



INTERNATIONAL MESSAGING
A S S O C I A T E S

Internet Exchange Messaging Server

Version 4.11

Release Notes

(September 6, 2000)

This is the release notes for Internet Exchange Messaging Server Version 4.11. This file contains a list of bug fixes, enhancements, known issues and other updates, which are arranged chronologically, with the latest coming first.

Introduction

The Internet Exchange Messaging Server version 4.11 from International Messaging Associates Ltd. (IMA) is an open architecture, stand-alone messaging system specifically tailored to enable legacy e-mail systems to co-exist with proprietary messaging systems while making full use of Internet messaging and directory services. It is a highly configurable and scalable messaging system that complies with proven Internet standards while offering dependable mail storage, migration support and interoperability among disparate e-mail systems.

Key Features

IMAP4 and POP3 Support

The Internet Exchange Messaging Server 4.11 supports IMAP4 and POP3 protocols, enabling users to access their mailboxes via IMAP4- and/or POP3-capable clients, such as Microsoft Outlook, Pegasus Mail, Netscape Messenger and Eudora Mail. The IMAP4 and POP3 servers are integrated in the IMAP4 Optimized Message Store.

Enhanced Batch SMTP Support

The Internet Exchange Messaging Server includes a batch-mode implementation of SMTP (Simple Mail Transfer Protocol) that supports the Batch SMTP Media Type (RFC 2442). This is a MIME content type for tunneling ESMTP transactions through any MIME-capable transport. The Internet Exchange Messaging Server includes a BSMTP Encoder that allows for the tunneling of messages for an entire organization or addresses to a pre-defined Internet addresses, while preserving the original envelope or delivery information of each message. When these messages arrive at a single POP3 account, they are picked up by the POP3 BSMTP Decoder module, which decodes the resulting messages and then submits them to the Internet Exchange MTA for further routing, with the original envelope recipients retained.

With the Internet Exchange Messaging Server 4.11, the Batch SMTP has been enhanced to handle poor TCP/IP connections, such as the case of an incomplete POP3 session. Certain cases arise when the TCP connection may be terminated abruptly allowing the connection between the server and the client to be closed without issuing the proper commands to disconnect. The POP3 server might not remove those messages that have been downloaded and marked as deleted. This problem has

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already been fixed starting from Internet Exchange Messaging Server version 4.1 by introducing two new mechanisms. The first way of handling this situation is by utilizing the POP3 command UIDL (Unique ID Listing) and maintaining a local database of UID for each downloaded message. Messages that have already been downloaded can be detected and will not be downloaded again. Another option is to specify the maximum number of messages per POP3 session for those whose POP3 servers do not support UIDL.

Optimized Message Handling

To speed up mail delivery and save on storage resources, the Internet Exchange Messaging Server uses a shared message queue structure. By using this structure, duplication of messages is avoided and processing overhead is minimized. The Internet Exchange Messaging Server also features SMTPC Queue Management to provide a mechanism for efficient message priority handling, efficient processing of server-side ETRN requests, and improved message queuing strategies.

Enhanced Queue Management

The Internet Exchange Messaging Server 4.11 provides an enhanced queue management facility for the following: Preprocessor input and output queues, cc:Mail Internet PO (Post Office) queue, Notes SMTP.BOX and SMTPC.

This utility allows the management of all the input and output queues for the Preprocessor. The output queue provides the status of all the default channels (i.e., CCMail, LOCAL, SMTPC, BSMTPOUT, NOTES and DL).

All the input and output queues display messages according to one of the following criteria: *Priority Weight, Sender, Deferred Time and Size*. When the sorting criteria is specified for the selected channel, the queue management utility searches all the deferred messages for the specified criteria. The results are displayed on a new page showing all the messages that match the searched criteria. From here, the end user can view the headers of the message individually, delete the messages, bounce the messages or re-set the queue.

Similar functionality is available for the Internet PO queue and the Notes SMTP.BOX queue. The queued messages are displayed for both the queues from where the end user can either delete or bounce the messages.

Anti-spam Engine with RBL Support

The anti-spam module of Internet Exchange is designed to protect the integrity of the entire messaging system against unsolicited junk e-mail. This module enables the system administrator to create a list of banned or unwelcome IP address/addresses using a configurable GUI (Graphical User Interface). It is also capable of verifying the corresponding name of an IP address during the initial stage of the SMTP session via reverse DNS lookup to filter out forged names, thereby blocking out potential spammers even before they can enter the system.

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The anti-spam module supports RBL (Real-time Blackhole List) for optimum protection. They are:

- **MAPS-RBL**
Mail Abuse Prevention System's Real-time Blackhole List
For more information, please visit <http://maps.vix.com/rbl>
- **MAPS-DUL**
Mail Abuse Prevention System's Dial-up user List
For more information, please visit <http://maps.vix.com/dul/>
- **IMRSS**
Internet Mail Relay Services Survey Project
For more information, please visit <http://www.imrss.org/>
- **ORBS**
Open Relay Behavior-Modification System
For more information, please visit <http://www.orbs.org/>
- **DSSL**
DynamicIP Spam Sources List
For more information, please visit <http://www.imrss.org/dssl>

Anti-virus Engine

The Internet Exchange anti-virus module is a 32-bit multi-threaded, stand-alone pre-processing module capable of performing simultaneous virus scanning for MIME and non-MIME message attachments. The anti-virus module supports the following anti-virus packages:

- **McAfee VirusScan**
This software engine supports the following platforms: DOS, Windows 95/98 and NT.

For more information, please visit <http://www.mcafee.com>
- **Sophos Anti-Virus for Windows 95/98**
This application has the capability to automatically eliminate many common viruses and can easily be installed. It can be updated monthly with the latest anti-virus technology via the World Wide Web or via CD or floppy disk.

For more information, please visit <http://www.sophos.com>
- **Sophos for Windows NT**
This application is specifically designed for the Windows NT platform and has the same features found in Sophos Anti-Virus for Windows 95/98.

For more information, please visit <http://www.sophos.com>
- **F-PROT Professional Anti-Virus Package**
This is specifically designed to support Windows 95/98 and NT 4.0 (Server/Workstation).

For more information, please visit <http://www.datafellows.com>

Scalability and Multi-platform Support

The Internet Exchange Messaging Server architecture is designed to support a distributed message handling environment to ensure that each module will have sufficient computing resources to perform its tasks and to provide for future expansion. In case the messaging needs of the organization outgrow the initial setup, additional Internet Exchange modules, from MTAs to connector modules, can be seamlessly incorporated, providing unlimited expansion capability to meet the users' growing needs. Thus, with the Internet Exchange Messaging Server 4.11, the various system components can be run on multiple machines and operating systems concurrently, assuring high scalability and redundancy. Communication between the different modules is via RPCs (Remote Procedure Calls) running on TCP/IP transport layer. With RPCs, a multi-platform, distributed environment is possible to run on Windows 95/98, Windows NT and later on UNIX.

MC Responder User Interface

Internet Exchange includes a Monitor and Control (MC) user interface. This combines the status/control module and the MC Responder's local component configurations on a single HTML/CGI page. It provides the system administrator with a simpler management tools to browse and manage all of the Internet Exchange Messaging Server's components in a distributed system.

Mailing List Management via the Distribution List Manager

The DL Manager allows messages to be sent to all of a list's subscribers by simply submitting the said messages to a single address. It enables the system administrator to create an electronic mailing list that supports the following features: mail blocking, adding/removing subscribers and setting the preferred delivery options. Its new features include simplified mailing list administration, descriptive information, and web-based subscriptions and unsubscriptions. End users can also subscribe to and/or unsubscribe from the lists via the end user web-based interface.

Distribution List Archive

The Internet Exchange Messaging Server version 4.11 now gets even better with the new Distribution List Archive, an archiving system that offers the following features:

- Allows users to view previous messages posted to mailing lists via the web
- Allows users to sort all messages based on any of the following criteria: *Date*, *Author* and *Thread*
- Allows both members and non-members to access mailing list archives of an open list
- Limits access to the mailing list archive of a closed list to Internet Exchange members only.

NOTE: *An addendum discussing the enhanced Distribution List Archiving Utility of the Internet Exchange Messaging Server 4.11 is incorporated in this release.*

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Flexible RAS Scheduling

The Internet Exchange Messaging Server Dialup Scheduler allows the system administrator to choose which days of the week to run the dial-up schedule for RAS (Remote Access Service). RAS is the remote access service for Windows and is actively supported on all WIN32 platforms. It is a useful feature for dial-up issues.

Migration Tools for cc:Mail and Lotus Notes Environments

The ccMail and Notes Connectors come with migration tools for moving ccMail and Notes users to the Internet Exchange mailbox system. These migration tools enable the system administrator to export the user directory of ccMail and Notes users to the LDAP-enabled Directory Server. Mailboxes and sub-folders in LAN-based systems are exported to the Internet Exchange local Message Store, where they can be accessed by any POP3- or IMAP4-compliant user agent.

Message Store Quota Agent

This new feature allows the system administrator to set and enforce disk usage quotas on all the Message Store user accounts. This feature limits the amount of resources allocated to the individual users to prevent them from consuming all of the available disk space in the server. The Quota Agent generates reports in HTML format and text files, which the system administrator uses to check and verify Message Store performance and disk usage. The reports are in HTML format to make them available in the Internet Exchange web interface. The text file reports serve as file attachments to mail sent to the system administrator. This feature is equally useful for corporate system administrators as well as Internet Service Providers who have to enforce the usage of resources.

Mailsort Utility for Sorting Incoming Messages

The Mailsort utility defines rules so that the LMDA (Local Mail Delivery Agent) can copy, forward or move messages to a pre-selected mailboxes/folders other than the INBOX. It can also generate automatic replies to incoming messages based on a pre-defined criteria. The Mailsort filtering utility implements rules based on certain attributes (i.e., message sender, recipient or subject) to process incoming mail at message delivery time.

Vacation Utility

The Internet Exchange Messaging Server includes a vacation utility that enables individual users to configure their account to automatically reply to incoming messages whenever they are not available. This vacation utility is integrated in the Mailsort module.

LDAP-enabled Directory Server

The Internet Exchange Directory Server is based on a client/server architecture that uses the LDAP (Lightweight Directory Access Protocol). It is an open directory access protocol running over TCP/IP. It is specifically designed for managing information about users, groups, mailing lists, aliases processing and mail routing. Other Internet Exchange modules, such as the IMAP4 Server, POP3 Server, Message Switch and LMDA, access the Directory Service for directory information. The system administrator can create and modify the list of channels/connectors that a specific user is using to

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route his messages. He can also view the license information of the licensed users under the different channels/connectors.

Enhanced Web Administration Interface for System Administrators

The improved Web Administration User Interface displays some functional innovations. The top level ICONS of the new web user interface shows the installed components and the location where the said modules are installed. The main administration menu, on the other hand, displays the functions of the modules installed. Furthermore, it allows the system administrator to navigate all the components on a distributed system. The system administrator can manage, configure and monitor the server from anywhere on the Intranet or Internet.

Enhanced Web Administration Interface for End Users

The Internet Exchange also provides a separate Web-based administration interface that is specially created for the end users to be able to configure the following three components of the Internet Exchange Messaging Server:

- Directory Services
- Message Store
- Distribution List Manager

This gives the end users the option to view and edit the user information stored in the directory database; to define their Mailsort filters via Message Store or update user password for the Message Store; and to either subscribe to or unsubscribe from the available mailing list.

Web-based Mail Client

Internet Exchange comes with a Web-based Mail Client that allows end users to access their mailboxes on the Message Store using a standard web browser. The Web Mail Client also allows the end users to remotely access the Message Store via the web browser in addition to access via IMAP4/POP3 standard mail clients. End user may change the look and feel of the Web Mail Client interface.

Free Mailing Lists

The Free Mailing Lists feature allows the end users to subscribe to and/or unsubscribe from the open mailing lists available on the Messaging Server.

VIM Libraries for cc:Mail

The VIM libraries are needed by the Internet Exchange Messaging Server in order to access your cc:Mail Post Office. To download the VIM libraries, point your Web browser to ftp://ftp.support.lotus.com/pub/comm/ccmail/dev_tools/vdlw32.zip.

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Version 4.11 (29 August 2000)

ENHANCEMENTS

TNEF Support

Messages composed and sent through mail programs belonging to the Microsoft Exchange family (Microsoft Mail, Windows Messaging, Outlook97, Outlook98 and Outlook2000) include a TNEF (Transport Neutral Encapsulation Format) attachment, which is characterized by a *WINMAIL.DAT* attachment or a *Content-Type: application/ms-tnef* part embedded within the message attachment.

Although TNEF attachments can effectively contain Word documents, Excel spreadsheets, video clips, programs, among others, only Microsoft mail products can properly recognize and read it. But, that was before. Unlike previous versions of Internet Exchange, Internet Exchange 4.11 incorporates an expander Preprocessor plug-in, which is responsible for handling TNEF attachments. With the TNEF expander plug-in, TNEF attachments are extracted as early as in the pre-processing phase and submitted again in a separate message to the original recipient(s), so that when Internet Exchange users access their respective mailboxes, they will receive two messages. The first message contains the original message, while the other contains the extracted TNEF attachment(s). The message with the extracted TNEF attachment(s) will state that you have received a message containing one or more TNEF attachment(s).

Distribution List Archive

In version 4.11 of the Internet Exchange Messaging Server, the Distribution List Manager gets even better by having a DL Manager Archive, an archiving system that offers the following features:

- Allows users to view previous messages posted to mailing lists via the web
- Allows users to sort all messages based on any of the following criteria: *Date*, *Author* and *Thread*
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NOTE: An addendum discussing the enhanced Distribution List Archiving Utility of the Internet Exchange Messaging Server 4.11 is incorporated in this release.

BUG FIXES

Build Alias Database Bug

In the previous version of Internet Exchange, the system administrator needs to re-start the Preprocessor before the newly created e-mail alias will take effect.

In Internet Exchange 4.11, the system administrator need not re-start the Preprocessor. The newly created e-mail alias immediately takes effect within a maximum value of two (2) minutes after the system administrator re-builds the alias table.

Migration does not accept special characters in the cc:Mail address book.

In Internet Exchange 4.1, the migration tools cannot successfully import into LDAP a cc:Mail address book that contains entries consisting of the colon (:), semi-colon (;), double quotation ("") greater than (>) sign and less than (<) sign characters. The migration tool runs for a while and then halts at the address book entry that contains the special character(s) (e.g. user was "cc:mail admin").

In Internet Exchange 4.11, the migration tools are enhanced to support these special characters in the address book entries.

Preprocessor Message Queue not synchronized with ccln/NotesIn Queue

When deleting an incoming cc:Mail/Notes message from the Preprocessor, the deletion is reflected in the Message queue, but not in the ccln/NotesIn queue. The iemta.log will display that the ccln/NotesIn module has an error when importing that deleted message(s). This is a synchronization problem with the Preprocessor and the ccln/NotesIn queues in Internet Exchange 4.1.

With Internet Exchange 4.11, the synchronization problem is now fixed. Internet Exchange 4.11 incorporates a cross-checking mechanism, which synchronizes the Preprocessor and ccln/notesIn queues. When this cross-checking mechanism detects a deletion in the Message queue, it will delete that particular message's respective queue ID from the ccln/NotesIn Queue.

Original messages are not received when running the Mailsort Vacation Utility

In Internet Exchange 4.1, when the user configures his Mailsort vacation utility to send vacation messages, the vacation message is successfully sent to the people who send him mail. However, the original mail message(s) from the people who sent him mail are not delivered to the user's mailbox. This bug is already fixed in Internet Exchange 4.11.

Version 4.1 (7 April 2000)

BUG FIXES

Mailsort CGI Results in Broken Page

When the user clicks the *Go back to user authentication* link from the Mailsort CGI page, the web server returns an error that said, "The page cannot be found". This problem has been fixed.

Error "illegal operation" Received from the Distribution List Admin Page

When a user attempts to update any settings for a mailing list via the DL Manager Control CGI page, the CGI and DLMANAGER.EXE returns an "illegal operation" error message. This problem has been fixed.

Postmaster Config (PMConfig.exe)

In the PMConfig program, when a LOCAL connector in the Directory Server was added to the *postmaster@fqdn* e-mail address and deleted afterwards, only the account created in the Directory Server will be removed. The LOCAL message store account of the *postmaster@fqdn* will not be removed.

CGIND.EXE Exception Error

When a user clicks the *OK* button from the Notes Domain configuration page, it gives an exception error on CGIND.EXE. This problem has been fixed.

Spelling Mistake on Distribution List Configuration

Configuration was misspelled on the Distribution List configuration page. The monthly digest schedule also had spelling mistakes. These spelling mistakes have been corrected.

SMTP.BOX Monitor with Domino R5 Compatibility

If SPX was enabled on Domino R5, the CGIND.EXE program sometimes corrupted the value of the ID file in use and the SMTP Domain name entry box. This problem has been fixed.

"Illegal Operation" Error When Changing Mailing List Owner

When a user responded *NO* to confirm the changing of mailing list owner, the DLManager.exe CGI returns an "illegal operation" error. This problem has been fixed.

Broken Links to Help Pages on the Distribution List Configuration Page

Several links to the help pages on the Distribution List configuration page were broken. They all have been fixed.

IIS4 Compatibility Issue

There were two CGIs, *CGICCQM.EXE* (Internet PO queue monitor) and *CGILNQM.EXE* (SMTP.BOX monitor) which had compatibility problems when running on IIS4 (Internet Information Server 4). The browser displays a "CGI ERROR" and an error string "caught by cgihtml: QUERY_STRING is null". This problem has been fixed.

View Disk Space Usage Gave Exception Error on "report.exe"

Under some circumstances, when the user selected the *View Disk Space Usage* from the Message Store administration page, the CGI report.exe returns an access violation error.

Search Function on Distribution List Configuration Page

When a user tried to do a keyword search from a mailing list, the search failed. The user must specify the complete mailing list address or use an asterisk "*" when performing mailing list search.

Broken Links to Preprocessor Queue Status Help Pages

Several links to the help pages on the Preprocessor Queue status were broken. These links are now fixed.

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IMAPD/POP3D Termination Due to License Failure

A problem which caused the IMAPD/POP3D to terminate with an error message "license failure", is now fixed in Internet Exchange Messaging Server 4.1. This erratic behavior was due to a bug in handling synchronization.

DNS Resolver Unable to Handle IPv6 Records

Prior to version 4.1, the DNS resolver was not able to handle IPv6 DNS records and results in being unable to resolve domains containing IPv6 information. This issue is now fixed in the Internet Exchange 4.1. The resolver is now able to recognize the IPv6 DNS information in order to return the appropriate MX record information.

KNOWN ISSUES

NT Compressed NTFS partition problem

If the temporary directory of Internet Exchange Messaging Server resides on a compressed NTFS partition of Windows NT, IMA Web Mail users will not be able to compose, reply or forward messages. When installing Internet Exchange Messaging Server on a compressed NTFS partition, make sure that temporary directory is on a normal non-compressed partition. Editing IEMTA.INI file and changing the temporary directory path under the "Gateway" section can change the location of the "temporary" directory.

```
[Gateway]
TemporaryDirectory=d:\ima41\MsgQueue\Tmp
```

You will need to manually create this temporary directory in the said location.

Web Admin Directory contain "~" sign problem

The Quota Agent cannot send out notification message if the Web Admin directory path is written in a short form in the IEMTA.INI file. To solve this problem, when upgrading from Internet Exchange 4.02 or earlier, please check the following value.

```
[Config]
WebAdminDirectory=d:\ima41\Apache\HTDocs
```

If the directory entry is in short form (e.g. C:\Progra~1\IMA4\Apache), change the directory path to its long file name (i.e., C:\Program files\IMA4\Apache).