Give Your z/OS Applications an Email Address!

Customer
Requests

User
Requests

Deposit
Corrections

Report
Reprints

Mail²ZOS
FTPSweeper

Statement
Reprints

Database
Updates

Account
Reconciliations

Data
Transfers

CASI Software
Innovations in Mainframe Information Delivery

Mail²zOS provides any z/OS system with the ability to receive email messages with their attached data files directly onto the mainframe, store the data into host files, submit jobs to process the data, and finally to send email notices to keep appropriate people informed of the operations.

The Problem
How to empower users with no mainframe skills to move data to the mainframe, initiate the processing of that data, and obtain the results easily and without the necessity of imposing on the mainframe operations staff. Typical methods of transferring this data require knowledge of tools such as FTP or even IND$FILE. Such tools are completely foreign to most users and still don't complete the task because once the data has been moved to the mainframe a call must be placed to the operations department to have a job submitted or scheduled for later processing.
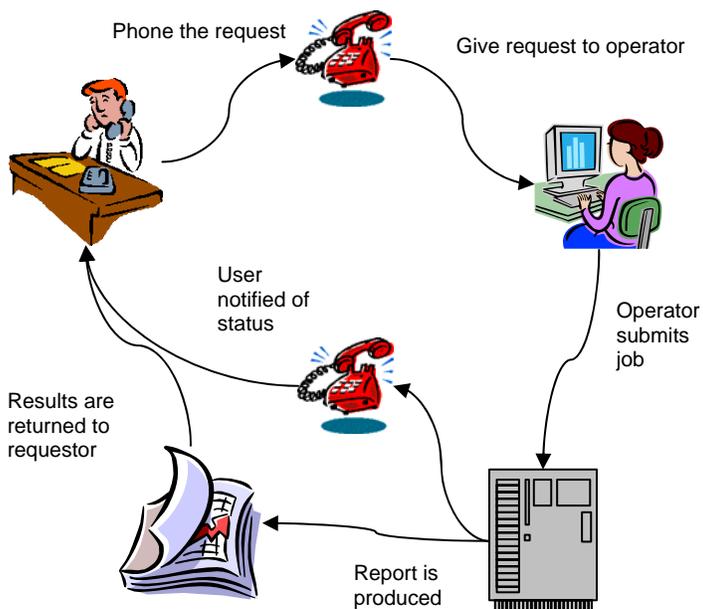
The Challenge
How to initiate the entire processing cycle, including data transfer, updating of JCL parameters, the submission of jobs and the sending of completion notices to all concerned parties, all from outside the mainframe while reducing human resource utilization and operational costs.
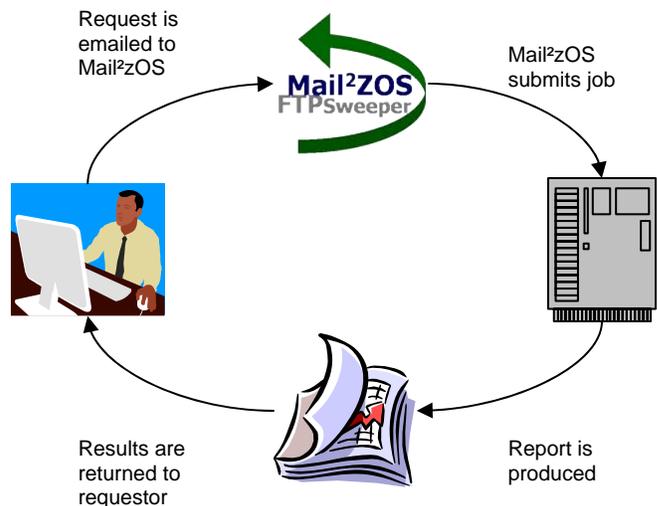
The Solution
The most convenient method of moving data is email. It is a tool already familiar to everyone and universally available. It is an easily understood process for anyone to grasp if they are asked to use email to send data to the mainframe. Training requirements are almost non-existent and consist almost entirely of giving users an email address to send their requests to and a message subject to use. The users create their email, attach any required data files, click on the "send" button and wait for the results.

Mail²zOS is the key to transforming the old, expensive, and time-consuming methods of handling user requests to a new, streamlined, hands-off method. Whether acting as an SMTP server or as a POP3 client, Mail²zOS securely processes user email requests, places their data into files, and submits jobs to process that data. Notices are sent back to the user to inform them that their data is being processed. It doesn't get any easier.

The Old Way

Phone the request

Give request to operator

User notified of status

Operator submits job

Results are returned to requestor

Report is produced

The Mail²zOS Way

Request is emailed to Mail²zOS

Mail²zOS submits job

Mail²ZOS
FTPSweeper

Report is produced

Results are returned to requestor

Mail2zOS
Email and DataFile flow

Email Client

Email w/attachments

Mail Server

Mail Server

Status and Confirmations

Mail2zOS

Z/OS Mainframe with Mail2zOS

Decode and Process Message and Attachments

Store Attachment files into DASD

Write attachment as SYSOUT to JES

Wrap data with JCL and submit for execution

Process Text with script language

JCL

JCL

Submit Job to process new file.

JCL

JCL
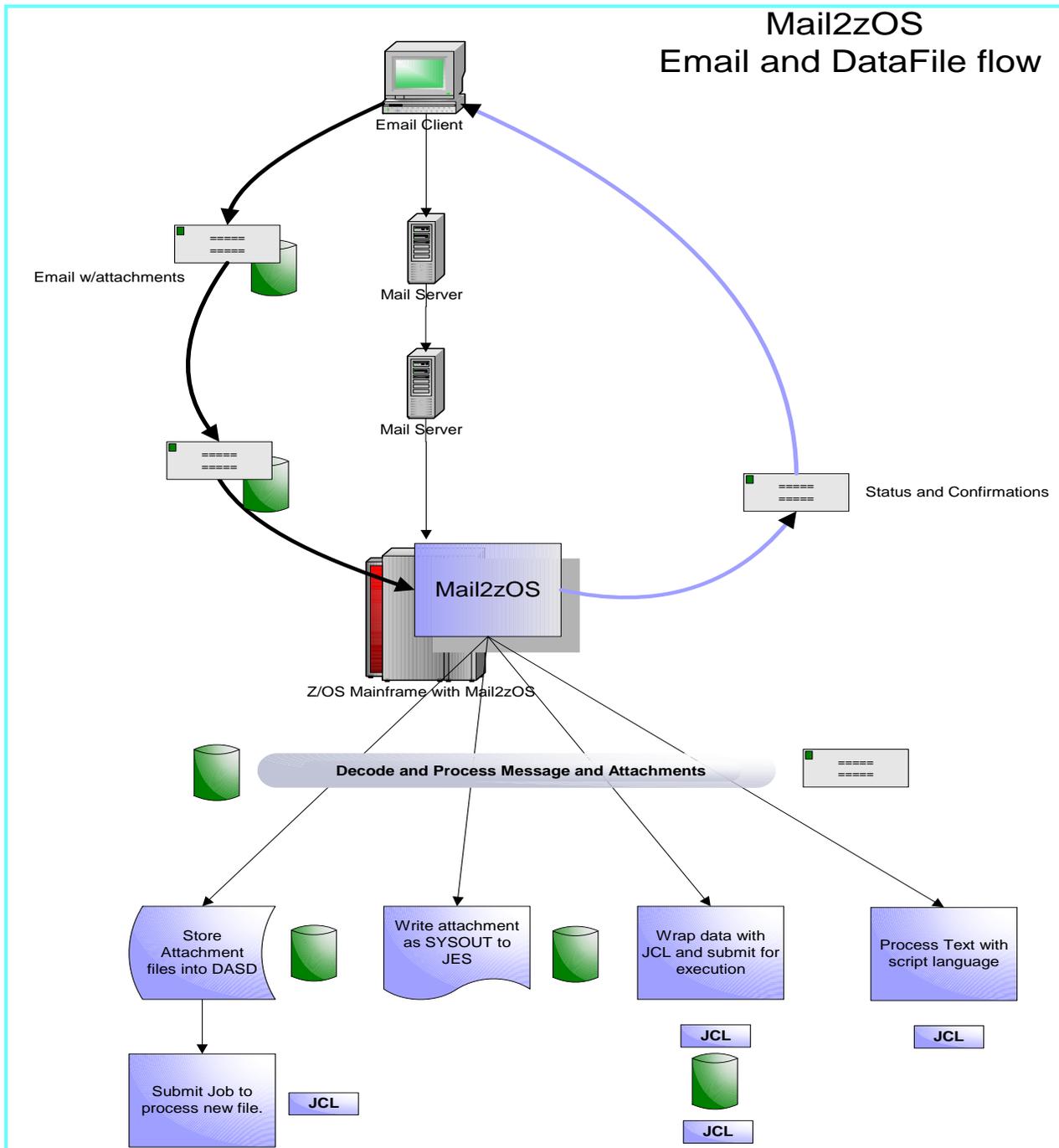
Mail²zOS will:

- Parse e-mail, separating the message body from attachments.
- Decode attachments and allow specific processing of each.
- Handle binary attachments as pure binary data streams, or blobs.
- Populate fixed length records, or support RDW for variable length record formats.
- Translate ASCII to EBCDIC automatically.
- Store text content to fixed or variable length files.
- Extract comma (or tab) delimited files into fixed format mainframe records.
- Create unique filenames for stored MVS files.
- Perform symbolic variable substitution, including dynamically modifying JCL.
- Use included scripting language to parse message contents and to compose JCL and status notices.
- Write files to JES as a SYSOUT.
- Compose and wrap JCL around a data file and submit it for execution.
- Send e-mail notices of messages processed and actions performed.
- Support primary and backup post offices for sending notices.

Benefits and Features	Mail²zOS	FTPSweeper
Operational Modes		
Receive Email as an SMTP mail server	X	
Retrieve Email from POP3 compliant mail servers	X	
Upload Files from FTP Servers		X
Only delete or rename original files after being safely stored on mainframe		X
Email Handling		
Safely store 'Raw' Email messages in host files	X	
Store Email into different host mailboxes to isolate applications	X	
Upload and Store files from different FTP into different host directories to isolate applications		X
Data File Handling		
Handle Text and Binary Data attached or uploaded files	X	X
Create unique MVS datasets to avoid overwriting existing files	X	X
Parse .csv (comma separated value) files into fixed field records for easy host usage	X	X
Parse binary files into fixed or variable length records, or treat as a blob	X	X
Write text files directly to JES as a SYSOUT for host printing or routing	X	X
Process text file with script language (ie. parse data from email for use in JCL generation)	X	X
Job Stream Handling		
Wrap JCL around text file and submit for execution	X	X
Submit Job to Internal Reader for Immediate Execution	X	X
Store Jobstream into Library for later execution	X	X
Issue console message to trigger job scheduler event	X	X
Perform Symbolic Substitution to insert values into JCL (ie. new filenames)	X	X
Support conditional composition of jobstream. (ie. based on contents of the email)	X	X
Script can look up values in tables (ie. lookup a password based on the sending email address)	X	X
Link to local routines (COBOL, C, Assembler) (ie. do a DB2 lookup or update)	X	X
Miscellaneous		
Send email notice to the sender to confirm actions performed	X	X
Send email notice to Operations to keep them informed, and provide an audit trail of requests	X	X
Issue TSO messages for immediate notification of events	X	X

Visit **www.mail2zos.com** to learn more of what Mail²zOS can do for you!

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