

Entire System Server

Release Notes - Overview

Version 3.7.3

September 2025

This document applies to Entire System Server Version 3.7.3 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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Table of Contents

1	About this Documentation	1
	Document Conventions	2
	Online Information and Support	2
	Data Protection	3
2	Release Notes - Overview	5
3	Entire System Server 3.7.3 Release Notes	7
	Strategy Regarding the Legacy Platforms z/VSE and BS2000	8
	Support of Previous Versions	8
	License Handling	8
	Prerequisites	16
	Enhancements	9
	Solved Problems	10
4	Entire System Server 3.7.2 Release Notes	11
	Support of Previous Versions	12
	License Handling	12
	Prerequisites	12
	Enhancements	13
	Solved Problems	14
5	Entire System Server 3.7.1 Release Notes	15
	Support of Previous Versions	16
	Prerequisites	16
	Enhancements	17
	Solved Problems	18
6	Entire System Server 3.6.3 Release Notes	19
	Support of Previous Versions	20
	Prerequisites	20
	Enhancements	21
	Solved Problems	22
7	Entire System Server 3.6.2 Release Notes	23
	Support of Previous Versions	24
	Prerequisites	24
	Enhancements	25
	Solved Problems	26
	Migration Considerations	27
8	Entire System Server 3.6.1 Release Notes	29
	Support of Previous Versions	30
	Prerequisites	30
	New Features and Enhancements	31
	Solved Problems	33
	Migration Checklists	33
	Changes with the Next Version	34
9	Entire System Server 3.5.4 Release Notes	35
	Support of Previous Versions	36

Prerequisites	36
Enhancements	37
Solved Problems	38
Changes with the Next Version	39
10 Entire System Server 3.5.3 Release Notes	41
Support of Previous Versions	42
Prerequisites	42
Enhancements	43
Solved Problems	44
Changes with the Next Version	45
11 Entire System Server 3.5.2 Release Notes	47
Support of Previous Versions	48
Prerequisites	48
Enhancements	49
Solved Problems	50
Changes with the Next Version	52
12 Entire System Server 3.5.1 Release Notes	53
Support of Previous Versions	54
Prerequisites	54
New Features	55
Requirements	57
Solved SAGSIS Problems	57
Migration Check Lists	59
Changes with the Next Version	61
13 Entire System Server 3.4.2 Release Notes	63
Support of Previous Versions	64
Prerequisites	64
Enhancements	65
Solved SAGSIS Problems	66
Changes with the Next Version	67
14 Entire System Server 3.4.1 Release Notes	69
Support of Previous Versions	70
Prerequisites	70
New Features	71
Enhancements	74
Solved SAGSIS Problems	74
Migration Checklists	76
Changes with the Next Version	77
15 Entire System Server 3.3.2 Release Notes	79
Support of Previous Versions	80
Solved SAGSIS Problems	80
Changes with the Next Version	82
16 Entire System Server 3.3.1 Release Notes	83
Support of Previous Versions	84
Prerequisites	84

New Features	85
Migration Checklists	87
Changes with the Next Version	89

1 About this Documentation

▪ Document Conventions	2
▪ Online Information and Support	2
▪ Data Protection	3

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>.

Product Training

You can find helpful product training material on our Learning Portal at <https://learn.software-ag.com>.

Tech Community

You can collaborate with Software GmbH 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 GmbH 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 GmbH resources.

Product Support

Support for Software GmbH 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.

2 Release Notes - Overview

Besides the *Release Notes* for Entire System Server version 3.7.3, this page also contains an overview of *Release Notes* related to earlier versions. This might be useful for customers who want to migrate to the current version.



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.

[*Entire System Server 3.7.3 Release Notes*](#)

[*Entire System Server 3.7.2 Release Notes*](#)

[*Entire System Server 3.7.1 Release Notes*](#)

[*Entire System Server 3.6.3 Release Notes*](#)

[*Entire System Server 3.6.2 Release Notes*](#)

[*Entire System Server 3.6.1 Release Notes*](#)

[*Entire System Server 3.5.4 Release Notes*](#)

[*Entire System Server 3.5.3 Release Notes*](#)

[*Entire System Server 3.5.2 Release Notes*](#)

[*Entire System Server 3.5.1 Release Notes*](#)

[*Entire System Server 3.4.2 Release Notes*](#)

[*Entire System Server 3.4.1 Release Notes*](#)

[*Entire System Server 3.3.2 Release Notes*](#)

[*Entire System Server 3.3.1 Release Notes*](#)

Release notes related to yet earlier versions are available on the current Natural documentation CD-ROM in the folder "Archive".

3

Entire System Server 3.7.3 Release Notes

- Strategy Regarding the Legacy Platforms z/VSE and BS2000 8
- Support of Previous Versions 8
- License Handling 8
- Prerequisites 16
- Enhancements 9
- Solved Problems 10

These *Release Notes* provide an overview on all changes for Entire System Server 3.7.3.

Strategy Regarding the Legacy Platforms z/VSE and BS2000

Natural add-on products are no longer delivered for the z/VSE and BS2000 operating systems. Software AG makes an exception for BS2000 customers who are using the ESM Adapter. For that reason, this documentation and its respective software still mention the deprecated operating systems.

Following the principles of the "Adabas and Natural 2050+" strategy, your rehosting project is a high priority to Software AG. Contact your local Software AG team for assistance in planning and executing your rehosting from the z/VSE and BS2000 operating systems to an alternative operating system. For questions regarding the Adabas and Natural platform roadmap, contact the Adabas and Natural product management (e-mail: AskANProdMgt@softwareag.com).

Support of Previous Versions

For information on how long a product is supported by Software AG, access Software AG's customer support web site at <https://empower.softwareag.com/Products/default.asp>. This application allows you to retrieve support information for specific products and releases.

License Handling

Licence Handling for Entire System Server is now compliant with Software AG's company-wide license policy.

For details, check section *Software AG Mainframe Product Licensing*.

Prerequisites

Before you can install Entire System Server, the following Software AG products must already be installed at your site:

- Natural version 9.2 or above;
- Adabas version 8.5.4 or above;
- Entire System Server Interface (provided with Natural);
- Natural ISPF Version 9.2 or above (optional);

- Predict Version 8.5.2 or above (optional).

Entire System Server Services are available in any Natural environment that runs z/OS Version 2.5 or above.

Notes:

- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.
- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

This section describes new Entire System Server Features. It covers the following topics:

- [New Features](#)
- [Changed and New Fields](#)

New Features

The following new features have been implemented:

- NPRMF-1549 *WRITE-FILE* - reset ISPF statistical data (using new option DEL of field STATS).
- ES-33335 *ACTIVE-JOBS* - get zIIP times of any address space (zIIP normalized enclave time, eligible zIIP time on GP).
- NPRMF-1525 *SEND-EMAIL* - use email address from field REPLY-TO as value.

Changed and New Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. Please refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	Change
WRITE-FILE	STATS	New value DEL.

Solved Problems

This section describes solved problems for Entire System Server 3.7.3

- [Solved Problems for z/OS](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF-1539	Enqueued data set can be deleted.
NPRMF-1487	UNIT-ATTRIBUTES shows wrong values for EAV disks.
NPRMF-1492	Memory leak (ACEEs) when using exit routine LOGVRACF.
NPRMF-1462	IDCAMS command gets truncated when issued from Natural.
NPRMF-1494	Lowercase characters not accepted in the FORM field.
NPRMF-1529	S0C9 in XCOMV029 (on the divide instruction used to calculate ECPU-USED).
NPRMF-1463	SHUTDOWN-MAX-DELAY parameter not handled properly.
NPRMF-1510	Terminating ESS due to SYNCTIME leads to S0C4.
NPRMF-1540	If LRECL > 5973, some characters from previous line are copied over.
NPRMF-1556	SYSTEM-COMMAND abends with with S0C4 reason code 10.
NPRMF-1571	SYSTEM-COMMAND displays only 1 line of output.
NPRMF-1548	Stats field SIZE is incorrectly set when UPDATE-INPLACE used.
NPRMF-1562	READ-SPOOL does not work after applying TOP SECRET fixes.
NPRMF-1570	UNIX-DIRECTORY for a large directory may skip elements.
NPRMF-1573	READ-UNIX-FILE view does not accept file or path length > 40 chars.

4 Entire System Server 3.7.2 Release Notes

- Support of Previous Versions 12
- License Handling 12
- Prerequisites 12
- Enhancements 13
- Solved Problems 14

These *Release Notes* provide an overview on all changes for Entire System Server 3.7.2.

Support of Previous Versions

For information on how long a product is supported by Software AG, access Software AG's customer support web site at <https://empower.softwareag.com/Products/default.asp>. This application allows you to retrieve support information for specific products and releases.

License Handling

Licence Handling for Entire System Server is now compliant with Software AG's company-wide license policy.

For details, check section *Software AG Mainframe Product Licensing*.

Prerequisites

Before you can install Entire System Server, the following Software AG products must already be installed at your site:

- Natural version 8.2.7 or above;
- Adabas version 8.4.2 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 6.4.1 or above (optional, for multi-CPU Support);
- Natural ISPF Version 8.2.7 or above (optional);
- Predict Version 8.4.2 or above (optional).

Entire System Server Services are available in any Natural environment that runs any or a combination of the following operating systems:

- z/OS Version 2.4 or above;
- BS2000 Version 10 or above.

Notes:

- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops support-

ing a version of an operating system, Software AG will stop supporting that operating system version.

- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

This section describes new Entire System Server Features. It covers the following topics:

- [New Features](#)
- [Changed and New Fields](#)

New Features

The following new features have been implemented:

ES 27212	Provide access to the z/OS UNIX file-system. Customers were asking to access in z/OS the z/OS UNIX file system within NATURAL applications. NATURAL itself provides this in TSO or batchjobs but not in online monitors such as CICS, IMS or Com-plete. There are 3 new views <i>WRITE-UNIX-FILE</i> , <i>READ-UNIX-FILE</i> and <i>UNIX-DIRECTORY</i> . A fully qualified path name must be provided to locate the file to be read, written or listed. See <i>View Description</i> or <i>Access to z/OS UNIX Files</i> for more details.
EF-3661	<i>WRITE-FILE</i> - write ISPF statistics entry, see new field <i>STATS</i> in <i>View Descriptions</i> .
EF-2936	Support emergency keys with mainframe products.
NPRMF-1420	<i>SEND-EMAIL</i> - file attachment: Set extension of attachments e.g. html, php, txt or others.
NPRMF-1383	<i>HOST-CODE-PAGE</i> - parameter definition in <i>SEND-EMAIL</i> function for Hebrew code page CP424.
NPRMF-1360	Allow up to 50 <i>SUB-COMMANDS</i> in view <i>SYSTEM-COMMAND</i> . This has been done to allow FTP sessions with a large amount of FTP commands.
NPRMF-1434	For view <i>FILE-ATTRIBUTE</i> option <i>SHORT-INFO</i> was introduced. This enables calling file attributes also for PDS data sets without RACF read access.
EF-3699 (NPRMF-1419)	For view <i>FILE-ATTRIBUTE</i> parameter <i>NUM-OF-BACKUP-VERS</i> on BS2000.
NPRMF-1422	Run privileged code also on x86 server under BS2000.

Changed and New Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. Please refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	Change
ATTACHMENT-SUFFIX	SEND-EMAIL	New.
FILE-ATTRIBUTE	SHORT-INFO	New.
	NUM-OF-BACKUP-VERS	New.
WRITE-FILE	STATS	New.

Solved Problems

This section describes solved problems for Entire System Server 3.6.3

- [Solved Problems for z/OS](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF- 1388	Avoid undesired messages ICH408I for JESSPOOL protected resources.
NPRMF- 1390	LOAD-MODULE may return incorrect CSECT-OFFSET.
NPRMF- 1395	Incorrect userid in ESYTRACE entry after LOGOFF.
NPRMF- 1396	Internal trace utility output contains invalid characters.
NPRMF- 1397	Attributes missing for non-primary generations of PDSE program objects.
NPRMF- 1400	hang at startup with wrong parameter.
NPRMF- 1401	Truncated SYSOUT using DCB with LRECL GT 1000.
NPRMF- 1111	Error 5712 Request to Common JES Interface failed.
NPRMF- 1387	Entire System server shutdown 6 o clock every morning.
NPRMF- 1415	NPR abends when MSU exceeds value specified in license key.
NPRMF- 1416	SAT1851 SATBS6-N Line 4760 Error NAT0954.
NPRMF- 1418	Read VTOC - max. 362 freespace extents displayed.
NPRMF-1423	Abend 0C4 in XCOMV002 offset 2D66 using READ-FILE.

5

Entire System Server 3.7.1 Release Notes

▪ Support of Previous Versions	16
▪ Prerequisites	16
▪ Enhancements	17
▪ Solved Problems	18

These *Release Notes* provide an overview on all changes for Entire System Server 3.7.1.

Support of Previous Versions

For information on how long a product is supported by Software AG, access Software AG's customer support web site at <https://empower.softwareag.com/Products/default.asp>. This application allows you to retrieve support information for specific products and releases.

Prerequisites

Before you can install Entire System Server, the following Software AG products must already be installed at your site:

- Natural version 9.2 or above;
- Adabas version 8.5.4 or above;
- Entire System Server Interface (provided with Natural);
- Natural ISPF Version 9.2 or above (optional);
- Predict Version 8.5.2 or above (optional).

Entire System Server Services are available in any Natural environment that runs z/OS Version 2.5 or above.

Notes:

- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.
- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

This section describes new Entire System Server Features. It covers the following topics:

- [New Features](#)
- [Changed and New Fields](#)

New Features

The following new features have been implemented:

ES 27212	Provide access to the z/OS UNIX file-system. Customers were asking to access in z/OS the z/OS UNIX file system within NATURAL applications. NATURAL itself provides this in TSO or batchjobs but not in online monitors such as CICS, IMS or Com-plete. There are 3 new views <i>WRITE-UNIX-FILE</i> , <i>READ-UNIX-FILE</i> and <i>UNIX-DIRECTORY</i> . A fully qualified path name must be provided to locate the file to be read, written or listed. See <i>View Description</i> or <i>Access to z/OS UNIX Files</i> for more details.
EF-3661	<i>WRITE-FILE</i> - write ISPF statistics entry, see new field <i>STATS</i> in <i>View Descriptions</i> .
EF-2936	Support emergency keys with mainframe products.
NPRMF-1420	<i>SEND-EMAIL</i> - file attachment: Set extension of attachments e.g. html, php, txt or others.
NPRMF-1383	<i>HOST-CODE-PAGE</i> - parameter definition in <i>SEND-EMAIL</i> function for Hebrew code page CP424.
NPRMF-1360	Allow up to 50 <i>SUB-COMMANDS</i> in view <i>SYSTEM-COMMAND</i> . This has been done to allow FTP sessions with a large amount of FTP commands.
NPRMF-1434	For view <i>FILE-ATTRIBUTE</i> option <i>SHORT-INFO</i> was introduced. This enables calling file attributes also for PDS data sets without RACF read access.
EF-3699 (NPRMF-1419)	For view <i>FILE-ATTRIBUTE</i> parameter <i>NUM-OF-BACKUP-VERS</i> on BS2000.
NPRMF-1422	Run privileged code also on x86 server under BS2000.

Changed and New Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. Please refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	Change
ATTACHMENT-SUFFIX	SEND-EMAIL	New.
FILE-ATTRIBUTE	SHORT-INFO	New.
	NUM-OF-BACKUP-VERS	New.
WRITE-FILE	STATS	New.

Solved Problems

This section describes solved problems for Entire System Server 3.6.3.

- [Solved Problems for z/OS](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF- 1388	Avoid undesired messages ICH408I for JESSPOOL protected resources.
NPRMF- 1390	LOAD-MODULE may return incorrect CSECT-OFFSET.
NPRMF- 1395	Incorrect userid in ESYTRACE entry after LOGOFF.
NPRMF- 1396	Internal trace utility output contains invalid characters.
NPRMF- 1397	Attributes missing for non-primary generations of PDSE program objects.
NPRMF- 1400	hang at startup with wrong parameter.
NPRMF- 1401	Truncated SYSOUT using DCB with LRECL GT 1000.
NPRMF- 1111	Error 5712 Request to Common JES Interface failed.
NPRMF- 1387	Entire System server shutdown 6 o clock every morning.
NPRMF- 1415	NPR abends when MSU exceeds value specified in license key.
NPRMF- 1416	SAT1851 SATBS6-N Line 4760 Error NAT0954.
NPRMF- 1418	Read VTOC - max. 362 freespace extents displayed.
NPRMF-1423	Abend 0C4 in XCOMV002 offset 2D66 using READ-FILE.

6 Entire System Server 3.6.3 Release Notes

- Support of Previous Versions 20
- Prerequisites 20
- Enhancements 21
- Solved Problems 22

For further information, you might also want to refer to the *Release Notes* for versions 3.6.2 and 3.6.1. The corresponding documentation is available in <https://empower.softwareag.com/Products/Documentation/default.asp>. These *Release Notes* provide an overview on all changes for Entire System Server 3.6.3.

Support of Previous Versions

For information on how long a product is supported by Software AG, access Software AG's customer support web site at <https://empower.softwareag.com/Products/default.asp>. This application allows you to retrieve support information for specific products and releases.

Prerequisites

Before you can install Entire System Server, the following Software AG products must already be installed at your site:

- Natural version 8.2.7 or above;
- Adabas version 8.3.4 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 6.3.2 or above (optional, for multi-CPU Support);
- Natural ISPF Version 8.2.7 or above (optional);
- Predict Version 8.4.1 or above (optional).

Entire System Server Services are available in any Natural environment that runs any or a combination of the following operating systems:

- z/OS Version 2.2 or above;
- z/VSE Version 6.1 or above;
- BS2000 Version 10 or above.

Notes:

- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.
- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

- Because Entire System Server 3.6.2 will not work with z/OS 2.4 JES2, migration to z/OS 2.4 JES2 will require migration to Entire System Server 3.6.3, as well.

Enhancements

This section describes new Entire System Server Features. It covers the following topics:

- [New Features](#)
- [Changed and New Fields](#)

New Features

The following new features have been implemented:

EF-2855 Dynamic Server Management Statistics for Entire System Server (BS2000)

EF-2872 Support password length up to 32 Bytes (for BS2000)

EF-2936 Support Emergency keys with mainframe products

Changed and New Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. Please refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	Change
COPY-FILE	FROM-USER-PASSWORD	Changed, A8 -> A32.
	TO-USER-PASSWORD	Changed, A8 -> A32.
ENTER-PROCEDURE	USER-PASSWORD	Changed, A8 -> A32.
NATPROC-LOGON	PASSWORD	Changed, A8 -> A32.
	NEW-PASSWORD	Changed, A8 -> A32.
SEND-EMAIL	SUBJECT	Changed, A128 -> A253.
SUBMIT	USER-PASSWORD	Changed, A8 -> A32.



Note: These changes and additions are not included in the Predict Data for the view descriptions which still represents the NPR361 level. The changes and additions will be included in the next regular release of Entire System Server.

Solved Problems

This section describes solved problems for Entire System Server 3.6.3.

- [Solved Problems for z/OS](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF-1118	Message ESY0135E with IEC130I SYSIN DD STATEMENT MISSING can occur.
NPRMF-1249	Reject WRITE-FILE with invalid BLKSIZE/LRECL.
NPRMF-1289	XCOMINIT requires the Adabas link routine in RMODE24.
NPRMF-1295	XCOMV214 COMPLETION CODE=0C1 REASON CODE=00000001.
NPRMF-1304	APF authorization missing.
NPRMF-1309	Abend S0C1 after MPM00-error, target not initialized.
NPRMF-1310	Undesired messages ICH70001I for NATPROC - LOGON requests from Natural subtasks.
NPRMF-1321	LOGVRACF calling behavior.
NPRMF-1325	Rename Dataset error: ESY5575 rename failed.
NPRMF-1326	Verification Failure.
NPRMF-1335	ESY5693 DISP=MOD not supported with PDS.
NPRMF-1337	IEW2900T E913 BINDER ABNORMAL TERMINATION with ABEND 0F4.
NPRMF-1338	Mark jobs managed by Work Load Manager.
NPRMF-1340	<i>LIB-DIRECTORY</i> should show NOTEXEC for non-program-objects.
NPRMF-1341	ICH409I 282-054 ABEND DURING RACHECK PROCESSING.
NPRMF-1343	IEA705I ERROR DURING FREEMAIN SYS CODE = A78-10.
NPRMF-1344	Error ESY5510, Logon required, even with parameter Security=RACX.
NPRMF-1350	NPR Node crashed with abend S0C4 after RACF errors.
NPRMF-1359	View SYSTEM-COMMAND: handle more than 20 commands and sub-commands.
NPRMF-1361	Command-log shows some wrong data for L1 calls.
NPRMF-1362	COPY-FILE can fail for PDSE objects.
NPRMF-1369	LOOP with CATALOG view for GDG Multi-volume datasets.

7 Entire System Server 3.6.2 Release Notes

▪ Support of Previous Versions	24
▪ Prerequisites	24
▪ Enhancements	25
▪ Solved Problems	26
▪ Migration Considerations	27

For further information, you might also want to refer to the Entire System Server 3.6.1 Release Notes. These Release Notes provide an overview on all changes for Entire System Server 3.6.2.

Support of Previous Versions

For information on how long a product is supported by Software AG, access Software AG's customer support web site at <https://empower.softwareag.com/Products/default.asp>. This application allows you to retrieve support information for specific products and releases.

Prerequisites

Before you can install Entire System Server, the following Software AG products must already be installed at your site:

- Natural version 8.2.6 or above;
- Adabas version 8.3.4 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 6.3.2 or above (optional, for multi-CPU Support);
- Natural ISPF Version 8.2.6 or above (optional);
- Predict Version 8.3.1 or above (optional).

Entire System Server Services are available in any Natural environment that runs any or a combination of the following operating systems:

- z/OS Version 2.1 or above;
- z/VSE Version 5.2 or above;
- BS2000 Version 9 or above.

Notes:

- See IBM Information APAR II11784 for recommended JES3 SAPI maintenance.
- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.
- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

This section describes new Entire System Server Features. It covers the following topics:

- [New Features](#)
- [Changed and New Fields](#)

New Features

The following new features have been implemented:

EF-1837 Receive emails with Entire System Server (NPR) (z/OS only). See new view `RECEIVE-EMAIL`, examples, configuring AT-TLS and the new startup parameters: `IMAP-HOST`, `IMAP-PORT`, `LIST-NUM-MAILS` and `LIST-NUM-MAILS-MAX`.

EF-2172 New field in `ACTIVE-JOBS` to return the CPU time including preemptable-class CPU time

EF-2275 Support for RACF password phrases in `NATPROC-LOGON`

EF-2330 Increase maximum length of startup parameter `SMTP-HOST`

Changed and New Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. Please refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	Change
ACTIVE-JOBS	ECPU-USED	New, N7.2
LIB-DIRECTORY	RECORD-COUNT	Changed, N7 -> N11
NATPROC-LOGON	PASSPHRASE	New, A100
	NEW-PASSPHRASE	New, A100
RECEIVE-EMAIL	New view for z/OS, please see <code>RECEIVE-EMAIL</code> in <i>View Descriptions</i> in the <i>User's Guide</i> .	New for z/OS, see DDM.



Note: These changes and additions are not included in the Predict Data for the view descriptions which still represents the NPR361 level. The changes and additions will be included in the next regular release of Entire System Server.

Solved Problems

This section describes solved problems for Entire System Server 3.6.2.

- [Solved Problems for z/OS](#)
- [Solved Problems for z/VSE](#)
- [Solved Problems for BS2000](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF-1168	Using NOMVPRNT results in ESY5777.
NPRMF-1179	How to find out if NAT is running under NPR?.
NPRMF-1191	Submit view put some chars like 00001 at the right hand in JCL cards.
NPRMF-1211	Operator Command XABS results incorrect.
NPRMF-1221	View WRITE-FILE with DISP=MOD overwrites PO-Member.
NPRMF-1222	LIB-DIRECTORY does not find specified member in CA-Librarian data set.
NPRMF-1226	Natural ISPF log not updating (JES3).
NPRMF-1227	Spooling-Print View mixed up data.
NPRMF-1229	Spooling-Print View does not freemain Printer Controlblock.
NPRMF-1234	SPOOL-UPDATE incorrect Error 833 You are not allowed to alter this job.
NPRMF-1235	SEND-MAIL with default code page 037 – translation incomplete.
NPRMF-1261	WTO missing for SPOOL-UPDATE requests processed using SSI function 85.
NPRMF-1263	ESY0068 rc 36 writing an SMF record although parm SMFREC not set.
NPRMF-1264	Enhance SMF Records for ESM subtasks with DDNAME.
NPRMF-1275	Support for z/OS 2.3 JES2 and JES3.
NPRMF-1278	Abend 0C1 in unknown module using view EVENTING.
NPRMF-1285	Abend S0C4 in NPRCMDLG+76C or user Abend 253.
NPRMF-1286	View ALLOCATIONS does not return UNIT and VOLSER for data sets allocated with DD level accounting suppressed.

Solved Problems for z/VSE

Problem	Short Description
NPRMF-1190	NPR returns ESY0057W UNKNOWN POWER VERSION. for z/VSE V6.1.
NPRMF-1207	SYSTEM-INFO view in VSE 6.1.
NPRMF-1208	Load for module XCOMV050 fail in z/VSE.
NPRMF-1211	Operator Command XABS results incorrect.
NPRMF-1235	SEND-MAIL with default code page 037 – translation incomplete.
NPRMF-1244	ACTIVE-JOBS may return incorrect data in field REGION.
NPRMF-1281	Incorrect Phase Length shown (Modules are GT 10 MB).

Solved Problems for BS2000

Problem	Short Description
NPRMF-1185	SYSTEM-INFO: Provide UTC timestamp and time zone information.
NPRMF-1211	Operator Command XABS results incorrect.
NPRMF-1273	ESYMAIL task abend due to integer overflow as of 2018-01-19.

Migration Considerations

z/OS

During the implementation of the support for the new fields PASSPHRASE and NEW-PASS-PHRASE user identification and verification using the SAF router interface have been transferred to the NATPROC-LOGON view processor. Consequently, the user exit LOGVRACF is no longer required. However, it can be used to implement additional verification if required by the installation.

8

Entire System Server 3.6.1 Release Notes

▪ Support of Previous Versions	30
▪ Prerequisites	30
▪ New Features and Enhancements	31
▪ Solved Problems	33
▪ Migration Checklists	33
▪ Changes with the Next Version	34

These Release Notes provide an overview on all changes for Entire System Server 3.6.1.

Support of Previous Versions

For information on how long a product is supported by Software AG, access Software AG's customer support web site at <https://empower.softwareag.com/Products/default.asp>. This application allows you to retrieve support information for specific products and releases.

Prerequisites

Before you can install Entire System Server, the following Software AG products must already be installed at your site:

- Natural Version 8.2.4 or above;
- Adabas Version 8.2.5 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 6.3.1 or above (optional, for multi-CPU Support);
- Natural ISPF Version 8.2.4 or above (optional);
- Adabas Review Version 4.7.1 (optional);
- Predict Version 8.2.3 or above (optional).

Entire System Server Services are available in any Natural environment that runs any or a combination of the following operating systems:

- z/OS Version 1.13 or above;
- z/VSE Version 5.1 or above;
- BS2000 Version 8 or above.

Notes:

- For z/OS 2.1 and above, the relevant PTF for APAR OA48683 must be applied.
- For z/OS JES3, please refer to APAR III11784 for recommended JES3 SAPI maintenance.
- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.

- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

New Features and Enhancements

This section describes new Entire System Server Features. It covers the following topics:

- [Common New Enhancements](#)
- [New Features for z/OS](#)
- [New Features for BS2000](#)
- [New, Changed and Deleted Fields](#)

Common New Enhancements

NPRMF-1129 New Operator Command XABS

The new operator command XABS provides a report on the usage of attached buffers which are displayed as a set of console messages.

New Features for z/OS

EF-1824 Support PDSE Version 2 and Member Generations, Stage 2 (z/OS)

The DDMs for the views LIB-UPDATE, SUBMIT and WRITE-FILE now contain a GENERATION field to be used with PDSE version 2 libraries and member generation.

EF-1105 New Parameter OUTPUT MAILTO in WRITE-SPOOL View

The DDM for view WRITE-SPOOL now contains new fields to support the OUTPUT JCL parameters MAILBCC, MAILCC, MAILFROM, MAILTO, REPLYTO and TITLE.

New Features for BS2000

EF-1857 BS2000 SECOS Co-owner Integration

A new startup mode has been implemented on BS2000. The parameter `SERVER-PER-USER=YES` instructs Entire System Server (NPR) to enter the EYSERV job control with the user ID of the requesting user. Refer to

- chapter *How to Start/End Entire System Server on BS2000*, section *Server-per-User Mode*
- chapter *BS2000 Security Considerations*, section *Server-per-User Mode*
- Startup Parameter `SERVER-PER-USER`

Currently, this parameter cannot be used when running EOM (Entire Output Management) and EOR (Entire Operations).

EF-1898 Support LMS Typ L

LLMs can be read with view `READ-FILE` now.

New, Changed and Deleted Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. Please refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	Change
LIB-UPDATE	GENERATION	New for z/OS, N9
SUBMIT	GENERATION	New for z/OS, N9
WRITE-FILE	GENERATION	New for z/OS, N9
WRITE-SPOOL	MAILTO	New for z/OS, A60
	MAILCC	New for z/OS, A60
	MAILBCC	New for z/OS, A60
	MAILFROM	New for z/OS, A60
	REPLYTO	New for z/OS, A60
	TITLE	New for z/OS, A60

Solved Problems

This section describes solved problems for Entire System Server 3.6.1.

- [Solved Problems for z/OS](#)
- [Solved Problems for z/VSE](#)
- [Solved Problems for BS2000](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF-1116	Support for z/OS 2.2 JES2 and JES3.
NPRMF-1130	Support for IBM APAR OA46291.
NPRMF-1135	Loop in XCOMJESC trying to read an IOT from JES2 spool.
NPRMF-1142	FILE-ATTRIBUTES may incorrectly return a value of zero for NUMBER-OF-MEMBERS.

Solved Problems for z/VSE

Problem	Short Description
NPRMF-1083	NSPF823 / NPR352 for VSE: Time missing in SYSLOG.

Solved Problems for BS2000

n/a

Migration Checklists

The following checklists are provided to assist you in migration from NPR35x:

- [z/OS](#)
- [z/VSE](#)

- [BS2000](#)

z/OS

Startup Parameters:

- If you are using the SYSTEM-COMMAND view, please note that the default value for APPC TPNAME is now `SAG.NPR361.XCOMTP46`. If you are going to use this default value, the transaction program name needs also to be defined for APPC/MVS. For details, please refer to *APPC/MVS Definitions for the SYSTEM-COMMAND View* in the section *z/OS Considerations*, in the *Administration Guide* chapter.
- If you are using the READ-FILE view with the GENERATION parameter introduced with NPR354, please note that now error message `ESY5541 Member generation not found in directory.` is returned if the requested member generation is not found in the PDSE directory. The NPR354 version of READ-FILE used to return error message `ESY5998 MEMBER not found.` in this situation. Please adapt your applications accordingly.

JCL Procedure:

- Update the DD statement for LICENSE to reflect the new license key file for your processor(s).

z/VSE

JCL Procedure:

- Update the DD statement for LICENSE to reflect the new license key file for your processor(s).

BS2000

JCL Procedure:

- Update the ADD-FILE-LINK statement for LICENSE to reflect the new license key file for your processor(s).

Changes with the Next Version

We plan to implement support for multi-level security in a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG Customer Support.

9 Entire System Server 3.5.4 Release Notes

▪ Support of Previous Versions	36
▪ Prerequisites	36
▪ Enhancements	37
▪ Solved Problems	38
▪ Changes with the Next Version	39

For further information, refer to the Entire System Server Release Notes for version 3.5.1, 3.5.2 and 3.5.3. The corresponding documentation is available in <https://empower.software-ag.com/Products/Documentation/default.asp>.

These Release Notes provide an overview of solved problems provided for Entire System Server 3.5.4.

This chapter covers the following topics:

Support of Previous Versions

For information on how long a product is supported by Software AG, access Software AG's customer support web site at <https://empower.softwareag.com/Products/default.asp>. This application allows you to retrieve support information for specific products and releases.

Prerequisites

Before you can install the Entire System Server, the following Software AG products must already be installed at your site:

- Natural Version 8.2.3 or above;
- Adabas Version 8.2.5 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 6.3.1 (optional, for multi-CPU Support);
- Natural ISPF Version 8.2.3 or above (optional)
- Predict Version 8.2.2 or above (optional).

The Entire System Server Services are available in the following operating systems:

- z/OS Version 1.13 or above;
- z/VSE Version 5.1 or above;
- BS2000/OSD Version 8 or above.

Notes:

- See IBM Information APAR II11784 for recommended JES3 SAPI maintenance.
- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.

- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

This section covers the following topics:

- [New Features](#)
- [New, Changed and Deleted Fields](#)

New Features

The following new features have been implemented:

- EF-1527 Support PDSE version 2 and member generations, stage 1 (z/OS);
- EF-1638 SEND-EMAIL with valid and invalid email recipients.

New, Changed and Deleted Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. Please refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	Change
FILE-ALLOCATE	DSNTYPE-VERSION	New, N1
	EATTR	New, A3
	MAXGENS	New, N9
	STANDARD-BLOCKS	Deleted
FILE-ATTRIBUTES	CREATE-JOBNAME	New, A8
	CREATE-STEPNAME	New, A8
	DSNTYPE-VERSION	New, N1
	EATTR	New, A3
	MAXGENS	New, N9
LIB-DIRECTORY	GENERATION	New, N9
READ-FILE	GENERATION	New, N9
SEND-EMAIL	IGNORE-RCPT-REJECT	New, A3
	EXTENDED-TEXT	New, A250



Note: These changes and additions are not included in the Predict data for the view descriptions which still represents the NPR351 level. The changes and additions will be included in the next regular release of Entire System Server.

Solved Problems

This section describes solved problems for Entire System Server 3.5.4.

- [Solved Problems for z/OS](#)
- [Solved Problems for z/VSE](#)
- [Solved Problems for BS2000/OSD](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF-810	Abend 0C4 in NATPEML using view SEND-EMAIL.
NPRMF-903	FILE-ATTRIBUTES returns zero PERCENT-USED for a non-empty sequential data set.
NPRMF-1073	REGION field of ADDRESS-SPACE always ZERO value.
NPRMF-1074	Correction missing in XCOMXMEM.
NPRMF-1085	Abend S0C4-11 in XCOMV002 at +X'1258' when reading a member from a PDSE with extended attributes.
NPRMF-1089	View Address-Space: Abend S0C4 in XCOMV021 under z/OS 2.1.
NPRMF-1092	View Load-Module: Problems with FUNC= DATA and FUNC=ESD.
NPRMF-1096	Abend S0C1 during startup of Entire System Server.
NPRMF-1106	NPR5995 for FILE-ATTRIBUTES for a PDSE with extended attributes.
NPRMF-1111	Error 5712 Request to Common JES Interface failed.
NPRMF-1114	Abend User 0253 during Start Up of NPR without Steplibs.

Solved Problems for z/VSE

Problem	Short Description
NPRMF-1035	Message ESY0084W misleading and needs 2 lines.

Solved Problems for BS2000/OSD

Problem	Short Description
NPRMF-1082	SUBMIT - ERROR-CODE 799, SYSTEM-MESSAGE-CODE '*VDSN INT'.
NPRMF-1109	Read type R LMS elements.
NPRMF-1112	NPR352/1 writes NPR.DUPLICATE-Files.

Changes with the Next Version

We plan to implement support for multi-level security in z/OS with a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG Customer Support.

10

Entire System Server 3.5.3 Release Notes

▪ Support of Previous Versions	42
▪ Prerequisites	42
▪ Enhancements	43
▪ Solved Problems	44
▪ Changes with the Next Version	45

For further information, also refer to the *Release Notes* for version [3.5.2](#) and [3.5.1](#) below. The corresponding documentation is available in <https://empower.softwareag.com/Products/Documentation/default.asp>.

This chapter covers the following topics:

Support of Previous Versions

For information on how long a product is supported by Software AG, log in to Empower (<https://empower.softwareag.com/Products/default.asp>).

Prerequisites

Before you can install Entire System Server, the following Software AG products must already be installed at your site:

- A license file. See *Software AG Mainframe Product Licensing* for transferring the license file to your mainframe platform (z/OS | z/VSE | BS2000/OSD);
- Natural version 8.2.2 or above;
- Adabas version 8.2.3 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work version 6.2.2 (optional, for multi-CPU support);
- Natural ISPF version 8.2.2 or above (optional);
- Predict version 8.2.2 or above (optional).

Entire System Server services are available in any Natural environment that runs any of or a combination of the following operating systems:

- z/OS version 1.12 or above;
- z/VSE version 4.3 or above;
- BS2000/OSD version 6 or above.

Notes:

- See IBM Information APAR II11784 for recommended JES3 SAPI maintenance.
- Software AG provides support for Entire System Server for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.

- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

This section covers the following topics:

- [New Features](#)
- [New, Changed and Deleted Fields](#)

New Features

The following new features have been implemented:

- EF-217 Support for large format sequential data sets (z/OS);
- EF-219 Support latest version of MFLIC;
- EF-521 Support for z/OS V2R1;

- EF-1104 New view to determine whether a library is APF authorized or not (z/OS);
- EF-1106 Enhance User Exit functionality (BS2000/OSD).

New, Changed and Deleted Fields

The following table summarizes fields that have been added, changed or deleted in an existing view. For details, refer to the respective view in *View Descriptions* in the *User's Guide* documentation.

View	Field	New/Changed/Deleted
FILE-ALLOCATE	DSNTYPE	New, A8
READ-FILE	BLOCK-TOKEN	New, B4
WRITE-FILE	BLOCK-TOKEN	New, B4
UNIT-ATTRIBUTES	EAV	New, A3
	FREE-CYLINDERS-TRACK-MANAGED	New, N7
	FREE-EXTENTS-TRACK-MANAGED	New, N4
	CONTIG-CYLINDERS-TRACK-MANAGED	New, N7
	TOTAL-CYLINDERS-TRACK-MANAGED	New, N7



Note: These changes are not included in the Predict data for the view descriptions. The Predict data still reflects Entire System Server version 3.5.1. The changes will be included in the next regular release of the Entire System Server.

Solved Problems

This section gives an overview on solved problems for Entire System Server 3.5.3.

- [Solved Problems for z/OS](#)
- [Solved Problems for z/VSE](#)
- [Solved Problems for BS2000/OSD](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF-968	Error "ESY5803 Cannot access data." from ALLOCATIONS.
NPRMF-971	Printing to Hardcopy Printer using Access-Method AM=ESS in Natural is incomplete
NPRMF-993	Abend 0C4 in case of MPM 00 error during startup
NPRMF-995	nat message for write-file
NPRMF-580	Param TRACE-SAV=/TRACE-LEN
NPRMF-948	Nested SEND-EMAIL should result in error message
NPRMF-1025	Eventing View: a second Wait after Post is not handled correctly
NPRMF-1020	SPOOL-UPDATE CANCEL fails for job on output queue without any output elements
NPRMF-1021	Command Logging may Abend the entire Address Space
NPRMF-1030	Abend S0C4-38 in XCOMXMEM at +X'1C8'
NPRMF-1033	NPR may hang after client cancels its own address space using this NPR
NPRMF-1042	error 5722 occurs after using "LARGEDS=ALLOWED" und "CYL_MANAGED=ALLOWED" in JES2
NPRMF-1056	Abend S0C4-10 in XCOMV035 at +X' 2456'

Solved Problems for z/VSE

Problem	Short Description
NPRMF-977	Dump at Browse of XMT-Queue Entries
NPRMF-994	abend AB21 under NPR
NPRMF-1003	view SYSTEM-INFO in VSE shows wrong values
NPRMF-948	Nested SEND-EMAIL should result in error message
NPRMF-1007	VSE: Console-log provide wrong Record-number
NPRMF-1011	Error NAT3003 using view Submit or Write-file in VSE
NPRMF-1009	S0C4-Dump doing Browse on currently transferred Job
NPRMF-1014	Hang Situation in NPR under VSE
NPRMF-1024	trying to copy an Librarian member may result in error-code 698

Problem	Short Description
NPRMF-1034	Message ESY0007I INACTIVE USER needs 2 lines
ES-12229	NSPF823 / NPR352 for VSE: Time missing in SYSLOG

Solved Problems for BS2000/OSD

Problem	Short Description
NPRMF-1043	ISAM: READ-FILE DIRECTION=B returns no records

Changes with the Next Version

We plan to implement support for multi-level security in z/OS with a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG support.

11

Entire System Server 3.5.2 Release Notes

▪ Support of Previous Versions	48
▪ Prerequisites	48
▪ Enhancements	49
▪ Solved Problems	50
▪ Changes with the Next Version	52

For further information, you should also read the Entire System Server 3.5.1 Release Notes which are delivered with Version 3.5.2 on the current Natural documentation CD-ROM and in printed form. References contained in the Version 3.5.1 Release Notes generally refer to the corresponding Version 3.5.1 manuals which are included in the Version 3.5.2 documentation.

These Release Notes provide an overview on all changes for Entire System Server 3.5.2 and cover the following topics:

Support of Previous Versions

For information on how long a product is supported by Software AG, log in to **Empower** (<https://empower.softwareag.com>) and select "PRODUCTS > PRODUCT AVAILABILITY".

Prerequisites

Before you can install the Entire System Server, the following Software AG products must already be installed at your site:

- A license file. See *Software AG Mainframe Product Licensing* for transferring the license file to your mainframe platform (z/OS | z/VSE | BS2000/OSD);
- Natural Version 4.2.7 or above;
- Adabas Version 8.2.2 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 6.2.1 (optional, for multi-CPU Support);
- Natural ISPF Version 2.6.7 or above (optional);
- Predict Version 4.6.1 or above (optional).
- Adabas Review Version 4.5.2 or above (optional)

Entire System Server services are available in any Natural environment that runs any of or a combination of the following operating systems:

- z/OS Version 1.11 or above;
- z/VSE Version 4.2 or above;
- BS2000/OSD Version 6 or above.

Notes:

- For z/OS JES2, the PTF for APAR OA32551 must be applied.

- For z/OS JES3, the PTFs for APARs OA24556 and OA31512 must be applied. See also APAR II11784 for recommended JES3 SAPI maintenance.
- For installing and activating the Write-To-Spool feature with Natural
- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.
- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

This section covers the following topics:

- [New Features](#)
- [New, Changed and Deleted Fields](#)

New Features

The following new features have been implemented:

EF-221 Support for IPv6 with view SEND-EMAIL (z/OS, z/VSE);

EF-348 Support for OPERLOG in view CONSOLE-LOG;

EF-841 Support for 64 bit virtual storage addresses in view MAIN-STORAGE in z/OS.

New, Changed and Deleted Fields

The following table summarizes the fields that have been added. Please see the respective entry in *View Descriptions* in *User's Guide* for details.

View	Field	Change
CONSOLE-LOG	DATA-SET-KEY	Changed, N7 -> N11
	LOG-SOURCE	New, A8
LIB-DIRECTORY	USER-DATA-HEX	New, B120
MAIN-STORAGE	ADDRESS-64BIT	New, B8
READ-SPOOL	DATA-SET-KEY	Changed, N7 -> N11
SEND-EMAIL	FROM-NAME	New (now documented)
SPOOL-FILES	DATA-SET-KEY	Changed, N7 -> N11

View	Field	Change
WRITE-FILE	USER-DATA-HEX	New, B120



Note: These changes and additions are not included in the Predict data for the view descriptions. The Predict data still reflects Entire System Server version 3.5.1. The changes and additions will be included in the next regular release of the Entire System Server.

Solved Problems

This section gives an overview on solved problems for Entire System Server 3.5.2.

- [Solved Problems for z/OS](#)
- [Solved Problems for z/VSE](#)
- [Solved Problems for BS2000/OSD](#)

Solved Problems for z/OS

Problem	Short Description
NPRMF-783	Error message "ESY5805 Invalid TCB address." from ALLOCATIONS
NPRMF-790	Abend 0C4 during Shutdown
NPRMF-792	Read VTOC - max. 362 freespace extents displayed
NPRMF-795	Create only one sysout file for any ESM Product Subtask
NPRMF-764	The sample reports from NPR with REVIEW are incorrect.
NPRMF-810	Abend 0C4 in NATPEML using view SEND-EMAIL
NPRMF-811	Support is added for z/OS 1.13 JES2 and JES3.
NPRMF-813	View NET-OPER always returns "access denied by security system"
NPRMF-815	Message IEC988I dsname DATA SET NOT UNALLOCATED DURING CLOSE RC 03
NPRMF-816	JES3: invalid cancel command
NPRMF-832	VOLSER-ARRAY info in FILE-ATTRIBUTES view
NPRMF-838	View File-Attributes may loop
NPRMF-844	Incorrect results for JES-INIT-ID with z/OS 1.12
NPRMF-837	ALLOCATIONS view returns ESY5803
NPRMF-834	SYSTEM COMPLETION CODE=0E0 REASON CODE=00000028 starting NPR
NPRMF-849	Abend 0E0-28 in XCOMJESC at +X'2766' (with JES2) or at +X'2CC0' (with JES3)
NPRMF-865	Command Log missing Records with NAT82
NPRMF-863	Long response times with ACTIVE-JOBS
NPRMF-864	ADDRESS field in ACTIVE-JOBS may be incorrect
NPRMF-866	LIB-DIRECTORY and WRITE-FILE: USER-DATA Enhancement

Problem	Short Description
NPRMF-868	Fetching "DATA" of a LOAD-MODULE doesn't respect ESD-NAME correctly
NPRMF-876	XCOMINIT does not chain save area in both directions.
NPRMF-880	SUBMIT view may submit garbage lines
NPRMF-877	DEFINE PRINTER CLASS-setting with AM=ESS
NPRMF-887	Abend S0C4-4 in ESYNMAIN with Adabas 8.2 SVC
NPRMF-890	Spelling error in error message NAT5660
NPRMF-894	Abend 0C4 in module NPRZREPT
NPRMF-908	Abend S0C4-4 in modules XCOMV012, XCOMV025 or XCOMV036
NPRMF-905	ESY0135E APPC server not found or abended. APPC session was deallocated
NPRMF-919	ESY5897 Mailer response: errno 0156 in EZASMI INITAPI.
NPRMF-927	Support REVIEW 4.6
NPRMF-933	SPOOL-QUEUE field DATE-XEQ-STOP contains WWWWWWWW
NPRMF-931	Using ACTIVE-JOBS with field CLASSES with several job entry subsystems
NPRMF-929	ESY5530 on UNCATLG with * notation
NPRMF-932	Error "ESY5805 Invalid TCB address." from ALLOCATIONS.
NPRMF-934	CEE5101C During initialization, the callable service BPX1MSS failed.
NPRMF-958	VTOC may return ESY5783 since z/OS 1.13
NPRMF-772	Abend S0C4-11 in NPRVTPRT+X'141E'.
NPRMF-903	FILE-ATTRIBUTES returns zero PERCENT-USED for a non-empty sequential data set.

Solved Problems for z/VSE

Problem	Short Description
NPRMF-805	Support for z/VSE 4.3
NPRMF-891	Support for z/VSE 5.1
NPRMF-946	Send-email view returns in VSE: ESY5897 Mailer response: errno 0121
NPRMF-947	VSE: ESYTRACE does not show the subtask identifier.

Solved Problems for BS2000/OSD

Problem	Short Description
NPRMF-807	View LIB-DIRECTORY select field ELEMENT-VERSION
NPRMF-886	Monitor job variable for NATURAL-SUB-TASKS
NPRMF-926	View SYSTEM-COMMAND: Provide LINE text for CAN0HOL error.
NPRMF-945	ESY2143I Invalid PRODUCT specified

Changes with the Next Version

We plan to implement support for multi-level security. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG Customer Support.

12

Entire System Server 3.5.1 Release Notes

▪ Support of Previous Versions	54
▪ Prerequisites	54
▪ New Features	55
▪ Requirements	57
▪ Solved SAGSIS Problems	57
▪ Migration Check Lists	59
▪ Changes with the Next Version	61

For further information, you should also read the Entire System Server 3.4.2 Release Notes which are delivered with Version 3.5.1 on the current Natural documentation CD-ROM and in printed form. References contained in the Version 3.4.2 Release Notes generally refer to the corresponding Version 3.4.2 manuals, which are included in the Version 3.5.1 documentation.

These Release Notes provide an overview on all changes for Entire System Server 3.5.1 and covers the following topics:

Support of Previous Versions

For information on how long a product is supported by Software AG, log in to **Empower** (<https://empower.softwareag.com/Products/default.asp>) and select "Product Availability".

Prerequisites

Before you can install the Entire System Server, the following Software AG products must already be installed at your site:

- A license file. See *Software AG Mainframe Product Licensing* for transferring the license file to your mainframe platform (z/OS | z/VSE | BS2000/OSD).
- Natural Version 4.2.6 or above;
- Adabas Version 8.1.4 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 6.2.1 (optional, for multi-CPU Support);
- Natural ISPF Version 2.6.6 or above (optional);
- Adabas Review Version 4.5.1 (optional) with zap RD451025 applied;
- Predict Version 4.6.1 or above (optional).

Entire System Server services are available in any Natural environment that runs any of or a combination of the following operating systems:

- z/OS Version 1.9 or above;
- z/VSE Version 4.1 or above;
- BS2000/OSD Version 6 or above.

Notes:

- For z/OS, the relevant PTFs for APAR OA10472, OA28726 and OA31238 must be applied.

- For z/OS JES3, the PTFs for APARs OA19893, OA20685, OA23650, OA24556, OA31441 and OA31512 must be applied. See also APAR III11784 for recommended JES3 SAPI maintenance.
-
- Software AG supports Entire System Server for any operating system version that is supported by its respective manufacturer. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.
- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

New Features

This section describes new features of the Entire System Server. It covers the following topics:

- [Common New Features](#)
- [New Features for z/OS](#)
- [New Features for BS2000/OSD](#)
- [New, Changed and Deleted Fields](#)

Common New Features

New Startup Parameter for SEND-EMAIL

For the SEND-EMAIL view, the domain part of the sender's e-mail addresses can now be specified with startup parameter LOCAL-HOST (the local part of the sender's e-mail address is still obtained from the logon ID of the user invoking the SEND-EMAIL request).

Support for License Key Files

Entire System Server now requires a license key file to check for a valid product license for the processor(s) it is running on. See *Software AG Mainframe Product Licensing* for details on how to install your license key file.

New Features for z/OS

View ALLOCATIONS Includes Data from XTIOs

The view ALLOCATIONS now also includes information from XTIOs (extended task I/O table entries).

List of Loaded Modules Includes STEPLIB Library Names

The list of modules loaded by Entire System Server now includes the library names in the STEPLIB concatenation and indicates for each module from which library it has been loaded.

Sample Program to Determine Users Causing a Data Set Allocation

A new sample program (MWHODS) has been included in the online tutorial (library SYSNPE). The program determines by which user a specific data set has been allocated.

New Features for BS2000/OSD

New View Processors for PRINT-DOCUMENT and ENTER-PROCEDURE

New view processors for PRINT-DOCUMENT and ENTER-PROCEDURE are provided to support the corresponding commands in BS2000/OSD. Please see *PRINT-DOCUMENT* and *ENTER-PROCEDURE* in *View Descriptions* in *User's Guide* for details.

New, Changed and Deleted Fields

The following table summarizes the fields that have been added. Please see the respective entry in *View Descriptions* in *User's Guide* for details.

View	Field	Change
ACTIVE-JOBS	REGION-ALLOCATED-BELOW	New, N7
	REGION-LIMIT-BELOW	New, N7
	REGION-ALLOCATED-ABOVE	New, N7
	REGION-LIMIT-ABOVE	New, N7
ALLOCATIONS	PATH-NAME	New, A253
NATPROC-LOGON	CPU	New, N5.2
	IO-COUNT	New, N7
SYSTEM-INFO	CPU-UTILIZATION	New, N3

Requirements

The following requirements have been implemented:

NPRMF-25	SYSDSN ENQ Userid
NPRMF-52	View CONSOLE with SET RC and DC
NPRMF-53	New field CPU-UTILIZATION in SYSTEM-INFO (z/OS).
NPRMF-55	Concurrent read of open file in BS2000
NPRMF-58	CPU-used and IO count in view NATPROC-LOGON with function LOGOFF.
NPRMF-59	CPU accumulation of NAT-Subtasks in NATPROC-USERS.
NPRMF-65	Display library names of loaded modules (z/OS).
NPRMF-69	Option for SEND-EMAIL to specify the domain part of the sender's e-mail address.
NPRMF-70	Show defined size of a region (z/OS and z/VSE).
NPRMF-71	Dual command logs: enhance ESY0038I to show filled file name (z/OS).
NPRMF-72	Let NATPROC-LOGON issue information on password-expiration (z/OS).
NPRMF-76	HTML emails with SEND-EMAIL

Solved SAGSIS Problems

This section describes solved SAGSIS problems for Entire System Server since the latest release (Entire System Server 342). It covers the following topics:

- [Solved SAGSIS Problems for z/OS](#)
- [Solved SAGSIS Problems for z/VSE](#)
- [Solved SAGSIS Problems on BS2000/OSD](#)

Solved SAGSIS Problems for z/OS

Problem	Short Description
309878	Abend S0C4 in XCOMV014 +X466
310295	start all does not work
310520	Abend 0C7 in XCOMV001 offset 15
311344	SPOOL-FILES field DESTINATION
311817	SYSDSN Enques stay open
311939	Request to SPOOLING-PRINT hangs
312146	ADAEND hang
312478	abend EC6 after shutdown OMVS

Problem	Short Description
312825	view allocations returns "5803"
313040	JES2 multi-system spool browse
313056	abend 0C4 XCOMV003 offset 10AA
313682	IDCAMS skips some output lines
313727	Support for z/OS1.11 JES2 & JES
314201	abend 0C4 using LIB-DIRECTORY
314766	abend 0C4 in NPRZREPT+x342
314885	Add binary attachment
315128	ABEND A03 after shutdown
315324	ABEND 16E during WRITE-FILE
316929	lib-zap large output
317017	NPR task looping - resource-con
317056	write-to-spool: DEST not recogn
318109	NPR task looping
318174	Post task without waiting task
319375	SPOOL-UPDATE cancels active job
319651	0C1 in XCOMV024
319704	Propagate targettype=NPR
320683	ESY0098E Review Install. Error
321020	write-spool support form 8 char
321028	Access method ESS form 8 chars
321128	Continuation in SYSTEM-COMMAND
323102	Abend SEC6 during OMVS shutdown
323454	Commands mixed
324247	ALLOCATIONS view and DCB



Note: The solution for SAGSIS Problem 305704 (“lib-directory scan with blank”) is not included in version 3.5.1 because this would have caused inconsistencies with scan algorithms in other view processors. A consistent solution is pending.

Solved SAGSIS Problems for z/VSE

Problem	Short Description
311675	ESY0057W with POWER 8.2 z/VSE 4
316229	4342D NO MATCHING EXTENT / cont
317079	NewLine suppressed by IBM PDT
317118	Error ESY5846 for STATUS reques
317182	Request to SPOOLING-PRINT hangs
318617	post task without waiting task
320292	add binary attachment
321330	propagate targettype=NPR
321333	NPR task looping
321961	error 5661 in ESM Products

Solved SAGSIS Problems on BS2000/OSD

316048	&JOB CARD01 not recognized
316437	CATALOG View unexpected ESY5799
320133	IW88 in NATPCOPY+1E6
321414	propagate targettype=NPR
322404	Frequent ESY5799 error since V8
323777	ESY5508 ADABAS response code 15
324940	NPR node logon impossible in OSD8

Migration Check Lists

The following check lists are provided to assist you in migration from Entire System Server 34x:

- z/OS
- z/VSE

- [BS2000/OSD](#)

z/OS

Startup Parameters

- If you are using the SYSTEM-COMMAND view, please note that the default value for APPC-TPNAME is now SAG.NPR351.XCOMTP46. If you are going to use this default value, the transaction program name needs also to be defined for APPC/MVS. For details, please see *APPC/MVS Definitions for the SYSTEM-COMMAND View* in section *z/OS Considerations*, in *Administration Guide*.
- If you are using the SEND-EMAIL view, you might wish to specify a domain name as LOCAL HOST that will be used as the domain portion of the sender's e-mail addresses. If LOCAL HOST is not specified, the domain portion will be obtained from the TCP/IP stack being used.

JCL Procedure

- Add a DD statement for LICENSE to specify the license key file for your processor(s).
- Add a DD statement for LICREP to specify the destination of the license report to be generated.

z/VSE

Startup Parameters

If you are using the SEND-EMAIL view, you might wish to specify a domain name as LOCAL HOST that will be used as the domain portion of the sender's e-mail addresses. If LOCAL HOST is not specified, the domain portion will be obtained from the TCP/IP stack being used.

JCL Procedure

Add a DLBL statement for LICENSE to specify the license key file for your processor(s). The license report will automatically be generated as part of the Entire System Server job output (following the list of loaded modules).

BS2000/OSD

Startup Parameters

If you are using the SEND-EMAIL view, you might wish to specify a domain name as LOCAL HOST that will be used as the domain portion of the sender's e-mail addresses. If LOCAL HOST is not specified, the domain portion will be obtained from the TCP/IP stack being used.

JCL Procedure

- Add an ADD-FILE-LINK statement for LICENSE to specify the license key file for your processor(s).
- Add an ADD-FILE-LINK statement for LICREP to specify the destination of the license report to be generated.

Changes with the Next Version

We are planning to drop support for changing the DBID for Entire System Server DDMs using the installation aid (SYSNPR) in a future version.

We are planning to implement support for multi-level security in a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG support.

13

Entire System Server 3.4.2 Release Notes

- Support of Previous Versions 64
- Prerequisites 64
- Enhancements 65
- Solved SAGSIS Problems 66
- Changes with the Next Version 67

For further information, you should also read the Entire System Server 3.4.1 Release Notes, which are delivered with Version 3.4.2 on the current Natural Documentation CD-ROM and in printed form. References contained in the Version 3.4.1 Release Notes generally refer to the corresponding Version 3.4.1 manuals, which are included in the Version 3.4.2 documentation.

These Release Notes provide an overview of solved problems provided for Entire System Server 3.4.2.

Support of Previous Versions

For information on how long a product is supported by Software AG, log in to [Empower](#) and select "Product Version Availability".

Prerequisites

Before you can install the Entire System Server, the following Software AG products must already be installed at your site:

- Natural Version 4.2.3 or above;
- Adabas Version 7.4.4 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 5.9.1 (optional, for multi-CPU Support);
- Natural ISPF Version 2.6.3 or above (optional);
- Predict Version 4.5.1 or above (optional).

The Entire System Server Services are available in any Natural environment that runs any of or a combination of the following operating systems:

- z/OS Version 1.8 or above;
- z/VSE Version 3.1 or above;
- BS2000/OSD Version 4 or above.

Notes:

- For z/OS, the relevant PTFs for APAR OA17274 must be applied.
- For z/OS JES3, the PTFs for APARs OA16284, OA19893, OA20685, OA24167 and OA24556 must be applied. See also Information APAR II11784 for recommended JES3 SAPI maintenance.
- Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops support-

ing a version of an operating system, Software AG will stop supporting that operating system version.

- Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

Enhancements

The following Enhancement Proposals have been implemented:

EP 4197	Support more than 7 digits (9999999) used PAM pages
EP 5181	NPR332 field REGION in VIEW ACTIVE-JOBS only (N5)

Changed and new fields

The following table summarizes the fields that have been added or changed. Please see the associated view descriptions in the "User's Guide" for details regarding the affected fields.

View	Field	Change
ACTIVE-JOBS	REGION	Changed, N5 -> N7
CATALOG	FILE-SIZE	Changed, N7 -> N10
FILE-ALLOCATE	PRIMARY-ALLOCATION	Changed, N7 -> N10
	SECONDARY-ALLOCATION	Changed, N7 -> N10
FILE-ATTRIBUTES	DSNTYPE	New, A8
	FILE-SIZE	Changed, N7 -> N10
	LAST-TTTR	New, B4
	PRIMARY-QTY	New, N10
	SECONDARY-QTY	Changed, N7 -> N10
LIB-DIRECTORY	MODULE-LENGTH	Changed, N7 -> N11
UNIT-ATTRIBUTES	CONTIG-CYLINDERS	Changed, N5 -> N7
	FREE-CYLINDERS	Changed, N5 -> N7
	TOTAL-CYLINDERS	Changed, N5 -> N7
VTOC	DSNTYPE	New, A8
	FILE-SIZE	Changed, N7 -> N10
	LAST-TTTR	New, B4
	PRIMARY-QTY	New, N10
	SECONDARY-QTY	Changed, N7 -> N10



Note: These changes and additions are not included in the Predict Data for the view descriptions which still represents the Entire System Server 341 level. The changes and additions will be included in the next regular release of the Entire System Server.

Solved SAGSIS Problems

This section describes solved SAGSIS problems for Entire System Server 3.4.2. SAGSIS is the internal Software AG Support Information System where we track problem issues. The section covers the following topics:

- [Solved SAGSIS Problems for z/OS](#)
- [Solved SAGSIS Problems for z/VSE](#)
- [Solved SAGSIS Problems on BS2000/OSD](#)

Solved SAGSIS Problems for z/OS

Problem	Short Description
293993	Console-Log FIND nnn PREV loops
298362	GETMAIN error SYS CODE= 878-10
298525	XCO0026E 00125 APPL stop error
298999	"CEEPIPI ERROR1"
299168	NATPROC-USERS Nat subtask missing
299596	New function
299847	system-command large output
299930	COPY-FILE alias invalid ESY5554
300320	IEBCOPY - wrong COMPLETION-CODE
300975	Messages "ESY0563I \$CBIO failed"
301054	SMS CLASSES missing
301381	NAT5690 :1: error :2: during :3
301393	ABEND S0C4 in XCOMSFB offset 80
302777	status command nom
303305	abend 0C1 using console view
303505	ADARSP 2510 during direct calls
303599	Error ESY5846 for STATUS request
303985	NPR332 field REGION in ACTIVE-JOB
305587	NPR stops IEF238D
305667	0C4 in XCOMV035 offset 2446
305704	lib-directory scan with blanks

Problem	Short Description
305916	SYSTEM-COMMAND ATB80054I
306353	IDCAMS: Message "IDC4999I"
307320	print to VTAM hangs
308567	ESY5710 - leading 0 missing
308642	NewLine suppressed by IBM PDT
308881	error-text contains garbage
309016	LIB-DIRECTORY search lower case

Solved SAGSIS Problems for z/VSE

Problem	Short Description
297987	send-email VB attachment

Solved SAGSIS Problems on BS2000/OSD

Problem	Short Description
297897	Duplicate CSECT in ESYPROC
298809	E.ESYSTOP hangs after long run
301704	View File-Attributes LAST-TTR
301903	SUBMIT returns JMS0028 to NOP
303496	Abend 8C in Event task at ADAEND

Changes with the Next Version

We plan to implement support for multi-level security in z/OS with a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG Customer Support.

14

Entire System Server 3.4.1 Release Notes

▪ Support of Previous Versions	70
▪ Prerequisites	70
▪ New Features	71
▪ Enhancements	74
▪ Solved SAGSIS Problems	74
▪ Migration Checklists	76
▪ Changes with the Next Version	77

For further information, you should also read the Entire System Server 3.3.2 Release Notes, which are delivered with Version 3.4.1 on the current Natural Documentation CD-ROM and in printed form. References contained in the Version 3.3.2 Release Notes generally refer to the corresponding Version 3.3.2 manuals, which are included in the Version 3.4.1 documentation.

These Release Notes provide an overview of solved problems provided for Entire System Server Version 3.4.1.

Support of Previous Versions

For information on how long a product is supported by Software AG, log in to [Empower](#) and select "Product Version Availability".

Prerequisites

Before you can install the Entire System Server, the following Software AG products must already be installed at your site:

- Natural Version 4.2.2 or above;
- Adabas Version 7.4.4 or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 5.9.1 (optional, for multi-CPU Support);
- Natural ISPF Version 2.5.4 or above (optional)
- Predict Version 4.5.1 or above (optional).

The Entire System Server Services are available in any Natural environment that runs any of or a combination of the following operating systems:

- z/OS Version 1.6 or above;
- z/VSE Version 3.1 or above;
- BS2000/OSD Version 5 or above.

Notes:

In a z/OS environment, Zap XC71001 must be applied to Entire System Server, if Dual Data Set Command Logging is to be used.

For z/OS, the relevant PTFs for APARs OA10472 and OA17274 must be applied.

For z/OS JES2, the PTFs for APARs OA06694 and OA11039 must be applied.

For z/OS JES3, the PTFs for APARs OA16284, OA19893 and OA20685 must be applied.

See also Information APAR II11784 for recommended JES3 SAPI maintenance.

Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.

Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

New Features

This section describes new Entire System Server Features. It covers the following topics:

- [Common New Features](#)
- [New Features for z/OS](#)
- [New Features for BS2000/OSD](#)

Common New Features

Enhancements to SEND-EMAIL

With the SEND-EMAIL view now also BCC-RECIPIENT addresses can be specified.

To send a text file as an e-mail attachment, a DSNAME and optionally a MEMBER or ELEMENT name can be specified with the first PROCESS statement for a SEND-EMAIL command sequence.

For the details of these enhancements, see View Descriptions, SEND-EMAIL, in the *User's Guide*.

New Features for z/OS

Support for Dual Data Set Command Logging

To handle an out-of-space condition with a CLOG data set, command logging was enhanced to handle two data sets (CLOGR1 and CLOGR2) which will be used alternating. If only one CLOG data set is used, command logging will be disabled when the data set is full.

Command Authorizations Now Checked in the CONSOLE View Processor

Command authorization checking was enhanced to determine the proper resource name and required access authority in the OPERCMDS class for the system command to be issued. Checking is now done in a subroutine of the CONSOLE view processor, and the OPRVACF security exit is only to be used for additional checks to be implemented by the customer.

Support for Review in Local Mode

The command logging function has been enhanced to also provide Adabas command data to Review in local mode. A new startup parameter REVIEW has been introduced to control if command log records are to be passed to Review. For details, see the sections Startup Parameters and z/OS Considerations, Using Review with Entire System Server in the Administration Guide.

SVC Screening Eliminated

SVC screening had been used in previous releases of Entire System Server for z/OS to intercept some SVCs issued in the Entire System Server address space in order to propagate a security environment to subtasks. By changing the IDCAMS and SYSTEM-COMMAND view processors the need to manipulate those SVCs has been eliminated.

SYSTEM-COMMAND View Processor Rewritten

The implementation of the SYSTEM-COMMAND view processor in previous releases of the Entire System Server had some security and APF authorization issues. These issues have been resolved by redesigning the view processor to schedule the TSO/E commands to be issued to an APPC/MVS transaction outside the Entire System Server address space.

Three new startup parameters (APPC-TPNAME, APPC-LUNAME and APPC-MODENAME) have been introduced to define the APPC/MVS transaction. In addition, resources need to be defined for APPC/MVS, TSO/E and VTAM. For details, see the sections Startup Parameters and z/OS Considerations, APPC/MVS Definitions for the SYSTEM-COMMAND View in the Administration Guide.

Support for SMF Log Stream Recording (z/OS 1.9)

With z/OS 1.9, customers may choose to have SMF record accounting data either to VSAM data sets (SYS.MANx) or to z/OS log streams. The ACCOUNTING view processor has been changed to determine where the SMF data is recorded and eventually to read the data from an SMF log stream.

ESY Single-User Mode

ESY single-user mode is now available in batch mode and under TSO.

New Features for BS2000/OSD

Support for Encrypted Passwords

Support has been added to the SUBMIT view for BS2000/OSD to be used on systems with encrypted passwords.

Continuation of Parameters in NPR3xx.PARM

All Entire System Server tasks can now be started by an SDF-P procedure. Additional operands to adjust /ENTER-PROCEDURE are supplied by new entries in the parameter file. Each /ENTER-PROCEDURE operand is represented by a separate parameter. There is no need for multi line parameter values anymore.

ERROR Message if SPOOL Not Active

Entire System Server will issue an error message if the Spool subsystem is not active at startup time. It will come up with setting SPOOL=NONE.

New, Changed and Deleted Fields

The following table summarizes the fields that have been added, changed or deleted. For details regarding the affected fields, see the associated view descriptions in the User's Guide.

View	Field	Change
CONSOLE	DESCR-CODE-STRING	New, A16
	HOLD-FLAG	New, A1
	ROUTE-CODE-STRING	New, A28
	TIME-STAMP-LONG	New, A11
CONSOLE-LOG	LOG-TIME-LONG	New, A11
SEND-EMAIL	BCC-RECIPIENT	New, A128
	DSNAME	New, A54

View	Field	Change
	ELEMENT	New, A64
	MEMBER	New, A10
	PASSWORD	New, A8
	ELEMENT-PASSWORD	New, A8
	ELEMENT-TYPE	New, A8
	MEMBER-TYPE	New, A8
	ELEMENT-VERSION	New, A24
	VOLSER	New, A6
	LIBRARY	New, A8
	SUB-LIBRARY	New, A8
SYSTEM-INFO	LOGON-ID	Now also valid for z/OS and z/VSE

Enhancements

The following Enhancement Proposals have been implemented:

EP 325	System command authorization checking in CONSOLE view (z/OS)
EP 1382	Handle out-of-space condition for command log data set (z/OS)
EP 1564	SEND-EMAIL with attachments
EP 1565	Provide Blind Carbon Copy functionality for SEND-EMAIL
EP 2189	Continuation of Parameters in NPR322.PARM
EP 2192	ERROR message if SPOOL is not active

Solved SAGSIS Problems

This section describes SAGSIS problems reported for Entire System Server that have been solved since Version 3.3.2.

The following topics are covered:

- [Solved SAGSIS Problems on z/OS](#)
- [Solved SAGSIS Problems on VSE/ESA and z/VSE](#)
- [Solved SAGSIS Problems on BS2000/OSD](#)

Solved SAGSIS Problems on z/OS

Problem	Short Description
284670	ABEND S201
285439	ESY5996 in NOP with archived Data
286061	Abend S0C4-11 in XCOMV003+X'133A'
286307	ADAM99 ADABAS Abend code 840C4
287296	0c7 in XCOMSSB after z/OS upgrade
289284	Support for z/OS 1.9 JES2 & JES3
289908	File Attribute wrong size value
290090	IEA705I ERR DURING GETMAIN 80A-10
290516	ABENDS0C4 in SVC when using Version 8
291102	lib-update open error
291271	abend 0C4 during init of ESY
291592	Process Node abended U0253
293090	Incorrect SYSOUT attribute field
293569	abend S0C4 in XCOMV044+184A
294750	ESY5777 after B37 messages

Solved SAGSIS Problems on VSE/ESA and z/VSE

Problem	Short Description
271672	submit without dsname and card
280639	S0c4 ESYNMAIN +6B16 ADA8
287658	copy-file returns wrong node
287728	submit from dataset
288701	Support z/VSE V4.1

Solved SAGSIS Problems on BS2000/OSD

Problem	Short Description
293103	Create Backupfiles abends
293751	ESYMAIN loop after WCP abend
295187	ESYMAIN does not respond

Migration Checklists

The following check lists are provided to assist you in migration from NPR33x:

z/OS

Startup Parameters:

- If you are using the SYSTEM-COMMAND view, you will need to specify three new startup parameters (APPC-TPNAME, APPC-LUNAME and APPC-MODENAME) to define the APPC/MVS transaction that will process the TSO/E commands. In addition, resources need to be defined for APPC/MVS, TSO/E and VTAM. For details, see the sections Startup Parameters and z/OS Considerations, APPC/MVS Definitions for the SYSTEM-COMMAND View in the *Administration Guide*.
- If you are going to use Adabas Review in Local Mode with Entire System Server, specify REVIEW=YES on your startup parameters. The parameter UEX4, which could be used in former releases of Entire System Server, is no longer supported.

JCL Procedure:

- If you are using command logging, you may want to define an alternate command log data set. To use dual data set recording for the command log, replace the CLOG DD statement with a CLOGR1 and a CLOGR2 DD statement in your JCL for Entire System Server.
- If you are going to use Adabas Review in Local Mode with Entire System Server, specify your Adabas Review load library in the STEPLIB concatenation for Entire System Server. Additional DD statements for data sets used by Adabas Review will be needed in your JCL. For details, see z/OS Considerations, Using Adabas Review with Entire System Server in the *Administration Guide* and the Adabas Review documentation.

BS2000/OSD

Startup Parameters:

- If you want to use the delivered SDF-P P.ESY procedure to run the Entire System Server, please customize the values within the parameter declaration section of P.ESY and use the procedures P.ESYMAIN, P.ESYSTOP, P.ESYTRACE to start, stop, or trace the Entire System Server. There is a set of new startup parameters to adjust the properties of the ESY tasks. For further information, refer to the startup parameters SDF-P, JOB-CLASS, JOB-ELEM, JOB-LIB, JOB-NAME-CONS, JOB-NAME-EMAIL, JOB-NAME-EVENT, JOB-NAME-SERVER, JOB-RUN-PRIORITY, JOB-START-OPTION, JOB-TIME.

The IPV6 enabled version of program ESYMAIL (formerly named ESYMAIL6) is now renamed to ESYMAIL and the /ENTER procedure E.ESYMAIL6 is renamed to E.ESYMAIL. If you want to

use the new startup procedure P.ESY and there is a need to run ESYMAIL4, please uncomment the following lines in P.ESY:

```
/&*IF (PGM = 'ESYMAIL')  
/&* PGM = 'ESYMAIL4'  
/&*END-IF
```

Changes with the Next Version

Based on customer feedback, we will not remove the support to run Entire System Server in single-user mode as stated in the Release Notes for Entire System Server Version 3.3.1.

We plan to remove the support to change the DBID for Entire System Server DDMs using the installation aid (SYSNPR) in a future version.

We plan to implement support for multi-level security in a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG Customer Support.

15

Entire System Server 3.3.2 Release Notes

▪ Support of Previous Versions	80
▪ Solved SAGSIS Problems	80
▪ Changes with the Next Version	82

For further information, you should also read the Entire System Server 3.3.1 Release Notes, which are delivered with Version 3.3.2 on the current Natural Documentation CD-ROM and in printed form. References contained in the Version 3.3.1 Release Notes generally refer to the corresponding Version 3.3.1 manuals, which are included in the Version 3.3.2 documentation.

These Release Notes provide an overview of solved problems provided for Entire System Server 3.3.2.

Support of Previous Versions

For information on how long a product is supported by Software AG, log in to [Empower](#) and select "Product Version Availability".

Solved SAGSIS Problems

This section describes solved SAGSIS problems for Entire System Server 3.2.2. SAGSIS is the internal Software AG Support Information System where we track problem issues.

The section covers the following topics:

- [Solved SAGSIS Problems on z/OS](#)
- [Solved SAGSIS Problems on VSE/ESA and z/VSE](#)
- [Solved SAGSIS Problems on BS2000/OSD](#)

Solved SAGSIS Problems on z/OS

Problem	Short Description
240446	Errors after JES hotstart
245831	abend D37 using IEBCOPY view
265803	BAD PARM CARD: X-COM stopped
266209	VTAM ACB open failed RC=090
266249	Abend S0C7 in XCOMV012+X'1196'
266256	file-attributes SYSRES extent 1
266309	file-attributes abend
266338	S80A-10 abends
266618	View FILE-ALLOCATE - SMS
266974	abend 913-38
267009	write-to-spool returns 5874

Problem	Short Description
267029	file-attributes dsname=dummy
267142	lib-dir scan with alias name
267218	nom/eor monitor and npr hang
267431	Abend S0C4-04 in IFG019RA+X'1E58'
267902	SYSNPR change default db-id
268263	ESY5731 Error .. during spool GET
268552	ADARSP254 subcode 6
268865	CLASSES and JES-INIT-ID incorrect
269198	file-attributes multi-volume
270055	PDSE load module displayed wrong
270196	file-attributes
270249	Abend S0C1 in XCOMV011 + X'458'
270299	ESY0579I SSI req 79 SSS2REAS 10
270553	ESY5722 Req. data set not found
270627	inact/act spoolacb during run
271639	Panvalet and wildcard
271672	submit without dsname and card
271791	spool-queue find submitter,JES3
272314	0C4 ESYTRACE rc=4 offset 38E
272728	Monitor subtask ended not success
272821	NAT5777 while browsing panvalet
273518	Support for z/OS 1.8 JES2 & JES3
273692	*USER for SUBMIT not correct
274263	abend 213-30
274960	Potential exposure for READ-SPOOL
276603	NAT5871 MEMBER/TYPE not specified
277675	error 5507 - read empty file
279197	ACTIVE-JOBS JES-INIT-ID bad data
280137	JES3 command prefix changed
280403	ACTIVE SUBT DETACH IN PROGRESS
280639	S0c4 ESYNMAIN +6B16 ADA8
280744	FILE-ATTRIBUTES GDG problem
280838	Support for mixed case password
280906	abend 0C4 xcomv204 offset 0B6
281658	Abend S0C4-04 in XCOMV032+X'AD6'
281776	Subtask error not reported via CC

Problem	Short Description
282460	Abend S0C4-04 in ESYNMAIN+X'453A'
282540	LOG-TIME field precision
282972	TIME-STAMP field precision

Solved SAGSIS Problems on VSE/ESA and z/VSE

Problem	Short Description
265530	ESY5631 running below
265530	ESY5631 running below
265667	shutdown npr with active nom mon
270030	ESY0084W ALL TASKS ACTIVE
270093	Inconclusive server display
270300	ILLEGAL SVC CODE HEX 18
271395	mynode returns node=000 in nat42
283106	LOG-TIME field precision

Solved SAGSIS Problems on BS2000/OSD

Problem	Short Description
272507	OSD: VTOC-UPDATE rename, NEWNAME

Changes with the Next Version

We plan to remove the support to run Entire System Server in single-user mode with the next version. If you still have any single-user environment that cannot be converted to a multi-user environment, please communicate your requirements to Software AG Customer Support.

We plan to remove the support to change the DBID for Entire System Server DDMs using the installation aid (SYSNPR) with the next version.

We plan to implement support for multi-level security in z/OS with a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG Customer Support.

16

Entire System Server 3.3.1 Release Notes

▪ Support of Previous Versions	84
▪ Prerequisites	84
▪ New Features	85
▪ Migration Checklists	87
▪ Changes with the Next Version	89

These Release Notes provide an overview about all changes for Entire System Server 3.3.1.

For background information, further Release Notes of earlier Entire System Server versions are available on the current Natural Documentation CD-ROM in the folder Archive.

Support of Previous Versions

Note that with the release of Entire System Server 3.3.1, versions of Entire System Server lower than 3.2.1 can no longer be supported. You are therefore strongly advised to migrate to the current version at your earliest convenience.

Prerequisites

Before you can install the Entire System Server, the following Software AG products must already be installed at your site:

- Natural Version 4.1.3 or above;
- Adabas Version 7.1.3 with zaps AI713016 and AD713023, or above;
- Entire System Server Interface (provided with Natural);
- Entire Net-Work Version 5.8.1 (optional, for multi-CPU Support);
- Natural ISPF Version 2.5.3 or above (optional)
- Predict Version 4.3.2 or above (optional).

The Entire System Server Services are available in any Natural environment that runs any or a combination of the following operating systems:

- z/OS Version 1.4 or above,
- VSE/ESA Version 2.6 or above; or z/VSE 3.1 or above,
- BS2000/OSD Version 4 or above.

For z/OS, the relevant PTFs for APARs OW56714, OW56783, OW56980, OW57015, OA03327, OA06209, OA07934, OA10472 and OA12853 must be applied.

(The PTFs related to APAR OA07934 are UA13071 for HDZ11H0 and UA13111 for HDZ11J0 and can be obtained from IBM.)

For z/OS JES2, the PTFs for APARs OW55671, OW55856, OW57577, OA01880, OA02753, OA03125, OA03546, OA05247, OA06230 and OA06694 must be applied.

For z/OS JES3, the PTFs for APARs OW56608, OA01553, OA01715, OA02735, OA03934, OA04380, OA04501, OA06480, OA06535, OA06622, OA07372 and OA13218 must be applied.

See also Information APAR II11784 for recommended JES3 SAPI maintenance.

Since Entire System Server on BS2000/OSD is using operating system interfaces introduced with BS2000/OSD Version 2, it cannot run on earlier operating system versions.

Software AG provides Entire System Server support for the operating system versions supported by their respective manufacturers. Generally, when an operating system provider stops supporting a version of an operating system, Software AG will stop supporting that operating system version.

Although it may be technically possible to run a new version of Entire System Server on an old operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider.

New Features

This section describes new Entire System Server Features. It covers the following topics:

- [Common New Features](#)
- [New Features for z/OS](#)
- [New Features for BS2000/OSD](#)
- [New, changed and deleted fields](#)

Common New Features

Enhancements to SEND-EMAIL

The SEND-EMAIL support provided with Entire System Server Version 3.2.1 supported the character set defined in ISO 646-US (ASCII). To enable the usage of international character sets with a broader scope of special characters, the new version allows you to specify a HOST-CODE-PAGE as a startup parameter and/or as a field on the SEND-EMAIL request. The EBCDIC characters of the e-mail text will be translated to the ISO 8859-15 character set.

If you want to specify a default reply e-mail address that is different from the sender address, you may now use the new REPLY-TO field of the SEND-EMAIL view.

For the details of these enhancements please see the section *Startup Parameters* in the *Administration Guide* and the section *SEND-EMAIL*, in the *User's Guide* (see *View Descriptions*>).

New Features for z/OS

New field in view CATALOG

A new field (FILE-SYSTEM) has been introduced to the CATALOG view to provide the capability to identify a zFS aggregate. Alternatively you may now check the DSORG field of the FILE-ATTRIBUTES view to determine the zFS attribute.

New fields in SPOOL-QUEUE

Three new fields (MAX-RETURN-CODE, SUBMITTER and WLM-QUEUE-POSITION) have been introduced to view SPOOL-FILES to provide more information about jobs in JES2 or JES3.

New Features for BS2000/OSD

Changed CONSOLE Task Setup

In order to control the CONSOLE Task, this task is no longer running as service for all Entire System Server nodes on one host. With version 3.3.1, it is an integrated component of Entire System Server. Therefore, it is not necessary anymore to stop the CONSOLE task with BCAM command BCLOSE.

This architectural change requires individual settings for every CONSOLE Task running on one host. Especially application name used in the SET-DCAM-APPL-LINK statement and user ID and password parameters provided via SYSDTA must be unique for every console task.

New Startup Parameter MONITOR-CANCEL

Startup parameter MONITOR-CANCEL provides additional control for Natural subtasks. If Entire System Server is shutting down, it will cancel active Natural subtasks after elapsed SHUTDOWN-MAX-DELAY if MONITOR-CANCEL=YES is supplied.

For details please see section Startup Parameters in the *Administration Guide*.

New Startup Parameter NUMCONSMMSG

Startup parameter NUMCONSMMSG defines the size of the table collecting console messages in number of messages. It was formerly provided as SYSDTA value in the CONSOLE task, but with version 3.3.1 of Entire System Server 3.3.1 it is a regular startup parameter.

For details please see section Startup Parameters in the *Administration Guide*.

New, changed and deleted fields

The following table summarizes the fields that have been added, changed or deleted. Please see the associated view descriptions in the "User's Guide" for details regarding the affected fields.

View	Field	Change
CATALOG	FILE-SYSTEM	New, A3
CONSOLE	TEXT	A180 --> A253
	NETTO-TEXT	A180 --> A253
CONSOLE-LOG	RECORD-NUMBER	N7 --> N9
FILE-ATTRIBUTES	EXTENTS-ARRAY	Now also valid for z/OS
	SERIES-ARRAY	Now also valid for z/OS
	VOLSER-ARRAY	Now also valid for z/OS
LOAD-MODULE	BLOCK-TTR	Deleted
SEND-EMAIL	HOST-CODE-PAGE	New, A8
	REPLY-TO	New, A128
SPOOL-QUEUE	MAX-RETURN-CODE	New, A10
	SUBMITTER	New, A8 (for z/OS JES3 only)
	WLM-QUEUE-POSITION	New, N7
	WLM-SERVICE-CLASS	New, A8
LIB-DIRECTORY	BLOCK-COUNT	N5 --> N7

Migration Checklists

- *z/OS*
- *VSE/ESA and z/VSE*
- *BS2000/OSD*

z/OS

Startup Parameters

- If you are using the SEND-EMAIL view and you want to use a specific host codepage, specify the HOST-CODE-PAGE parameter.

(See Run E-Mail Client for details.)

VSE/ESA

Startup Parameters

- If you are using the SEND-EMAIL view and you want to use a specific host code page, specify the HOST-CODE-PAGE parameter.

(See Run E-Mail Client for details.)

BS2000/OSD

Startup Parameters

- If you are using the SEND-EMAIL view and you want to use a specific host codepage, specify the HOST-CODE-PAGE parameter.

(See Run E-Mail Client for details.)

- If you are using CONSOLE, please adjust the job control of the CONSOLE Task.

The second SYSDTA entry defining the dimension of the console memory pool must be removed. Please define startup parameter NUMCONSMSG instead.

The application name used in SET-DCAM-APPL-LINK and user ID and password parameters provided via SYSDTA must be unique for every console task.

Please use the provided job control sample to avoid missing file assignments.

- If you are running EOM or EOR, you may specify startup parameter MONITOR-CANCEL=YES to make sure all Natural subtasks are stopped during shutdown of Entire System Server.

Changes with the Next Version

We plan to remove the support to run Entire System Server in single-user mode with the next version. If you still have any single-user environment that cannot be converted to a multi-user environment, please communicate your requirements to Software AG Customer Support.

We plan to remove the support to change the DBID for Entire System Server DDMs using the installation aid (SYSNPR) with the next version.

We plan to implement support for multi-level security in a future version of Entire System Server. This may require changes to customized versions of the current security exits. If you are using non-standard resource classes in your security exits, please communicate your requirements to Software AG Customer Support.

