

# Enterprise Output Manager

**UGiveItBack**  
**Guide**

# UNISYS

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# Section 1

## Introduction

The UGiveItBack program, configured as an Output Manager Custom Job, is typically used to send the original input file back to Output Manager with user configured values for the File Mask Masked Field values. Much of this capability is now available directly in Output Manager via the keyword substitution feature. There are other capabilities provided by UGiveItBack, but we recommend investigating the keyword substitution feature first.

Based on the execution parameters, UGiveItBack can do other things:

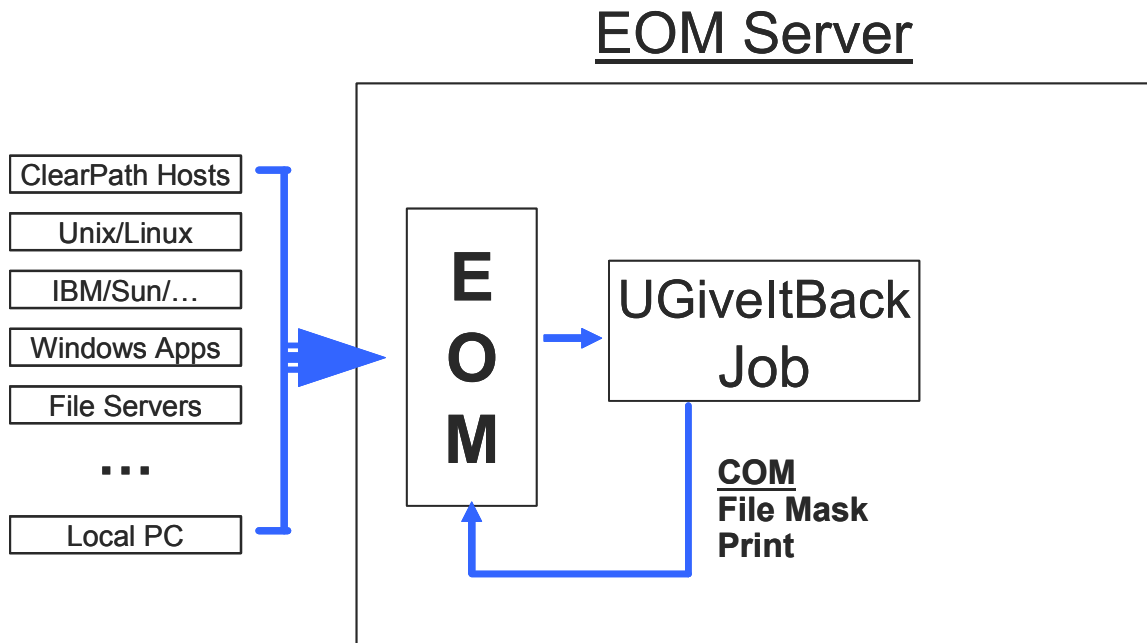
- Automatically submit a Print Job based command line parameters
- Split long records based on a column offset list
- Use the ZLIB compression algorithm to pack the file before sending back to Output Manager
- Use the ZLIB decompression algorithm to unpack the file before sending back to Output Manager

Use of this Custom Job does not require any change to the application producing the file.

UGiveItBack can be seamlessly added to existing Output Manager Release 7.0 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 when using the UGiveItBack 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 UGiveItBack (an Output Manager "Custom job"), which Output Manager executes once for each file.

On each execution the UGiveItBack program sends the input file back to Output Manager, using the Output Manager COM interface, as per the command line parameters.



## Section 2

# Installation and Configuration

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

Configuring the UGiveItBack Custom Job requires steps on the EOM PC. You must decide which files sent to Output Manager create UGiveItBack Custom Jobs and what the UGiveItBack program is supposed to do with the input file.

## UGiveItBack 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 UGiveItBack executable, the command line for UGiveItBack has required parameters and optional parameters. The format of the command line is:

```
UGiveItBack.exe I1=InFile (options)
```

An example Custom Job Command Line is:

```
C:\CustomJobs\UGiveItBack.exe I1="<PCFILENAME>" D1=c:\temphold
HS=<HOSTSYS> HQ=<HOSTQUEUE> HR=<RUNID> HQL=<QUALIFIER> HFL=<FILENAME>
HA=<ACCOUNT> HB=<BANNER> HP=<PROJECT> HU=<USERID> s=(81, 161, 241) /d
```

In this example the input file is split into four parts: cols 1->80, cols 81-160, cols 161-240, and cols 241-> end of record and returned to EOM using the original File Mask Masked Field values.

If the PR parameter is defined, the UGiveItBack Custom Job will submit a Print Job to Output Manager COM interface instead of the COM interface File Mask submission. This would allow the application program data stream to dynamically request the EOM printer(PR) and the EOM Print Attribute(PA), which could reduce File Mask configurations like the EOM in-built keyword substitution feature. For example, using the UserTags as Print Attribute and Printer would look like:

```
.../UGiveItBack.exe I1="<PCFILENAME>" I1=InFile D1=Outfile PR=<USERTAG1>
PA=<USERTAG2>
```

Note that the printer and Print Attribute must be configured within EOM prior to Custom Job execution.

## Parameterized Options

<u>Option</u>	<u>Description</u>
I1=InputFile	is a file name pointing to the original input file
D1=OutputDir	is a directory where a new file is put if the split, string replace, pack, or unpack options are used
HS=	Defines the EOM Mask Field value HOSTSYSTEM
HQ=	Defines the EOM Mask Field value HOSTQUEUE
HR=	Defines the EOM Mask Field value RUNID
HQL=	Defines the EOM Mask Field value QUALIFIER
HFL=	Defines the EOM Mask Field value FILENAME
HA=	Defines the EOM Mask Field value ACCOUNT
HB=	Defines the EOM Mask Field value BANNER
HP=	Defines the EOM Mask Field value PROJECT
HU=	Defines the EOM Mask Field value USERID
HOF=	is used for logging (input use is ORIGFILENAME)
S=(n,n2,...)	is to split records, no record# ** can use file name
SR=(n,n2,...)	is to split records, with record# ** can use file name
R=('s1','s2')	is to replace a character or string s1 with another character or string s2 throughout the file. There are keyword strings for s2: CR for carriage return, CRLF for carriage return & linefeed, FF for form feed.
Hx={ln,cs,chs}	Replace the value Hx (HQ, HR,...) with values from the input file, specifically found on line 'ln', starting in column 'cs', for 'chs' characters. Example HB={14,55,5}. If there is no data then there is no change to that parameter.
PR=	is the default printer for the new print job
PA=	is the default Print Attribute to use
FG=	is the default File Group to use

## Program Operation Options

<u>Option</u>	<u>Description</u>
/d	to delete the InputFile when done writing to output directory
/p	Use the ZLIB algorithm to pack the data before sending to EOM
/up	Use the ZLIB algorithm to unpack the data before sending to EOM
/nw	for no wait -- disable single thread
/nr	no rename, delete if file exists in Outputdir
/sFF	put a formfeed after each group of split records
/IDFF	puts the string "\$DEPFF\$" before formfeeds
/L	to log the Custom Job run in a text file
/LEL	to log errors to the Event Log
/CRisCRLF	count CR as CR AND LF while editing input file

## Required Output Manager Configuration

Aside from the File Mask that submits the input file to the UGiveItBack Custom Job Attribute, other Output Manager configurations may be required when using UGiveItBack.

A Print Attribute may be required to compose the input data file stream prior to copying it to the directory. A typical example is when there are Output Manager specific code sequences sent from the MCP or O.S. 2200 host that are to be removed prior to writing the output file. This Print Attribute is typically defined with a "Generic" or "Generic-NoFF" Printer Driver. Similarly, a Print Attribute may be used to fully compose the print data into a page definition language (like PCL or PostScript) prior to further processing. Print Attributes may reference Data Dependent Attributes for data stream manipulation. If a Print Attribute is used, the pseudo printer "USER-PR" must be enabled.

Note that if a Print Attribute is defined on a Custom Job, Output Manager composes the data stream in a temporary file that is passed to the Custom Job. Typically it is the Custom Job's responsibility to dispose of this temporary file, which can be accomplished using the "/d" option. Please note that if you aren't using a Print Attribute but did use the "/d" option, then UGiveItBack will dispose of the original input file, usually an undesirable action.

The File Group settings must be set "long enough" for the Custom Job to access the file. This is not an issue when using a Print Attribute because a temporary file is created. Without a Print Attribute, the original file name is typically passed to UGiveItBack and unless the File Group is set to hold onto the file for a duration it is possible that Output Manager will remove the file before the UGiveItBack program is done with it. As a general rule, when not using a Print Attribute, set the File Group to remove the file from the Output Manager database after 1 hour.

File Masks may be required to process files returned by UGiveItBack. The Host System parameter is always set to "UGiveItBack" on files submitted to EOM by UGiveItBack.

## Error Handling

If the UGiveItBack program fails or if the "/L" logging option is used, an entry is added to the UGiveItBack log file, which can be found in the same directory as the UGiveItBack 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:

UGiveItBackLog040210.txt

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