Entire Output Management Version 2.2.1 Release Notes

This chapter covers the following topics:

- Introduction

- Migrating from Previous Versions

- Prerequisites

- Compatibility and Migration

- SAGSIS Problems

- Enhancements and New Features

Introduction

These Release Notes inform you of the enhancements and new features that are provided with Entire Output Management Version 2.2.1.

Migrating from Previous Versions

Note:
Migrations from versions earlier than 1.4.1 are not supported.

Prerequisites

Entire Output Management 2.2.1 requires

- Adabas version 7.1.2 or above;

- Natural Version 3.1.6 or above, including the Software AG Editor component;

- Entire System Server Version 3.1.1 or above; if Entire System Server 3.2.1 is installed, it enables the new long record and e-mail integration functions, but only node numbers below 255 can be used.

- Entire System Server for Unix 2.1.1.05 and above (optional);

- System Automation Tools Version 3.1.3 or above;

- Natural Security (optional); for openUTM users under BS2000/OSD Natural Security is required;

- Entire Network (optional, for multi-CPU support), and

- Con-nect Version 3.1 or above (optional).

Compatibility and Migration

With the release of Entire Output Management 2.2.1, versions below 2.1.1 can no longer be supported. You are, therefore, strongly advised to migrate to the current version at your earliest convenience.

Installation: Change in Order of STEPLIBs

⚠ **Warning:**
The order of the STEPLIBs has changed. SYSSAT must precede SYSEXT. If this is not the case, the program menu will not be found.

SAGSIS Problems

All solved problems of version 2.1.1 are included in this release.

Enhancements and New Features

- User Separation Routines

- Suppression of Identical Monitor Log Messages

- Changes / Enhancements

- New Features

User Separation Routines

NOM can hold 126 lines of output during a separation operation. This improves performance significantly, if a user separation exit repositions in large files. In NOM 2.2.1 the default has been changed from 'CHACHEOFF' to 'CACHEON', because we do not expect disadvantages from caching, even if no repositioning takes place. In some cases, active caching has resulted in execution time savings of more than 95%.

Suppression of Identical Monitor Log Messages

Sometimes errors require user intervention. The monitor will try to re-execute its tasks each monitor cycle. To reduce logging during such transient error situations, repeated identical log messages will be automatically suppressed as follows:

- Identical messages 1 to 9 are written to monitor log as usual;

- Message 10 is preceded by a warning, that further identical messages will be suppressed;

- Next identical messages that are written to log (reminders) are 20, 30, 40, … 100, 200, 300, … 1000, 2000, 3000, …;

- Suppression of duplicates is reset whenever the monitor task is restarted. Additionally, duplicates are not suppressed if there is a delay of 23 hours (or more) between occurrences;

- No parameter settings are necessary to influence suppression.

Changes / Enhancements

Following enhancements have been implemented in NOM 2.2.1:

Number	Description
2774	User-exit for EXPORT to PC, NOMEX011 in library SYSNOMS.
5593	Automate batch functions. See the field "Delete empty" in the section Defining Default Parameters for Archiving in the System Programmer's Guide.
5903	BOT does not work in several listings.
7165	Improve error messages NOM / Online / Manual / SAT.
7187	Automatic restart after DB shut. If an error 3148 occurs, react like NOP.
7196	Improve performance of display printout queue.
7553	Default profile for non-defined users.
9413	Print bundle table of contents more than one time – example print exit PRBUVTOC in the SYSNOMS library.

New Features

- **Redesign System Structure**
  You may optionally split your NOM System File 1 into two system files. One contains static data such as definitions; the other contains volatile data such as active reports, active bundles and printouts. This allows more flexible database administration.

- **XML Support**
  NOM can supply style sheets for XML documents at print time. A style sheet can be associated with a report created from an XML document. Additionally, style sheets can be stored in NOM.

- **Flexible Archiving**
  As well as the standard archive datasets, you can now define up to 9 additional archive dataset types, this allows:

  ○ multiple hierarchies of archived reports. For example, reports which need to be revived quickly can be archived to disk, with all other reports being archived to tape;

  ○ archiving to non-standard datasets (that is, datasets which cannot be accessed as a Natural work file) such as optical disks.

- **Process Long Records**
  It is now possible to archive and print reports with more than 251 characters per line (for example AFP data). These reports are copied to a container file, their records are segmented and then reassembled at print time. This feature is only available for the z/OS JES2 spool system and requires Entire System Server version 3.2.1 or above.

- **Monitor Error Recovery**
  If a monitor function fails, an error message is generated and the corresponding object is set to error status. However, there are a number of errors which are not caused by malfunctions of the product, but by error situations of the environment, and these can be solved by operator intervention. Now you can enter a maximum number of retries and an interval in seconds to repeat failed monitor operations. You can enter the values from the Monitor Defaults Screen.

- **E-mail Integration**
  Any report can now be sent as e-mail. Physical and logical printers of the type 'e-mail' can be defined to send the output to an e-mail recipient. These virtual printers are treated as real printers: a printer task is started, which will send the report using Entire System Server's 'SEND-EMAIL' view (Entire System Server version 3.2.1 and above). No size limits are implemented. The report size is limited to the e-mail system definition.

- **NOM GUI Client**
  NOM GUI Client allows you to access NOM functions on mainframe from a native PC application. The calls are passed to NOM mainframe via RPC and return the desired information, also enabling you to browse output, edit definitions and view log information. Intelligent traffic management allows you to look into millions of output lines without passing everything across the network. Together with Software AG's Mainframe Navigator as a part of Natural for Windows, you can create NOM reports without using a mainframe emulation, simply by editing and submitting mainframe jobs on the PC. In future the NOM GUI Client will also be able to start and stop the NOM monitor and edit its defaults.