

Entire Output Management

Release Notes

Version 3.5.2

October 2022

This document applies to Entire Output Management Version 3.5.2 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Release Notes

Release Notes for current version:

[Entire Output Management Version 3.5.2 Release Notes \(for NOM and NGC\)](#)

Release Notes for previous versions:

[Entire Output Management Version 3.5.1 Release Notes \(for NOM and NGC\)](#)

[Entire Output Management Version 3.4.3 Release Notes \(for NOM and NGC\)](#)

2 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <code>folder.subfolder.service</code> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

Product Documentation

You can find the product documentation on our documentation website at <https://documentation.softwareag.com>.

In addition, you can also access the cloud product documentation via <https://www.software-ag.cloud>. Navigate to the desired product and then, depending on your solution, go to “Developer Center”, “User Center” or “Documentation”.

Product Training

You can find helpful product training material on our Learning Portal at <https://knowledge.softwareag.com>.

Tech Community

You can collaborate with Software AG experts on our Tech Community website at <https://tech-community.softwareag.com>. From here you can, for example:

- Browse through our vast knowledge base.
- Ask questions and find answers in our discussion forums.
- Get the latest Software AG news and announcements.
- Explore our communities.
- Go to our public GitHub and Docker repositories at <https://github.com/softwareag> and <https://hub.docker.com/publishers/softwareag> and discover additional Software AG resources.

Product Support

Support for Software AG products is provided to licensed customers via our Empower Portal at <https://empower.softwareag.com>. Many services on this portal require that you have an account. If you do not yet have one, you can request it at <https://empower.softwareag.com/register>. Once you have an account, you can, for example:

- Download products, updates and fixes.
- Search the Knowledge Center for technical information and tips.
- Subscribe to early warnings and critical alerts.
- Open and update support incidents.
- Add product feature requests.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

3 Entire Output Management Version 3.5.2 Release Notes

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These Release Notes inform you of the enhancements and new features provided with Version 3.5.2 of Entire Output Management; they cover the following topics:

Unless otherwise indicated, the information in these Release Notes applies to Version 3.5.2:

- for both Entire Output Management (NOM) and the Output Management GUI Client (NGC),
- on all supported platforms.

Prerequisites for Mainframes (NOM)

Before you can install Entire Output Management on a mainframe computer, the following Software AG products must have been installed at your site:

- Adabas Version 8 or above;
- Natural Version 8.2 or above; the Natural installation must include the Software AG Editor component;
- Entire System Server Version 3.6.3 or above;
- Entire System Server Version 2.1.14 for UNIX/Windows, or above (optional; for UNIX/Windows access);
- System Automation Tools Version 3.5.2 or above;
- Natural Security (optional; required for UTM users under BS2000);
- EntireX Version 10.3 for z/OS, Version 10.3 for BS2000, Version 9.6 for z/VSE, or above (optional, for multi-node support);
- Entire Network (optional, for multi-node support);



Note: Starting with Natural for Mainframe version 9.2, BS2000 and VSE platforms are no longer supported. Instead, the company promotes applications for z/OS or re-hosting to Linux and Cloud. However, some Add-On products (PRD, NBS/CST, NEE, NOM, NOP) still run with older versions of Natural and therefore will still be able to support BS2000 or VSE platforms.

Prerequisites for UNIX (NOM)

Before you can install Entire Output Management on a UNIX system, the following Software AG products must have been installed at your site:

- Adabas Version 6.6 for UNIX, or above;
- Natural Version 9.1 for UNIX, or above;
- Entire System Server Version 2.1.14 for UNIX, or above;
- System Automation Tools Version 3.5.2, or above;
- EntireX Version 10.7, or above (optional, for multi-node support and cross-platform access).



Note: Starting with Natural for Linux and Cloud version 9.2, UNIX platforms are no longer supported. Instead, Software AG promotes applications for Linux and Cloud. However, some Add-On products still run with older versions of Natural and therefore will still be able to support UNIX platforms.

Prerequisites for Output Management GUI Client (NGC)

Output Management GUI Client Version 3.5.2. requires the following products:

- Natural for Windows, Version 9.1 or above; Development version or Runtime version;
- EntireX Version 10.7 or above; Development version or Runtime version;
- Entire Output Management Version 3.5.2 (or above) for Mainframes/UNIX.

NGC Versions Supported by NOM

Entire Output Management Version 3.5.2 does not support any Output Management GUI Client version below 3.5.2.

Migrating from Previous Versions

A migration of Entire Output Management to Version 3.5.2 is possible from Versions 3.5.1 and 3.4.3, but not from earlier versions. Output Management GUI Client does not require any migration.

For a detailed migration description, see *Migrating from Previous Versions* in the *Installation and Customization* documentation.

In addition to performing the migration procedure, you have to perform the following:

- Recatalog with the new version all your user exits and all programs which use Entire Output Management application programming interfaces.
- If you use the program `NOMTP` in the library `SYSNOMS`, recatalog it (because the parameter data area `NOMTP - -P` used by it has been modified).
- Under UNIX, adapt the scripts used to run Entire Output Management to suit your requirements. See *Scripts* in the *Installation on UNIX* documentation.

Solved Problems

All solved problems of the previous version are included in this version.

Enhancements and New Features

- Reports - Identification Attributes
- Listing Selected Reports
- Active Bundles (NGC only)
- Distribution Lists (NGC only)
- Cross-Reference Information (NGC only)

- [User Exit NOMEX013](#)

Reports - Identification Attributes

In the *Report Identification for UNIX/Windows Nodes*, the identification attribute field Files has been enhanced: You can now specify files or file-name patterns of up to 50 characters; previously the maximum length was 26 characters.

Listing Selected Reports

With the function for listing selected reports, UNIX identification attributes can now be used as selection criteria.

Active Bundles (NGC only)

The dialog layout for the handling of active bundles has been improved to be more user friendly.

Distribution Lists (NGC only)

The handling of distribution lists has been improved to be more user friendly.

Cross-Reference Information (NGC only)

The display of cross-reference information for several types of objects has been enhanced to be more user friendly.

User Exit NOMEX013

The user exit NOMEX013, which is called immediately before a report is opened, can now also handle meta data.

Deprecated Features

- [Features Dropped With This Version](#)

- [Features Dropped With a Future Version](#)

Features Dropped With This Version

None.

Features Dropped With a Future Version

The following features will be removed with one of the next releases:

- [Style Attribute of Reports](#)
- [Automatic User Definition](#)
- [User Exit NOMEX008](#)

Style Attribute of Reports

The printing attribute **Style** of reports will be removed with one of the next releases.

Automatic User Definition

The System Defaults field **Automatic user definition** - and the functionality attached to it - will be removed with one of the next releases.

User Exit NOMEX008

The user exit NOMEX008 will be removed with one of the next releases.

4 Entire Output Management Version 3.5.1 Release Notes

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These Release Notes inform you of the enhancements and new features provided with Version 3.5.1 of Entire Output Management; they cover the following topics:

Unless otherwise indicated, the information in these Release Notes applies to Version 3.5.1:

- for both Entire Output Management (NOM) and the Output Management GUI Client (NGC),
- on all supported platforms.

Prerequisites for Mainframes (NOM)

Before you can install Entire Output Management on a mainframe computer, the following Software AG products must have been installed at your site:

- Adabas Version 8 or above;
- Natural Version 8.2 or above; the Natural installation must include the Software AG Editor component;
- Entire System Server Version 3.6.3 or above;
- Entire System Server Version 2.1.12 for UNIX/Windows, or above (optional; for UNIX/Windows access);
- System Automation Tools Version 3.5.1 or above;
- Natural Security (optional; required for UTM users under BS2000);
- EntireX Version 10.3 for z/OS, Version 10.3 for BS2000, Version 9.6 for z/VSE, or above (optional, for multi-node support and Open Print Option);
- Entire Network (optional, for multi-node support);

Prerequisites for UNIX (NOM)

Before you can install Entire Output Management on a UNIX system, the following Software AG products must have been installed at your site:

- Adabas Version 6.6 for UNIX, or above;
- Natural Version 9.1 for UNIX, or above;
- Entire System Server Version 2.1.12 for UNIX, or above;
- System Automation Tools Version 3.5.1, or above;
- EntireX Version 10.3, or above (optional, for multi-node support, cross-platform access, and Open Print Option) (*).

(*) Fix 5 has to be installed using the Software AG Update Manager. The libraries are delivered as a separate component under **Infrastructure > Libraries > EntireX Libraries** in the Software AG Installer (see the webMethods documentation, *Installing webMethods and Intelligent Business Operations Products*).

Prerequisites for Output Management GUI Client (NGC)

Output Management GUI Client Version 3.5.1. requires the following products:

- Natural for Windows, Version 9.1 or above; Development version or Runtime version;
- EntireX Version 10.3 or above; Development version or Runtime version (*);
- Entire Output Management Version 3.5.1 (or above) for Mainframes/UNIX.

(*) Fix 5 has to be installed using the Software AG Update Manager. The libraries are delivered as a separate component under **Infrastructure > Libraries > EntireX Libraries** in the Software AG Installer (see the webMethods documentation, *Installing webMethods and Intelligent Business Operations Products*).

NGC Versions Supported by NOM

Entire Output Management Version 3.5.1 does not support any Output Management GUI Client version below 3.5.1.

Migrating from Previous Versions

A migration of Entire Output Management to Version 3.5.1 is possible from Version 3.4.3, but not from earlier versions. Output Management GUI Client does not require any migration.

For a detailed migration description, see *Migrating from Previous Versions* in the *Installation and Customization* documentation.

In addition to performing the migration procedure, you have to perform the following:

- Recatalog with the new version all your user exits and all programs which use Entire Output Management application programming interfaces.
- If you use the program `NOMTP` in the library `SYSNOMS`, recatalog it (because the parameter data area `NOMTP - -P` used by it has been modified).
- Under UNIX, adapt the scripts used to run Entire Output Management to suit your requirements. See *Scripts* in the *Installation on UNIX* documentation.

Solved Problems

All solved problems of the previous version are included in this version.

Enhancements and New Features

- Code Page Support
- Mainframe Nodes
- Email Messages
- System Defaults (NGC only)
- Reports - Identification Attributes
- Reports - Separator Pages
- Reports - Editing of Separator Pages and Separation Routines (NGC only)
- Active Reports - Dialog Layout (NGC only)
- Active Reports and Active Bundles - Printing (NGC only)
- Monitor Tasks (NGC only)
- Monitor Defaults - Jobcard NOSTATISTICS Obsolete
- Transferring Objects - Mainframe Nodes

Code Page Support

With the new system administration function Default Code Pages you can specify the code pages which are to be available in Entire Output Management. The defined code pages can be used in report and node definitions for mainframes.

Mainframe Nodes

The system administration function Node Definitions has been revised and enhanced. In addition to UNIX and Windows nodes, you can now also define mainframe nodes.

Email Messages

With the new system administration function Email Message Definitions, you can define certain error situations which will trigger the sending of emails to specified email addresses. You identify an error situation by its Natural or Entire Output Management message number. You can specify which email text is to be sent and to whom. In this way, you can inform the appropriate persons whenever a certain error situation occurs.

In addition, Entire Output provides a set of standard emergency emails, which are sent automatically in the case of certain severe error situations.

See *Email Message Definitions* for details.

System Defaults (NGC only)

A new system default option **Perform search in advance when opening the search dialog** is available: It applies to the search for active reports in a folder and may be used to prevent time-outs caused by searches in environments with a large number of active reports. Depending on this option, when you open the **Search** dialog, the result list may initially be either empty or already filled with the search results based on the current search criteria. .

Reports - Identification Attributes

The source of a report is now selected on the **Report Definition > General Attributes** screen (fields **Node name** and **Ident. source**). With PF7, you can specify the identification values for the selected type. See *Attributes of a Report*

The new option Read binary = A in the UNIX/Windows Identification Attributes can be used if a report is to be created as a text file and the print data from the data source already contain ASA control characters.

Reports - Separator Pages

With previous versions, the separator pages specified in the Printing Attributes of a report were printed on all printers assigned to the report. Now you can specify for each assigned printer in the Printing Attributes whether or not the separator pages are to be printed on it.

Reports - Editing of Separator Pages and Separation Routines (NGC only)

With previous versions, it was necessary to invoke the Natural editor in a separate Natural session in order to edit a separator page (text member) or user separation routine (subprogram). Now **Edit** buttons are provided next to the separator pages and user routine specified in the report's Printing Attributes and Separation Attributes respectively. They can be used to invoke the editor directly, allowing you to edit the separator page or separation routine in question.

With the new option **Allow to edit separator pages and separation routines** in user definitions, the system administrator can allow/disallow the use of these editing functions for individual users.

Active Reports - Dialog Layout (NGC only)

The dialog layout for the attributes of active reports has been improved to be more user friendly.

Active Reports and Active Bundles - Printing (NGC only)

The functions to print active reports and active bundles have been enhanced. With previous versions, it was only possible to select a single active report or active bundle for printing. Now you can select multiple active reports or active bundles simultaneously for printing. In addition, you have the option to either print them all on the same printer or print them on different printers.

Monitor Tasks (NGC only)

The function to list the monitor subtasks has been enhanced to be more user friendly.

Monitor Defaults - Jobcard NOSTATISTICS Obsolete

In the Monitor Defaults, the specification of the jobcard entry `NOSTATISTICS` (deactivation of statistics-data writing) can be omitted, as it applies by default now.

If statistics data are to be written for Optimize for Infrastructure (O4I), the jobcard entry `STATISTICS=ON` has to be specified explicitly.

Transferring Objects - Mainframe Nodes

The functions for Transferring Objects from one environment to another have been enhanced: Now you can also export/import mainframe nodes.

For the importing of objects, the fifth `RMIMPORT` parameter (node number) is now obsolete.

Deprecated Features

- [SAP Spool Reports](#)
- [Con-nect Interface](#)
- [Obsolete Printer Types](#)
- [Report Identification Attributes](#)
- [Linking Folders](#)
- [Style Attribute of Reports](#)
- [Automatic User Definition](#)

- [User Exit NOMEX008](#)

SAP Spool Reports

As of this release, reports from SAP Spool are no longer supported.

Existing data referring to SAP Spool reports which were created with previous versions of Entire Output Management are still available for retrieval. They will be removed with the next release.

Before you install Version 3.5.1, you should run the program `CHKOLD` provided in the library `SYSNOM` in your old Version 3.4.3 environment to find out if you still have SAP Spool reports.

Con-nect Interface

As of this release, the Entire Output Management interface to Con-nect is no longer supported.

Existing data referring to the Con-nect interface which were created with previous versions of Entire Output Management are still available for retrieval. They will be removed with the next release.

Before you install Version 3.5.1, you should run the program `CHKOLD` provided in the library `SYSNOM` in your old Version 3.4.3 environment to find out if you still have Con-nect interface-related objects.

Obsolete Printer Types

As of this release, the following printer types are no longer supported:

- CON-NECT
- ECL 2.1.1
- XML

Before you install Version 3.5.1, you should run the program `CHKOLD` provided in the library `SYSNOM` in your old Version 3.4.3 environment to find out if you still have definitions for these printer types.

Report Identification Attributes

In previous versions, it was possible to define report attributes for more than one identification source, which could lead to inconsistencies. As already communicated in the Version 3.4.1 Release Notes, this was rectified and you can now only define reports with identification attributes for one identification source.

Old report definitions, however, may still contain attributes for more than one identification source. When you open such a report definition, you will be prompted to choose which identification attributes are to be kept.

To find out if you still have report definitions with multiple identification attributes, you can run the program `CHCKIDNT` provided in the library `SYSNOM`.

Linking Folders

As of this release, the line command **LF** (Link folder) is no longer available, because its functionality was redundant. The same applies to the corresponding NGC command **Link** on the context menu for folders.

As before, the linking of a folder to another user's folder is done via the **Linked Folder** fields, as described under *Attributes of a Folder*.

Style Attribute of Reports

The printing attribute **Style** of reports will be removed with one of the next releases.

Automatic User Definition

The System Defaults field **Automatic user definition** - and the functionality attached to it - will be removed with one of the next releases.

User Exit NOMEX008

The user exit `NOMEX008` will be removed with one of the next releases.

5

Entire Output Management Version 3.4.3 Release Notes

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These Release Notes inform you of the enhancements and new features provided with Version 3.4.3 of Entire Output Management; they cover the following topics:

Unless otherwise indicated, the information in these Release Notes applies to Version 3.4.3:

- for both Entire Output Management (NOM) and the Output Management GUI Client (NGC),
- on all supported platforms.

Prerequisites for Mainframes (NOM)

Before you can install Entire Output Management on a mainframe computer, the following Software AG products must have been installed at your site:

- Adabas Version 8 or above;
- Natural Version 8.2 or above; the Natural installation must include the Software AG Editor component;
- Entire System Server Version 3.5 or above;
- Entire System Server Version 2.1.5 for UNIX/Windows, or above (optional; for UNIX/Windows access);
- System Automation Tools Version 3.4.3 or above;
- Natural Security (optional; required for UTM users under BS2000/OSD);
- EntireX Version 9 for z/OS, Version 8.1.1 for BS2000/OSD, Version 7.2.2 for z/VSE, or above (optional, for multi-CPU support);
- Entire Network (optional, for multi-CPU support);
- Con-nect (optional).

Prerequisites for UNIX (NOM)

Before you can install Entire Output Management on a UNIX system, the following Software AG products must have been installed at your site:

- Adabas Version 6.3 for UNIX, or above;
- Natural Version 8.3.3 for UNIX, or above;
- Entire System Server Version 2.1.5 for UNIX, or above;
- System Automation Tools Version 3.4.3, or above;
- EntireX Version 9, or above (optional, for multi-CPU support).

Prerequisites for Output Management GUI Client (NGC)

Output Management GUI Client Version 3.4.3 requires the following products:

- Natural for Windows, Version 8.3.3 or above; Development version or Runtime version.
- EntireX Version 9 or above; Development version or Runtime version.
- Entire Output Management Version 3.4.3 (or above) for Mainframes/UNIX.

NGC Versions Supported by NOM

Entire Output Management Version 3.4.3 does not support any Output Management GUI Client version below 3.4.1.

Installation Considerations

The installations considerations for Version 3.4.3 are the same as for Version 3.4.1; see *Version 3.4.1 Release Notes*.

In addition, see the Fix Explorer in Empower for the latest hot fixes.

Migrating from Previous Versions

A migration of NOM to Version 3.4.3 is possible from Version 3.3.1 or later versions, but not from earlier versions. NGC does not require any migration.

For a detailed migration description, see *Migrating from Previous Versions* in the *Installation and Customization* documentation.

In addition to performing the migration procedure, you have to perform the following:

- The names of parameter data areas and the structures in data areas have changed. Therefore, adapt all Entire Output Management user exits and application programming interfaces to the new names (for example, the `NOMEXnnP` parameter data areas in the library `SYSNOMS`) and the new field formats/lengths (for example, change `+P-SPOOL-ATTRIBUTES-EXTENDED` from `(A/120) DYNAMIC` to `(A) DYNAMIC`) and then recatalog them. Details and examples are provided in the library `SYSNOMS`.

- Recatalog with the new version all your user exits and programs which use Entire Output Management application programming interfaces.
- Under UNIX, adapt the scripts used to run Entire Output Management to suit your requirements. See *Scripts* in the *Installation on UNIX* documentation.
- As of Version 3.4.3, NOM on UNIX is installed using the SAG Installer. This requires that the environment variables `EOM_WORK` and `EOM_ARC` be changed. See *Environment Variables* in the *Installation on UNIX* documentation.

Solved Problems

All solved problems of the previous version are included in this version.

Enhancements and New Features

- [System Defaults](#)
- [Reports](#)
- [Active Reports \(NGC only\)](#)
- [User Profiles \(NGC only\)](#)
- [User Interface - Update Information](#)

System Defaults

System Defaults provides a new field **Retention for printouts in Hold status**, which determines how long printouts in Hold status will be kept in the Entire Output Management database. See *Components of System Defaults* in the *System Administration* documentation.

Reports

Entire Output Management's report identification now processes file pairs residing in UNIX or Windows file systems: an original file containing the print data and an XML file containing meta data which can be transferred to Entire Output Management as well. See *Report Identification for UNIX/Windows Nodes* for details.

Active Reports (NGC only)

The new function *Search Active Reports* combines the definition of filter criteria and the display of the objects which meet the criteria in one dialog, thus improving the search for specific active reports.

User Profiles (NGC only)

The layout of user profiles has been improved to show more clearly the options, access rights and dependencies within the system.

User Interface - Update Information

On object maintenance screens/windows, Entire Output Management now shows when and by whom an object was last modified.

Open Print Option (OPO)

Printer Drivers

The routing of print output to Entire Output Management with direct printing from Windows applications, using the Open Print Option on Windows, is designed to use a specific printer port monitor developed by Software AG.

With Windows 8.1 and Windows Server 2012 R2, Microsoft has introduced a new printer model classified as "V4" with corresponding V4 printer drivers (delivered "in-box" with these Windows versions), which do not support such third-party port monitors.

If you use the above-mentioned feature, it is recommended that you use non-Microsoft V3 printer drivers as supplied by your printer manufacturer.

