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Cover Story

IMA unveils Internet Exchange Messaging Server version 5



Against the backdrop of a growing dependence on email in commerce, industry and society, International Messaging Associates (IMA) highlights the timely release of the **Internet Exchange Messaging Server 5**, the latest development in its top of the line electronic messaging products.

Designed to provide critical solutions to the messaging needs of today's dynamic enterprises, the latest version of Internet Exchange responds to the call of businesses going global for an efficient and reliable messaging solution that maintains a high level of efficiency and security.

Internet Exchange 5 practically satisfies the need for efficiency with its ability to enable legacy email systems to co-exist with proprietary messaging systems while utilizing the Internet's messaging and directory services to the fullest.

The necessity to maintain the security and integrity of messages is answered by Internet Exchange 5's anti-spam and anti-virus modules. With the anti-spam module, persistent spammers will not be given a chance to dump often-annoying junk mail on a system, while its anti-virus module shields a system against destructive virus attacks.

Linking with Linux

Linux's rise in market acceptance has been meteoric. Boasting a steady 16% growth projection until 2004. Linux has recently snared a significant percentage of the server market. It has even outpaced Windows in market growth. As open source software, Linux is rapidly gaining popularity with ISPs as the operating system for hosting web servers.

Taking this trend into consideration, Internet Exchange 5 now runs in both Windows and Linux platforms. This development essentially fulfills IMA's promise of reaching out and providing its services to a wider range of users and administrators.

Administrators can install Internet Exchange 5 on Redhat Linux 6.2, 7.0 and 7.1 either by using an X Windows or non-X Windows environment. X Windows is a windowing system that generates an elementary window for Linux and other operating systems. A non-X Windows installation program, on the other hand, displays the same information as in X Windows, but it makes use of text screens instead of a GUI (Graphical User Interface).

Announcement

IMA web site sports a new design

International Messaging Associates' web site (<http://www.ima.com>) has just been through a major upgrade—a comprehensive redesign with service enhancement to suit the needs of our clients. The strong emphasis was placed on ease-of-use and site organization.

Enhancements include an easily searchable archive of our monthly newsletter, white paper, brochures, release notes, product overview, data sheets, product downloads and product updates. You may also subscribe to our monthly newsletter. Subscribing will allow you to receive our newsletter via email.



However, both approaches provide simple and easy-to-follow steps for installing Internet Exchange on Linux.

With the stability offered by an operating system as Linux, users will benefit greatly from the same functionality and steady performance that Internet Exchange modules and components render when running on a Windows platform.

More machines are better than one

System administrators will find it easy to configure Internet Exchange 5 in a distributed environment while having the alternative to mix Windows and Linux machines in the setup. In a distributed environment, Internet Exchange 5 reduces system loading by distributing processing tasks and transactions among the different Internet Exchange components residing in separate machines.

As a result, the actual processing of messages speeds up because different modules on multiple machines execute tasks autonomously and simultaneously. For example, the system administrator can run Internet Exchange 5's Directory Server on a certain machine A, the Preprocessor module on machine B, MTA components on machine C and Connector modules on machine D at the same time.

Primed up performance

On Windows, refinements on Internet Exchange 5 further maximize the capabilities of modules and connectors in previous Internet Exchange versions. Two of these components are the Distribution List Archive and TNEF (Transport Neutral Encapsulation Format) Expander.

With the Internet Exchange 5's DL Archive, the system administrator and end users can view messages via the DL Archive web interface. Since every message posted is saved as a single text file in the Distribution List folder, the system administrator is spared from the tedious task of opening several files separately in order to search for an archived message.

The DL Archive allows both mailing list members and non-members to access open mailing list archives. Only mailing list members are allowed to view closed mailing lists. This restriction is made possible through the DL Archive's authentication procedure, which requires mailing list members to enter their username and password as defined in the Directory Service.

Messages can also be searched and sorted by Date, Author and Thread. Archiving by "Date" sorts all messages on a daily basis by grouping messages sent on the same day. Archiving by "Author" sorts all messages by the author, while "Archive by Thread" sorts messages by subject.

The TNEF Expander, on the other hand, is responsible for handling TNEF formatted attachments sent by Microsoft mail client users. Without the TNEF Expander Preprocessor plug-in, non-Microsoft mail clients cannot translate TNEF-encoded messages. The TNEF part of messages viewed in a non-Microsoft mail client will appear as a non-recognizable sequence of hexadecimal digits.

As soon as the TNEF Expander recognizes TNEF attachments in the preprocessing phase, it immediately extracts them for translation. After reading and translating the TNEF attachment, the plug-in expander submits the content in a separate message. This means the recipient will receive two messages, the original message and the extracted TNEF message.

Another new feature in this version of Internet Exchange is its improved web-based interface. Links to Internet Exchange modules are clearly inscribed on the top frame of the Web interface, allowing both administrators and end users to easily browse pages and map-out configuration routines. Distinct navigation buttons and other links listed on the left frame also access pages smoothly.

Cutting-edge technology to edge out the competition

"Internet Exchange Messaging Server 5 answers the increasing demand for an industrial-strength email server supporting distributed computing environments", said Tim Kehres, IMA's managing director. "Internet Exchange Messaging Server 5 is specially tailored for businesses that depend heavily on electronic mail. With its anti-spam and anti-virus engines, end users are protected from external attacks. The Web Mail provides business the capability to answer all queries whenever and wherever there is access to the Internet. Internet Exchange 5 is a highly reliable solution at a very affordable price in one integrated package."

In the struggle of business enterprises to remain standing in the global slugfest, cutting edge technology often draws the thin line between the ones giving the blows and the ones receiving. The Internet Exchange Messaging Server 5 belongs to those technologies that make sure you do not only remain standing, but beat competitors to the punch as well.

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Migrate Now! Internet Exchange offers cost-effective migration

Twenty-eight million email users are expected to migrate from legacy mail systems to client-server based messaging systems according to Internet studies and experts. Among the reasons for migration are:

- discontinued service of their LAN-based messaging systems
- to reduce cost brought about by maintenance of disparate email systems
- to take advantage of cutting-edge enterprise systems that provide corporate wide email access, Internet standards support, etc.

However, not all email users are rushing to migrate. This is because migration requires great effort and a hefty price tag. According to a study conducted by the Collaborative Research firm, email migration is costly regardless of the platform used and the big portion of the cost is credited to the new system's implementation, installation, documentation and user training.

Addressing this need, Internet Exchange 5 includes comprehensive migration tools that ensure smooth, reliable, and cost-effective migration of cc:Mail and Lotus Notes users to its Internet standards-based environment.

Internet Exchange 5 consists of the following migration tools:

cc:Mail/Notes Directory Converter

The cc:Mail/Lotus Notes Directory converter translates the address book information from cc:Mail or Notes directories to a format supported by the Internet Exchange Directory Server. It provides a user interface specially designed to simplify what was once a big administrative burden: migrating thousands of users in the Directory Server. The user interface allows the system administrator to create Internet email addresses for cc:Mail and Lotus Notes users. It also enables the system administrator to select all cc:Mail/Lotus Notes users in the post office and create corresponding entries for these users in the Internet Exchange Directory Server and local mailbox simultaneously.

cc:Mail/Notes Mailbox Converter

This cc:Mail/Lotus Notes Mailbox converter translates cc:Mail and Lotus Notes mailboxes into a format supported by the Internet Exchange Message Store. It has two modes, namely:

- **Per user mode.** Individual users can convert their mailbox into the standard Internet Exchange mailbox.
- **Batch processing.** User's mailbox can be converted into a format supported by the Internet Exchange Message Store based on data present in the local configuration file.

Logging Facilities

Internet Exchange includes logging facilities which tracks the user addresses and mailboxes that have been migrated and logs the errors encountered during migration.

INTERNET EXCHANGE'S MIGRATION STRATEGY

cc:Mail

The migration tools for cc:Mail are 32-bit Windows applications that use the VIM (Vendor Independent messaging) interface to access the cc:Mail Post Office. It supports DB6 and DB8 post offices and run on Windows 98, 2000 and NT platforms.

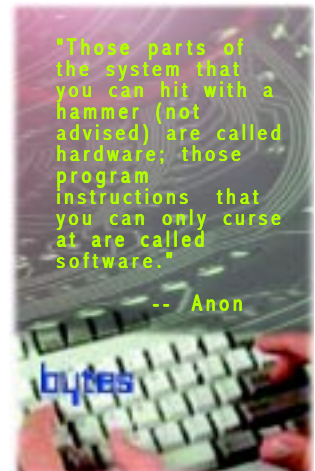
Migrating cc:Mail Users to the Internet Exchange Directory

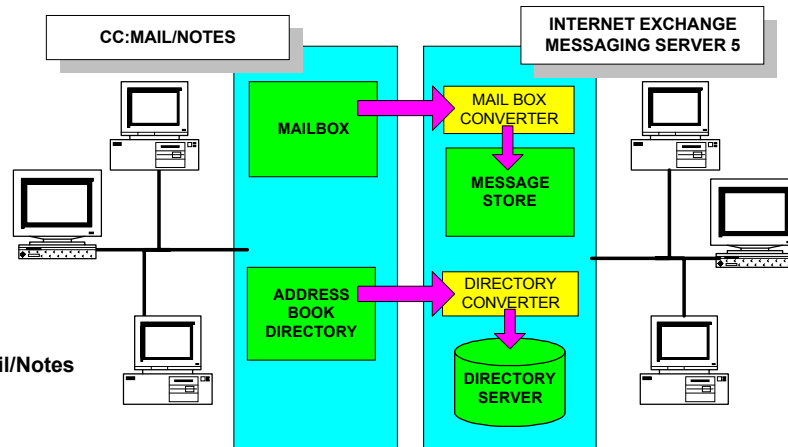
To transfer individual cc:Mail users from the cc:Mail Post Office to the Internet Exchange Directory Server, the Internet Exchange cc:Mail Directory converter exports the **NAME** field of the cc:Mail user record to the Directory Server. Since the **NAME** field is not a fully RFC-822 compliant address, the cc:Mail directory converter first reconstructs the cc:Mail name into a fully RFC-822 compliant address using information from the rule predefined by the user. In general, a user which can be anything like:

<FIRSTNAME LASTNAME>

or

<FIRSTNAME LASTNAME>





Migration from cc:Mail/Notes to Internet Exchange

will be converted to have the following format:

<USER>at<PONAME>

where <PONAME> denotes the physical location of the mailbox. The cc:Mail directory converter is capable of mapping different post offices to different domains while constructing the user's Internet address during the migration process. Once the Internet address is constructed, a dummy password will be created, which will either be an MD5-hashed password or an 8-byte long ASCII string.

Migrating cc:Mail user mailboxes to the Internet Exchange Message Store

To translate cc:Mail mailboxes to the format accepted by the Internet Exchange Message Store, the Internet Exchange cc:Mail mailbox converter exports each message independently from the cc:Mail post office via the VIM interface. It then converts the message into a single part MIME message (if the cc:Mail message contains only 1 item) or into a multipart/mixed MIME message (if there are multiple items). The mailbox converter executes these steps:

1. Convert cc:Mail notepart item into TEXT/PLAIN MIME body. The conversion tool assigns the character set of the TEXT/PLAIN item to the preconfigured value. If the character is preconfigured to ISO-2022-JP, the notepart item will be converted from 7- to 8-bit JIS based on ISO-2022-JP format.
2. Convert the cc:Mail attachments into appropriate MIME types. If the attachment is in AppleSingle format, the attachment is converted as MacMIME AppleSingle (base64 encoded) MIME body. This is stated under the assumption that the user will use MACMIME-compliant IMAP/POP3 agent to access the mailbox.
3. Convert all the user addresses in the cc:Mail headers into an RFC-822 compliant address format.
4. Retain the directory structure as laid out in the cc:Mail post office.

Lotus Notes

The Lotus Notes migration tools are a set of 32-bit Windows applications that uses the Notes API to access the Notes server/mailbox.

Migrating Lotus Notes users to the Internet Exchange Directory

To migrate a Lotus Notes user to the Internet Exchange Directory, the Lotus Notes Directory converter exports the name and domain fields of the Lotus Notes user record to the Internet Exchange directory from the Lotus Notes Public address book. Because the Lotus Notes username is not RFC-822 compliant, the Lotus Notes Directory converter first reconstructs the name into a fully RFC-822-compliant address. It then allows users to create predefined rules from which the Directory converter would get information to reconstruct the name into an Internet compliant address. In general, the Lotus Notes user name in the format:

<USER>/<CERTIFIER>@<DOMAIN>

where user can be anything like:

<FIRSTNAME LASTNAME>
or
<LASTNAME FIRSTNAME>

where the <CERTIFIER> of a Lotus Notes user address denotes the departmental location of the mailbox. The Lotus Notes Directory converter is capable of mapping different certifiers to different domains while constructing the user's Internet addresses during the migration process. Once a valid Internet address is constructed, a dummy password is generated, which will either be a MD5-hashed password or an 8-byte ASCII string.

The Lotus Notes Directory converter provides users with predefined rules to construct a valid RFC-822 address. The predefined rules set are as follows:



- FirstName LastName
- FirstName M1 LastName
- F1 LastName
- LastName FirstName
- LastName FirstName M1
- LastName F1
- LastName F1 M1
- FirstName L1 with separator = NONE/UnderScore and or Dot

Note: RFC-822 defines the addressing syntax used for Internet electronic mail addresses

Migrating Lotus Notes user mailboxes to the Internet Exchange Message Store

The Internet Exchange Lotus Notes mailbox converter translates Lotus Notes mailboxes into a format supported by Internet Exchange Message Store. To translate, the converter first exports each message independently from the Notes mailbox via the Notes API interface. Then, it converts the message into a single part MIME message (if the Lotus message contains only 1 item) or into a multipart/mixed MIME message (if the Lotus Notes message contains multiple items). Afterwards, the converter follows these steps:

1. Convert Notes mail body into TEXT/plain MIME body. The conversion tool assigns the character set of the TEXT/PLAIN item to the preconfigured value. If the character is preconfigured to ISO-2022-JP, the mail body will be converted from 7- to 8-bit JIS based on ISO-2022-JP format.
2. Convert attachments into appropriate MIME types. If the attachment is in AppleSingle format, the attachment is converted as MacMIME AppleSingle (base 64 encoded) MIME body. This is stated under the assumption that the user will use MacMIME-compliant IMAP4/POP3 clients to access the mailbox.
3. Convert all the user addresses in the Notes mail headers (To:, Cc: and Bcc) into the RFC-822-compliant address format.
4. Retain the directory structure as laid out in the Notes user mailbox.

The Internet Exchange's migration tools also support automated batch processing, migrating large user groups. It provides an audit trail of the migration process, helping its users track down which information/users have been moved to the new system. With Internet Exchange 5, you have total control over the entire migration process.



Postman's Corner

A cool web-based interface for Internet Exchange 5

The release of Internet Exchange Messaging Server 5 does not only satisfy the need of our client for efficiency, but also their need to have ease-of-use of the software.

Internet Exchange 5 has a fresh web-based interface, complementing the new IMA web site. The **System Administrator** button on the main interface allows the Internet Exchange system administrator to administer, use, and enable the different features of Internet Exchange 5. The **End User Configuration** allows users to view and/or edit individual user

information recorded in the Directory Server database; define their Mailsort filters or update their Message Store password. This also gives users the option to view the available mailing list and/or subscribe to or unsubscribe from lists. The **Mailing List Subscription** allows end users to subscribe to or unsubscribe from the available mailing lists on the server. The **Web Mail Login** allows end users to access their mail boxes from the Internet Exchange Message Store. End users may compose messages, reply to received messages, or forward messages via the Web Mail Client. The **Distribution List Archives** allows users to view previous messages

posted to lists; sort messages by date, subject and author; permits mailing list members and non-members to access the archives of open lists; and allows closed mailing list members to access the archives of closed lists.

Links to Internet Exchange modules are clearly inscribed on the top frame of the web interface, allowing both administrators and end users to easily browse pages and map-out configuration routines. Distinct navigation buttons and other links listed on the left frame also access pages smoothly.

Ana Cruz
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Q I was wondering if the Internet Messaging Server version 4.11 we are using comes with anti-virus module. I saw the anti-virus module load during startup and we would like to use it. Please let me know.

A Yes, the Internet Exchange Messaging Server 4.11 includes an anti-virus module. However, you will need an anti-virus software to work hand in hand with your current server.

Internet Exchange currently supports the following anti-virus software engines:

- McAfee Virus Scan
- Sophos sweep
- F-PROT Professional

To configure the anti-virus module, you may refer to:

<http://www.ima.com/pdf/adminman.pdf>

Please be reminded that as you enable more options, the longer the process would take.

Q We are in the midst of total migration from cc:Mail to Lotus Notes/Domino R5, using Internet Exchange 3.13 for cc:Mail.

I have not found any reference to setting a name and password in the documentation, or in the gateway setup screens.

Please let me know the possibility of configuring the gateway to use a Notes name and password in connecting to an R5 Domino Server to deliver SMTP mail.

A You will not find any reference in the documentation, or in the gateway setup screens regarding name and password setting in Lotus

Notes environment, since the product you bought only supports cc:Mail.

You can, however, do forwarding functions, as indicated in pages 178 and 184 of Internet Exchange 3.13 Manual for cc:Mail and Lotus Notes.

Regarding the possibilities of configuring your version 3.13 for cc:Mail to use Notes name and password, here are your options:

1. Use Internet Exchange version 3.13 for Lotus Notes as your gateway, leaving cc:Mail totally and migrate clients to Lotus Notes environment.
2. Upgrade your current version to Internet Exchange version 5, since the latter has both cc:Mail and Lotus Notes migration capabilities. Version 5 also has user maintenance, anti-virus, anti-spam, auto text insertion engine, multiplatform, distribution lists, and Message Store features, among others.

Inserting disclaimer messages using the Auto Text Insertion Engine

Even in the information highway, everything you say might just be taken against you — hence, the use of disclaimer messages.

Disclaimer messages consists of several lines of text consistently appearing at the bottom of every message that goes out via the Internet.

Its purpose is to protect your company's interest as it sends mail messages via the net. It also states the confidentiality of the message, and limits the liability of the company that maintains the mail system where the message originated.

To insert disclaimer messages using the Auto Text Insertion feature of **Internet Exchange Messaging Server 5**, press the **Configure Auto Insertion** button on the left menu frame of the

Internet Exchange 5 Preprocessor control panel.

Pressing the **New** button will show blank boxes for you to fill in. One says **Text file**, the other, **HTML file**. These are your source channels.

If you are using the path of the text file, which contains the text to be inserted to outgoing messages, type:

`c:\autoinsert\disclaimer.txt.`

You have the option to use an HTML file as an inserted text for outgoing messages. If you choose this option, type:

`c:\autoinsert\disclaimer.html`

The specified text will automatically be attached by the auto insertion engine

to messages coming from these channel.

Press the **Save** button to store the auto insertion files.

Should you need to enter corrections, press the **Edit contents** button. Press **Delete** to remove a file.

For more information on the Internet Exchange Messaging Server 5's Auto Text Insertion feature, please go to:

<http://www.ima.com/pdf/v4/preprocessor.pdf>

<http://www.ima.com/support/faq/msgsvr/disclaimer.html>

<http://www.ima.com/pdf/ienevs/vol2no6.pdf>

