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**H140IP NetEx/IP™  
for Windows Server® on x86 Systems**

**Release 7.0.4**

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**Memo to Users**

December 19, 2014



# Introduction

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This document provides information for the following product:

<b><u>Product Number:</u></b>	<b><u>Product Description:</u></b>
H140IP	NetEx/IP for Windows on x86 Intel-based processors.

The H140IP product implements host based NetEx/IP for Windows Server® 2003(R2), Windows Server® 2008 (R2), and Windows Server® 2012 (R2) running on 32-bit or 64-bit Intel x86 platforms.

## Support

Support for NetEx/IP and its associated products is available via:

- 24x7 telephone at (800) 854-0359
- WEB: [www.netex.com](http://www.netex.com)
- <mailto:support@netex.com>

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

[www.netex.com](http://www.netex.com)

## Related Publications

The following book provides more information about this software product:

- *NetEx/IP for Unix and Windows Software Reference Manual*
- *“C” Configuration Manager and NetEx® Alternate Path Retry (APR)*

## Prerequisites

- Windows Server® 2003, 2008, or 2012 installed and running on an Intel-based processor.
- The privileges to create directories and a system Service.
- A network interface card (NIC) installed and fully supported by Windows TCP/IP stack.
- An encrypted Software Key obtained from Network Executive Software that licenses the current release of the H140IP product on the Windows system on which it is to be installed. The IP hostname must be provided to NESi in order to obtain a valid Software Key.



# Service Notes

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- **IMPORTANT NOTE** - Performance problems have been observed in NESi's lab when running eFT143 over H140IP with protocol 4 mode being selected in H140IP. Avoid using protocol 4 with eFT143.
- The user configuration files, 'ntx\_default.ini' and 'ntx\_pam.bin', which by default reside in the "%ALLUSERSPROFILE%\NESi\Ntx" installation directory, should be backed up or copied to another directory prior to performing the software configuration if you are updating from a prior release of H140IP. Restore these files to their respective locations after completing the new installation. Note: Administrator authority will be required under Win/7 and above.
- NetEx/IP is designed to run over standard IP networks. H140IP, NetEx/IP for Windows, supports IP products developed to Microsoft Windows Winsock socket APIs. The current version of NetEx/IP on Windows 2003 runs as a Winsock 2 application per the following Winsock specification:  
  
Microsoft Windows Sockets Version 2, which ships with Windows 2003 and is a superset of the widely deployed Windows Sockets 1.1 interface. It uses the 32 bit library that expects exclusively 32-bit arguments.
- The NetEx/IP modules installed run as Windows 32-bit applications. The ntx Server will be initiated by a system Service called the NETEX IP Protocol Server, "NetexIP".
- Windows networking (i.e., IP address, DNS server address, domain name, default gateway, etc) must be configured before attempting to start NetEx. Since NetEx is a system service that starts automatically, once Windows networking is configured, the machine will need to be rebooted or the NetexIP service must be started. If Windows networking is not correctly configured, NetEx will not be able to access the network or DNS server, so will not be able to determine routes to other NetEx hosts.
- NetEx/IP will be unable to communicate over the network after the following actions:
  - 1) System hibernation or Stand By.
  - 2) System suspension.
  - 3) Disabling and enabling the active network interface.
  - 4) Disabling the active network interface and enabling an alternate interface.

Stopping the NetEx/IP service (via the Services administrative tool or "NET STOP NetexIP" console command), stopping the Ntx.exe process via Task Manager, and then restarting the NetEx/IP service or issuing "NET START NetexIP", should restore NetEx/IP connectivity.

# Special Features

## IP Support

NetEx provides support for communicating over standard IP networks.

At initialization time (and when LOAD NCT is done) all remote host GNA addresses are resolved to IP addresses via DNS lookups. These addresses comprise the HYPERChannel *toGNA* address, as defined in the NetEx NCT by the NETADDR (*uu*) and SMGDREF (*ss*) parameters. If the DNS lookup is successful, an entry is dynamically created in the Netex routing table that maps the *toGNA* and *toIP* addresses. Subsequent searches of the table on behalf of new messages will find this new entry, thus avoiding additional DNS lookups.

Remote host addresses that are not in the local NCT, but that may send messages to the local host, can also be added to the lookup table via the SET IPROUTE command.

# Installation Notes

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The installation procedure for the H140IP NetEx/IP product is in the appropriate appendix of the *NetEx/IP for Unix or Windows Systems* reference manual.





# Update Summary

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## 7.0.4

- This release installs on 32-bit or 64-bit Intel x86 hardware platforms as a 32-bit application.
- Customers of record will require a new license key for continued operation.
- Product distribution is via a downloadable installation .EXE from [support@netex.com](mailto:support@netex.com). To update an existing server, the current NetEx/IP will need to be uninstalled prior to installation of release 7.0.4.
- The following issues have been addressed in this release:
  - 320 duplicate ntx.exe's when stopping/starting Netex-IP server
  - 321 License verification failure on WinXP and W2K3
  - 470 Application error when running eFT/NTX traffic on W2K3
  - 524 Change minimum value of maxbi, maxbo, defbi, and defbo in manual
  - 571 Stopping service & deleting service is part of uninstall
  - 3006 Change the NetEx defaults for maxses and msglvl
  - 3212 Netex slow thrupt with small segs and no delay
  - 5341 Replace ntxeat/ntxgens with common source
  - 5467 Upgraded InstallShield for installation on 64-bit machines
  - 5468 Update to latest source of Open NetEx
  - 5533 Copyright statements in distributed files need to be updated
  - 5534 Add NCT.samp to the install package
  - 5805 Bad Line Number in Error messages
  - 5818 Programmed netex defaults not used if no default file
  - 5821 max allowable size of pamlist is 512 chars - exceeding that will core dump netex at startup
  - 5829 display of defaults in netex log shows ropclass as gblither
  - 5835 unable to APR through a unknown adapter
  - 5841 reading new code conversion table is broken
  - 5842 ntxoper commands accept string values that only partially match
  - 5848 Enhance ntxoper client command processing

- 5854 Level2: Warning: Local NCT entry not defined as PROTOCOL=4
- 5861 Support for ntxrmtop has been removed; functionality is available via ntxoper.
- 5998 Netex should send specific host name on connects, not the group name
- 6058 Netex crash on operator commands using long hostname
- 6075 Netex core dumps when performing a remote oper cmd to a host that has one route but disabled adapter
- 6098 Buffer overflow in ntxoper padding string utility
- 6132 3508 error when all paths to first host in group are drained
- 6346 Implement a Drain path feature
- 6381 Make the groupname in the connect data optional
- 6403 Provide useful and consistent information in the display host (summary)
- 6414 Provide useful and consistent information in the display host 'specific'

## **6.0-6.6.0**

1. Initial release of NetEx/IP for Windows NT and Windows 2000 32-bit Intel x86 platforms.