

Nexor Mailer 6.0

The Nexor Mailer is a multi protocol message server. It can be deployed as a backbone Mailer operating as a message switch transferring messages from one MTA to another or as a subordinate Mailer, used as a local message server or message store to service a number of user agents. Nexor Mailer supports both X.400 and SMTP in whichever capacity it is deployed.

Nexor Mailer has been developed with an open architecture, which means that additional functionality can be easily integrated into individual solutions. The modular nature of our architecture provides the foundations for our technology's core strengths of security and reliability. Whilst maintaining our commitment to standards-based messaging, Nexor Mailer can be customised to meet the specific requirements for every solution that we deliver.

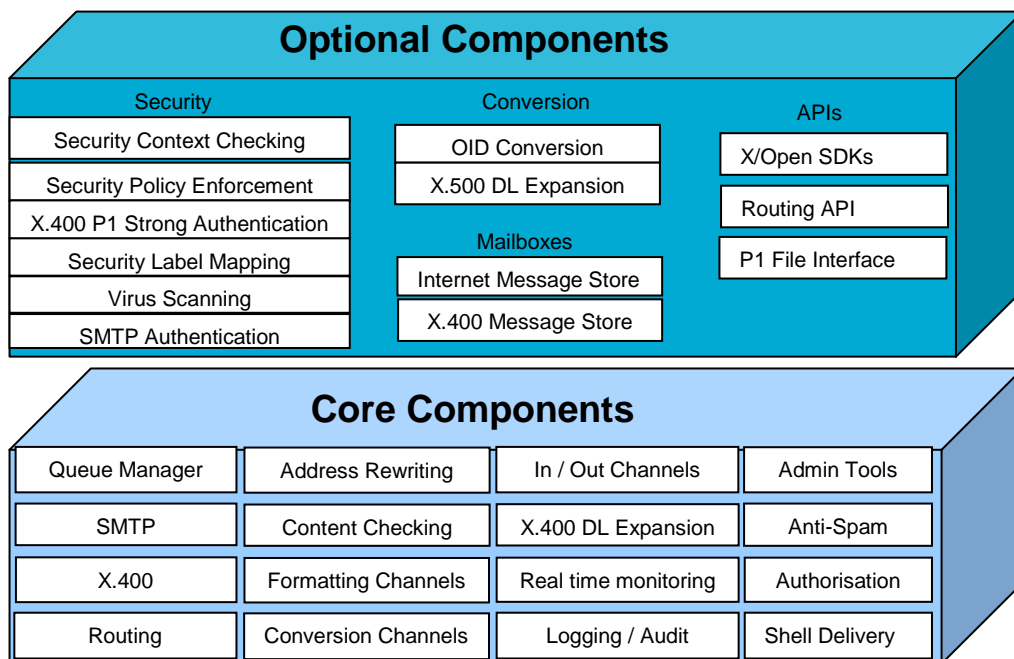


Figure 1: Overview architecture

Message Processing

The channel architecture of the Nexor Mailer allows the messages to be manipulated and verified as they pass through. The Nexor Mailer provides a number of channel modules that perform specific functionality that can be used independently or in combination.

Interoperable and Conformant

Nexor Mailer is pre-eminent in the standards conformance arena and has proven interoperability with the majority of systems.

Multiple Protocol Support

Nexor Mailer supports both Internet SMTP/MIME and ITU X.400 messaging.

With the MIXER option, it acts as a messaging gateway that converts email from one format to another (i.e. X.400 to SMTP and vice-versa) with maximum fidelity. Additional mail formats can be handled by third party gateways. Many other vendors also use Nexor Mailer as part of their gateway solutions.

Extensible Architecture

Nexor Mailer is designed to be extended by 3rd parties through the use of scripts and X/Open APIs to meet the needs of the most challenging messaging environments.

Key Features

Performance

The open architecture used within Nexor Mailer means that multiple messages can be processed simultaneously, which helps to increase overall system performance.

Resiliency

Nexor Mailer is built around the concept of single message processing, meaning that each message is handled and then stored individually. This makes any Nexor Mailer system highly resilient as it builds upon the proven resiliency of the file system and the handling of an individual malformed message does not corrupt any of the other messages being handled by the Nexor Mailer.

Availability / Reliability

Nexor Mailer supports automatic failover to alternative MTA's and supports overall system availability.

Industry Standard

Nexor Mailer is used as a core component of the NATO Messaging System to provide NATO standards compliance for messaging backbone and gateway elements.

Platforms

Nexor Mailer is designed to be multi-platform. It is available off-the-shelf on:

- Windows 2003 / 2008 Server

Other platforms, including trusted operating systems, may be supported on request.

connect transform protect

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Standards

- X.411 (84, 88, 92) - Message transfer system [P1]
- X.413 - Message Store [P7]
- X.420 - Interpersonal Messaging System [P22]
- RFC 1006 - ISO Transport Service on top of the TCP
- RFC 821 Simple Mail Transfer Protocol
- RFC 822 - Standard for the Format of ARPA Internet Text Messages
- RFC 1521/1522 - Multipurpose Internet Mail Extensions [MIME]
- RFC 1801 - X.400-MHS use of the X.500 Directory to support X.400-MHS Routing
- RFC 1869 - SMTP Service Extensions
- RFC 1891 - SMTP Service Extensions for Delivery Status Notifications
- RFC 1939 - Post Office Protocol Version 3 [POP3]
- RFC 2156 - MIXER Mime Internet X.400 Enhanced Relay
- RFC 2197 - SMTP Service Extension for Command Pipelining
- RFC 2060 - Internet Message Access Protocol v4 [IMAP4]
- RFC 1870 - Message Size Negotiation
- RFC 2231 - Use of non-English character sets in header information
- RFC 2554 - Service extension for authentication
- RFC 2249 - Mail Monitoring MIB
- STANAG 4406 Ed 1 and 2

Policy Engine

Authorisation and Policy Control

Extensive facilities are provided for 'spam' protection and user control. The spam protection facility allows for default host and domain authorisation policies that allow for a 'blocked list' or 'accepted list' method of use. Individual users can be given differing messaging access rights, e.g. restricting individuals to local rather than external communication. Constraints may also be set on individual messages e.g. size limits, content searching and anti-virus checking. Nexor Mailer can also check external anti-spam lists such as the Realtime Blackhole List (RBL) to provide a further level of anti-spam control.

Content Verification

Nexor Mailer enables organisations to check the content of messages crossing the organisational borders. Content verification provides a generic message content scanning mechanism where subsequent behaviour is based on the results of checks made upon the information within the message. Functionality includes virus scanning, key word and header verification.

Address Rewriting

Many organisations have a number of internal systems, each with different naming structures.

Nexor Mailer supports email address translation, which allows organisations to present a uniform external addressing scheme without having to modify the addressing schemes of all the internal systems. For example, an organisation might have two internal email systems using addresses of the form:

bas@marketing.nexor.com
evensm@server1.nexor.com

While Nexor Mailer will allow these users to appear in the external world as:

Beth.Smith@nexor.com
Mark.Evans@nexor.com

This can be applied without the need for large internal systems reconfiguration, thus providing a cost effective solution. Note that this facility is offered for both SMTP and X.400 address formats.

Management and Distribution

Management

Nexor Mailer includes powerful management control capabilities. Nexor Mailer Monitor enables an administrator to interactively examine the mail currently being processed by the mail server(s). Additionally, it enables the administrator to dynamically adjust the processing of messages, freezing queues or messages and forcing immediate retries. Nexor Mailer also provides a command line tool to manage the Mailer which can be built into any overall system management tools. Nexor Mailer on UNIX supports the Internet standard MADMAN SNMP management information base.

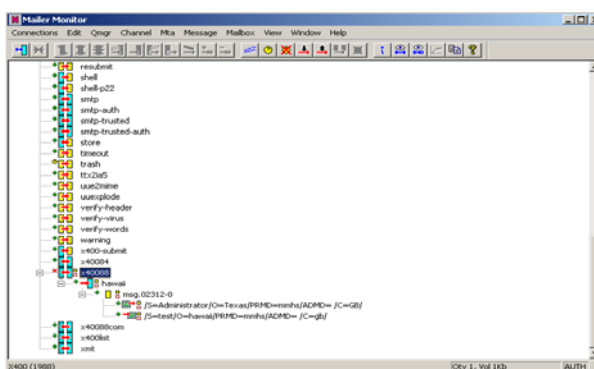


Figure 2: Mailer Monitor

Distribution Lists

A Directory-based distribution list manager option allows for remote management of enterprise distribution lists. For example, department-wide message distribution can be achieved by the system dynamically searching the Directory for users belonging to the department.