

Enterprise Output Manager

UEOMSplit
Guide

UNISYS

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Section 1

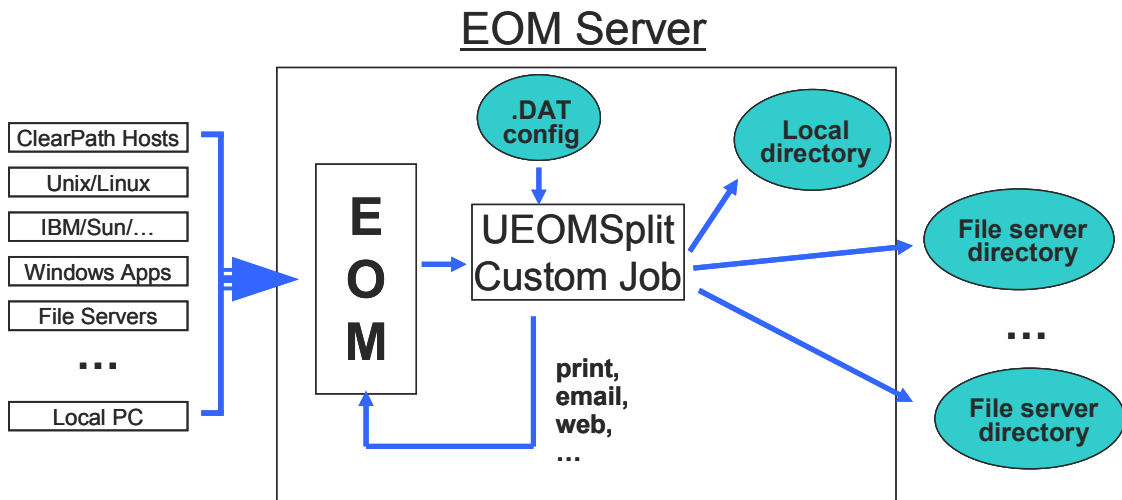
Introduction

Enterprise Output Manager is a totally integrated output management solution that allows you to automatically customize and send selected output file data to the destination of your choice: workstation, file server, mainframe, e-mail, fax, printer, Web site, PDF file, or custom program. The Output Manager Data Dependent Attribute (DDA) feature has the capability to split input files (see DDA Start Job syntax in the Output Manager Help file). The UEOMSplit program, configured as an Output Manager Custom Job, provides an additional solution to break up files and control the routing of the sections or 'pieces' of the file to the Output Manager EOM destinations. This capability does not require any change to the application producing the file and provides flexible control of the use of the sections of that file.

UEOMSplit can be seamlessly added to existing Output Manager Release 6.1 and later installations, requiring only the addition of Output Manager configurations to direct files to the program (File Mask), optionally format the incoming data stream (Print Attribute), and start the Custom Job (Custom Job Attribute).

The following figure shows the process of splitting files using the UEOMSplit program. First, Output Manager receives files from various remote and local sources, including ClearPath hosts, UNIX systems, Linux systems, Windows applications, and file directories. Depending on the Output Manager configuration, some or all of these files are passed to UEOMSplit (an Output Manager "Custom Job"), which Output Manager executes once for each file.

On each execution, UEOMSplit uses the .DAT configuration file to determine how to break up the file and what to do with each section of that file. The .DAT file can contain configuration statements for one or more files to be split (see .DAT Configuration below). The UEOMSplit program splits files based on changes of up to two values ("keys") in specific positions from page to page. The splits occur at full page boundaries regardless of where the "keys" are on that page.



Section 2

Installation and Configuration

Installation is performed by manually copying the UEOMSplit.exe program and EOMSplit.DAT configuration file to the EOM PC, placing it in an appropriate directory. For example, the two files might be placed in a directory named c:\CustomJobs.

Configuring the UEOMSplit Custom Job requires steps on the EOM PC. You must decide which files sent to Output Manager are to be split, which data areas in the file are used to split the file, and what to do with the split sections of each file.

.DAT Configuration

The .DAT configuration file is a simple text file that can be modified using NOTEPAD or any other tool that edits text files. This file is placed in the same directory as the UEOMSplit.exe executable and is named identically to the executable except for the extension (.DAT). The .DAT file can contain comment lines, which must be preceded with a period. Configuration values must be separated by at least one space. There are two sections in the .DAT configuration file:

- 1) ":ReportIdentifiers" define which files (a.k.a "reports") are to be split
- 2) ":Reports" define the action to be done for a particular split section found in the original file. The actions for each split section are: printing, e-mailing, e-mailing PDF, sending through the File Mask, saving to disk, or doing nothing with that section. .

.DAT Configuration - ReportIdentifiers

":ReportIdentifiers" is the first section of the UEOMSplit.DAT configuration file. Each file to be split has exactly one line in this section. This line defines up to two areas of the input file (called "keys") used to determine where the file is to be split. When processing a file, if either of the values for the keys change then a new section of the file is created **if** the key values match an entry in the "Reports" configuration of the UEOMSplit.DAT configuration file. If the key values do not match an entry in the "Reports" configuration then the current page is assumed to be part of the current section. If there is a match then the key values are then used to determine what to do (the action) with that section of the file (see .DAT Configuration - Reports below). Note that pages with the same key values must be contiguous to be split into the same file.

Example:

```
:ReportIdentifiers
.
.      Key1
.      Line Column Length  Line Column Length Reportfile
. *****
ClaimsReport      7   14   3      5   14   1
AnotherReport1   11   14   3     11   14   1  File:UEOMSplitAlt.DAT
P2D              11   14   3      0    0   0
DDA3200          1    9   3      2    9  12
DDA3300          2    9  12      0    0   0
```

The keyword ":ReportIdentifiers" is required. The other fields in the ReportIdentifiers lines are:

- 1) "Report Name" value is supplied on the execution line in the Output Manager Custom Job Attribute. It specifies which of the ":ReportIdentifiers" to use as well as which entries on the "Reports" configuration information to use for a section of the file.
- 2) Keys "Key 1" and "Key 2" specify where the data resides on the page used to split the file. For example, when splitting the "ClaimsReport", UEOMSplit will find the Key1 value in the input file on line 7 starting in column 14 for 3 characters, the Key2 value will be found on line 5 starting in column 14 for 1 character. Note that if the file does not require two keys, simply set the values of "Key2" to 0.
- 3) "Reportfile" is an optional parameter that defines a separate file to hold the "Reports" configuration information. This field is

typically used when there are many entries in the Reports section of the UEOMSplit.DAT file and would be easier to manage as a separate file.

.DAT Configuration - Reports

":Reports" is the second section of the UEOMSplit.DAT configuration file. There may be one or more entries for each "Report Name" defined in the ":ReportIdentifiers" configuration. When processing a file, the "Key1" and "Key2" values are compared against each entry in the ":Reports" configuration for that "Report Name". If there is a match, the values on the ":Reports" configuration line are used to process that section of the file. There can also be multiple lines defined with the same Report Name / Key1 / Key2 values if multiple actions are to be done to the same section of the file.

Example:

```
:Reports
. Report name  key1 key2 Banner                               DestType      Destination  FileTitle
. *****      **** *****
ClaimsReport  045  C   "045-C: C. Brown"          PRINT         XEROX96
ClaimsReport  045  C   "045-C: P Wall"           PRINT/L-PCL   PCLPtr1
ClaimsReport  045  M   "045-M: R Frost"         PRINT         XEROX96
ClaimsReport  008  D   "008-D: M Wong"          E-MAIL       MrEd@glueshoe.com
P2D           045  ""  "Daily P2D"                PRINT/Alt-PA  WXRPTR1
P2D           045  ""  "Daily P2D"                PRINT/Alt-PA  WXRPTR2
P2D           014  ""  "Daily P2D"                E-MAILPDF    maa@secr.state.wv.us
P2D           018  ""  "Mike Report"              WEBFILE       QUEUENAME
P2D           777  ""  "Summary Report"          NO-OP         NO-OP
DDA3200       ""   ""  "Save file"                NO-OP         SAVE
DDA3300       ""   ""  "Save file"                NO-OP         SAVEAPPEND   DDA3300a
DDA3300       ""   ""  "Save file"                NO-OP         SAVEAPPEND   <FILENAME>
```

The keyword ":Reports" is required. The other fields in the Reports lines are:

- 1) "Report Name" value is supplied on the execution line in the Output Manager Custom Job Attribute. It specifies which of the ":ReportIdentifiers" to use as well as which entries on the ":Reports" configuration information to use for a section of the file.
- 2) "Key1" and "Key2" values define specific data in the input file to split on. Note that the values of "Key1" and/or "Key2" can be null, represented by two double quotes. When set to null, ANY

value change from the previous page found for that key is considered a new section. This behavior is especially useful if you do not want to have multiple entries in the ":Reports" configuration, but do want the same processing done for each section.

- 3) "Banner" represents data you want to show up in the Output Manager Header page as an 'Identifier' in the print file (if the Header page is printed). If the DESTTYPE is E-MAIL or E-MAILPDF then this field is also put into the Subject field of the MAIL message.
- 4) "DestType" defines the action to be taken for this section of the file. Options are:
 - a. PRINT -- tells Output Manager to print the section to the "Destination"
 - b. E-MAIL -- tells Output Manager to e-mail the section to the "Destination"
 - c. E-MAILPDF -- tells Output Manager to make a PDF file and e-mail to "Destination" by printing to the printer "MAILPDF"
 - d. WEBFILE -- tells Output Manager to run the section through the File Mask. The File Mask value for "Host System" will be "UEOMSplit", The File Mask value of "Host Queue" will be "WEBFILE". The File Mask value of "Host Userid" will be the value in the "Destination" column. The File Mask value of "Host Bannerid" will be the value in the "Banner" column. A typical File Mask defined to identify the section of the file would include a conditional testing at least one of the hardcoded values, for example testing "Host Queue" against a string value of "WEBFILE".
 - e. NO-OP -- throw away this section if "Destination" is "NO-OP", write the section to disk if "Destination" is "SAVE", or write the section to disk and append if the file already exists if the "Destination" is "SAVEAPPEND"

By default the Print Attribute UEOMSPLIT is used when processing the "DestType" "PRINT". The default Print Attribute "GENERIC" is used when processing the "DestType" of "E-MAIL". You may specify an alternate Print Attribute by following the "DestType" value with a slash ('/') and a Print Attribute name. If the alternate Print Attribute doesn't exist, Output Manager will automatically use the "DEFAULT" Print Attribute.

- 5) "Destination" defines where the section of the file is supposed to be printed, emailed, File Masked, or stored as a file depending on the DestType value. (see DestType descriptions above)

- 6) "FileTitle" is the name of the file to write the section into if the DestType of "NO-OP" is used with a "Destination" of "SAVE" or "SAVEAPPEND". If the keyword "<FILENAME>" is used then the original input file name is used as the base for the file holding that section. Another way to write files into directories is to use the "DestType" of "PRINT" using an alternate Print Attribute that is configured with unique Web/File Output settings. With multiple alternate Print Attributes, this method allows for writing sections from the same file into different directories.

UEOMSplit Custom Job Attribute

A Custom Job attribute defines what program to execute and what parameters are to be passed to that program. In addition to the name and location of the UEOMSplit executable, the command line for UEOMSplit has required parameters and optional parameters. The format of the command line is:

```
UEOMSplit.exe InputFile OutputDir ReportName=aaa (options)
```

An example Custom Job Command Line is:

```
C:\CustomJobs\UEOMSplit.exe "<PCFILENAME>" c:\temp\hold
ReportName=ClaimsReport /d
```

Parameterized Options

<u>Option</u>	<u>Description</u>
InputFile	is a file name pointing to the original input file
OutputDir	is a directory where the split file sections are written
ReportName	Identifies which file is to be split, used to lookup the ReportIdentifier and Reports values in the .DAT file

Program Operation Options

<u>Option</u>	<u>Description</u>
/d	to delete the InputFile when done writing to output directory
/nw	for no wait -- disable single thread
/DCCP	to "Don't combine contiguous parts"
/ffCR	remove formfeed, space CR at beginning of file
/CRisCRLF	count CR as CR AND LF while editing input file
/fpcr	to put a CRLF at the top of the first page
/DTOG	to "Don't Take Out Garbage" file (the first section until valid Report values, default is to delete)

Required Output Manager Configuration

Aside from the File Mask that first submits the input file to the UEOMSplit Custom Job, other Output Manager configurations may be required when using UEOMSplit. UEOMSplit assumes that there are a few Output Manager configurations defined if those output actions are used. These attributes are used when the section of the split file is returned to Output Manager for further processing. The following Output Manager configuration entities must be defined & available if that output action from UEOMSplit described is required:

1) Printers:

- a. MAILPDF -- Physical printer to create PDF files to be emailed (set PDF and e-mail options on this printer in Configurations / Physical Printer)
- b. MAPI-PR -- to email text data (this pseudo printer must be enabled)
- c. All Physical Printers referenced in the Reports configuration "Destinations" of "DestType" PRINT

2) Print Attributes:

- a. UEOMSPLIT -- a default Print Attribute to compose sections (set properties based on customer specific desired formatting)
- b. MAILPDF -- a default Print Attribute to process E-MAILPDF sections (defined with Print Attribute / "Printer Driver" as "Windows Driver")
- c. GENERIC -- a default Print Attribute to process E-MAIL text (defined with Print Attribute / "Printer Driver" as "Generic")
- d. All optional Print Attributes defined on "Destination" values

3) File Group: UEOMSPLIT -- how long to hold the split files (sections) UEOMSplit produces

UEOMSplit uses the Output Manager COM "PRINT" interface to submit a section of the file back to Output Manager for further processing. This process occurs when the section of the file is configured for a "DestType" of "PRINT", "E-MAIL", or "E-MAILPDF". UEOMSplit uses the

Output Manager COM "MASK" interface when further processing of the section of the file is required for "DestType" of "WEBFILE". The File Mask field "Host System" will be "UEOMSplit" and the "Host Banner" field will be the value of "Banner" supplied in the "Reports" configuration in the .DAT file.

Error Handling

If the UEOMSplit program fails or if the "/L" logging option is used, an entry is added to the UEOMSplit log file, which can be found in the same directory as the UEOMSplit program. The log file entry will describe the failure and include the entire syntax used to execute the Custom Job. There can be a log file for each day, where the filename looks like:

UEOMSplitLog040210.txt

Where "04" is the year, "02" is the month, and "10" is the day this instance of UEOMSplit executed.

The Output Manager Event Log will also contain entries describing the failure, Use the Log Viewing & Report tool to view these messages if the real-time Event Log has scrolled beyond the error messages.

If the Custom Job property "Disable job if application fails" is set to "Yes" (EOM 8.1 and above) and there is a failure, an Alert will be set with the exit code for the type of failure:

- 0 - No failure, program completed normally.
- 10 - Problem with the command line syntax used.
- 11 - Program started, but there was a processing issue.
- 20 - The program encountered an exception.

Example

The following is a simple example showing how to configure UEOMSplit for the demonstration file. Suppose you have to split up the following file so that each branch is delivered only the statements

```

Page:      1

LIBERTY BANK
Branch: 01
1234 Greenback Dr
Dimetown CA  58743

UNI-STATEMENT
Account Number:
163997570
Statement Period:
Feb 1, 2005
Through
Feb 28, 2005

Abe Abber
89663 10th Avenue SW
Albany MS  20116.5

Summary for Account Number
Balance on Feb 1:      $   9173.00
Checks paid:          - 10152.00
Deposits:              2317.00
Interest(1.3%):       8.70
-----
New Balance on Feb 28:  $  1346.70

CHECKS PAID
. . .

```

for customers from that branch:

The branch information is on line 3, columns 9 & 10. An example UEOMSplit.DAT file to handle splitting the file by branch and delivering each section by branch requirements might look something

```

.
.      Configuration file for the UEOMSplit program
.
:ReportIdentifiers
.
.      Key1
.      Key2
. Report Name      Line Column Length  Line Column Length Reportfile
BANKSTMT           4   9     2         0   0     0

:Reports
. Report name      key1 key2 Banner      DestType      Destination
BANKSTMT          01  ""  "Stmt: BR 01"    PRINT         XEROX96
BANKSTMT          02  ""  "Stmt: BR 02"    PRINT/L-PCL   PCLPtr1
BANKSTMT          03  ""  "Stmt: BR 03"    E-MAIL        MrEd1@glueshoe.com
BANKSTMT          04  ""  "Stmt: BR 04"    E-MAILPDF     MrsX@SmallISP.com
BANKSTMT          05  ""  "Monthly Stmt BR05" WEBFILE        QUEUENAME
BANKSTMT          06  ""  "No banner"      NO-OP         SAVE          <FILENAME>
BANKSTMT          07  ""  "Save file"      NO-OP         SAVEAPPEND    STMT07
BANKSTMT          99  ""  "SUMMARY"        NO-OP         NO-OP

```

When the file is processed, the split sections will be processed as follows:

-- Branch 1: The section will print on Output Manager printer XEROX96 using the default Print Attribute UEOMSplit.

-- Branch 2: The section will print on Output Manager printer PCLPtr1 using the Print Attribute L-PCL

-- Branch 3: The section will be emailed to address "MrEdl@glueshoe.com" using Print Attribute GENERIC

-- Branch 4: The section will be emailed to address "MrsX@SmallISP.com" using Print Attribute MAILPDF

-- Branch 5: The section will be given back to Output Manager via the File Mask, setting File Mask Masking field "Host System" to UEOMSplit" and "Host Queue" to "WEBFILE" and "Host BannerID" to "Monthly Stmt BR05". The File Mask configuration

-- Branch 6: The section will be written to the output directory with the original input file name and unique extension.

-- Branch 7: The section will be written to the output directory to the filename "STMT07". If the file already exists then the "APPEND" will cause the section to be appended to the existing file.

-- Branch 99: This section is discarded.