

# Enterprise Output Manager

## Software Release Announcement

Release 14.0

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# Contents

<b>Section 1 General Description .....</b>	<b>1</b>
Overview of Enterprise Output Manager .....	1
General Features .....	1
Enterprise Output Manager Environment .....	3
Printers Supported.....	4
For More Information .....	5
<b>Section 2 Product Requirement.....</b>	<b>7</b>
Enterprise Output Manager Software Requirements .....	7
Creating PDF or XPS Files .....	8
Web Assistant Requirements.....	9
Unisys Mobile EOM Requirements .....	10
Enterprise Output Manager ClearPath MCP Requirements .....	10
Enterprise Output Manager ClearPath OS 2200 Requirements.....	10
<b>Section 3 Migration Considerations .....</b>	<b>13</b>
Media .....	13
Interoperability of ClearPath Host Versions .....	13
Migration/Compatibility Issues to Consider Before Installing the Service .....	14
<b>Section 4 Release Functionality.....</b>	<b>15</b>
Features Added in This Release .....	15
Support for IPP.....	15
Digital signing of the PDF documents .....	15
Option to configure multiple e-mail accounts for receiving e-mails .....	16
Send and receive e-mails using Exchange Web Services (EWS).....	16
Dynamic creation of folders on SFTP and FTP server .....	16
WebClient.....	17
New system keywords LT - To represent the less than (<) character GT – To represent the greater than (>) character .....	17
Enhanced Concatenate Variable Data Dependent Attribute command.....	17
Enhanced File Mask for selecting pages to print.....	18

Selection criteria in File Mask using embedded e-mail routing information .....	18
Enhanced Print Attribute to discard printing extra line feed and carriage return characters .....	19
Automatic backup of Output Manager Configuration .....	19
Avoid service idle state when a configured printer is missing.....	19
New SNMP nodes/ OID's to get the status of job scheduling and file receiving.....	20
Password encryption in Web Assistant.....	21
Single Sign-on in Web Assistant .....	21
Features Added in Enterprise Output Manager 13.0 .....	22
Secure File Transfer using SFTP.....	22
Unisys Mobile EOM .....	22
PDF Printing .....	23
Web Assistant Interoperability.....	23
Enterprise Content Management Integration.....	23
Secure Connection Using TLS 1.1 and TLS 1.2 Protocols .....	24
Download Multiple Files from Web Assistant .....	24
Create Certificate Request Using SHA2 Algorithm.....	24
Additional File Properties in Create Job Window .....	25
Allow DDA Variable From and To Properties Relative to End of the Data.....	25
New DDA Command to Draw Lines .....	26
Set the border position in DDA Draw Rectangle command.....	26
Web Assistant Database Enhancement.....	26
Adapt for TDATE\$ Remediation - MFD, Initial R2, ER-TDATE\$ .....	27
Log Entry Type 10400 update .....	27
Features Added in Enterprise Output Manager 12.0 .....	28
Support Large File Transfer from OS 2200 .....	28
Personalize E-mail Message Body.....	29
Hiding URLs of Files in the File Finder Search Result Page .....	29
DDA Conditional Commands ("If", "Else If", and "Else") Enhancements .....	30
DDA Set Variable Enhancement - Load Mixed Text and Keywords .....	30
DDA Convert Variable Enhancement - Get Data Type .....	31
Find and Replace in Configuration Explorer .....	32
Adobe Distiller Discontinuance .....	32

## **Section 5 Restrictions and Known Limitations ..... 33**

Discontinued Support .....	33
Windows Vista .....	33
Windows XP.....	33

Windows Server 2003 .....	34
Windows 8 .....	34
<b>Section 6 Support and Services .....</b>	<b>35</b>
Contacting the Unisys Support Center .....	35
Open Source and Third-Party Components .....	35
Enterprise Output Manager Services and Training .....	36
<b>Section 7 Customer Product Information .....</b>	<b>37</b>
Enterprise Output Manager Product Information .....	37
Documentation Updates .....	38
<b>Section 8 Ordering Procedure .....</b>	<b>39</b>
Overview .....	39
Subscription Pricing .....	39
Interim Corrections .....	40
Enterprise Output Manager Editions .....	40
Enterprise Output Manager Host Software .....	42
ClearPath Servers .....	42
Data Dependent Attribute (DDA) Designer Key and Web Assistant .....	43
PDF Writer .....	44
Secure E-mail .....	45
SFTP ADD ON .....	45
Unisys Mobile EOM .....	45



# Section 1

## General Description

### Overview of Enterprise Output Manager

Enterprise Output Manager is a comprehensive output management solution for mixed-platform networks. Running on a Windows operating system, Enterprise Output Manager automatically processes and routes print files and other application output files from any supported platform to any supported output destination. Automated processing is based on the file name, size, or other file characteristics you specify. In addition, Enterprise Output Manager lets you take advantage of a variety of delivery mechanisms, such as e-mail, Web, CD/DVD, and fax. With each of these delivery methods, Enterprise Output Manager can reformat text documents and data into a customized, modern appearance.

The primary benefits of Enterprise Output Manager are

- Operational cost savings
- Improved operational discipline
- Document modernization
- Remote administration

### General Features

The Enterprise Output Manager solution runs on a Microsoft Windows system to deliver information where you need it, when you need it, and in a format you can use. Enterprise Output Manager can process output files from a variety of systems, such as Unisys ClearPath, *Forward!*, and ES7000, IBM, Windows, Sun Microsystems, HP, UNIX, and Linux systems. With its standards-based open architecture, you can “unfreeze” application output files produced by various vendors, such as Oracle, PeopleSoft, and Unisys, or by customer-written application programs, such as COBOL, and other legacy applications.

Enterprise Output Manager can automatically customize and send these output files to the destination of your choice: a Windows workstation or server, file server, mainframe, e-mail system (SMTP or a MAPI compliant e-mail client), fax, CD/DVD, XML file, HTML file, printer, Web site, FTP server, HTTP server, Microsoft Office SharePoint Server (using HTTP PUT method), PDF file, XPS file, customer-written program, or software application.

This package provides all of the benefits of standards-based solutions. The open environment lets users easily and automatically access, distribute, and manipulate information in ways that maximize productivity and cost savings. The menu-driven tools provided with the Enterprise Output Manager client application lets you monitor, edit, modernize, and consolidate application output from a Unisys ClearPath system or any other major system connected to your computing environment.

Enterprise Output Manager accommodates both distributed and centralized print and data delivery needs. You can customize and distribute a single print file to multiple locations using any combination of delivery methods. For example, you can send tailored messages and attachments to e-mail users, route customized invoices to a remote department's LAN directory, create indexed files to be shared among users, send individualized facsimiles to clients, post the file to a Web site, and transfer portions of a master report to various departmental printers. With Enterprise Output Manager, you distribute information directly to users from low-cost distribution points.

The Enterprise Output Manager package is an integrated solution with versatility and flexibility of results. Implementing a few features results in substantial cost savings and productivity gains.

The Enterprise Output Manager data distribution and reporting solution is the leading, state-of-the-art technology in the industry. A United States Patent (Patent 5,559,933) was issued to Unisys Corporation for the Enterprise Output Manager system and method for transferring and printing files originating on mainframe computer systems, workstations, or personal computers connected within a heterogeneous computer network

Enterprise Output Manager runs on the following Windows operating systems when they are still supported:

- Windows 10 (Enterprise and Professional Editions)
- Windows 8.1 (Enterprise and Professional Editions)
- Windows 7 (Enterprise, Professional, and Ultimate Editions)
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008

Enterprise Output Manager host agent software runs on Unisys systems (Unisys ClearPath, MCP, and OS 2200 Series systems) and manages system output from those systems.

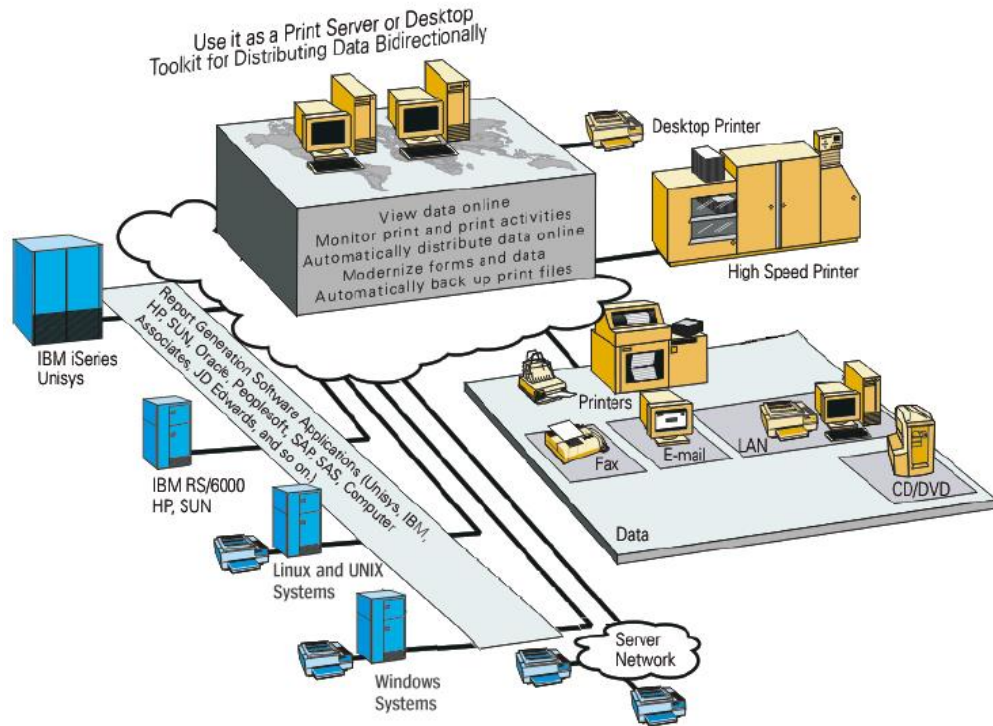
### **Terminology Used in This Document**

Enterprise Output Manager can run on either a Windows workstation or a Windows server. The term "Enterprise Output Manager server" is sometimes used to identify a Windows system running the Enterprise Output Manager software.



# Enterprise Output Manager Environment

The following figure illustrates the Enterprise Output Manager environment.



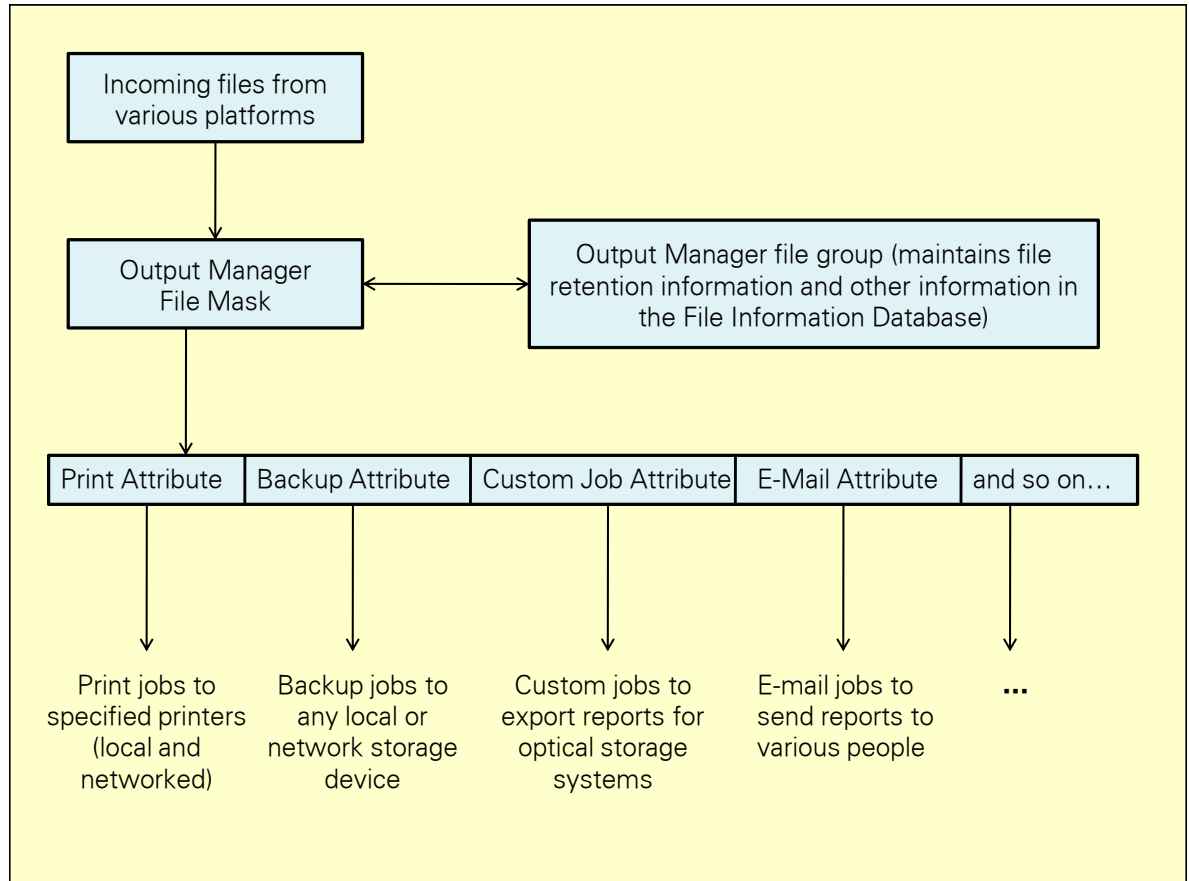
**Output Manager Environment**

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One of the key features of Enterprise Output Manager is its ability to print and process files automatically, based on the name, size, or other characteristics of the incoming files. Enterprise Output Manager accepts files from

- Windows workstations and servers
- IBM mainframes
- UNIX, Linux, IBM, and other systems using HTTP, IPP, or LPD protocol
- ClearPath MCP and ClearPath OS 2200 systems running the Enterprise Output Manager host agent software
- Unisys ES7000 servers
- *Forward!* partitions
- Directories that the Enterprise Output Manager server is set up to monitor
- Other inputs such as MQ, E-mail, COM, and .Net API and Web API
- Unisys Mobile EOM App

The following figure shows how Enterprise Output Manager can process incoming print files, resulting in the creation of various types of jobs.



**How Enterprise Output Manager Processes Incoming Files**

## Printers Supported

Enterprise Output Manager supports a large variety of printers, from small desktop printers to high-volume high-speed printers, including the following:

- Network-connected printers
- Printers defined in Windows
- Printers connected to UNIX/Linux and other systems using LPD, IPP or Raw TCP protocol

### For More Information

For more information about Enterprise Output Manager, contact your Unisys account representative or for a complete overview of Enterprise Output Manager features and capabilities, see Enterprise Output Manager Capabilities Overview video on Unisys.com. See Section 7 of this document for information about obtaining paper or online versions of Enterprise Output Manager documentation. Of particular interest is Section 8, which explains how you can move up to this release with significant cost savings by taking advantage of subscription pricing.

## **Software Release Announcement**

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# Section 2

## Product Requirement

### Enterprise Output Manager Software Requirements

The Enterprise Output Manager client software is installed on a Windows workstation or Windows server. As described in Section 8, Enterprise Output Manager is available in three “editions”– Enterprise Edition, Department Edition, and Professional Edition. Each Enterprise Output Manager edition requires the following hardware and software:

- Windows 10 (Enterprise and Professional Editions), Windows 8.1 (Enterprise and Professional Editions), Windows 7 (Enterprise, Professional, and Ultimate Editions), Windows Server 2016, Windows Server 2012 R2, Windows Server 2012, Windows Server 2008 R2, or Windows Server 2008.

**Note:** *The setup determines the bitness of the Operating System (32-bit or 64-bit) and then decides which version of Enterprise Output Manager must be installed. For example, a 32-bit Enterprise Output Manager is installed on the Windows 2008 32-bit server and a 64-bit Enterprise Output Manager is installed on Windows 2008 64-bit server.*

*(Bitness refers to the differentiation between 32-bit and 64-bit processor architecture.)*

- Microsoft .NET Framework 4.6.2. The installation for the English version of the .NET Framework is included on the Enterprise Output Manager installation media and ISO image. For other languages or to verify that other dependencies are also installed, please refer to the Microsoft Web site.
- A system that meets the minimum requirements of the Windows operating system.
- A hard disk with a minimum of 40 GB available for the Enterprise Output Manager software, plus enough space for the files that you want Enterprise Output Manager to process.
- A media drive.
- A network interface card to receive files from other systems through TCP communications.
- If the WebClient feature is selected, then the machine should have Microsoft IIS 7.5 (the Web Application Server for Windows) or later. Refer to the *Enterprise Output Manager Help* for more details.

### Creating PDF or XPS Files

To transform system output into PDF files, Enterprise Output Manager invokes PDF creation software, such as Enterprise Output Manager PDF Writer or Adobe Acrobat. Enterprise Output Manager can e-mail PDF files as attachments, send PDF files to a fax server for faxing, or place them in a directory for any other purpose. In addition, using the optional Web Assistant feature, Enterprise Output Manager can post PDF files on Web sites for viewing.

The Adobe Distiller Server as a stand-alone product has been discontinued by Adobe starting May 2013. As a result, Unisys will no longer support the use of Adobe Distiller to create PDF files. Alternatively, starting with Output Manager 10.0 release and later, the integrated PDF Writer can be used as the preferred PDF solution (this is available at no cost from Unisys). Unisys therefore strongly recommends that you move your document workflows to include the integrated PDF Writer.

#### **Notes:**

- *Unisys recommends to use Enterprise Output Manager PDF Writer to create PDF files. Other PDF creation software such as Amyuni PDF Converter and Win2PDF can still be used in the same way; however, any product issues are the responsibility of the appropriate vendor.*
- *The Enterprise Output Manager PDF Writer improves the performance of creating PDF files for high volume or large file applications. In addition, it allows you to create multiple PDF files simultaneously with different settings.*
- *If the Amyuni PDF Converter or Creator software is already installed on your system, you must decide on one of the following options:*
  - *Continue with the Amyuni PDF Creator software on the existing license terms that you have with Amyuni, or*
  - *Install the Enterprise Output Manger PDF Writer*

*You cannot install both the software— Enterprise Output Manger PDF Writer and Amyuni PDF Converter—on your system. If you decide to install the Enterprise Output Manager PDF Writer, you must uninstall Amyuni PDF Converter or Creator first, and reboot your system before installing the Enterprise Output Manager PDF Writer. This is because the Enterprise Output Manager PDF Writer internally uses the Amyuni PDF Converter driver, and the Windows spooler can use only one version of Amyuni PDF Converter driver at a time.*

Enterprise Output Manager can also create files that conform to the XML Paper Specification (XPS). XPS is another format that can be used to archive or publish content electronically. Enterprise Output Manager can generate XPS files by printing to the Microsoft XPS Document Writer printer. Enterprise Output Manager can then use the XPS files similar to using PDF files, with e-mail or the Web Assistant.

# Web Assistant Requirements

The Web Assistant works with the Enterprise Output Manager to post output files to a Web site so that end users on the Internet or Intranet can view the file using a Web browser.

The posted files originate from any standard source, such as a mainframe or a print queue. Posted files are typically in PDF format, but other file types are supported as well, such as TXT and HTML. In addition, an accompanying information file (.inf) provides characteristics that can be used for file searching.

Web Assistant requires the following supporting software for posting files to the Web and administering Web Assistant:

- Microsoft .NET Framework 4.6.2. The installation for the English version of the .NET Framework is included on the Enterprise Output Manager installation media and ISO image. To install other languages and to verify that the other dependencies are also installed, visit the Microsoft Web site.
- Windows 10 (Enterprise and Professional Editions), Windows 8.1 (Enterprise and Professional Editions), Windows 7 (Enterprise, Professional, and Ultimate Editions), Windows Server 2016, Windows Server 2012 R2, Windows Server 2012, Windows Server 2008 R2, or Windows Server 2008.
- Microsoft SQL Server; supported levels are SQL Server 2008, SQL Server 2008 R2, SQL Server 2012, SQL Server 2014, and SQL Server 2016.
- Supported levels of Microsoft IIS (the Web server service for Windows).
- A Web browser that supports HTML 4.01 or higher and CSS2 or higher, such as Microsoft Internet Explorer 11.0 or higher.

Each Enterprise Output Manager server or workstation that produces files for Web viewing requires

- Enterprise Output Manager 10.0 or higher
- PDF creation software, Enterprise Output Manager PDF Writer, if PDF-formatted output files are to be created and posted to Web Assistant monitored directories, or appropriate software to create any other file format that is to be posted to the Web Assistant Web site.

**Note:** *Unisys recommends to use Enterprise Output Manager PDF Writer to create PDF files. Other PDF creation software such as Amyuni PDF Converter and Win2PDF can still be used in the same way; however, any product issues are the responsibility of the appropriate vendor.*

Any server or workstation that searches and views the posted files requires

- A Web browser, as described above
- PDF viewing software, such as Adobe Reader

Viewing software required for any file types other than PDF

### **Unisys Mobile EOM Requirements**

The following requirements must be met to run Unisys Mobile EOM:

- EOM supported Windows Operating System
- EOM Department or Enterprise Edition (optional, only if you want to host mobile print service in a separate system and not in the EOM Server)
- EOM PDF Writer for printing PDF files
- EOM Web Assistant (optional, only if you want to search for and print PDF files present in your Web Assistant database)
- EOM supported .Net Framework
- IIS 7 or above with IIS Admin Console

### **Enterprise Output Manager ClearPath MCP Requirements**

To send and receive print files, ClearPath MCP systems must have the following:

- A supported level of Enterprise Output Manager for ClearPath MCP software
- An ICP connection to the LAN
- The TCP/IP stack communications software released with MCP
- Any supported MCP release
- Any release of the PrintS software compatible with MCP

### **Enterprise Output Manager ClearPath OS 2200 Requirements**

To send and receive print files, ClearPath OS 2200 systems must have the following hardware and software:

- A supported level of ClearPath OS 2200 software
- A supported level of Enterprise Output Manager for ClearPath OS 2200 software
- Software Library Administrator (SOLAR) for installing the Enterprise Output Manager OS 2200 Host Agent software
- A supported level of Communications Platform (CPCComm) or Communications Platform for Open Systems (CPCCommOS) including the TSAM migration mode – CMSA-CPCA



The Enterprise Output Manager OS 2200 component uses the TSAM interface and communications protocols of Communications Platform or Communication Platform for Open Systems to send files to and receive files from other systems over the network.

- Connections with other OS 2200 systems can use the RFC 1006 protocol stack (TP0 plus TCP/IP) or OSI protocols.
- Connections with Enterprise Output Manager servers and ClearPath MCP systems require the RFC 1006 protocol stack (TP0 plus TCP/IP).
- Connections with LPR/LPD systems require the TCP/IP protocol stack.



# Section 3

## Migration Considerations

### Media

There are three editions available with the Enterprise Output Manager Release 14.0 – Professional, Department, and Enterprise. These products are delivered on media or ISO image and are ordered separately. See Section 8 for ordering information.

The ClearPath Integrated Operating Environment (IOE) includes single-user license of the Enterprise Output Manager Department Edition. The product media or ISO image may be installed as a new installation or as an upgrade. In addition to the Enterprise Output Manager media or ISO image, appropriate host software is required for managing printed output from ClearPath MCP systems and OS 2200 systems.

#### **Enterprise Output Manager for ClearPath MCP**

Enterprise Output Manager for ClearPath MCP is now packaged with Print System (PrintS) software. There is no longer separate media for the Enterprise Output Manager software.

#### **Enterprise Output Manager for ClearPath OS 2200**

Enterprise Output Manager for ClearPath OS 2200 (Output-MGR) is included in the ClearPath Integrated Operating Environment (IOE) and Unisys Operating Environment (UOE). These are also delivered as non-keyed on a DVD and on the CP-OE1B fast load tape.

### Interoperability of ClearPath Host Versions

Enterprise Output Manager Release 14.0 ClearPath host versions (MCP or OS 2200) can send files to pre-14.0 Windows versions; similarly, pre-14.0 host versions can send files to release 14.0 Windows versions. This is important because it gives you the option to migrate one side at a time.

Enterprise Output Manager 14.0 or above ClearPath host versions must be installed on older ClearPath levels to support host to host transfer of files, created on future releases, with Exec configuration parameter `initial_r2_modified_swtime` (R2MSWTIME) set to TRUE.

# Migration/Compatibility Issues to Consider Before Installing the Service

If you have a prior level of the Enterprise Output Manager service (level 7.0 or greater) installed, installation of the Enterprise Output Manager service results in an upgrade of that prior installation. You cannot install a second copy of the Enterprise Output Manager service on your computer as you could do with Enterprise Output Manager releases prior to 7.0, which were not installed as a service.

The Enterprise Output Manager Release 14.0 client application does not upgrade the Release 13.0, 12.0, or 11.0 client application. The Enterprise Output Manager Release 14.0 client is installed as a separate application on your computer.

In addition, when migrating from an Enterprise Output Manager release prior to the level 7.0, you must address any of the following migration issues that are applicable to your system before installing the Enterprise Output Manager service. The issues are detailed in the Enterprise Output Manager installation information provided in the online help system. You should allow ample time to convert an existing configuration. If your site needs assistance in performing migration tasks, professional services are available (see Section 6 for details).

- Client and Server Compatibility
- Command Line Options
- Printing Incompatibilities
- Printer Support
- Network Printers
- Security Roles
- Mapped Network Drives
- Log Entries
- DDE Access to Enterprise Output Manager
- MAPI and CDO E-mail Messaging Interfaces
- User Jobs (now named Custom Jobs)
- Enterprise Output Manager Configuration Conversion and Initialization Utility
- Communications Configuration
- Batch Configuration
- Print Preview "Check File"
- Print Preview and DDA \$PhysicalPrinter System-Defined Variable
- SNMP Support

# Section 4

## Release Functionality

This section describes the features added in Release 14.0, as well as features that were added in Releases 13.0, 12.0, 11.0, and 10.0.

### Features Added in This Release

Enterprise Output Manager Release 14.0 includes the following new features and changes:

#### Support for IPP

##### Feature

This feature allows the user to do an encrypted data transfer to EOM from non-EOM sources. With this feature EOM supports IPP (Internet Printing Protocol).

##### Detailed Description

Prior to EOM 14.0, there was support for an encrypted transfer via LPR from EOM to EOM. There is no LPR or TPO solution for sending a file from the Windows environment (Non-EOM source) to EOM. EOM 14.0 supports for an IPP 1.1 or HTTPS inbound connection to EOM allows files to be transferred securely both over LAN and WAN. This provides secure transfers originating from non-EOM sources with the added benefit of secure transfers over a public network.

#### Digital signing of the PDF documents

##### Feature

This feature enables user to digitally sign the PDF documents while creating it using the Output Manager PDF Writer. Digitally signing PDFs with a digital e-mail signing certificate protects the content and also shows who signed or approved the document.

##### Detailed Description

Users can now configure the printer "Output Manager PDF Writer" for digitally signing the PDF documents while creating it. Properties added to the "Physical Printer" configuration attributes include the certificate, which has to be used for signing, reason for signing, physical location of the user who is signing the document and an optional image, which can be used as part of the signature.

### **Option to configure multiple e-mail accounts for receiving e-mails**

#### **Feature**

This feature enables user to configure multiple e-mail accounts for receiving e-mails.

#### **Detailed Description**

The earlier versions of EOM allowed users to receive e-mails from one e-mail account. In this release, users can configure multiple e-mail accounts to receive e-mails. The e-mail "Receive options" is enhanced to configure multiple e-mail accounts.

### **Send and receive e-mails using Exchange Web Services (EWS)**

#### **Feature**

This feature enables user to send and receive e-mail messages through Exchange Web Service.

#### **Detailed Description**

Earlier versions of EOM allowed users to send e-mail using SMTP and receive from any e-mail server that supports IMAP4 protocol. With this feature, a user can configure the e-mail "Send options" and "Receive options" to use Exchange Web Service just by specifying the credentials of the mailbox to send and receive e-mails. EWS can be used as an alternative option for SMTP (send) and IMAP (receive).

### **Dynamic creation of folders on SFTP and FTP server**

#### **Feature**

This feature provides an option to dynamically create a folder on the SFTP/FTP Server when you upload a file on it. This will not disable a job, if the destination path does not exist on the SFTP/FTP server.

#### **Detailed Description**

Prior to EOM 14.0 release, if the destination path did not exist on the SFTP or FTP server, then EOM would disable the transfer job. This feature allows you to create folders on the FTP and SFTP server, if the destination path does not exist. A new property "Create directory if it does not exist" is added under "FTP/SFTP" category in transfer attribute.

### WebClient

#### Feature

This feature provides the flexibility to monitor Output Manager job and other management queues on a web browser. This is a web application and it offers some of the functionalities of Output Manager Desktop Client application.

#### Detailed Description

This feature allows you to monitor Output Manager Server through a browser and by using a Web based interface. This application provides the interface to see the queue of Output Manger and some basic functionalities like;

- Deleting Jobs
- Locking/Unlocking printer
- Disabling/Enabling Jobs.

### New system keywords LT - To represent the less than (<) character GT – To represent the greater than (>) character

#### Feature

This feature enables users the use of new system keywords <LT> and <GT> to substitute '<' and '>' characters respectively in the properties which allow keyword substitution.

#### Detailed Description

Prior to EOM 14.0, there were no options to add '<' and '>' characters in any property's value field, if that property supports Keyword substitution. This feature expands the supported keywords, by adding two new keywords <LT> and <GT>, which represent the characters '<' and '>'. These new system keywords will also be available in the DDA setting type "keyword" as well.

### Enhanced Concatenate Variable Data Dependent Attribute command

#### Feature

This feature allows the user to compose a String text, with Keyword Substitution and Data Dependent Attribute variables in one step.

#### Detailed Description

Prior to EOM 14.0 level, if the user wanted to use EOM Keywords with string, the user had to create two different variables using Set Variable and then concatenate with the help of Concatenate Variable. With this feature an additional 'Setting type' by the name "Dynamic String" is added in Concatenate Variable. The following are capabilities of Dynamic string setting type:

- Behaves as a type of String which can take String values
- Allows Keyword Substitution

### **Enhanced File Mask for selecting pages to print**

#### **Feature**

This feature allows the administrator to set the page numbers that are to be printed while triggering the print job through the file masking statements. The Pages property will also allow keyword substitution.

#### **Detailed Description**

Prior to EOM 14.0 level, there was no option to dynamically set the page ranges to print for a print job created through a File Mask. It could only be set as a static value in the Print attribute, or in the manual "Create Print Job", or in the DDA Command "Start Print Job". A new property "Pages" is added to the File Mask attribute. It enables you to select the required pages to print.

### **Selection criteria in File Mask using embedded e-mail routing information**

#### **Feature**

This feature allows user to define the criteria in File Mask using embedded e-mail routing information such as e-mail subject, attachment name, originator, and e-mail address.

#### **Detailed Description**

Prior to EOM 14.0 level, EOM did not read the escape sequence of the incoming file and hence could not process the file in the file mask according to embedded attributes. With this feature:

- Users will be able to process an incoming file by applying a file mask based on any of the above-mentioned embedded attributes.
- The users can apply a file mask using wild characters.



### **Enhanced Print Attribute to discard printing extra line feed and carriage return characters**

#### **Feature**

This feature provides an option to ignore the last linefeed (LF) character in the file when the printer driver is selected as Generic-NOFF and avoid printing additional carriage return (CR) and linefeed (LF) characters in the output file.

#### **Detailed Description**

Prior to EOM 14.0, there used to be an extra CRLF at the end of file generated after the completion of the file created by a print job. At times, this was necessary, but there were also be times when these control characters should be avoided. EOM 14.0 introduces a new property "Discard the extra line feed and carriage return" added to Print Attribute. This allows you to ignore printing extra line feed and carriage return characters.

### **Automatic backup of Output Manager Configuration**

#### **Feature**

This feature provides an option to backup of the EOM configurations according to a schedule that can be set by the EOM Administrator.

#### **Detailed Description**

Prior to EOM 14.0, there was no option to automatically backup the EOM Configurations. To backup the EOM configuration, the administrator had to either take a backup of the data folder in the EOM installation directory or export all the EOM configuration to an XML file from the EOM Configuration explorer. With this feature, the backup of the EOM configuration can be scheduled and the administrator can set the backup location. This feature also provides an option to compress the backup file to save disk space.

### **Avoid service idle state when a configured printer is missing**

#### **Feature**

This feature disables those jobs that are queued for a configured printer which is no longer available in the system or network, when the EOM Service starts up. Therefore, with this feature, EOM service will process all other jobs which are not affected by the unavailability of the configured printer.

### Detailed Description

Prior to EOM 14.0 there could be a scenario where a configured printer is removed without administrator's knowledge. Next time when the EOM is restarted, all activity will be suspended because of the configuration error, and until the error is resolved none of the jobs would be executed. With this feature, EOM would continue processing other requests and it just queues up all the requests for the unavailable printer, and administrator is notified about the problem through Alert Explorer.

## New SNMP nodes/ OID's to get the status of job scheduling and file receiving

### Feature

This feature allows users to monitor job scheduling and file receiving status of Output Manager Servers using an SNMP tool.

### Detailed Description

Prior to EOM 14.0 level, if the Output Manager server encounters an issue after a server reboot then all "File Receiving" and all "Job Scheduling" will be disabled and the User has to configure alert policies to get notifications in such scenarios. In EOM 14.0, the User can now use an SNMP tool to get the status of all Output Manager Servers using the following nodes included under the "General" category of Output Manager MIB file,

- `genIsBackupJobSchedulingSuspended` - Whether or not Backup job scheduling is suspended.
- `genIsE-mailJobSchedulingSuspended` - Whether or not E-mail job scheduling is suspended.
- `genIsPrintJobSchedulingSuspended` - Whether or not Print job scheduling is suspended.
- `genIsTransferJobSchedulingSuspended` - Whether or not Transfer job scheduling is suspended.
- `genIsCustomJobSchedulingSuspended` - Whether or not Custom job scheduling is suspended.
- `genIsTransformJobSchedulingSuspended` - Whether or not Transform job scheduling is suspended.
- `genIsTransferReceivingSuspended` - Whether or not transfer receiving is suspended.
- `genIsDirectoryMonitorsSuspended` - Whether or not Directory monitors is suspended.
- `genIsRemotingAndCOMReceivingSuspended` - Whether or not Remoting/ COM receiving is suspended.
- `genIsMessageQueueMonitorsSuspended` - Whether or not Message Queue monitors are suspended.

- genIsE-mailReceivingSuspended - Whether or not e-mail receiving is suspended.
- genIsServiceIdleDueToConfigurationErrors - Whether or not the service is idle due to configuration errors.

### **Password encryption in Web Assistant**

#### **Feature**

This feature ensures that the Web Assistant user password is stored securely, as it is encrypted with AES 256 bit algorithm.

#### **Detailed Description**

Prior to Web Assistant 14.0, the user's passwords were stored as plain text. If someone gains access to the Web Assistant's database, then they could see the passwords of all the Web Assistant users. Similarly, the exposed Web API calls of Web Assistant also accept the passwords in plain text. Hence to resolve all these security issues, now the user passwords in the database will always be encrypted. In addition to this, the Web Assistant's Web API method that is used to authenticate the user will now accept the password as an encrypted string. The encryption is done using the RSA public key which is fetched through an API call to the Web Assistant Service and the private key will be maintained in the server. Hence, with this feature, the Web Assistant user's password will never be exposed in plain text form.

### **Single Sign-on in Web Assistant**

#### **Feature**

This feature allows the user to go to the File Finder Search page based on Windows Login account, without going to the Web Assistant Login page, once the single sign-on option is enabled by the Web Assistant Administrator.

#### **Detailed Description**

Prior to Web Assistant 14.0, if a Web Assistant user needs to access the File Finder page, they had to always go through the Login page of Web Assistant. With this feature, the Web Assistant user account can be mapped with the Windows Domain user account, when the user logs in to the Web Assistant for the first time. Going forward, the user will be directly taken to the File Finder Search page, by clicking the File Finder shortcut.

# Features Added in Enterprise Output Manager 13.0

Enterprise Output Manager Release 13.0 includes the following new features and changes:

## Secure File Transfer using SFTP

### Feature

This feature allows secure file transfer to an FTP site using the SFTP/SSH protocol.

### Detailed Description

Prior to EOM 13.0 level, secure transfer of files to FTP server required TLS/SSL (FTPS). Currently, Output Manager supports SFTP. This feature permits users to use the Public Key or valid credentials or both together for authentication.

## Unisys Mobile EOM

### Feature

This feature allows users to access the files posted using Web Assistant from a mobile device and print the files. The feature also enables the user to print documents from the mobile device to any Windows printer, which is configured on the Output Manager Server.

### Detailed Description

This mobile application allows users to select a file in the mobile device and print to a printer configured in the Output Manager Server. The file posted through Web Assistant can be searched by using available profiles or custom search criteria after logging in with valid web assistant user credentials. Users can select files in the search result and then print them to a printer configured in the Output Manager Server.

The application also provides options to set number of copies, page range, and simplex or duplex printer settings.

### PDF Printing

#### Feature

This feature allows users to print PDF documents to a Windows Printer.

#### Detailed Description

Prior to EOM 13.0 level, PDF file printing was not a built-in feature. Now, you can schedule a print job by using the Physical Printer attribute and Print Attribute to print PDF documents to a Windows printer. You can also configure the Page size, paper source, duplex options, orientation and page scaling in the Print Attribute to print the PDF documents.

### Web Assistant Interoperability

#### Feature

This feature allows users to develop a custom user interface for the Web Assistant File Finder and use the core service functionalities associated with this feature. Additionally, this feature provides the flexibility to integrate Web Assistant with any application that understands RESTful Services.

#### Detailed Description

For EOM 10.0 through 12.0 the Web Assistant application was migrated from ASP to ASP.Net. Beginning with EOM 13.0 the client side functionalities are exposed through the RESTful Service. This functionality allows the customer to completely customize the Web Assistant client pages.

The customers can reference this Web Assistant RESTful Service and use its exposed functionalities to implement a heavily customized client user interface for Web Assistant. It also allows for seamless integration of Web Assistant Client with any application that understands the RESTful services.

### Enterprise Content Management Integration

#### Feature

This feature allows seamless integration of Enterprise Output Manager with Enterprise Content Management solutions, such as Infolmage or any other solution that implements ECM standards. Therefore, functionalities in Enterprise Output Manager can be used by any Enterprise Content Management solutions.

#### Detailed Description

Prior to EOM 13.0 level, there was no support for Web Service offered by EOM; hence, ECM solutions, such as Infolmage, could not directly talk to the EOM service. As EOM complies with ECM standards with this feature, any content management solutions that follow the ECM standards can seamlessly integrate with EOM.

### **Secure Connection Using TLS 1.1 and TLS 1.2 Protocols**

#### **Feature**

This feature allows secure communication by using SSL, TLS 1.0, TLS 1.1, or TLS 1.2 Secure Communication Protocol.

#### **Detailed Description**

Prior to EOM 13.0 level, Output Manager used SSL or TLS 1.0 protocol for secure communication. Now, Output Manager supports TLS1.1 and TLS 1.2 protocol for secure communication. The highest protocol will be used for secure communication based on the highest secure protocol that both the client and server support.

### **Download Multiple Files from Web Assistant**

#### **Feature**

This feature allows users to select multiple files in the File Finder Search Result page and download them as a zip file.

#### **Detailed Description**

Prior to EOM 13.0 level, a user could download only one file at a time from the File Finder search result page. Now, the user can select multiple files in the search result grid, by selecting the check boxes on the left-most column of each row and download all of them as a single zip file.

### **Create Certificate Request Using SHA2 Algorithm**

#### **Feature**

This feature allows users to select either SHA1 or SHA2 Hash Algorithm while generating Certificates Signing Requests.

#### **Detailed Description**

Prior to EOM 13.0 level, Certificate Signing Requests were generated using SHA1 Hash Algorithm by default. Microsoft has announced a new plan to deprecate SHA-1 and will no longer trust certificates signed with SHA-1. Now, a user has an option to select either SHA1 or SHA2 Hashing Algorithm while generating the Certificate Signing Requests. This enables user to get the SSL certificate, which uses SHA2 algorithm.

### **Additional File Properties in Create Job Window**

#### **Feature**

This feature allows users to set additional file properties when they manually create a job, thereby enabling them to debug and analyze complex configurations.

#### **Detailed Description**

Prior to EOM 13.0 level, the Create Job window had limited file properties.

To analyze and debug the configuration, a user had to process a file through the File Mask. Now, the Create Job window has the following optional properties.

- File Description
- User Keywords
- Host Queue
- Host Account/Job Name/Charge Code
- Host System
- Host User ID
- Host Run ID/Mix Number
- Host Project/Job Class/Note Project
- Host Qualifier
- Host F-Cycle

### **Allow DDA Variable From and To Properties Relative to End of the Data**

#### **Feature**

This feature allows users to select partial contents of the DDA variable value relative to end of the data. Therefore, in various DDA programming this feature helps reduce the number of DDA commands required to define the size of the variable data and to calculate adjustment values for selecting or extracting the expected data.

#### **Detailed Description**

Prior to EOM 13.0 level, when using a variable, the From and To properties allowed either blank values or positive integer values. Therefore, it selected or extracted partial contents relative to the left or start of the DDA Variable value. When using a variable, users can now

- Specify the "From" property as a negative integer value to select the last N characters of the variable value.
- Specify the "To" property as a negative value to omit the last N characters of the variable.

### **New DDA Command to Draw Lines**

#### **Feature**

This feature allows a user to draw lines using the DDA command.

#### **Detailed Description**

Prior to EOM 13.0 level, a user had to draw a line by using the Draw Rectangle DDA command. In this case, the user had to specify the height or width as 0, which did not provide consistency on 64-bit systems. The new DDA command resolves these issues and also exposes additional settings to set the line style and line ending style, allowing the user to draw lines with consistent results.

### **Set the border position in DDA Draw Rectangle command**

#### **Feature**

This feature allows users to position the rectangle border inwards, outwards or the center of the rectangle coordinates. So the user has flexibility in aligning the lines and rectangle while drawing the rectangle and lines together as a grid. This also resolves the discrepancy in size and position of the rectangle drawn on x86 and x64 systems.

#### **Detailed Description**

Prior to EOM 13.0, while using a DDA Draw Rectangle command, by default the rectangles were drawn inwards. As the rectangles were drawn inwards, the lines that were drawn using the new DDA Draw Line command did not align appropriately. Also, the rectangle drawn using same coordinates on x86 and x64 system had a difference in size and its position. The new enhancement in the DDA Draw Rectangle command resolves these issues. The new property "Border position" allows to set the position as "Inwards", "Outwards" or "Center".

### **Web Assistant Database Enhancement**

#### **Feature**

This feature preserves any customizations that have been done to the Web Assistant Database during the time of Upgrade and Load operation.

#### **Detailed Description**

Prior to EOM 13.0 level, an upgrade of the Web Assistant database resulted in loss of all the custom objects that the Administrator had created in the Web Assistant database. This feature enhancement identifies all the customizations done to the Web Assistant database and retains them in the course of an Upgrade or Load operation.



## Adapt for TDATE\$ Remediation - MFD, Initial R2, ER-TDATE\$

### Feature

This feature is an enhancement which allows the Output Manager OS 2200 component (DEPCON) to use either TDATE\$ timestamp format or Modified-SWTIME timestamp format in the Master File Directory (MFD) items, based on the Exec configuration parameters `std_modified_swtime` (MFDMSWTIME) and `shared_modified_swtime` (MFDSHMSWTIME). This feature also handles the SDF label changes based on the Exec configuration parameter `initial_r2_modified_swtime` (R2MSWTIME).

### Detailed Description

TDATE\$ timestamp format year portion will wrap on 2028/01/01 00:00:00, resulting in ambiguous timestamps. The goal of the 2028 TDATE\$ Remediation is to remove the use of TDATE\$ for all new timestamps in all Unisys products by the year 2020. The DEPCON is adapted to determine the type of timestamp format required for the MFD and then accordingly use either TDATE\$ or Modified-SWTIME timestamps.

## Log Entry Type 10400 update

### Feature

The Log Entry type 10400 is updated for logging the date and time in the TIMEB timestamp format. This update is done in-line with the 2028 TDATE\$ remediation adapt.

### Detailed Description

The format of the type 10400 Log Entry has changed and the details are described below. The following changes are done under Enterprise Output Manager Host Log Entry (Subtype 0).

**Table 4-1.**

Word Range	Description
000 – 012	Version number is changed to 3
060	Unused. Previously used to record the date and time when the transfer began, in TDATE\$ format, local base
061	Unused. Previously used to record the date and time when the transfer was completed, in TDATE\$ format, local base
062-065	The date and time when the transfer began, in TIMEB format
066-071	The date and time when the transfer was completed, in TIMEB format

The following changes are done under Enterprise Output Manager Host Log Entry (Subtype 1):

**Table 4-2.**

<b>Word Range</b>	<b>Description</b>
000 - 012	Version number is changed to 3
034	Unused. Previously used to record date and time when the transfer began, in TDATE\$ format, local base
0127-0132	The date and time when the transfer began, in TIMEB format

## Features Added in Enterprise Output Manager 12.0

### Support Large File Transfer from OS 2200

#### **Feature**

The new feature supports transfer of large files up to the maximum size that can be created on OS 2200 from the Output Manager OS 2200 component to other servers running the Output Manager software.

#### **Description**

Prior releases of Enterprise Output Manager had restrictions for file transfers by imposing the file size limit of 262,143 tracks. Files that exceeded this limit were moved into an error queue during the transfer process.

#### **Customer Benefit**

This feature supports transfer of large files from the Output Manager 2200 component to other servers thus, enabling users to send or receive large files without any restrictions.

### **Personalize E-mail Message Body**

#### **Feature**

The new feature helps you to compose an e-mail body text by executing the personalize statements.

#### **Detailed Description**

Prior to Release 12.0, the e-mail message body could either be part of a specific static file or be part of a processing file. The E-mail Attribute is now enhanced to

1. Specify static text or dynamic text by using keyword substitution
2. Specify static image path or dynamically using keyword substitution
3. Set text style (font and color) and specify the file name to insert file content in the message body.

#### **Customer Benefit**

This feature allows personalizing the e-mail message body with a static or dynamic text, by changing the text style (font, color), inserting file content, and inserting images or logos.

### **Hiding URLs of Files in the File Finder Search Result Page**

#### **Feature**

The new feature hides URLs of files in the File Finder Search Result page.

#### **Detailed Description**

Prior to Release 13.0, when a user opened a file from the File Finder search result page, the actual URL of the file appeared in the address bar. As a result, the user could use the actual URL of the file and browse to other files posted using Web Assistant. The encryption feature now masks or hides the URL when a user browses or downloads a file.

#### **Customer Benefit**

This feature prevents a user from unauthorized access to files that are posted using Web Assistant, by hiding the actual URL of these files.

### **DDA Conditional Commands (“If”, “Else If”, and “Else”) Enhancements**

#### **Feature**

The new feature simplifies the task of creating command nodes. In addition, it enables you to configure one or more conditional statements in an “If” and “Else If” commands.

#### **Detailed Description**

Prior to Release 12.0, to create a command under the “If”, “Else If”, or “Else” DDA commands, a user had to drag and drop the new command under the conditional statement DDA command. Additionally, users had to configure many or nested conditional statement DDA commands to validate statements in a complex scenario.

This feature allows user to create commands under the “If” or “Else If” or “Else” DDA commands by eliminating the need to drag and drop. The “If” and “Else If” DDA commands are enhanced to specify multiple conditional statements combined with the “AND” or “OR” Boolean operator.

#### **Customer Benefit**

This feature reduces the number of steps required to create a command under the “If”, “Else If”, or “Else” DDA commands. The commands created based on the ‘If’ or ‘Else If’ or ‘Else’ DDA commands are now automatically positioned under the conditional statement DDA command.

The feature also allows users to configure more than one conditional statement in the “If” and “Else If” DDA commands by using the “AND” or “OR” Boolean operator. This reduces the number of conditional statement DDA commands and provides more flexibility in DDA.

### **DDA Set Variable Enhancement - Load Mixed Text and Keywords**

#### **Feature**

The new feature enables you to set a variable consisting of strings and keyword values.

#### **Detailed Description**

A new “Setting type” called “Dynamic string” is added that allows keyword substitution as a variable value is set.

### Customer Benefit

This feature allows users to define a new Setting type called "Dynamic string", which essentially behaves as a "Setting type" of "String" and allows keyword substitution. This feature is useful especially when users want to compose by setting a variable made up of strings and keyword values.

Prior to Release 12.0, the users had to use a combination of variables and several Concatenate Variable commands to achieve the desired result.

## DDA Convert Variable Enhancement - Get Data Type

### Feature

Detects the content type of a variable or partial contents of a variable and returns a numeric value.

### Detailed Description

A new "Conversion Type" called "Get data type" is added to the Convert Variable command. This allows in determining the content type of a variable or partial contents of a variable as indicated in the To/From fields of the DDA Convert Variable and returns a numeric value. Based on the contents of a variable, the following numeric values will be returned.

Value	Contents of Variable
0	Tab characters or spaces or both
1	Numeric characters
2	Alphabetic characters
3	Alphabetic and numeric characters
4	Special characters
5	Special and numeric characters
6	Special and alphabetic characters
7	Special, numeric, and alphabetic characters

### Customer Benefit

This feature allows users to determine the character mix in a variable. Based on the numeric value returned, the users can perform further computations in different scenarios, such as validating data for a barcode.

### **Find and Replace in Configuration Explorer**

#### **Feature**

Helps to quickly find an attribute or a particular text in the Configuration Explorer and replace with the desired value.

#### **Detailed Description**

Prior to Release 12.0, there was no direct way to search for an attribute or text in the Configuration Explorer and replace it. The Find and Replace option in the Configuration explorer now makes it easy to search for any configuration attribute or text and replace it with a desired value. Users can also restrict the search operation to a specific attribute or attribute type. All the search results appear in a grid that provides an option for the users to navigate to an attribute or its property.

#### **Customer Benefit**

This feature allows a user to quickly find an attribute or a particular text in the Configuration Explorer, saving the time when the user wants to debug or modify that particular attribute or text. The replace functionality eases changing multiple attributes or text instances.

### **Adobe Distiller Discontinuance**

#### **Feature**

Enterprise Output Manager no longer supports the use of Adobe Distiller to generate PDF files.

#### **Detailed Description**

Unlike EOM 11.0 and earlier versions, EOM 12.0 no longer supports the use of Adobe distiller for creating PDF files. Users can now use the Enterprise Output Manager Integrated PDF writer feature that was introduced in EOM 10.0.

Users can contact the Unisys representative to order this no-charge feature. They may also use a standalone PDF generator.

## Section 5

# Restrictions and Known Limitations

You must use the same version for the Enterprise Output Manager Client and the service it accesses. For example, an Enterprise Output Manager Release 14.0 Client can access an Enterprise Output Manager Release 14.0 service, but not an Enterprise Output Manager Release 13.0 service. (Note that this compatibility issue applies to only the first two numbers in the version designation. That is, a client version of 11.1.1 will work with a server version of 11.1.2, because they are both based on the 11.1 version.)

## Discontinued Support

### Windows Vista

Windows Vista reaches end of life on April 11, 2017, and after this date, Microsoft is not obligated to respond to bug fixes or provide security update. Therefore, Unisys no longer supports the use of Enterprise Output Manager on Windows Vista. The following are the impact:

- Starting from Enterprise Output Manager 14.0 release and beyond, Windows Vista is not qualified with any future releases of Enterprise Output Manager.
- For all supported releases of Enterprise Output Manager, and serviced releases, trouble reports (UCFs) may be rejected if the problem cannot be reproduced on a supported Windows release. To maintain Engineering support, customers must migrate to a supported Windows release.

### Windows XP

Windows XP desktop reached end of life on April 08, 2014, and after this date, Microsoft is not obligated to respond to bug fixes or provide security update. Therefore, Unisys no longer supports the use of Enterprise Output Manager on Windows XP. The following are the impact:

Starting from Enterprise Output Manager 11.0 release and beyond, Windows XP is not qualified with any future releases of Enterprise Output Manager.

- For all supported releases of Enterprise Output Manager (9.x and 10.0), and serviced releases (6.x, 7.x, and 8.x), trouble reports (UCFs) may be rejected if the problem cannot be reproduced on a supported Windows release. To maintain Engineering support, customers must migrate to a supported Windows release no later than the Windows XP end-of-life date, April 8, 2014.

### Windows Server 2003

Microsoft has announced the end of life date of Windows Server 2003.

<https://www.microsoft.com/en-us/server-cloud/products/windows-server-2003/default.aspx#fbid=c87icj6hZZV>

Windows Server 2003 desktop reaches end of life on July 14, 2015, and after this date, Microsoft is not obligated to respond to bug fixes or provide security update. Therefore, when support for Windows Server 2003 ends, Unisys will no longer support the use of Enterprise Output Manager on Windows Server 2003. The following are the impact:

- Starting from Enterprise Output Manager 12.0 and beyond, Windows Server 2003 will not be qualified with any future releases of Enterprise Output Manager.
- For all supported releases of Enterprise Output Manager (9.x, 10.0, and 11.0), and serviced releases (6.x, 7.x, and 8.x), trouble reports (UCFs) may be rejected if the problem cannot be reproduced on a supported Windows release. To maintain Engineering support, customers must migrate to a supported Windows release no later than the Windows Server 2003 end-of-life date, July 14, 2015.

### Windows 8

Windows 8 desktop reached end of life on January 12, 2016, and after this date, Microsoft is not obligated to respond to bug fixes or provide security update. Therefore, Unisys no longer supports the use of Enterprise Output Manager on Windows 8. The following are the impact:

- Starting from Enterprise Output Manager 14.0 release and beyond, Windows 8 is not qualified with any future releases of Enterprise Output Manager.

For all supported releases of Enterprise Output Manager and serviced releases trouble reports (UCFs) may be rejected if the problem cannot be reproduced on a supported Windows release. To maintain Engineering support, customers must migrate to a supported Windows release no later than the Windows 8 end-of-life date, January 12, 2016.



# Section 6

## Support and Services

Unisys brings together powerful hardware and software, satellite links, multi-language support, and 20,000 professionals to deliver round-the-clock, global service. Unisys understands that your business simply cannot afford to wait for support. That is why all Unisys support services are fully integrated to provide you with real-time access to the critical information you need.

### Contacting the Unisys Support Center

Support for your ClearPath server is provided by your Unisys Support Center. To initiate a support request, do either of the following:

- Submit a request online at <http://www.serviceonline.unisys.com>. After you log on or register, click **Create Service Incident**, and then follow the on-screen instructions. Enter the required information in the Support Request entry form.
- Contact the Unisys Call Reception Center (CRC). Access the Unisys Support website at <http://www.unisys.com/unisys/support/index.jsp?id=3400003>. After accessing the website, click **Phone Support**, and then click on the desired region for the direct telephone support. The site provides links to various types of support. It also includes a link to a Video Demonstration of the Unisys e-Service Portal, where you will see how to effectively use this easy web-based tool to access product documentation and submit support requests for Unisys-supported products.

### Open Source and Third-Party Components

Important licensing information concerning third party and/or open source software incorporated with the solution is located on the Unisys Product Support website at <http://public.support.unisys.com/common/ShowWebPage.aspx?id=6316&pla=ps&nav=ps>. Your download, installation, copying or use of this product constitutes acceptance of the terms in the corresponding License and Attribution Document.

## Enterprise Output Manager Services and Training

The following are summaries of the technical services and training opportunities that are available.

### Services

The Enterprise Output Manager Services group offers a full range of technical services, including

- *Consultation services* to answer site-specific technical questions.
- *Installation and configuration services* to create an information processing environment tailored to your site—for example, electronic forms or assistance with document modernization
- *Conversion services* to get clients up and running immediately and to maximize cost savings—for example, help you set up the 20 percent of the print jobs that generate 80 percent of the output.
- *Migration services* to help clients recently migrating to or from an IT vendor—ensures Enterprise Output Manager is compatible with new environments.

For more information on these services, contact your Unisys representative or send inquiries to [FOMservices@unisys.com](mailto:FOMservices@unisys.com).

### Training

Enterprise Output Manager specialists provide a variety of training options, including on and off site hands-on training workshops as well as customized trainings.

The training workshops include a Basic Workshop, where students learn and experience the basic user functionality of Enterprise Output manager, and an Advanced Workshop, where students learn to apply the most advanced capabilities that, for example, improve print and file management productivity and efficiency. See the workshop descriptions at <http://www.unisys.com/customer-education/default.asp>.

On site courses or customized training can be scheduled through your Unisys representative or with an Enterprise Output Manager Services representative, who can be contacted by e-mail at [FOMservices@unisys.com](mailto:FOMservices@unisys.com).

## Section 7

# Customer Product Information

## Enterprise Output Manager Product Information

Copies of Enterprise Output Manager product information are available through your Unisys representative or you can access online versions of various documents from the Enterprise Output Manager of Unisys.com:

<http://unisys.com/unisys/product/productdetail.jsp?id=1120000970006410080&pid=16000034&sid=1120000180000010000>.

After registering or logging on to the Unisys.com Web site, you can find online versions of various documents, including the following:

- Enterprise Output Manager Newsletters
- NOGKK and TGKK Case Study
- Enterprise Output Manager Training (brochure)
- Enterprise Output Manager Services (brochure)
- Enterprise Output Manager Overview video

Online versions of the following documents are included with the Enterprise Output Manager Release 14.0 installation media and ISO image:

- Enterprise Output Manager Help (6885 2698)
- Enterprise Output Manager Web Assistant Help (6885 2953)
- Enterprise Output Manager Mobile Print Server Admin Tool Help (8205 7241)
- Alert Explorer Help
- Alert Filter Editor Help
- Alert Policy Editor Help
- (only for OS 2200 and MCP system customers) ClearPath Enterprise Servers Enterprise Output Manager for ClearPath OS 2200 and ClearPath MCP Configuration and Operations Guide (7850 4362)

### Documentation Updates

This document contains all the information that was available at the time of publication. Changes identified after release of this document are included in problem list entry (PLE) 19207820. To obtain a copy of the PLE, contact your Unisys representative or access the current PLE from the Unisys Product Support Web site:

<http://www.support.unisys.com/all/ple/19207820>

- **Note:** If you are not logged into the Product Support site, you will be asked to do so.

# Section 8

## Ordering Procedure

### Overview

The following methods are available for obtaining pricing information and ordering new or upgrade versions of Enterprise Output Manager:

- **Method 1:** Unisys representatives can use the Unisys U-ACT application (a Windows application). U-ACT has been updated with the most current Enterprise Output Manager information, including software licensing, upgrades, discounts, and optional tools, and there are convenient links to Enterprise Output Manager documents and interim correction pages on Unisys.com.
- **Method 2:** Customers with software subscriptions or Unisys representatives in the U.S. can call Unisys Software Updates at 1-800-829-1313.

The most current Enterprise Output Manager software will be ordered, unless a different release level is specified on the order. Both methods of ordering Enterprise Output Manager software require you to specify the quantity of the desired Enterprise Output Manager editions.

### Subscription Pricing

Subscription styles are available that alleviate the cost and time to reorder major upgrade versions of Enterprise Output Manager Release 12.0. Notification of major Enterprise Output Manager upgrades will be sent to you with an easy-to-reply request for future upgrades. This process provides the following benefits:

- Subscriptions alleviate the difficulty of justifying the cost of an upgrade that was not included in annual budgets.
- Users will be provided with timely updates and upgrades so that they are always up to date on the latest version of products and have access to new enhancements and features.
- Subscription pricing is the most cost effective way of staying current with new Enterprise Output Manager feature releases.

### Interim Corrections

After installing Enterprise Output Manager, access the Unisys Product Support Web site at <http://www.support.unisys.com> to obtain the latest interim corrections for the installed level when there is a maintenance agreement in effect.

For a list of resolved software issues included with this release, see the PLE database (Note that the PLE database lists all Enterprise Output Manager fixes under the former product name, "DEPCON.") To obtain copies of PLEs, access the Unisys Support Online (USO) Web site at <http://www.service.unisys.com>.

### Enterprise Output Manager Editions

Each installed instance of the Enterprise Output Manager service requires a license. Each license includes a nontransferable, single-user copy of Enterprise Output Manager. The following editions of Enterprise Output Manager are available.

#### Enterprise Edition

The Enterprise Edition provides significantly greater performance capability than the other editions, especially when installed on a multi-processor system. The Enterprise Edition manages printers of any speed—specifically, high-performance Windows and TCP/IP printers that print greater than 70 pages per minute (ppm). The Enterprise Edition provides the best performance and capability of the Enterprise Output Manager editions. Remote client access is limited only by the capability of the system and communications of where the Enterprise Output Manager service is installed. Similarly, given sufficient system resources, this edition can support up to 25 concurrent printers, 25 concurrent transform jobs, 50 communication listening paths (inbound) and 50 communication sending paths (outbound), and thousands of enabled printers.

#### Department Edition

The Department Edition is used when more than one of a type of printer is required but does not have to support high volumes of data or high-speed printers. The Department Edition manages printers of speeds not to exceed 70 ppm, including Windows and TCP/IP printers. This edition limits client access to 5 concurrent remote applications\*, 5 concurrent print jobs, 4 concurrent transform jobs, 5 inbound and 5 outbound communications paths, and up to 50 enabled printers.

**Professional Edition**

The Professional Edition has two primary uses: First, for end users who want to view and possibly reprint all or parts of backup files created by another Enterprise Output Manager system. And second, an administrator (the person who maintains the Enterprise Output Manager configuration) may use it to test new configurations on a workstation before updating the production Enterprise Output Manager system. The Professional Edition manages one of each type of printer configurable in Enterprise Output Manager, including one Windows printer and one TCP/IP printer, where physical printers are not to exceed 40 ppm. This edition limits client access to 1 concurrent remote application\*. There is no limit to the number of client applications that may run on the same PC as where the Enterprise Output Manager service is installed. Further, this edition limits access to 1 concurrent print job, 1 concurrent transform job, 1 inbound and 1 outbound communications path, and 1 of each type of printer.

\* A "remote application" is defined as a single instance of an Enterprise Output Manager client running on a remote computer or an application using the Enterprise Output Manager .NET API running on a remote computer. If two Enterprise Output Manager clients are started by one user on one remote computer and an Enterprise Output Manager .NET API application is also running on the same remote computer, that counts as three remote applications.

The following table summarizes the differences among the editions.

	<b>Professional Edition</b>	<b>Department Edition</b>	<b>Enterprise Edition</b>
Printer speed	< 40 ppm	< 70 ppm	Any speed printer
Client application access	1 remote application; unlimited applications may run on the same PC as the service	5 remote applications; unlimited client applications that run on the same PC as the service	No limit; up to capacity of available resource
Concurrent print jobs	1	5	25 maximum, up to capacity of available resource
Concurrent transform jobs	1	4	25 maximum, up to capacity of available resource
Concurrent incoming connections utilizing any number of Listening Paths	1	5	50
Concurrent transfers utilizing any number of Sending Paths	1	5	50

Total E-mail Accounts that can be configured in Options - E-mail Receive	1	4	15
Enabled printers	1 of each type	50 of each type	No limit; up to capacity of available resource

## Enterprise Output Manager Host Software

In addition to Enterprise Output Manager software, appropriate host software is required for managing printed output from ClearPath MCP systems and OS 2200 systems.

### **Enterprise Output Manager for ClearPath MCP**

Enterprise Output Manager for ClearPath MCP delivers print files from MCP systems to one or more Enterprise Output Manager servers. Enterprise Output Manager for ClearPath MCP is now packaged with the Print System (PrintS) software. There is no longer separate media for the Enterprise Output Manager software.

### **Enterprise Output Manager for ClearPath OS 2200**

Enterprise Output Manager for ClearPath OS 2200 delivers print files from OS 2200 systems to one or more Enterprise Output Manager servers.

## ClearPath Servers

The Integrated Operating Environment (IOE) software for ClearPath servers includes

- One license and media for the appropriate Enterprise Output Manager host software
- One license and media for the Enterprise Output Manager Department Edition

Enterprise Output Manager Release 12.0 is available with ClearPath OS 2200 Release 16.0 and it will be available with the ClearPath MCP Release 17.0. If you have purchased a subscription for the ClearPath software IOE and have a current maintenance contract, upgrades to the bundled software are included at no additional charge.

### ***Notes:***

- *The Enterprise Output Manager Department Edition can be upgraded to the Enterprise Edition by purchasing the appropriate Enterprise Edition upgrade.*
- Additional licenses for Enterprise and/or Department Editions are available for purchase.



# Data Dependent Attribute (DDA) Designer Key and Web Assistant

Enterprise Output Manager DDA Designer Key and Web Assistant are available in one of two optional, separately priced packages:

- DDA Designer and Web Assistant package – Licensing is a single, nontransferable user copy of each of the two tools: DDA Designer Key and Web Assistant.
- DDA Designer Key – Licensing is a single, nontransferable user copy of the DDA Designer Key.

### DDA Designer

Once the DDA Designer key is installed by a user, Data Dependent Attributes (DDA) can be created and accessed by that user from the Enterprise Output Manager Configuration Explorer. DDA Designer is used for advanced document modernization and reformatting; for example, to move and manipulate print data based on the content and location of the data in a print file. With DDA, you can customize print data without changing the application program that produced the data. Options include loading electronic forms, changing fonts, moving or discarding text, and printing PostNet bar codes. Any Enterprise Output Manager system can use DDAs created by another Enterprise Output Manager system. DDA Designer is not needed for electronic forms if the print file is already correctly formatted to fit the form – usually because the electronic form is an exact image of a previous “real” preprinted form.

The DDA Designer is installed on the client and is licensed based on the number of individual users (developers). 5 developers = 5 licenses of DDA Designer.

### Web Assistant

A Web site and administration tool that is generally installed on a Windows Web Server running IIS for Web services. The installation of an Enterprise Output Manager edition (Enterprise, Department, or Professional) is not required on the Web Assistant workstation. Web Assistant receives any type of files from Enterprise Output Manager servers, and posts these files to the Web. Users can then search for and view Enterprise Output Manager-created files using their Web browsers. While Web Assistant can be used to post any type of file, it is commonly used to post PDF files. To create PDF files, Unisys recommends to use Enterprise Output Manager PDF Writer (to be ordered separately and installed). Other PDF creation software such as Amyuni PDF Converter and Win2PDF can still be used to create PDF files; however, any product issues are the responsibility of the appropriate vendor.

Whereas the DDA Designer feature is licensed for each user (developer), the Web Assistant feature runs on the Enterprise Output Manager server. When ordering the Web Assistant feature, always include one copy for each licensed copy of Enterprise Output Manager where these components are installed.

### PDF Writer

The Enterprise Output Manager PDF Writer is an orderable no-cost component that enables you to create and print PDF files using integrated PDF Writer driver. Using this component, you can

- Print a PDF file
- Compress the content of the file
- Optimize the PDF file for faster Web viewing
- Create a PDF file with 128-bit encryption
- Create a PDF file with PDF/A compliance
- Configure image compressions
- Embed fonts in a PDF file
- Set usage permissions in the PDF file
- Set watermark for the PDF file
- Set metadata for the PDF file

This component enables you to configure various printers with different settings and generate PDF files simultaneously.

**Note:** *If the Amyuni PDF Converter or Creator software is already installed on your system, you must decide on one of the following options:*

- *Continue with the Amyuni PDF Creator software on the existing license terms that you have with Amyuni, or*
- *Install the Enterprise Output Manger PDF Writer*

*You cannot install both the software— Enterprise Output Manger PDF Writer and Amyuni PDF Converter—on your system. If you decide to install the Enterprise Output Manager PDF Writer, you must uninstall Amyuni PDF Converter or Creator first, and reboot your system before installing the Enterprise Output Manager PDF Writer. This is because the Enterprise Output Manager PDF Writer internally uses the Amyuni PDF Converter driver, and the Windows spooler can use only one version of Amyuni PDF Converter driver at a time.*

*After a successful installation of the Enterprise Output Manager PDF Writer, if a new version of the Amyuni PDF Converter driver is available, the next Windows Update may show an optional update of the Amyuni PDF Converter driver. This is an optional update and you can ignore or install it. Unisys will be releasing the Enterprise Output Manager PDF Writer with the latest driver during each major release of Enterprise Output Manager.*

### **Secure E-mail**

The Enterprise Output Manager Secure E-mail is an orderable no-cost component that enables the use of secure e-mail. This component allows signed and encrypted e-mail messages to be sent using the SMTP protocol. You can receive these secure messages using the IMAP protocol. If the e-mail messages are unsigned and unencrypted, these messages can be sent and received even if this component is not installed.

X.509 certificates need to be installed for the e-mail addresses to send or receive signed or encrypted e-mail messages. You can install these certificates in the same computer as the Enterprise Output Manager service or in the Microsoft Active Directory.

### **SFTP ADD ON**

The Enterprise Output Manager SFTP ADD ON is an orderable no-cost component that enables you to transfer files using SFTP.

### **Unisys Mobile EOM**

The Unisys Mobile EOM is an orderable no-cost component that enables you to print the PDF or text files that exist on your mobile device. It also allows you to search through the Web Assistant database for the file that you wish to print. Using this component, you can

- Browse for PDF files on your mobile device (android)
- Search for PDF files on Web Assistant using File Finder
- Print PDF files that exist on your mobile device
- Print PDF files that exist on Web Assistant database
- Connect to the printers configured on Output Manager
- Setup the printers for a specific configuration before taking a print

The android app and the iOS app can be downloaded from Play Store and iTunes Store respectively.





