Founded in 1899, NEC Corporation is one of the world’s leading providers of Internet, broadband network and enterprise business solutions dedicated to meeting the specialized needs of its diverse base of customers. Ranked as one of the world’s top patent-producing companies, NEC has been a global innovator in the design, manufacture, service and installation of communications networks ranging from just a few stations to several thousand.

Flexible Networking for Your Business

UNIVERGE™ is NEC’s IP architecture for unifying multimedia networks while enabling robust business solutions. UNIVERGE is an open and standards-based IP architecture, ensuring interoperability with other broadband media, IT equipment and business applications. It also enables seamless and mobile communication in a multi-network environment.

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NEC enables cost-effective migration to IP telephony

NEC’s NEAX 2400 Internet Protocol eXchange (IPX), represents the fusion of existing NEC technologies with dynamic advances in hardware and software to satisfy the most stringent system requirements.

The NEAX2400 IPX’s modular design, combined with the benefits of Internet Protocol (IP), results in virtually unparalleled expansion capability. The system also offers the full range of PBX features using Dterm Series IP or digital terminals.

• Full IP-based Telephony System
  System supports peer-to-peer connection not only between IP terminals within a LAN, but also across an IP network.
  • Supports TDM Interface
    The IP system supports TDM interface allowing graceful IP migration.
  • Flexible System Configuration
    Customer can deploy any combination of TDM based lines and IP based lines desired and add lines as needed.
  • No Forklift Upgrade Necessary
  NEAX2400 IPX enables gradual migration to IP while ensuring protection of investment in existing assets.

What the NEAX2400 IPX Can Do For Your Business

NEC’s NEAX 2400 Internet Protocol eXchange (IPX), represents the fusion of existing NEC technologies with dynamic advances in hardware and software to satisfy the most stringent system requirements. The NEAX2400 IPX’s modular design, combined with the benefits of Internet Protocol (IP), results in virtually unparalleled expansion capability. The system also offers the full range of PBX features using Dterm Series IP or digital terminals.

The NEAX2400 IPX provides a unique set of benefits to users seeking an advanced information system that is both highly flexible and highly reliable. Through the use of state-of-the-art computer-controlled telecommunications technology, the NEAX2400 IPX is able to offer a wide range of features:

Scalability: Current NEC customers can deploy IP capability with simple upgrades, and our fully IP-ready communications systems are ideal for new customers.

Fully Featured Systems: NEAX2400 IPX station users have access to more than 750 service features that enhance productivity, reduce costs and improve communication efficiency.

Flexible Line Size: The modular design of the NEAX2400 IPX enables the growth of the system in a cost-effective manner as your requirements demand.

Flexible Configuration: Customers can use the combination of TDM and IP lines that best suits their communications environment.

Flexible Numbering Plan: The use of a flexible numbering assignment meets all forms of IP network integration services.

Cost Controls: Features such as Least Cost Routing (LCR), Class of Service (COS) and Station Message Detail Recording (SMDR) allow you to control and even reduce costs.

Peer-to-Peer IP Connectivity

The NEAX2400 IPX can support IP switching (peer-to-peer), TDM switching, and IP/TDM switching. Peer-to-peer IP connectivity offers benefits such as:

• High-quality VoIP communications with full telephony services
• Automatic Terminal Registration
  An IP terminal is automatically registered once it’s connected to a LAN (DHCP support provided)
• High reliability and security
  Proprietary operating system enhances operational reliability and security

NEAX2400 IPX System Overview

The NEAX2400 IPX system overview includes the following components:

- Dterm SP30: Soft phone on PC
- Analog MC: Connects analog TEL to IP system
- Dterm IP INASET: IP enabled Dterm
- IP-PAD: Acts as a bridge between TDM and IP terminals
- PSTN
- IP-PAD
- FAX
- Voice Data
- Intranet

Dterm SP30 - Soft phone on PC
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### NEAX2400 IPX System Overview

- **Dterm SP30:** Soft phone on PC
- **Analog MC:** Convert and connect conventional analog interface to IP
- **IP-PAD:** Acts as a bridge between TDM and IP terminals
Convergence of data, voice and other information over a common IP network is the future of communications. NEC’s IP Telephony solutions have been created in direct response to the growing demand for these capabilities.

NEC’s NEAX family of communications systems offers rich functionality and valuable benefits to today’s information-driven businesses. NEC’s voice platforms, NEC brings control of telephony features and related call information right to the user’s desktop.

**PHS Short Message Application**
You can display the same short message on a PHS LCD screen as appears on a pager.

**Q-Master**
EX: Flexible Contact Center Solution
This application combines the high reliability of the NEAX2400 IPX with the power and flexibility of a LAN-based CTI architecture. Fully modular in design, Q-MasterEX allows Contact Center managers to select the components customers need to best meet their operational and budgetary objectives.

**Automatic Call Distribution/Management Information System (ACD/MIS)**
Through its Universal Call Distribution (UCD) capabilities single system handles all calls, including remote offices over IP.

**Survivability**
- SR: MGC
- MC & MG with PFT

**NEAX Enterprise IP Network**
Single system handles all calls, including remote offices, over IP

**Networking**
Convergence of data, voice and other information over a common IP network is the future of communications.

**NEAX2400 IPX Core Networking Features**
- **Private Networking**—Telephony service over IP
  - FCCS (Fusion Call Control Signaling) or CCIS (Common Channel Interoffice Signaling) makes it possible for multi-site systems to work together as if they were a single system
  - H.323 (internet/Intranet industry standard)

**Public Connectivity**
- Integrated Services Digital Network (ISDN)
- Q-SIG (Circuit-Switched Basic Call — ETSI Version)
- Digital Multi-Frequency Compelled Signaling R2 (MFC-R2)

**Survivability**
- SR: MGC
- MC & MG with PFT

**NEAX2400 IPX's Wireless Communications System**
affords invaluable mobility, for enhanced productivity and efficiency.

**Examples of Wireless Communications System Applications**
- Business Offices
- Medical Centers/Hospitals
- Factory/Plants
- Department Stores
- Hotels

**NEAX2400 IPX Core Networking Features**
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**NEAX Enterprise IP Network**
Single system handles all calls, including remote offices, over IP

**Mobile Platform**
CTI Server
NEAX2400 IPX
PSTN
Mobile Phone

**NEAX2400 IPX**
- IP Enabled Dterm
- IP-PAD
- Dterm SP30
- 2 port Analog Extension
- Analog Phone
- Console
- PS
- CS
- VDSL Concentrator
- 2-port Analog Extension

**Office Application Overview**
- TCO Reduction
- PC Server as Voice Communication Terminal
- Enhanced Efficiency

**NEAX2400 IPX**
- IP Enabled Dterm
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NEC's NEAX family of communications systems offers rich functionality and valuable benefits to today's information-driven businesses. Leveraging the advantages of IP technology, NEC's voice platforms, NEC brings control of telephony features and related call information right to the user's desktop.

**NEAX2400 IPX Core Networking Features**

- **Private Networking...Telephony Service over IP**
- **FCCS (Fusion Call Control Signaling) or CCIS (Common Channel Interoffice Signaling)** makes it possible for multi-site systems to work together as if they were a single system.
- **H.323 (Internet/Intranet industry standard)** allows IP terminals at remote offices to be connected over WAN as internal extensions.
- **Failover to Alternate Node**
- **Integrated Services Digital Network (ISDN)**
- **Q-SIG (Circuit-Switched Basic Call — ETSI Version)**
- **Digital Multi-Frequency Compelled Signaling R2 (MFC-R2)**

**Survivability**

- **SR-MGC**
- **MC & MG with PFT**

**NEAX2400 IPX's Wireless Communications System** affords invaluable mobility, for enhanced productivity and efficiency. NEAX2400 IPX's Wireless Communications System makes mobilizing your work force has become amazingly simple. With personal handsets and a wireless communications system, employees can travel throughout a multi-storied building or across a large industrial complex and continue to stay in constant touch with customers and colleagues.

**Examples of Wireless Communications System Applications**

- **Factories/Plants**
- **Department Stores**
- **Hotels**

**NEAX2400 IPX's Wireless Communications System** is a key component of NEAX2400 IPX's overall wireless communications solution. NEAX2400 IPX's Wireless Communications System provides the following benefits:

- **FCCS Network**
- **Intranet**
- **UNIVERGE SV7000**
- **NEAX2400 IPX**
- **IP-Enabling Dterm**

**NEAX2400 IPX's Wireless Communications System** is ideal for a variety of applications including:

- **Business Offices**
- **Medical Centers/Hospitals**
- **Factories/Plants**
- **Department Stores**
- **Hotels**

**Networking**

**CTI Solutions**

NEC's NEAX family of communications systems offers rich functionality and valuable benefits to today's information-driven businesses. By providing an OAI (Open Application Interface) between external processors, such as servers and personal computers, with the internal processors of NEC's voice platforms, NEC brings control of telephony features and related call information right to the user's desktop.

**PHS Short Message Application**

You can display the same short message on a PHS LCD screen as appears on a pager.

**Q-Master**, Flexible Contact Center Solution

This application combines the high reliability of the NEAX2400 IPX with the power and flexibility of a LAN-based CTI architecture. Fully modular in design, Q-Master allows Contact Center managers to select the components customers need to best meet their operational and budgetary objectives.

**Automatic Call Distribution/Management Information System (ACD/MIS)**

Through its Universal Call Distribution (UCD) capabilities, the NEAX2400 IPX can meet the simplest needs of the small-scale or new contact center, or meet the requirements of a large contact center or help desk. It also offers easy expansion and cost-effective performance. By loading ACD (Automatic Call Distribution) functions into a FCCS Network, we can:

- **Concentrate calls made to an agent into one network node;**
- **Spread calls to agents across multiple nodes with one ACD;**
- **Achieve an improvement in call processing capability by establishing multiple ACDs in multiple nodes and dividing calls accordingly.**

**Application software is required before these services can be used.**

**Office Application Overview**

**Mobile Platform**

- **TCO Reduction**
- **PC Serves as Voice Communication Terminal**
- **Enhanced Efficiency**

**IP Platform**

- **DtermIP INASET**
- **CTI Server**
- **Groupware Server**
- **Router IP-PAD**
- **VDSL Concentrator**
- **MG-PRI**
- **FAX**
- **Console**
- **IP-Enabling Dterm**
- **Dterm SP30**
- **AnalogMC & MG with PFT**
- **Analog Phone**
- **PSTN**
- **ISDN**
- **PSTN**
- **NEAX2400 IPX**
The Integrated Attendant Console (IAC), designed for compatibility with the NEAX PABX family, is a WindowsNT-based operator console that provides the capability to operate as an Attendant Console and a Directory System.

**PC-based Operator Console**

MC & MG with PFT has two functions, Media Converter (MC:4LC) and Media Gateway (MG:2COT). MC and MG usually work together, but MG works independently of MC. In the event of a failure of MG, it is possible to connect Directly from the MG to the ITL and perform maintenance operations.

**Media Gateway (MG)** is the VoIP gateway between IP network and a digital interface network (ISDN network). MG can be used for ISDN interface of a Branch Office.

With a design that, while compact, is rich in functionality, the Desk Console is a strong response to a growing need for parallel processing capability in everyday business.

The BF210/24 offers efficient Layer 2 LAN switch operation. It is equipped with a 24-port connection to a LAN, and performs a protocol conversion between the LAN and 100BaseT. The PoE L2 Switch (BF210) provides a path for peer-to-peer communication and can be connected to PCs via Ethernet without adversely affecting system quality.

**Maintenance**

The NEAX2400 IPX's modular system design and sophisticated software have enabled maintenance personnel to isolate and correct problems in a minimum amount of time. The Maintenance Administration Terminal (MAT) enables on-site or remote maintenance operations.

**Administrative Console**

The NEAX2400 IPX's modular system design and software diagnostics enable maintenance personnel to isolate and correct problems in a minimum amount of time. The Maintenance Administration Terminal (MAT) enables on-site or remote maintenance operations.

**Communication Station**

Dterm Series IP INASET incorporates a large-size LCD, with Web access and phonebook features built in. It essentially supports all of the functions of traditional Dterm Series terminal equipment for trouble shooting, management of operation and maintenance functions, and to enable maintenance personnel to isolate and resolve problems rapidly — even for remote locations.

**Remote Maintenance**

All maintenance administration functions can be accomplished by a remotely located MAT over a Public Switched Telephone Network (PSTN) on a dialup or private network basis. Tasks such as system diagnostics, automatic alarm reporting, fault detection and database reconfiguration can be performed from remote locations.

**Traffic Measurement**

The NEAX2400 IPX provides sophisticated traffic management reports that can be used for overall analysis of system performance. The MAT functions as a man-machine interface, and is used to request, test, and display data on a per-time period, and by amount of time.

**System Diagnostics**

The NEAX2400 IPX diagnostic software constantly monitors the operating system and automatically generates supervision and fault information on overall system performance to the MAT and related maintenance systems. The MAT interacts with the System Processors, switching network interface section and various other sections — including Power, Fuse and Temperature — and reports fault indications.

**IP Adapter (IPW)**

This new IP adapter for peer-to-peer connectivity supports VLAN Tagging and can be connected to PCs in a cascade without adversely affecting system quality.

**IP Adaptor**

A new IP adapter for peer-to-peer connectivity supports VLAN Tagging and can be connected to PCs in a cascade without adversely affecting system quality.

**Maintenance Administration Terminal (MAT)**

The MAT is a PC-based tool which provides support for NEAX2400 IPX system management, and is compatible with Windows98/NT/Me/2000-based PCs (Windows2000 recommended).

The following tasks can be performed via the MAT:

- System/office data movement (move, add, change)
- System/office data back-up (floppy disk)
- Traffic data display
- System message display

**Centralized Maintenance Administration Terminal (C-MAT)**

The C-MAT is connected to one of the NEAX2400 IPX systems within an FCCS network. The C-MAT can access, and display the status of, all systems in the network on its display, and it can also perform the same functions handled by a standard MAT.

**Station Message Detail Record (SMDR)**

The SMDR allows the NEAX2400 IPX to record detailed call information on all outgoing and incoming calls and route this information through an RS-232C/Ethernet interface. SMDR-Printout sends call information such as the calling station number, dialed number, call start time and call duration to an asynchronous ASCII printer equipped with an RS-232C interface, on a per-call basis.

**Centralized Maintenance Administration Terminal (C-MAT)**

- Dterm 32D (White/Black): 32-button terminal with display, Desi-less type
- Dterm 16LD (White/Black): 16-button terminal with LCD display
- Dterm 8 (White/Black): 8-button terminal
- Dterm 8D (White/Black): 8-button terminal

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**Communication Station**

Dterm Series i terminals bring the powerful features of the IP NEAX2400 IPX right to your computer. Dterm Series i multi-function digital terminals are ergonomically designed, featuring larger informational viewing areas, tougher display for making call details and other information more visible. Dterm Series i terminals are easily connected to the NEAX2400 IPX by a single cable. These advantages make Dterm Series i terminals the powerful features of the IP NEAX2400 IPX right to your computer.

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Media Gateway (MG) is the VoIP gateway between IP network and a digital interface network (ISDN network). MG can be used for ISDN interface of a Branch Office.

**Maintenance**

The NEAX2400 IPX’s modular system design and sophisticated software diagnostics enable maintenance personnel to isolate and correct problems in a minimum amount of time. They can interface with the system using the Maintenance Administration Terminal (MAT) on-site and/or from a remote site to determine overall system status.

**Maintenance Administration Terminal (MAT)**

The MAT is a PC-based tool which provides support for NEAX2400 IPX system management, and is compatible with Windows98/NT/Me/2000-based PCs (Windows2000 recommended). The following tasks can be performed via the MAT (password available):

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**Communication Station**

### Dterm Series i Terminals

Dterm Series i terminals bring the powerful features of the NEAX2400 IPX right to your computer. Dterm Series i multi-function digital terminals are ergonomically designed, measuring larger 24-character LCD display, and includes a large-size LCD, with Web access and phonebook features built in. It is essentially support all of the functions of traditional Dterm Series terminals transfer to a PC to meet your business communication requirements.

### Intelligent Dterm Soft Phone (Dterm SP30)

The Dterm SP30 uses a Windows-based Graphic User Interface (GUI) enabling you to enjoy multi-functional digital telephone operation via your personal computer. Simply connecting a USB handset/headset to your PC leads to enhanced communication efficiency and productivity.

### Station Message Detail Record (SMDR)

The SMDR allows the NEAX2400 IPX to record detailed call information on all outgoing and incoming calls and route this information through a remote maintenance system. SMDR Printout sends call information such as the calling station number, dialed number, call start time, and call duration to an asynchronous ASCII printer equipped with an RS-232C interface, on a per-call basis.

**Simple administration & Maintenance**

The NEAX2400 IPX is designed to facilitate network management of operation and maintenance functions, and to enable maintenance personnel to isolate and resolve problems rapidly — even for remote locations — maximizing system uptime.

**Station Message Detail Record (SMDR)**

The SMRD allows the NEAX2400 IPX to record detailed call information on all outgoing and incoming calls and route this information through a remote maintenance system. SMRD Printout sends call information such as the calling station number, dialed number, call start time, and call duration to an asynchronous ASCII printer equipped with an RS-232C interface, on a per-call basis.

**C-MAT**

Centralized Maintenance Administration Terminal

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### Station Message Detail Record (SMDR)

The SMDR allows the NEAX2400 IPX to record detailed call information on all outgoing and incoming calls and route this information through a remote maintenance system. SMRD Printout sends call information such as the calling station number, dialed number, call start time, and call duration to an asynchronous ASCII printer equipped with an RS-232C interface, on a per-call basis.
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