



H210IP NetEx/IP[®]
for IBM MVS/ESA, OS/390, and z/OS
Operating Systems

Release 6.1

Memo To Users

July 1, 2004

Introduction

This memo contains information for this base release, along with a general discussion of the changes and improvements to NetEx/IP. It is strongly recommended that this memo be completely reviewed before beginning any installation procedures.

H210IP Release 6.1 provides a new base release for NetEx for the OS/390, z/OS, and MVS/ESA Operating Systems. H210IP Release 6.1 provides the same base level functionality of previous versions of H210 and H210IP. Refer to the “New Features” section later in this memo for a list of features that have been added.

H210IP uses NESiGate software on an IBM xSeries[®] server as a channel adapter for either ESCON[®] or Bus & Tag channels. This allows H210IP to communicate with other NetEx/IP hosts via the IP protocol. For compatibility and migration assistance, H210IP also continues to support DX/DXE adapters for HYPERchannel mode transfers. However, an xSeries server must be used to enable IP support.

The *H210IP NetEx/IP for IBM OS/390 and MVS/ESA Operating Systems Software Reference Manual* has been updated for this release.

The H210IP base release tape has been installed with SMP/E and tested for functionality.

Note: xSeries and ESCON are registered trademarks of IBM Corporation.

Support for NetEx and associated products is available via:

- 24x7 telephone at (800) 854-0359
- the worldwide web: <http://www.netex.com/>
- email: <mailto:support@netex.com>

An on-line version of the current Memo To Users and the Reference Manual may be found online at:

<http://www.netex.com/>

New Features

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NetEx/IP **HCM2** channel protocol has been added to provide support for high-performance channel I/O when used in conjunction with the **HCM2** channel protocol option of the NESiGate ESCON interface. Note that use of this feature requires a compatible version of the NESiGate ESCON channel interface hardware and software.

Release 6.0

NetEx/IP **Type-4 Protocol** was added to provide the ability for NetEx/IP to dynamically maximize the network performance, based on factors such as available bandwidth, distance, and workload on the network. Usage of the Type-4 protocol is accomplished by specifying `PROTOCOL=4` on the local and remote HOST definitions in the Configuration File. If it is not specified, or if it is only specified on one of the hosts involved in a connection, then Type-2 protocol is used.

A **software key**, based on the CPU serial number and features supported, is now required to enable H210IP to be used on a particular CPU. Please refer to the *H210IP NetEx/IP for OS/390 and MVS/ESA Software Reference Manual* for the procedure to use for obtaining the key.

Release 5.0

An **IBM xSeries server** is supported as a channel adapter, allowing the use of standard IP over 10/100/1000 BaseT Ethernet or FDDI. Other IP based media support may be added by Network Executive Software, Inc. at any time. The HYPERchannel protocol is also still supported for compatibility with DX/DXE adapters.

An **Attention Index** is no longer required. The ATNIDX parameter is still allowed but it is ignored.

The **NXMTERM0 termination routine** is now enabled dynamically via the RESMGR Macro. It is no longer required to add the name of the NetEx/IP termination routine to the IBM LPA module IGC0001C. For performance reasons, NXMTERM0 is linked into LPALIB or MLPALIB, but it may be moved to either the NetEx/IP load library or an authorized LNKLST library.

A new **END** initialization statement has been added to NTXINIT to allow automatic entry of operator commands after NetEx/IP has initialized. A NetEx/IP command placed after the END statement will be executed during NetEx/IP initialization. For example, the command `DRAIN HOST CAESAR` placed after the END card will drain the host named CAESAR defined in the PAM file. This might be useful when HOST CAESAR does not exist anymore and will prevent an application from attempting to contact CAESAR.

SMP/E Information

If this is an upgrade to an existing NetEx system this function will delete any and all previous NetEx base and maintenance SYSMOD's.

The naming conventions used for NetEx/IP base tapes (FUNCTION's) and maintenance/service tapes (PTF's) are as follows:

++FUNCTION (NTXvvrr) - Where 'vv' is the NetEx/IP version and 'rr' is the NetEx/IP release number.

++PTF (QZNyymm) - Where 'yy' is the last two digits of the year and 'mm' is the numeric month that the maintenance/service tape was distributed.

The FUNCTION or base release supercedes all previous FUNCTION's, PTF's and APAR's. Since maintenance/Service tapes (PTF's) are cumulative, you need only install the most current tape to bring NetEx/IP up to the current service level.

Installation Notes

H210IP is distributed in System Modification Program SMP/E RELFILE format, with an FMID of NTX0601. The base release 3480 tape cartridge contains SMP/E JCLIN, macros, assembled modules, SMP/E control statements, sample programs, and sample JCL. One SMP/E invoked assembly is performed to complete the installation.

*****IMPORTANT NOTES*****

1. For this installation, a separate set of NetEx/IP SMP/E and NTX data sets must be used. If a previous version of H210 or H210IP is already installed, the SMP and NTX data sets used for that installation cannot be used for this installation.
2. The *H210IP NetEx/IP for OS/390 and MVS/ESA Operating Systems Software Reference Manual* has been updated to reflect the current installation procedures. Please read that section before proceeding with the H210IP installation.

Future selected PTF tapes may contain replacements for JCLIN, macros, and assembled modules as necessary.

3. The 'NetEx/IP Configuration Manager' has been updated for this release. When executing the 'CM' program, be sure to execute the new version installed from this tape, rather than a version that may have been installed previously. The format of the PARM statement has changed from the previous version. There have also been several JCL DD changes. If the old format PARM is used with the new CM program, an S0C4 abend will occur. If the old format JCL DD statements are used with the new CM program, a program loop will occur.

The CCONFIG sample JCL located in the hlq.NTXCTL file contains all of the necessary changes.

When CCONFIG is executed, there is an error message displayed at the end of the OUTPUT file that says:

warning: this program uses gets(), which is unsafe.

This message can be ignored.

4. If using the sample NTXPARM initialization statements, change the specification of the MKBS parameter from 100000 to 0. This parameter specifies the maximum data rate that NetEx/IP will strive to achieve. In most cases, it is better to specify 0, which allows NetEx/IP to operate more efficiently.