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# **H624 Secure NetEx/IP**

## **for IBM AIX Operating Systems**

**Release 1.5.6**

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**Memo to Users**

March 2023

# Introduction

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This product implements the Network Executive Software H624 NetEx/IP for IBM Power System and System p AIX systems.

This document should be reviewed carefully prior to installation of H624.

Secure NetEx/IP for IBM Power Systems (H624) Release 1.5.6 is NOT compatible or interoperable with other **non-secure** NetEx/IP products on other platforms, as well as with previous releases of H620IP.

H624 is available by download.

The following manual is available for H624:

*Hxx4 Secure NetEx/IP Reference Manual (1.5.6)*

The manual, along with this Memo to Users can be downloaded from [www.netex.com](http://www.netex.com) by selecting the 'Support' tab, then navigating to 'Products', then selecting the 'IBM Power System/AIX (H62x)' link on the right side of the window, and then clicking on 'Docs' in the 'Secure NetEx/IP [H624]' entry for the appropriate version.

## Support

For NetEx/IP and associated products, support is available via:

- 24x7 telephone at 1 763.694.4350
- [www.netex.com/support](http://www.netex.com/support)
- email: [support@netex.com](mailto:support@netex.com)

## Notice to the Customer

Comments about this documentation may be submitted via e-mail to [support@netex.com](mailto:support@netex.com) or by visiting our website, [www.netex.com](http://www.netex.com). Always include the complete title of the document with your comments.

Information on Network Executive Software's general software support policy (e.g., alternate contact methods, support severity level descriptions, and service status definitions) may be found at [www.netex.com/support/software-support-policy](http://www.netex.com/support/software-support-policy).

## Software Modification Policy

Modifications to H624 that are not specifically authorized by NESi are prohibited.

Any unauthorized modifications to H624 may affect its operation and/or obstruct NESi's ability to diagnose problems and provide corrections. Any work resulting from unauthorized modifications shall be paid by the customer at NESi's then-current support rates and may result in the immediate termination of warranty/support coverage.

# New Features

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This product is functionally equivalent to (non-secure) H620IP Release 7.0.4 with the added capability of optionally sending data privately/securely. However, it is not compatible with H620IP or H621.

## Release 1.5.6 Features

Refer to specific maintenance issues in update summary.

## Release 1.5.5 Features

Refer to specific maintenance issues in update summary.

## Release 1.5.4 Features

Refer to specific maintenance issues in update summary.

## Release 1.5.3 Features

Add option to stop connection attempts after a 3501 or 3920 NRBSTAT

## Release 1.5 Features

Additional hostname resolution features:

- independent connect from ip address resolution

## Release 1.4 Features

Additional hostname resolution features:

- setIP for resolving NetEx hostnames
- restricting inbound connections source IP to the setIP list of IP addresses
- connect timeout parameter

## Release 1.3 Features

Loadable Code Conversion tables.

## Release 1.2 Features

Multihost support has been added to this release. When enabled, the hostname of the Connect and Offer must match.

FIPS mode has been added to the security settings, as well as specific cipher selection tuning.

# Installation

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## Installation Notes

1. H624 is available as a downloadable distribution. Download instructions can be obtained by contacting [support@netex.com](mailto:support@netex.com).
2. Follow the installation instructions in the appendix for AIX Installation in the *Hxx4 Secure NetEx/IP Reference Manual* to complete the installation.
3. Check if there are any H624 updates by going to [www.netex.com](http://www.netex.com), then clicking on the ‘Support’ tab, then navigating to ‘Products’, then selecting the ‘IBM Power System for AIX (H62x)’ link on the right side of the window, and then clicking on ‘Updates’ in the ‘Secure NetEx/IP [H624]’ entry for the appropriate version. If there are any, download them and follow their installation instructions.

# Update Summary

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## Release 1.5.6

- 9499 Expand NRB argument check on API entry
- 9503 SNXMVGEN single session hangs on SIZE less than zero

## Release 1.5.5

- 9440 SNXMAP could close session before response is sent

## Release 1.5.4

- 9262 File descriptor leak in API
- 9284 swait deadlock n > 0

## Release 1.5.3

- 9140 Add option to stop connection attempts after a 3501 or 3920 NRBSTAT
- 9144 CNVERIFY does not stop on CN match
- 9147 Fix status check of OpenSSL functions to load certificates and private keys
- 9162 SNXMVEAT - Unchecked return value to NULL pointer dereference
- 9172 Memory leak for secure sessions
- 9177 SOFFR only accepts one connection

## Release 1.5.2

- 8801 Invalid command 'setconip'
- 8874 Protect errno from possible change in log message callback
- 8899 Potential to hang offer port
- 8910 SNX4217E does not contain correct SSL connect result code
- 9001 LCLHOST value is not content checked
- 9002 SOFFR does not validate nrhost
- 9006 Hostname value in setip command is not content checked
- 9037 Resolve snetex service once per session
- 9052 Move offer conip check from last to first
- 9056 Consolidate SNXMAPPOP output
- 9081 SNXMAPPOP option '-' is ignored
- 9085 Allow configuration of SNXMAP listen backlog
- 9091 3506 after seeing 3501

9096 3501 error should have precedence

## Release 1.5

8676 Available message when a Connector is denied due to no resolution

8716 Provide CONIP for allowed connect from IP address

## Release 1.4

8532 Host name resolution

8580 Use Unix domain sockets for IPC

8585 Add CONNTO for connect timeout

8617 Add feature to restrict the inbound connection to a list of from IP addresses

## Release 1.3

8332 Hostnames of all Numbers does not work; should be documented

8394 \$ Character Not Valid in Offer IDs - Allow printable characters for hostname and offername

8444 Ability to load custom Character Conversion Tables

8488 Enhance SNX3210I message to include local address and port

8494 Allow configuration of SSL protocol

8495 Add serial number to peer certificate message

## Release 1.2

This is a feature update with the following issues addressed:

7953 SNXMAP does not detect select error

7963 Set NRBSTAT on wait que NRBS during session cleanup

8038 Add multihost support in Secure NetEx

8119 FIPS mode added to SNXMAP configuration

8122 SNXMAPPOP now shows correct license expiration time

8125 Correct cleanup failure on NetEx Requester transfer.

8134 Add column header to SNXMAPPOP 'all'

8148 Remove API documentation from the manual; available via support@netex.com

8149 Allow tuning of SSL cipher list

8160 Sync code conversion tables between products

8169 Static link the gcc library for AIX builds.

8190 Buffer overflow in data conversion

## **Release 1.1**

This is a maintenance update with the following issues addressed:

- 7886 SSL configured for TLSV1 only
- 7944 RFCLEANUP in read processing hangs application
- 7953 SNXMAP does not detect select error
- 7957 3506 errors are retried instead of failing
- 7960 Run eat/gen using netex max block
- 7963 Set NRBSTAT on wait que NRBS during session cleanup

## **Release 1.0**

This is a new product release which is functionally compatible to the non-secure H621 Release 3.4.4.