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### International Messaging Associates (IMA) Ltd.

The Broadway  
54-62 Lockhart Road  
Wan Chai, Hong Kong  
Tel: +852 2520-0300  
Fax: +852 2648-5913

### IMA Philippines Inc.

The Peak Tower  
15/F 107 Alfaro Street  
Salcedo Village  
Makati City, Philippines  
Tel: +63 (2) 811-3999  
Fax: +63 (2) 811-3939

US Support: +1 (408) 481- 9985  
US Sales: +1 (408) 481- 9985  
US Fax: +1 (888) 562 - 3561

Email: info@ima.com  
Website: www.ima.com

# Internet Exchange News

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## NEWS FLASH!!!

### Internet Exchange's Distribution List Maximizes Mailing List Capability

Electronic mail (e-mail) plays a vital role in most of today's organizations, whether private, government, academic or non-profit institutions. To maximize the benefits offered by e-mail and provide these institutions with a powerful and cost-effective communication tool, International Messaging Associates Ltd. (IMA) has released its Internet Exchange Messaging Server (IEMS) version 4.1, an electronic messaging system, with enhanced mailing list capability.

The IEMS enhanced Distribution List (DL) Manager provides more flexibility as compared to its previous versions. It now provides a

simpler management tool for the system administrator to control/manage the available mailing lists created via DL Manager; a list of available mailing list with descriptive information where users can subscribe to/unsubscribe from via the IEMS End User and Free List page.

The enhanced DL Manager allows the system administrator to perform list operations, such as:

- Create New List
- Delete List
- Search for mailing list

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### Check your e-mail anytime, anywhere with Internet Exchange Web Mail Client

Checking your mail has never been easier! With the new Web Mail Client of Internet Exchange Messaging Server version 4.1, users can compose, reply, forward or redirect their mail messages as well as large file attachments using any kind of web browser anytime, anywhere all over the World Wide Web. Users can now enjoy reading and sending their mail at their own convenience. The Web Mail Client is a collection of Common Gateway Interface (CGI) programs that allows users to access their mailboxes from the Internet Exchange Message Store via a web browser.

The Web Mail Client has several unique benefits and advantages:

1. *Check anytime, anywhere*  
Because you do not need a dedicated e-mail client, you can check your mail from any web browser-equipped terminal that is connected to the Internet. Whether you are at an Internet Cafe in New York or merely at a friend's house, you can have the full suite of e-mail services at your disposal.
2. *Full e-mail services*  
You can compose messages as well as reply, reply all or forward e-mail. You can also receive and send attachments. You can even manage the

*Continued on page 5 --->*



Figure 1: Creating a mailing list

- Provide descriptive information of the mailing list
- Modifying list settings
- View list of subscribers
- Edit/add subscribers
- Update list owner password

Before the system administrator can perform the above mentioned list operations, the system administrator must log in to the IEMS main web configuration page. The system administrator login screen presents a username and password for authentication. Once the user is successfully logged in, the System Administrator Main Web Interface will appear. The Top Menu of the System Administrator Web Interface displays the various icons of the IEMS modules. The system administrator must click on the DL icon. The DL web interface will then appear where the system administrator can perform various list operations. The links on the left side of the DL screen are composed of List of Lists, Create New List and Delete List. If the system administrator will configure this page for the first time, he/she must first create a mailing list.

### CREATE MAILING LIST

This link allows the system administrator to create a new mailing list. To create, click the *Create New List* link on the left side of the DL screen. A screen for creating a new list will be displayed (see **Figure 1**). The system administrator must provide the following

information:

1. Type in the e-mail address of the electronic mailing list (e.g. *mailinglistname@domain.com*) to be created.
2. Enter the e-mail address (e.g. *username@domain.com*) of the person who will maintain/manage the mailing list that will be created.
3. Write a brief description of the mailing list to be created.
4. Set the archiving option to either *Yes* or *No*. Selecting *Yes* will save the messages in the archive folder under the DLMgr sub-directory. Messages will not be saved in the archive folder under the DLMgr sub-directory if the option is set to *No*.
5. Choose from the pull-down menu the action to be taken--*bounce to the original sender*, *forward to the list owner*, *bounce and forward*, or *discard*--when there is an invalid posting to the list.

*Bounce to the original sender* will bounce back the message to the original sender when there is an invalid posting to the list. *Forward to the list owner* will pass the message to the list owner of the particular mailing list. *Bounce and Forward*

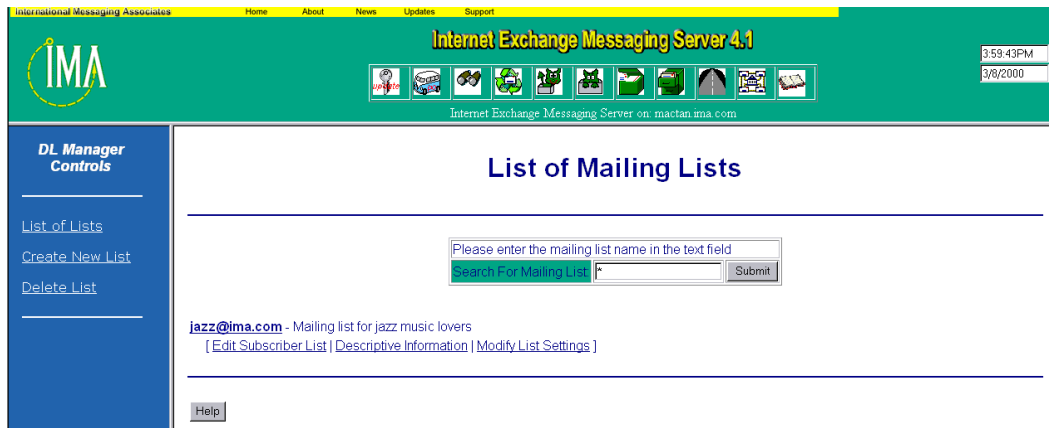


Figure 2: Searching for a mailing list

will bounce back the message to the original sender and at the same time forward the message to the list owner of the particular mailing list. The *Discard* option will delete the message.

6. Set the posting permission from non-list member to either *Yes* or *No*. Selecting *Yes* will allow posting from non-list members. Selecting *No* will restrict posting to list members only. See **Figure 3**.
7. Set the auto subscription option to either *Yes* or *No*. Selecting *Yes* will allow the subscriber to be automatically added to the requested list. The subscriber will not automatically be added to the requested list if the option is set to *No*.

When the DL Manager receives a subscription request, it first checks the Enable Auto Subscription attribute of the list the sender is trying to subscribe to. If the Enable Auto Subscription is set to "YES", the DL Manager activates automatic subscription. A confirmation message is then sent to the prospective subscriber informing him/her that he/she must reply to the confirmation message with the word "OK" before he/she is successfully added to the mailing list. If the value of Enable Auto Subscription is set to "NO", the DL Manager passes the subscription request to the list owner. The list owner will then decide if he will add the potential subscriber to the list or not.

8. Set the posting permission to either *Allow* or *Block* all postings to list. The *Allow* permission allows the list member to post messages to the list(s). The *Block* permission will prohibit the list member to post messages to the list to which he is a member.
9. Set the header option to either *Yes* or *No*.

When the Remove Return-Receipt-To Header is set to "YES", the user who posted a message to the mailing list will receive an e-mail confirming that all list members have read the e-mail at date/time specified.

Example: listmember@domain.com has read your mail at mm/dd/yy hh:mm

For every mailing list member, a separate receipt will be sent to the sender of the message. The user will then, know who are the members of the list based on the receipt received.

The DL Manager will not generate a Remove Return-Receipt-To Header if the value is set to "NO".

10. Set the MIME Digest option to either *Yes* or *No*. Select *Yes* to support MIME digest encoding, otherwise, select *No*.
11. Specify the maximum size of the message digest. If the message digest exceeds the limit, it will be divided into several smaller messages.
12. Set the digest generation options--Daily, Weekly, and Monthly--to generate digest message. The system administrator can also specify the day, hour, and minute when the message digest shall be generated.

After setting all the required information, click on the *Next* button. A new page displaying the default auto text locations will be displayed.

### DELETE MAILING LIST

The system administrator may delete a particular mailing list through this link. Deleting the mailing list will also delete the members of the mailing list to be deleted.

Matched Result	Default Posting Permission	Allow Posting From Non-List Member	Enable Auto-Subscription
<p>Selecting this option allows both list members and non-list members to post messages to the list. Potential subscribers are permitted to subscribe automatically to the list. This option allows for the open, unmoderated exchange of ideas (e.g. forum@domain.com) however, you are facing the risk of allowing spammers to subscribe to your mailing list.</p> <p><b>Example Usage:</b> Any open discussion environment, with no controls on posting or subscription of any kind.</p>	ALLOW	YES	YES
<p>Only the list members are allowed to post messages. Prohibits non-list members to post messages to the list. Potential subscribers are required to submit a subscription request to be passed on to the DL owner who will then decide if he/she will add or reject the potential subscribers to the list. If the subscription is approved, the potential subscribers can then post messages to the list (e.g. staff@domain.com ).</p> <p><b>Example Usage:</b> Any closed discussion environment where control over the subscriptions as well as outside posting is required, such as a company staff mailing list.</p>	ALLOW	NO	NO
<p>Entitles only non-list members to post messages to the list. List members are not allowed to post messages to the list. Potential subscribers are allowed to subscribe automatically to the list, but are not permitted to post messages to the list after the subscription has been approved (e.g. request_info@domain.com).</p>	BLOCK	YES	YES
<p>Prevents both non-list members and list members to post messages to the list.. List members can only receive messages. Potential subscribers are required to submit a subscription request to be passed on to the DL owner who will then decide if he/she will add or reject the potential subscribers to the list. If the subscription is approved, he/she will still be unable to post messages to the list .</p> <p><b>Example Usage:</b> Tightly controlled one-way message distribution, such as newsletters or updates sent to internal recipients or external parties, where control of the subscription is required. IMA uses this for its distribution of information to business partners.</p>	BLOCK	NO	NO
<p>Allows non-list members and list members to post messages. Potential subscribers are required to submit a subscription request to be passed on to the DL owner who will then decide if he/she will add or reject the potential subscribers to the list. If the subscription is approved, the potential subscribers can then post messages to the list (e.g. opinion@domain.com).</p> <p><b>Example Usage:</b> Any open discussion environment, with no controls on posting, but where subscriptions require approval.</p>	ALLOW	YES	NO
<p>Prohibits non-list members, but allows list members to post messages to the list. Potential subscribers are permitted to post messages to the list (e. g. ie-list@ima.com).</p> <p><b>Example Usage:</b> Any open discussion environment, with no controls on subscriptions, but posting limited to the list members. This is a good option for general purpose public lists, as the blocking of non-list members can significantly reduce the propagation of undesired spam.</p>	ALLOW	NO	YES
<p>Entitles non-list members to post messages to the list. List members are not allowed to post messages to the list. Prohibits potential subscribers to automatically subscribe to the list. The potential subscribers must submit a subscription request, if they wish to subscribe to the list to, be passed on to the DL owner who will then decide if he/she will add or reject the potential subscribers to the list. Potential subscribers are not allowed to post messages to the list once the subscription is approved (e.g. sponsors@domain.com).</p>	BLOCK	YES	NO
<p>Prevents both non-list members and list members to post messages to the list. Allows potential subscribers to subscribe to the list, but still will not be able to post messages to the list even if the subscription request has been approved (e.g. imanews@ima.com).</p> <p><b>Example Usage:</b> One-way message distribution, with open subscriptions. This is useful for newsletters, updates, or any other open news notification system. IMA uses this for its distribution of the Internet Exchange News newsletter to interested subscribers.</p>	BLOCK	NO	YES

Figure 3: Mailing List Control

## LIST OF LISTS

This link allows the system administrator to search for a particular mailing list that is serviced by the DL Manager without displaying the complete list of available mailing list. Use of asterisks\* will display the complete list of mailing lists that are serviced by the DL Manager. The system administrator is also allowed to perform other mailing list-related operations, editing/adding subscriber(s), providing descriptive information of the mailing list and modifying list settings.

### Search for mailing list

To search for a mailing list name, type the mailing list name in the *Search for Mailing List* field and click on the *Submit* button. The mailing list that matches the list entered will be retrieved and displayed on the new screen. See **Figure 2**. In this example, the searched mailing list name is *jazz@ima.com*. The primary address and the short description of this mailing list is displayed.

### Edit subscribers

The Edit Subscribers page allows the system administrator to add potential subscribers, remove subscribers, and view subscribers. The system administrator can add/delete more subscribers at a time.

### Descriptive information

This page allows the system administrator to provide a short/long description of the list, and a welcome/farewell message. Welcome messages are sent to those members who were added automatically (automatic subscriptions). Farewell messages are sent to those members who were removed from the mailing list (automatic unsubscriptions).

## Check your e-mail...

*Continued from page 1*

different folders containing your mail messages.

### 3. Administer and Manage your E-mail Before Downloading

Now, you don't need to waste online time downloading unwanted e-mail with large file attachments! You can delete unwanted mail from your server using Internet Exchange Web Mail Client leaving only the pertinent messages for download thus decreasing mail download time in maintaining your messages within your folders.

### Modify list settings

This page allows the system administrator to modify mailing list attributes, such as mailing list name, mailing list owner, description, enable archiving subscription, among others.

### END USER/FREE LISTS PAGE

IEMS enhanced DL Manager also allows local users to subscribe to/unsubscribe from the Available Mailing List via DL Manager End User or Free List page. However, the user must first log in to the IEMS End User or Free Lists page.

To subscribe to any of the available mailing list through DL End User page, user must log in by clicking the End User link of the Main IEMS Web Interface. The end user login screen presents a username and password for authentication. Once the user has been authenticated, the available mailing lists, with short description as provided by the system administrator, and end user's current subscription status will appear. If the user accessing this page is currently subscribed to any of the available mailing lists, the list will be marked with the word subscribed.

The DL End User Page allows the Distribution List (DL) Owner to access his mailing list. Before the DL Owner can access his mailing list, he/she must first type in his/her username and password as entered by the system administrator in the Distribution List database. Once authenticated as the DL Owner, the Main User Page will appear allowing him/her to perform mailing list-related operations, such as modifying list settings, add/delete subscriber(s), view list of subscribers, provide descriptive information and update his password.

### 4. Customizable User Interface

Another important feature of the Web Mail Client is that system administrators can customize the Web Mail Client according to the preferences of their company. System administrators can customize the Web Mail Client using domain-based stylesheets. You can also define the headers and footers by using html/plain text files or running your own executable programs. The headers and footers can be further defined for multiple domains in case the Internet Exchange Messaging Server is set to handle multiple domains. The

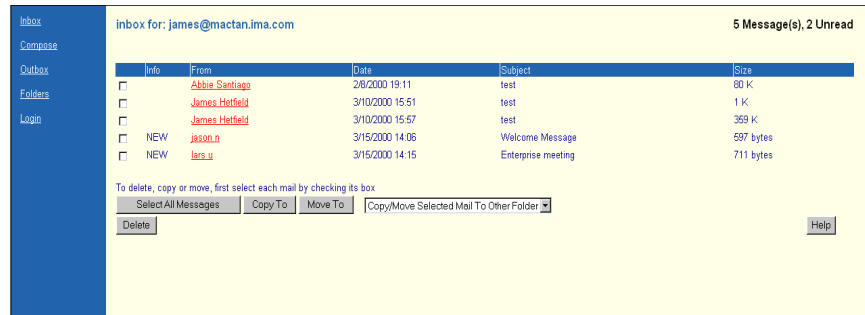


Figure 4: Web Mail INBOX

headers and footers are applicable to both menu and body of the Web Mail Client Interface.

### Operation and Administration

#### LOGIN

Before users can access their mailbox, they have to log in using the proper authentication procedure. The Web Based Mail Client's Login screen presents a user name and password dialog box for user validation. If the login fails, the user will be informed through an "error message" dialog box. Once the user has successfully logged in, the Web Mail Client main page will be displayed.

#### MENU FRAME

A frameset with two panes will contain the links and screen for the user to compose his mail messages. The left frame contains the MENU hyperlinks while the right frame contains all the output corresponding to the functions found in the Menu frame. The Menu Frame of the Web Mail Client can be found at the left-hand pane of the screen.

#### INBOX

The Inbox displays the summary information of the incoming mailbox of the user. New as well as old messages are listed accordingly with their corresponding authors, date and time of receipt, subject heading and file size. The Inbox also contains an option to delete, copy or move a corresponding mail to a predefined folder. See **Figure 4**.

move the messages to another destination or folder. To deselect the messages, click on the *Deselect All Messages* button and the messages will automatically be deselected.

#### OUTBOX

Similar to the Inbox, the Outbox displays a summary of the messages sent by the user. Newly sent messages as well as formerly sent messages are listed accordingly with their corresponding recipients, date

and time sent, subject heading and file size.

#### NEW MESSAGES

To compose new mail messages, the user is provided with a blank form that allows him to freely compose his message. See **Figure 5**. After typing your message, click on the *Send* button to deliver the message to its intended recipient.

#### FOLDERS

The Folders hyperlink of the Menu Frame displays a summary information of all the available folders contained in the user's mailbox. The Folders interface also displays a summary of all the messages for a particular folder. If a user clicks on a specific folder say, Administrative, the different messages contained in the Administrative folder will be displayed. A check box is provided for every message in the folder to allow the user to mark specific messages.

With just a single button, users can already select or deselect all the messages in the particular folder. Once the *Select All Messages* button is clicked, all the messages listed in the particular folder will be selected. The user has the option to delete, copy or move the messages to another destination or folder. To deselect the messages, click on the *Deselect All Messages* button and the messages will automatically be deselected.

#### MESSAGE CONTENTS

When the user clicks on a message, aside from viewing the original message contents, the following information is also being provided by the Web Mail Client:

##### Message Header

The Web Mail Client's Message Headers shows the mail's contents before the 'first' blank line is displayed.

##### Message Source

The Web Mail Client displays the original message



Figure 5: Composing New Web Mail Messages

content of the mail message via the Message Source function.

### REPLY/REPLY ALL/FORWARD

A user has the option to reply, reply all or forward a particular message to several people. To Reply to a sender, click the 'Reply' link at the bottom of the page and a new page will be displayed to let you Reply to the email message. If the user would like to reply to all of the people listed in the "From", "To" and "Cc" fields. ("From" field contains only one address) he should click the 'Reply All' link at the bottom of the page. To Forward a message to another person, click the 'Forward' link at the bottom of the page. Type the name of the recipient at the 'To' field and then click on the Send Button to send the mail message.

### DELETE MESSAGES

The Web Mail Client allows users to delete particular messages from the folders allowing the users to maintain their folders.

### NAVIGATE PREVIOUS/NEXT MESSAGES

The users can easily move forward or backward when reading their messages by using the navigation tools

## Questions and Answers

*Continued from page 8*

comma. If the option is set to comma (","), the original comma character (",") will be retained. The default value for this option is semicolon (";").

**Q: Does IEMS 4.02 works with Lotus R5? There is no SMTP.BOX in R5 as SMTP routing is native. Is there a way to change the destination mail file in IEMS 4.02 so that it uses MAIL.BOX instead of SMTP.BOX?**

**A:** Yes, IEMS 4.02 works with Lotus R5 . Please download our whitepaper series on how to configure Lotus R5 with IEMS 4.02 from our website: <http://www.ima.com/pdf/notes5config.pdf>.

of the Web Mail Client.

### DOWNLOAD ATTACHMENTS

The Web Mail Client displays a hyperlink for the user to download file attachments. It displays the content-type of the message's body part as well as the name of the attachment on the screen. After displaying the file attachment on the screen, the user is prompted to save the file on the disk.

### LOG-IN

The Web Mail Client includes a feature to allow its users to log in using another login account. This can be done when you click the *Login* hyperlink from the Menu Bar of the Web Mail Client. The current user will be logged out from the Web Mail Client to let a new user be logged into the system.

### CUSTOMIZATION

The Web Mail Client CGIs use style sheets to customize the format of the web user interface. The style sheet is used for customizing the color, font size and font style that is used by the Web Mail Client CGIs. within the different CGI components.

## Internet Exchange News

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### Staff

Editor-in-chief.....Ajmal Samuel  
 Editors..... Rio Peralta, Ana Cruz  
 Editorial Consultant..... Tim Kehres  
 Graphic Artist..... Rio Peralta, Ana Cruz  
 Contributors..... Rogelio dela Cruz, Imee Villeza

Please send your comments and suggestions to:  
[doc@ima.com](mailto:doc@ima.com)

# Questions & Answers

**Q: Our current registered domain name is "jade.net" and the host name is ccMail so that any e-mail sent or received by the IMA gateway are of the format:**

**firstname.lastname@  
ccmail.jade.net**

**The company also has the domain name "jade.net".**

**What parameters can I change so that all e-mails sent/received are of the format:**

**firstname.lastname@jade.net**

**A:** Include the new domain "jade.net" in your Internet Exchange gateway. To do that, go to Configure/Setup/Connection tab and then input "jade.net" in the Alternate host/domain name box and click on the "Add" button. Your gateway will now accept e-mail with the address "user@jade.net".

If you want your users to have an address in the format "user@jade.net" for outgoing mail, go to Configure/Setup/Domains tab and then input an entry for the cc:Mail PO and for the Internet sub-domain box and click on the "Add" button. After defining the desired PO and the corresponding domain which is the "user@jade.net" the user of that PO will now have an outgoing address in that format.

**Q:** We have received reports from our users that the FROM addresses of Internet messages containing a comma within the " " is incorrectly changed by the Internet Exchange gateway to a semi-colon. A sample e-mail message is shown below.

**The external sender FROM header:**

"Last Name, First Name Department Company Name" <Firstname.Lastname@companyname.com>

**when converted to a ccMail address by Internet Exchange 3.13 becomes:**

"Last Name; First Name Department Company Name" <Firstname.Lastname@companyname.com>

**The comma between "Last Name" and "First Name" was changed to a semi-colon.**

**A:** In the Options section of your IMA.INI file please include the following

[Options]  
ReplaceCommaWith=,

In the previous version of Internet Exchange, when CCIN imports a message with a sender Internet address that includes the comma character (",") in the comment part, it would replace this character with a semicolon (";") to avoid causing problems in the ccMail environment, since the comma is being used as a separator in ccMail. However, the semicolon (";") is also a separator in Microsoft Exchange and it has been reported that the behaviour of Internet Exchange causes inconvenience to Exchange users. This option allows the gateway administrator to specify what character to use to replace the

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*"I used to think that cyberspace was fifty years away. What I thought was fifty years away, was only ten years away. And what I thought was ten years away... it was already here. I just wasn't aware of it, yet."*

- Bruce Sterling

## This Month's Tip

### How to install a license for IEMS 4.1 after software installation

To install a license after the software installation, start the Apache web server. Open your web browser (e.g. Internet Explorer, Netscape, among others) and type in the URL that will point to the License Update page (e.g. machinename.domain.com\ie v4\sysad\lupate\index.htm) in the IEMS web configuration.

Click the License Manager link on the left hand side of the screen. A new screen for installing/updating the license of the IEMS software components you installed in your machine will appear. The initial directory path displayed *C:\Cert* is based on the IEMTA.INI file entry. This entry should point to the directory containing the certificate files that were provided to you by IMA.

If your certificate file is located in another directory, type in the directory path where the certificate file is located in the Certificate Directory field. Tick the check boxes of the modules to be licensed which you installed in your machine. Then, click on the Update button to view the license information of the module(s). After you have successfully completed setting up the IEMS and installing the licenses, you may now start the program and configure the different modules.