

Nexor Connector for Exchange 1.10

Nexor Connector provides a flexible P1 interface to Microsoft Exchange Server 2000 / 2003 to facilitate the transfer of messages to and from X.400 systems. Nexor Connector has been designed from the ground up to meet the rigorous requirements of the military user (drawn from ACP123). This product provides connections between multiple systems using different protocols providing interoperability between disparate messaging systems.

Nexor Connector can be used with a single Microsoft Exchange Server and Nexor Defender for Outlook to support a small unit or as an X.400 gateway to a large messaging solution consisting of many Exchange Servers.

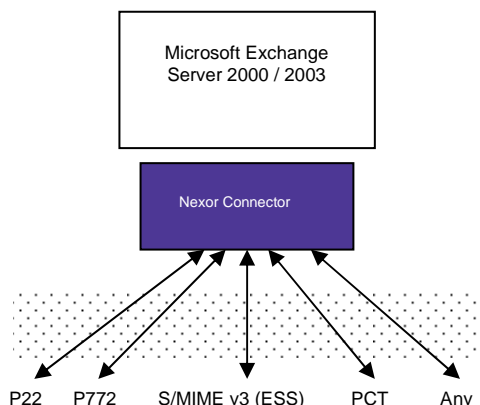


Figure1: X.400 Connectivity

Product Features

Message Processing

Nexor Connector processes messages using an algorithm that was designed to meet stringent speed of service requirements. Message processing features include:

Precedence handling - messaging is handled based on the normal 3 levels of priority which Nexor then extends with the priority level qualifier as defined in STANAG 4406 Edition 1.

Pre-emption - postponing the transfer of a lower priority message to expedite a higher priority message.

Failover Connections - trying of multiple backup MTAs to ensure the successful transfer of the message in the event of the primary MTA failure. This process is automatic and requires no operator intervention, helping to meet system availability requirements.

Multiple Connections - multiple connections can be made to expedite messages and share bandwidth between messages to help ensure speed of service requirements are met.

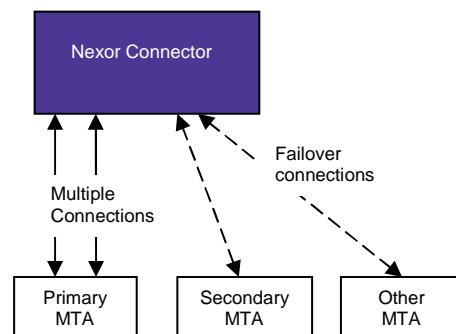


Figure 2: Resiliency

Nexor Connector will remember the best MTA to use for subsequent transfers to avoid attempting to connect to MTAs that are not available.

Warning Messages - when a message cannot be transferred the originator can be warned, without the need for non-delivery of the message.

Message Size Constraints - the maximum allowable size of messages can be configured on a per-precedence level basis.

Military Messaging Support

The conversion of a military message to and from a MAPI message by Nexor Connector is built upon the same technology as Nexor Defender for Outlook. As such, it is similar for the administrator to configure and offers many of the same features:

- STANAG 4406 v2 and edition 1 support - including the use of the P1 priority level qualifier and security label location (envelope or content).
- Use of the TNEF attachment - to carry additional information such as rich text formatting.
- Text encoding - the format of the message text, either IA5 or General.
- File Transfer Bodyparts - to support extensible file attachments.
- Secure messages only - allowing only secure messages to pass through Nexor Connector.

Platforms

- Exchange Server 2000 / 2003
- Windows 2000 / 2003

connect transform protect

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Standards

- X.411 - [P1]
- X.420 - [P22]
- STANAG 4406 Edition 1 - [P772]
- ACP123 - Allied Communication Publication 123 CANSUP
- RFC2630 - Cryptographic Message Syntax [CMS]
- RFC2633 - S/MIME version 3 message specification [S/MIME]
- RFC2634 - Enhanced Security Services for S/MIME [ESS]

Product Features

Content Type Support

Nexor Connector supports the conversion of a wide range of content types to and from the Microsoft Exchange Server native format. These include commercial, military and secure content types, which may be supported by client software of the Microsoft Exchange Server system. In addition, Nexor Connector can support the conversion of arbitrary contents.

Content Type	Reference	Supporting software
P22	X.420	Standard Outlook
P772	STANAG 4406 ACP123	Nexor Defender For Outlook
PCT (Protecting Content Type)	STANAG 4406 Edition 1 Annex B	Nexor S/MIME Security
S/MIME v3 ESS	RFC 2630, RFC 2633, RFC 2634	Nexor S/MIME Security
MSP3	SDN.701	Outlook DMS
ACP120	ACP120	Outlook DMS

Table 1: Protocol Support

Address Types

Nexor Connector provides additional facilities for handling address types, over and above the standard facilities. This includes the ability to set the inbound MAPI address type that is assigned to inbound messages i.e. it is not constrained to be just "X400". This facility can be used to achieve domain separation, ensuring that when a user replies to a message received from a given domain, it will be routed back to the original domain regardless of the actual X.400 address. This facility also allows Nexor Connector to work alongside the standard Microsoft P1 Connector in either a final system or during a transitional stage.

Management and Configuration

Nexor Connector is managed using a custom Microsoft Management Console (MMC) Snap-in. This allows the administrator to configure Nexor Connector in the same location as Microsoft Exchange Server.

Routing Groups

Nexor Connector supports multiple routing groups including the ability to specify per route cost information.

On-going Development

Nexor has been developing leading edge solutions and providing specific system functionality for customers for a number of years. Nexor Connector allows Nexor to be more responsive to customer requirements that include Microsoft Exchange Server and X.400 within an overall messaging solution. This could range from simple changes such as resolving interoperability issues to more sophisticated concepts such as domain security.

P1 File Interface

As well as the P1 protocol, Nexor Connector also supports the P1 file interface for message import to and export from Exchange Server 2000 / 2003.

Existing products that utilise this interface to communicate with an X.400 MTA could be upgraded to communicate with an Exchange Server 2000 / 2003 MTA.