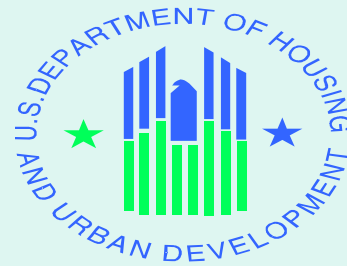


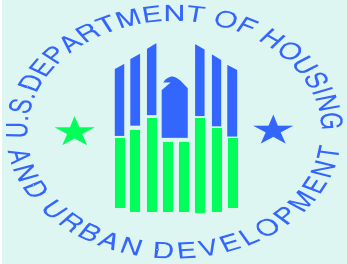
Multifamily Housing



TRACSMAIL Replacement



Integrated Multifamily Access
eXchange
(iMAX)



Functional Requirements

- Allow users to upload Monthly Activity Transmission (MAT) file to HUD for processing and download TRACS response files.
- Allow administrators to broadcast messages to all users.
- Ensure secure communications.
- Provide user management.



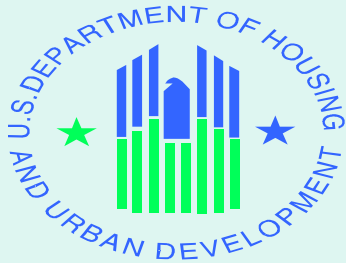
Business Decision

- Multi-family housing has made a decision to continue to support users (owners, owner agents, contract administrators) to send and receive messages with attachments among themselves.



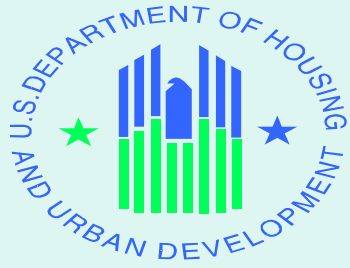
Security

- All communications are done through a secure web interface
 - Email (Only for Communication between CAs, OAs and MAs)
 - Upload MAT files/download response (Directly to and from HUD)
- Users go through double authentication – WASS and TRACSMail ID
- Web interface is secured with SSL (128-bit encryption with Triple-DES, which is the *de facto* standard for secure communications on the Internet).



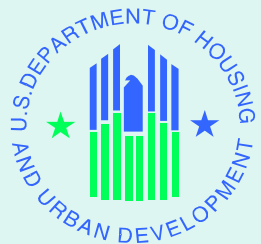
iMAX

- Provides two ways to submit and manage files:
 - Secure web interface with WASS sign-on,
 - Automatic transmission with web services (system to system).
- Provides audit log for all submitted files.
- Integrates with Simple Mail Transfer Protocol (SMTP) server.
- Provides foundation architecture for future enhancement.



iMAX (Internal Mail Server)

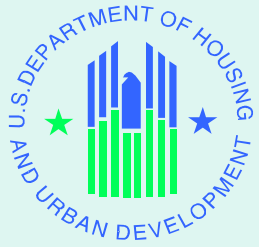
- Allows users (owners, owner agents, contract administrators) to send and receive messages with attachments among themselves.
- Allows users to send messages to groups.
- Uses open source software for rapid development. We don't want to re-invent wheels.
- Is easy to use and no training needed.



UI – Logon 1

M-ID

Password



UI – Logon 2

A screenshot of a Microsoft Internet Explorer browser window displaying a logon page. The browser's address bar shows the URL "C:\dev\maex\ui\login.html". The page title is "Integrated Multifamily Access eXchange". The main content area is titled "Log on" and contains a form with two input fields: "TRACSMail ID" and "Password". A "Log On" button is positioned to the right of the form. Below the form, there are two links: "> Forgot password?" and "> Need a TRACSMail ID?". At the bottom of the page, there is contact information for the Office of Multifamily Housing, Department of Housing and Urban Development, including the address "451 7th Street S.W., Washington, DC 20410" and phone numbers "Telephone: (202) 708-1112 TTY: (202) 708-1455". The browser's status bar at the bottom shows "Done" and "My Computer".



UI - Upload

Upload MAT File(s) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address C:\dev\maex\ui\fileUpload.html Go Links

To help protect your security, Internet Explorer has restricted this file from showing active content that could access your computer. Click here for options...

Integrated Multifamily Access eXchange Log off | Online Help

HUD Help Desk

Communications Activities **Transmissions** Profile

Upload MAT File(s)

Upload MAT File(s)

TRACSMail ID	[User ID]
Destination	<input type="text"/>
Subject	<input type="text"/>
MAT File	<input type="text"/> More files

Cancel Upload

Office of Multifamily Housing
Department of Housing and Urban Development
451 7th Street S.W., Washington, DC 20410
Telephone: (202) 708-1112 TTY: (202) 708-1485

Done My Computer



UI – Download

Response Activities - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\dev\maex\ui\responseActivities.html

Integrated Multifamily Access eXchange Log off | Online Help

HUD Help Desk

Communications **Activities** Transmissions Profile

MAT File Requests | > TRACS Responses

Messages from HUD Administrator
1 - 3 of 10 | [View all messages >>](#)

- > 10/09 System maintenance notification: system will be down 12 am -- 2 am 10/27/2007.
- > 09/29 New password regulation, please read.
- > 09/21 New service available, service specification can be accessed from ...

TRACS Responses for [User ID]

Responses of Last 24 hours

Receive Date	Transaction ID	Last Download Time	Status	Download
10/09/2007 05:32:14 AM	100907123456	10/09/2007 09:10:32 AM	Downloaded	
10/09/2007 05:32:18 AM	100907123457	10/09/2007 09:10:32 AM	Downloaded	
10/09/2007 05:33:28 AM	100907123459	10/09/2007 09:10:32 AM	Downloaded	
10/09/2007 08:32:14 AM	100907123487	10/09/2007 09:10:32 AM	Downloaded	
10/09/2007 09:32:18 AM	100907124457	N/A	Available	
10/09/2007 09:33:28 AM	100907128921	N/A	Available	
10/09/2007 10:02:40 AM	100907128989	N/A	Available	
10/09/2007 10:32:18 AM	100907130007	N/A	Available	
10/09/2007 11:03:28 AM	100907133459	N/A	Available	

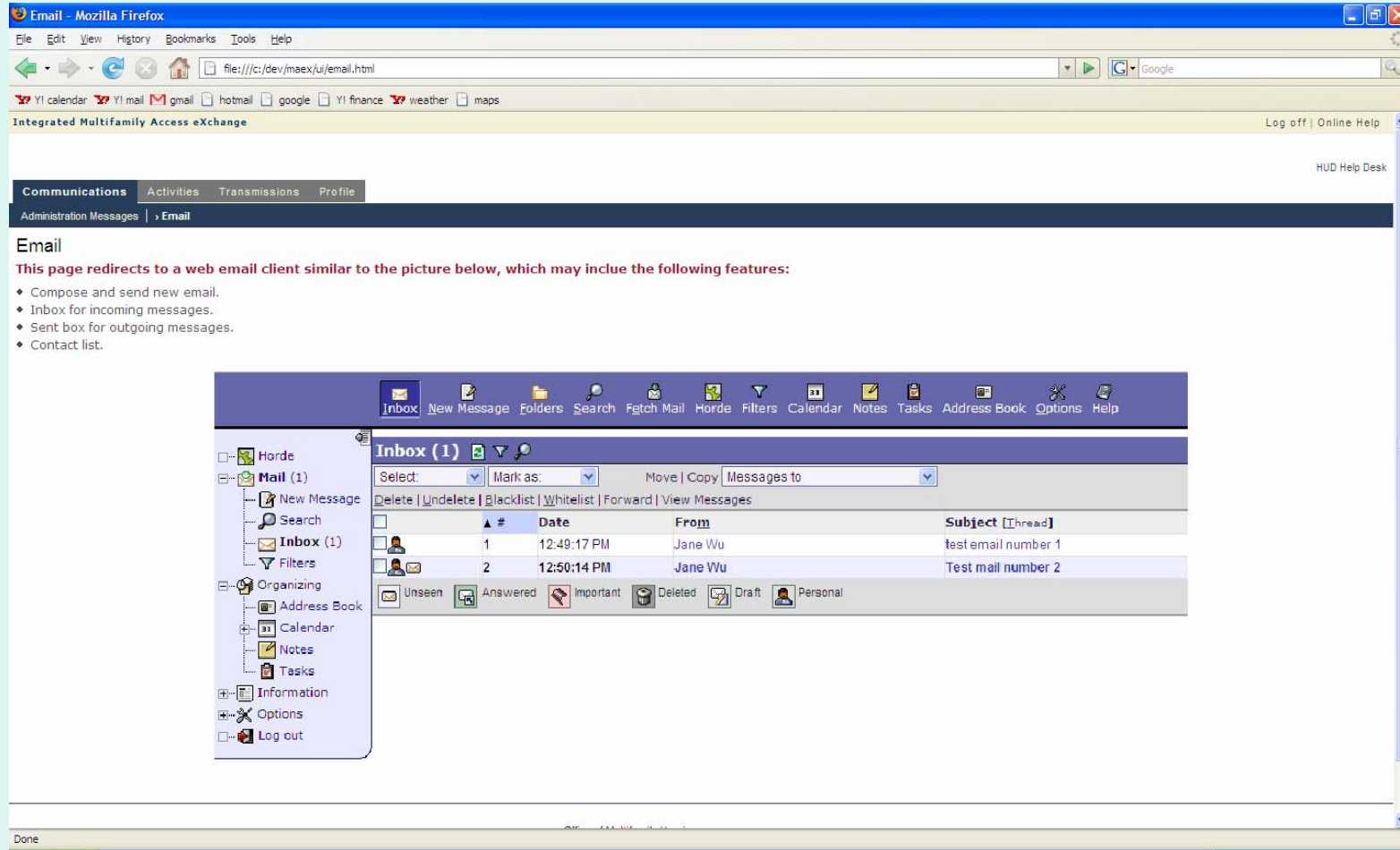
<< Previous | Next >>

Office of Multifamily Housing
Department of Housing and Urban Development

My Computer



UI - Email



The screenshot shows a Mozilla Firefox browser window displaying a web email client interface. The browser's address bar shows the URL `file:///c:/dev/maex/ui/email.html`. The page title is "Email - Mozilla Firefox". The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The browser's toolbar includes navigation buttons (back, forward, home, stop, refresh) and a search bar with the text "Google".

The web email client interface has a top navigation bar with "Log off" and "Online Help" links. Below this is a "HUD Help Desk" link. The main content area is titled "Email" and contains the following text:

Email

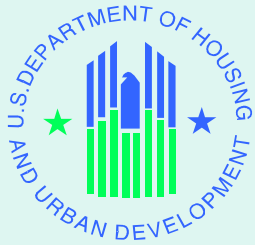
This page redirects to a web email client similar to the picture below, which may include the following features:

- ◆ Compose and send new email.
- ◆ Inbox for incoming messages.
- ◆ Sent box for outgoing messages.
- ◆ Contact list.

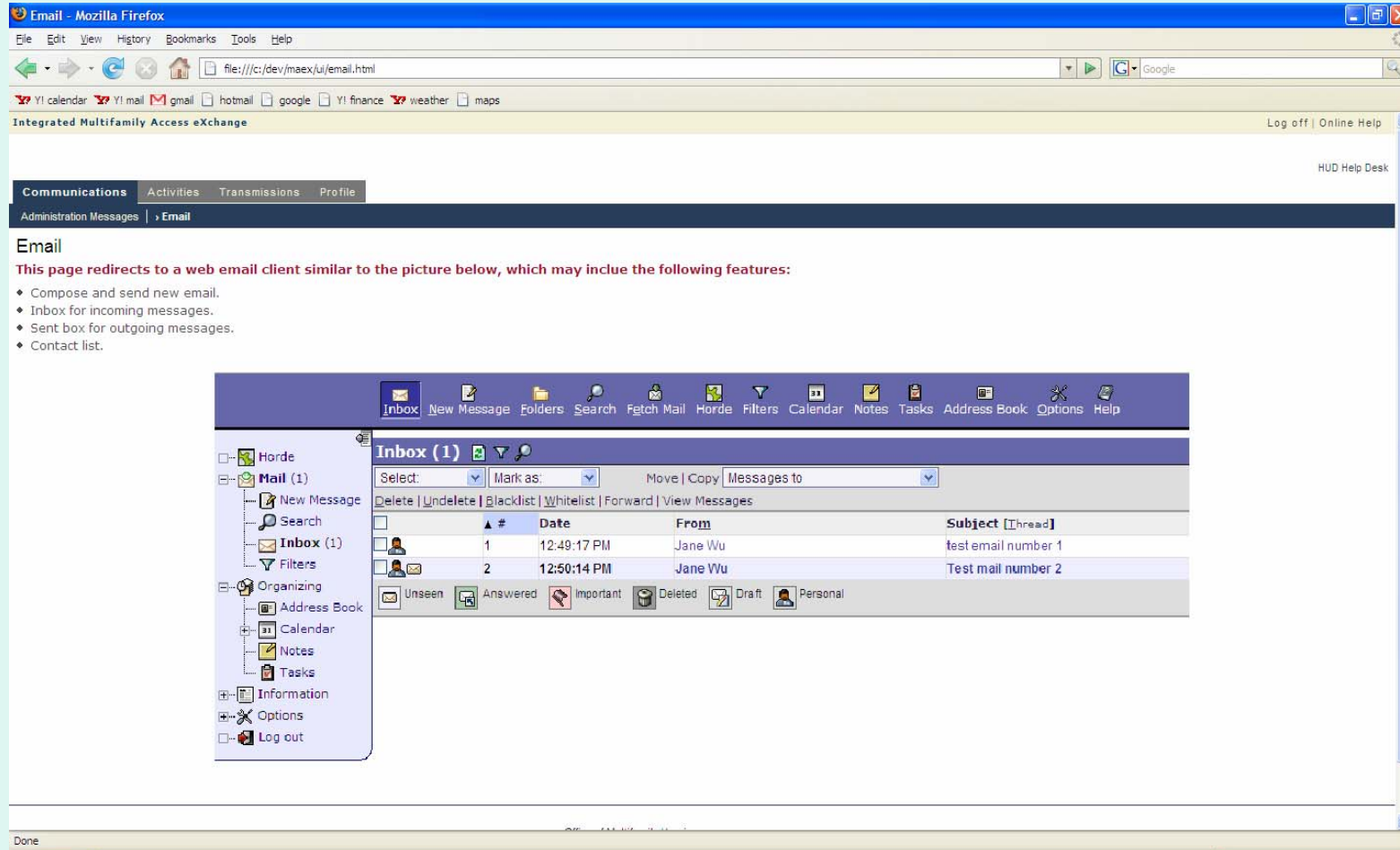
The screenshot also includes a detailed view of the web email client's interface, showing a toolbar with "Inbox", "New Message", "Folders", "Search", "Fetch Mail", "Horde", "Filters", "Calendar", "Notes", "Tasks", "Address Book", "Options", and "Help". The main area displays the "Inbox (1)" with a table of messages:

	#	Date	From	Subject [Thread]
<input type="checkbox"/>	1	12:49:17 PM	Jane Wu	test email number 1
<input type="checkbox"/>	2	12:50:14 PM	Jane Wu	Test mail number 2

Below the table are icons for "Unseen", "Answered", "Important", "Deleted", "Draft", and "Personal". The left sidebar shows a tree view with "Horde", "Mail (1)", "New Message", "Search", "Inbox (1)", "Filters", "Organizing", "Address Book", "Calendar", "Notes", "Tasks", "Information", "Options", and "Log out".



UI - Email



The screenshot shows a Mozilla Firefox browser window displaying a web email client interface. The browser's address bar shows the URL `file:///c:/dev/maex/ui/email.html`. The page title is "Email - Mozilla Firefox". The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The browser's toolbar includes navigation buttons (back, forward, home, stop, refresh) and a search bar with the text "Google".

The web email client interface has a navigation bar with "Log off" and "Online Help" links. Below this is a "HUD Help Desk" link. The main content area is titled "Email" and contains the following text:

Email

This page redirects to a web email client similar to the picture below, which may include the following features:

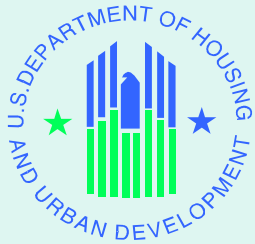
- ◆ Compose and send new email.
- ◆ Inbox for incoming messages.
- ◆ Sent box for outgoing messages.
- ◆ Contact list.

The screenshot also includes an inset image of a web email client interface. This inset shows a toolbar with "Inbox", "New Message", "Folders", "Search", "Fetch Mail", "Horde", "Filters", "Calendar", "Notes", "Tasks", "Address Book", "Options", and "Help". The main area of the inset shows an "Inbox (1)" with a table of messages:

	Select:	Mark as:	Move Copy Messages to
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

	Delete Undelete Blacklist Whitelist Forward View Messages			
<input type="checkbox"/>	#	Date	From	Subject [Thread]
<input type="checkbox"/>	1	12:49:17 PM	Jane Wu	test email number 1
<input type="checkbox"/>	2	12:50:14 PM	Jane Wu	Test mail number 2

Below the table are status icons: Unseen, Answered, Important, Deleted, Draft, and Personal.



Summary

iMAX

- Provides two ways to submit and manage files:
 - Secure web interface with WASS sign-on,
 - Automatic transmission with web services.
- Allows users to communicate with other users.
- Can integrate with user applications through web services. Web service is a standardized way of integrating Web-based applications using the XML, SOAP, WSDL and UDDI open standards over an Internet protocol.
- Provides audit log for all submitted files.
- Provides foundation architecture for future enhancement.