommodated in the network having a different IP address scheme from the network where the IPS is installed. This type of integration would also help connecting the IPS to another existing network when adding VoIP to the environment.

3.2.1 Benefits

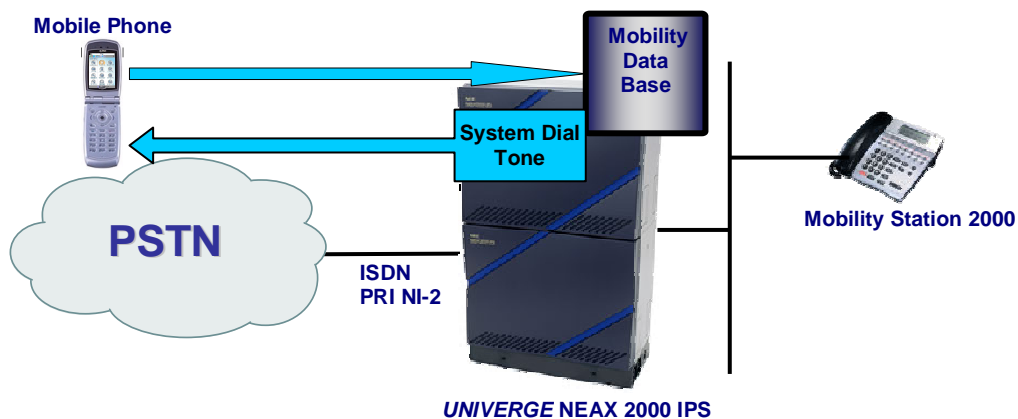
Allows for a lower cost deployment of geographically dispersed Dterm IP Terminals. Deployment advantages for work at home ACD agents; bring and demonstrate Dterm IP Terminal on sales calls; plug- and-play installation at remote offices and geographically dispersed Dterm IP terminals.

3.2.2 Required Software and Hardware

- 64 PORT SYS SOFTWARE – 3700 SERIES R12.1 (FD)

3.3 Mobility Access

This feature provides one-on-one link between a station in the office and mobile phone. When a mobile phone calls an internal station or PSTN number the call is seen as originating from the user's internal station number. Also, when a station or PSTN number calls the internal station the call is automatically forwarded to user's mobile phone. The mobile phone displays the caller ID of the station or PSTN number; the caller will see the CID of the internal station. Mobility Access can be activated and deactivated in three ways; 1) from the mobile phone by dialing designated DID number then entering individual password and the station number to be associated with the mobile phone. 2) from the internal station desk set by pressing feature key or access code followed by mobile phone number. 3) From the MAT by entering a command and the station number and mobile phone number.



In the example above a station user is out of the office making a company business call from their Mobile Phone. Mobile Phone numbers are registered in the system data base along with Mobility Station numbers. Once the UNIVERGE NEAX 2000 IPS has verified the Mobile Phone Caller ID the user will receive system dial tone and can now place a call to an internal station or make an outside call. When the call is received by an internal party the Caller ID of the internal Mobility Station number is displayed. When the destination is an external party either the companies Caller ID number or the DID number of the internal Mobility Station is provided (depending on what is defined in system programming).

3.3.1 Benefits

Continuance of normal business while traveling or out of the office by allowing a mobile cell phone user to appear as though they are taking and receiving calls from their office station number.

3.3.2 Required Software and Hardware

- 64 PORT SYS SOFTWARE – 3700 SERIES R12.1 (FD)
- SPN-24PRTA-C/D (AP)

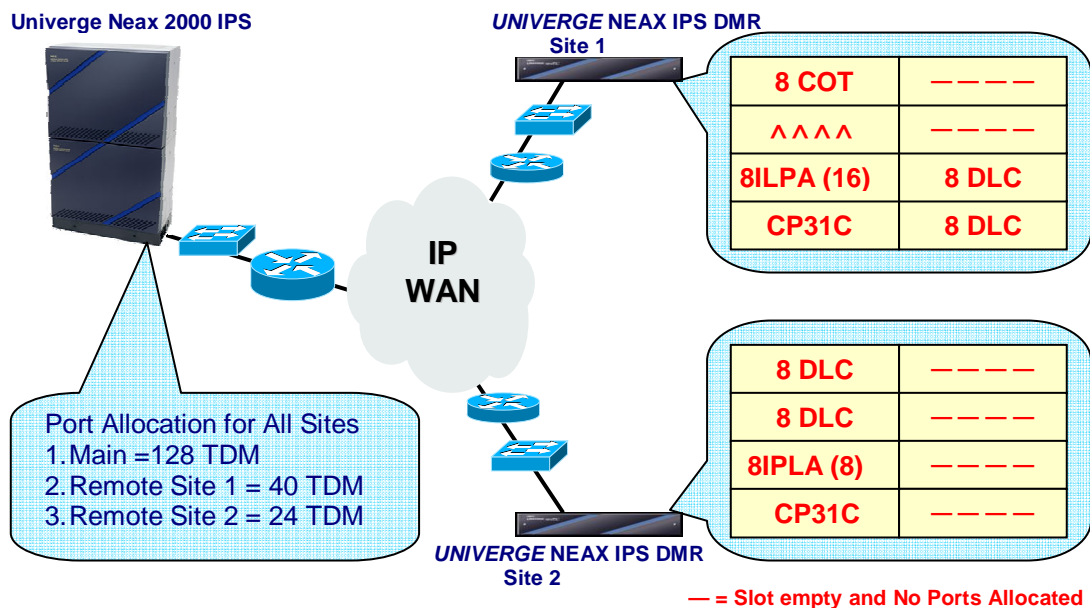
4. Enhanced Features

4.1 Remote PIM Over IP – Expansion

In early versions of software the maximum number of Remote Sites for the **UNIVERGE NEAX®2000 IPS** was effectively 15. When R11 was released the number of Remote Sites increased to 23. With the R12.1 release the number of Remote Sites is now up to 30 using the same maximums of 1020 ports and 64 FP/AP. To reach a total of 30 Remote Sites the **UNIVERGE NEAX® IPS DMR** must be used and each of the sites must be relatively small.

Software Level	R6.2	R8/R9/R10	R11	R12.1
Number of Remote Sites	7	15	23	30

Note: To achieve a total of 30 Remote PIM's in MasterQuote all sites must be quoted using a DMR and all sites must be optimized. The optimization of an IPS DMR PIM in MasterQuote is allocating only the ports required for the physical LT slots, virtual ports for IP terminals and visitor ports that are required. See the example below for more details.



4.1.1 Benefits

Customers now have more flexibility with the expanded number of Remote Sites. One IPS with Remote PIM's can now cover a regional area instead of multiple IPS systems to cover the same area.

4.1.2 Required Software and Hardware

- 64 PORT SYS SOFTWARE – 3700 SERIES R12.1 (FD)

4.2 Dterm Attendant Position Enhancements

Two enhancements are provided for the Dterm Attendant Position; 1) when a Dterm Attendant Position is in night mode and stations Call Forward to the Attendant Position, the forwarded call will follow the night destination. 2) When the Dterm Attendant Position calls a station set to Do Not Disturb in another office via CCIS, DND-Override is available from the Dterm Attendant position.

4.2.1 Benefits

Calls that are forwarded to the Dterm Attendant Position in night mode can be either restricted or follow the night destination. Also the Attendant Position can override a station that has DND set in another office over CCIS.

4.2.2 Required Software and Hardware

- 64 PORT SYS SOFTWARE – 3700 SERIES R12.1 (FD)

5. Software and Hardware

Part Number	Description	Comments
New Software		
153800	64 Port SYS Software 3700 Series R12.1 (FD)	R12.1 System Software
New Hardware		
153009	IPS DM(E) UNIV PIMMJ	8 Slot Modular Chassis Replaces 153008 DM UNIV PIMMF 6 Slot Modular Chassis
151053	BUS-0.4 CA-X	Expansion cable to connect DM(E) to DM(E)
151054	BUS-0.4 CA-CHG	Expansion cable to connect DM(E) to DM
153499	PZ-PW139	Replacement Ringing Generator Unit
New DM/DML/DMR System Packages		
153041	UNIV IPS DM IP SYS PKG-E IPS DM(E) UNIV PIMMJ SPN-CP24C (CPU) AC CORD-E-U RACK MOUNT KIT (U) PZ-M606-A SPN-8IPLA IP PAD-C Port Sys Soft - 3700 Series R12.1 (FD) KEY KEEPER (FD) 8 Seat License MATWORX IPS 24 Port Patch Panel	Replaces 153055 UNIV IPS DM 8 IP SEAT PKG
153045	UNIV IPS DML IP SYS PKG-E IPS DMR SYS PKG-UA-C (8IPPAD) Port Sys Soft - 3700 Series R12.1 (FD) KEY KEEPER (FD) 8 Seat License MATWORX IPS 24 Port Patch Panel	Replaces 153088 - UNIV IPS DML 8 IP SEAT PKG
153043	UNIV IPS DM/DML Expansion Module-E IPS DM(E) UNIV PIMMJ AC CORD-E-U Bus-0.4 CA-PA Joint Bracket Kit Rack Mount Kit (U) Key Keeper (FD) LT-64 Port 24 Port Patch Panel	Replaces 153083 - UNIV IPS DM Expansion Module
153046	UNIV IPS DMR SYS PKG-E IPS DMR SYS PKG-UA-C (8IPPAD) 24 Port Patch Panel	Replaces 153098 - UNIV IPS DMR SYS PKG
153047	UNIV IPS DMR Expansion Module-E IPS DM(E) UNIV PIMMJ AC CORD-E-U Bus-0.4 CA-PA Joint Bracket Kit Rack Mount Kit (U) 24 Port Patch Panel	Replaces 153089 - UNIV IPS DMR Expansion Module

6. Technical Documentation

The following documents will be included in the NEAX2000 IPS Documentation CD:

Description
NEAX 2000 IPS System Manual
NEAX 2000 IPS Installation Manual
NEAX 2000 IPS Command Manual
NEAX 2000 IPS ISDN System Manual
NEAX 2000 IPS Q-SIG System Manual (PRT)
NEAX 2000 IPS CCIS System Manual
NEAX 2000 IPS Office Data Programming Manual
NEAX 2000 IPS Maintenance Manual
NEAX 2000 IPS WCS System Manual
NEAX 2000 IPS OAI SYS Manual
NEAX 2000 IPS MATWorX User Guide
NEAX 2000 IPS MATWorX Installation Guide
NEAX 2000 IPS DM Installation
NEAX 2000 IPS Feature Program
NEAX 2000 IPS Business/Hotel Features & Specifications
NEAX 2000 IPS CCIS Features & Specifications
NEAX 2000 IPS ISDN-QSIG Features & Specifications
NEAX 2000 IPS WCS Features & Specifications
NEAX 2000 IPS Upgrade Guide
NEAX 2000 IPS SMDR/MCI/PMS Specifications
NEAX IPS In-Skin Router Installation Guide
D ^{term} Assistant IPS User Guide