Fujitsu Technology Solutions

SDF-A (BS2000/OSD)
Version 4.1G
November 2011

Release Notice

Contents

1   General

This Release Notice is a summary of the major extensions, dependencies and operating information with respect to SDF-A V4.1G under the BS2000/OSD[1] operating system.

This encompasses:

SDF-A   V4.1G
SDF-SIM   V4.6C

SDF-A (System Dialog Facility - Administrator) is a software product which can be used to define and update commands and statements of P1 programs.

SDF-SIM (System Dialog Facility - Simulator) is a software product which is used to simulate parts of the SDF functionality in a TU environment. It is used as an aid in the development and diagnosis of software products which use SDF.

The release level is that of: November 2011

The Release Notice is shipped on the product delivery medium.

This and other current Release Notices are shipped on the SoftBooks DVD and are available online at http://manuals.ts.fujitsu.com/.

If one or more previous versions are skipped when this product version is used, the information from the Release Notices (and README files) of the previous versions must also be noted.

1.1   Ordering

SDF-A V4.1G can be ordered from your local distributors.

The general conditions of the Contract for the Use and Maintenance of Software Products apply to SDF-A V4.1(A/B/C/D/E/F/G).

BS2000/OSD V1.0A or higher is required for SDF-A V4.1(A/B/C/D/E/F/G).

1.2   Delivery

The SDF-A V4.1G files are supplied via SOLIS.

The current file and volume characteristics are listed in the SOLIS2 delivery cover letter.

Following Release Units belong to the delivery of SDF-A V4.1

1.2.1   SDF-A V4.1G

Delivery components	Product description
SYSPRG.SDF-A.041	Program for executing /START-PROGRAM SDF-A (for reasons of compatibility)
SYSFGM.SDF-A.041.D	Release notice (German)
SYSFGM.SDF-A.041.E	Release notice (English)
SYSLNK.SDF-A.041	Library containing SDF-A. The SDF-A program must be installed using the DSSM command /START-SUBSYSTEM

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[1] BS2000/OSD is a trademark of Fujitsu Technology Solutions

Delivery components	Product description
SYSSSC.SDF-A.041.110	SSCM catalog for BS2000/OSD V1.0A
SYSSSC.SDF-A.041.112	SSCM catalog for BS2000/OSD V2.0A
SYSSSC.SDF-A.041.120	SSCM catalog (from BS2000/OSD V3.0A)
SYSSDF.SDF-A.041	Syntax file
SYSMES.SDF-A.041	Message file
SYSMSV.SDF-A.041	Message file for BS2000/OSD V1.0A
SYSRMS.SDF-A.041	RMS delivery set
SYSSII.SDF-A.041	IMON information file for delivery units and components
SYSLNK.SDF-A.041.V4	Library containing SDF-A V4.0A for the switching to SDF-A V4.0A
SYSRMS.SDF-A.041.V4	RMS delivery set for SDF-A V4.0A
SYSPRG.SDF-A.041.V1	SDF-A V1.0A Program file for the switching to SDF-A V1.0A
SYSPRG.SDF-A.041.V3	SDF-A V3.0A Program file for the switching to SDF-A V3.0A

1.2.2   SDF-SIM V4.6C

Delivery components	Product description
SYSLNK.SDF-SIM.046	Library containing SDF-SIM
SYSSDF.SDF-SIM.046	Syntax file
SYSMES.SDF-SIM.046	Message file
SYSSII.SDF-SIM.046	IMON information file for delivery units and components

1.3   Documentation

The BS2000/OSD documentation is available in German and English on DVD with the title BS2000/OSD SoftBooks.

The documentation is also available in the form of online manuals at http://manuals.ts.fujitsu.com or can be ordered at extra cost at http://manualshop.ts.fujitsu.com. In the manual shop only manuals are available for products which are still orderable.

The manuals may be supplemented with README files. These contain changes and extensions to the manual of the product concerned. The file names are made up as follows:

SYSRME.SDF-A.041.E (file with English text)

When printing the files, you should specify the CONTR-CHAR=EBCDIC operand in the PRINT-FILE command.

The manuals are shipped as PDF files on the product medium.

SDF-A V4.1

Title	Order no.
SDF V4.1 User Guide	U2284-J-Z125-9-76

Title	Order no.
SDF-A V4.1 Benutzerhandbuch	U2284-J-Z125-9
SDF-A V4.1 Ready Reference	U2285-J-Z125-10-76
SDF-A V4.1 Taschenbuch	U2285-J-Z125-9

2 Software expansions

Only the extensions and improvements distinguishing this version from the predecessor version are described.

2.1 SDF-A V4.1G

1. Open processing performance enhancement:
   Syntax file open processing more performant (gain +- 75%)

2. Version of statement:
   Operand STMT-VERSION defined in ADD/MODIFY-STMT

3. Adaptation globals V4 in globals V4.1:
   Adaptation of globals defined with SDF-A V4 in globals V4.1, the globals description is completed with the new parameters introduced in SDF-A V4.1.

4. New command interface description:
   CMD-INTERFACE operand and *TRANSFER-AREA value for IMPLEMENTOR definition in ADD/MODIFY-CMD

5. Hashing of value:
   HASH, OUTPUT-LENGTH operands in output description of ADD/MODIFY-VALUE

6. Renaming of full-filename by filename in all descriptions.

7. Version in syntax files created and updated by SDF-A V4.1

8. New attributes:
   - LOWER-CASE for type NAME
   - QUOTES for types POSIX-PATH/FILENAME
   - TEMPORARY-FILE for type FILENAME

9. Copy of common statements is no more possible

10. New value for type PRODUCT-VERSION:
    New value *ANY for USER-INTERFACE and CORRECTION-STATE

11. Updated scope in CORRECTION-STATUS:
    Extension of digits to digits and alphabetic char

12. Carriage return "\n" in help-texts:
    Accept carriage return and update of SHOW display

13. Dot character in keyword and keyword-number

14. Performance enhancement for object *ALL:
    For //REMOVE, COPY, SHOW OBJECT = *ALL

15. SHOW IMPLEMENTATION-INFO=YES output usable as input:
    new operand OUTPUT-FORM=*FOR-INPUT

16. Attributes modification for all commands/statements:
    New statements: MODIFY-CMD-ATTRIBUTES, MODIFY-STMT-ATTRIBUTES

17. Comparison of syntax files:
    New statement: COMPARE-SYNTAX-FILE

18. Support the Automatic Correction Information (ACO):
    Modified statement: ADD-CORRECTION-INFORMATIONS
    New statements : REMOVE/SHOW-CORRECTION-INFORMATIONS

19. structured-name with wildcards accepted as name for objects domain, command, program,
    statement in COPY,REMOVE, SHOW statements.

20. New common for task specific default values:
    SHOW-INPUT-DEFAULTS, RESET-INPUT-DEFAULTS

21. New attribute SCOPE for DEVICE(DISK) type:
    new attribute in ADD / MODIFY-VALUE

22. Show of commands not attached to a domain:
    //SHOW DOMAIN(*NONE)

23. Support IMPLEMENTOR=PROCEDURE(NAME=*BY-IMON)

24. Support of multiple user syntax files

25. Except for *ALL processing:
    *ALL(EXCEPT=....) for COPY, SHOW, REMOVE statements

26. Support CALL-TYPE=*ENTER-PROCEDURE

27. Multiple TPR commands in syntax file

28. Support of //ADD-CMD IMPLEMENTOR=*BY-TPR( )

29. Origin of commands / statements in output of SHOW statement

30. Support of //COPY FROM=*TASK-HIERARCHY

31. SHOW-INPUT-HISTORY
    number of entries depends on the mode (cmd/stmt)

32. Check of internal name in ADD / MOD-CMD (warning message)

33. SECRET-PROMPT accepted for command-rest value

34. New common statement : SHOW-STMT

35. Library name as procedure name returned by IMON:
    Support in ADD / MOD-CMD of IMPLEMENTOR = PROC (*BY-IMON (..., ELEMENT =))

36. New attribute for TIME value:
    Support in ADD / MOD-VALUE of TIME (OUT-FORM=*STD/*CHAR/*BINARY)

37. New operand UNLOAD-PROGRAM in ADD / MODIFY-CMD
    Support of IMPLEMENTATION=PROC (... UNLOAD-PROGRAM =*YES/*NO)

38. Support the switching to SDF-A V1.0/V3.0 or V4.0 without the installation of SDF-A V4.0

39. New attributes Digits and Special-characters for NAME value:
    Support of new attributes in ADD / MODIFY-VALUE for type NAME

40. Support of case sensitive values:
    - Extension of value LOWER-CASE=*YES into a structure with operand
      SCOPE=*STD / *ALL for ADD / MODIFY-VALUE with TYPE = *COMMAND-REST
    - Extension of value LOWER-CASE=*YES into a structure with operand SCOPE =
      INSIDE-QUOTES / *ALL for ADD / MODIFY-VALUE with TYPE = *TEXT
    - Extension of SET-GLOBAL with LANGUAGE-TEXT for CASE-SENSITIVE
      description.

2.2   SDF-SIM V4.6

1. See SDF

2. Support of LANGUAGE in SDF-SIM:
   New operand LANGUAGE in DEFINE-ENVIRONMENT statement

3   Technical information

3.1   Resource requirements

3.1.1   SDF-A V4.1

To run SDF-A, the following amount of memory is required in the system and user address spaces:

At least 1,5 Mbytes of dynamic memory in the user address space, depending on the complexity of the syntax files opened (single object may require up to 250 Kbytes!) and that of the objects read from these files.

Memory class : 6

3.1.2   SDF-SIM V4.6

To run SDF-SIM, the following amount of memory is required in the system and user address spaces :

At least 1 Mbyte dynamic memory depending on the number of commands or statements that are executed during simulation.

Memory class : 6

3.2   Software configuration

BS2000/OSD V1.0A or higher and SDF V4.0A or higher are required for running SDF-A V4.1.

SDF-A V4.1 requires SDF-I 4.1 for syntax file integration.

BS2000/OSD V3.0A or higher and SDF V4.0A or higher are required for running SDF-SIM V4.6.

3.3   Product installation

Installation of the product <product> with the IMON installation monitor is mandatory. You must follow the information concerning installation in the delivery cover letter and in the product documentation as well as the information in this Release Notice.

Before calling IMON, you must carry out the actions listed in the delivery cover letter as installation requirements.

After these actions have been executed you have to install the product with IMON.
The necessary inputs and the sequence of the installation are described in the IMON documentation.

After successful installation of the product with IMON you have to carry out the actions listed in the delivery cover letter.

After successful installation of the product with IMON you have to carry out the following actions:

For reason of compatibility, the pre-phase product SDF-A must be copied to its original name

```
/COPY-FILE SYSPRG.SDF-A.041, SDF-A
/MODIFY-FILE-ATTRIBUTE SDF-A, USER-ACCESS=*ALL-USERS
/SET-INST-PATH INST-UNIT= SDF-A (VERS=04.1G00), LOG-ID= SYSPRG, -
/               PATH= SYSPRG.SDF-A.041
```

With regard to SDF-A 3.0 and 4.0, adaptations were made to allow a safe use from SDF-A 4.1. The following configurations are thus requested:

	Version 3.0	Version 4.0
SDF-A	Loader B or later	Loader C or later

3.4   Product use

No special information is necessary for the operation of the product.

3.5   Discontinued functions (and functions to be discontinued)

None.

3.6   Incompatibilities

SDF-A V4.1 is fully compatible with SDF-A V4.0A and V3.0A except for the following restriction with regard to the file format and the work file:

Syntax files updated or created by SDF-A V4.1 cannot be updated by an earlier SDF-A version (V4.0A, V3.0A or V2.0A).
To this end, the REPs relating to PM A0227070 (for V3.0A and V2.0A) and the REPs relating to PM A0306571 (V4.0) must be applied.

The copy of common statements is no more possible with SDF-A V4.1. In fact, it is no more necessary for a user to copy he common statements in his syntax file. The SDF processing for common statements in V4.1 has been modified: at system level, the common statements are always taken from the basic system syntax file.

In SDF-A V4.1C, a new operand has been added in ADD/MODIFY-CMD to accept a library name as procedure name returned by IMON-GPN. To allow the update of such a command by SDF-A V04.1B the reps relating to PM A0415218 (V4.1B) must be applied.

3.7   Restrictions

Not applicable

3.8   Procedure in the event of errors

If an error occurs, the following error documents are needed for diagnostics:

-     A detailed description of the error condition, indicating whether and how the error can be reproduced.
-     Output of SHOW-SUBSYSTEM-STATUS
-     user dump
-     list of active syntax file(s) during the SDF-A processing
-     SYSOUT/SYSLST logs
-     Output of SHOW-SYNTAX-VERSIONS
-     A complete description of the input (procedure / enter file or dialog input trace) .

The error must be reported to the appropriate service provider. A PERLE error report will be opened for Second Level Support.

A Teleservice connection with callback option is essential for diagnostics.
An AIS Connect access is essential for diagnostics.

4   Hardware support

Not applicable.