

Fujitsu Technology Solutions

SDF-A (BS2000/OSD)
Version 4.1A
October 2004

Release Notice

All rights reserved, including intellectual property rights. Technical data subject to modifications and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

Copyright © Fujitsu Technology Solutions 2009

Release Notice SDF-A V4.1A

1 General	2
1.1 Ordering	2
1.2 Distribution	3
1.3 Documentation	4
2 Technical information	5
2.1 Resource requirements	5
2.2 Software configuration	6
2.2.1 Necessary environment	6
2.3 Product installation	6
2.4 Product use	6
2.5 Discontinued functions (and functions to be discontinued)	6
2.6 Incompatibilities	6
2.7 Restrictions	7
2.8 Error handling	7
3 Software expansions	7
3.1 SDF-A V4.1	7
3.2 SDF-SIM V4.6	10
4 Hardware support	10

1 General

This Release Notice contains outline descriptions of all major expansions, interdependencies and application notes pertaining to SDF-A V4.1. This encompasses :

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

The contents correspond to release status :
October 2004

The Release Notice is supplied as a text file. The typographical conventions for uppercase and lowercase are observed in the file. Updated versions of the file will be supplied as and when modifications to the product are registered. The command for printing this file (English version) is

```
/PRINT-FILE FILE-NAME=SYSFGM.SDF-A.041.E, -  
/ LAYOUT-CONTROL=*PARAMETERS(CONTROL-CHARACTERS=*EBCDIC)
```

If the use of this product version means that one or more predecessor versions are skipped, the notes in the Release Notices (or README files) of the predecessor version or versions must also be taken into account.

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

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.

1.1 Ordering

The SDF-A V4.1 package is available through your local sales organization.

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).

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

(*) BS2000/OSD (R) is a registered trademark of Fujitsu Technology Solutions

1.2 Distribution

The files for SDF-A V4.1 are distributed by means of the SOLIS system.

The valid file and volume attributes are listed in the SOLIS2 delivery statement.

The scope of delivery of SDF-A V4.1 includes the following files:

Delivery components	Product description
SYSPRG.SDF-A.041	Program for executing /START-PROGRAM SDF-A (for reasons of compatibility) SDF-A V4.1 being a subsystem that contains the command /START-SDF-A.
SYSFGM.SDF-A.041.D	Release notice (German)
SYSFGM.SDF-A.041.E	Release notice (English)
SYSLNK.SDF-A.041	Contains the independent part of SDF-A V4.1 which must be explicitly installed using the DSSM command /START-SUBSYSTEM.
SYSSSC.SDF-A.041.110	SSCM catalog statements which define the SDF-A subsystem for BS2000/OSD V1.0A
SYSSSC.SDF-A.041.112	SSCM catalog statements which define the SDF-A subsystem from BS2000/OSD V2.0A
SYSSSC.SDF-A.041.120	SSCM catalog statements which define the SDF-A subsystem from BS2000/OSD V3.0A
SYSSDF.SDF-A.041	Syntax files which contain the SDF-A statements and the command START-SDF-A
SYSMES.SDF-A.041	Message file with the SDF-A V4.1 messages from BS2000/OSD V2.0A
SYSMSV.SDF-A.041	Message file with the SDF-A V4.1 messages for BS2000/OSD V1.0A

SYSRMS.SDF-A.041	RMS delivery set for SDF-A V4.1
SYSSII.SDF-A.041	File containing IMON installation information for SDF-A V4.1
SYSLNK.SDF-A.041.V4	Contains the independent part of SDF-A V4.0A to allow 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	Contains the independent part of SDF-A V1.0A to allow the switching to SDF-A V1.0A
SYSPRG.SDF-A.041.V3	Contains the independent part of SDF-A V3.0A to allow the switching to SDF-A V3.0A

The scope of delivery of SDF-SIM V4.6 includes the following files:

Delivery components	Product description
-----	-----
SYSLNK.SDF-SIM.046	Link library for SDF-SIM V4.6
SYSSDF.SDF-SIM.046	Syntax file which contain the SDF-SIM statements and the command START-SDF-SIM
SYSMES.SDF-SIM.046	Message file with the SDF-SIM V4.6 messages from BS2000/OSD V2.0A
SYSSII.SDF-SIM.046	File containing IMON installation information for SDF-SIM V4.6

1.3 Documentation

The documentation of the BS2000/OSD standard configuration is also required for the use of SDF-A V4.1.

The scope of delivery of SDF-A V4.1 includes the following manuals:

title	order number	
SDF-A V4.1 Reference Manual	U2284-J-Z125-8-7600	(english)
SDF-A V4.1 Benutzerhandbuch	U2284-J-Z125-8	(german)
SDF-A V4.1 Ready Reference	U2285-J-Z125-9-7600	(english)
SDF-A V4.1 Tabellenheft	U2285-J-Z125-8	(german)

2 Technical information

2.1 Resource requirements

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 can be up to 250 Kbytes!) and that of the objects read from these files.

Memory class : 6

SDF-SIM V4.6

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

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

Memory class : 6

2.2 Software configuration

2.2.1 Necessary environment

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.

2.3 Product installation

SOLIS/IMON is the standard installation procedure. 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=04.1F00),
              LOG-ID= SYSPRG,
              PATH= SYSPRG.SDF-A.041
```

As regard to SDF-A 3.0 and 4.0, adaptations were brought 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 1 or later| loader C or later|
|=====|
```

2.4 Product use

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

2.5 Discontinued functions (and functions to be discontinued)

None.

2.6 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 an user to copy the common statements in its syntax file. The SDF processing for common statements in V4.1 has been modified : at system level, the common are always taken from the basic system syntax file.

In SDF-A V04.1C, 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.

2.7 Restrictions

2.8 Error handling

If an error occurs, the following error information is required for diagnosis :

- SHOW-SUBSYSTEM-STATUS
- user dump
- active syntax file(s) during the SDF-A processing
- SYSOUT/SYSLST logs
- SHOW-SYNTAX-VERSIONS
- A complete description of the input (procedure/enter file or dialog input trace) .
- If the error reproducible (yes/no)? If yes, how ?

3 Software expansions

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

3.1 SDF-A V4.1

1. Open processing performance enhancement

Open processing more performant (gain +- 75%)

2. Version for 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, in ADD/MODIFY-VALUE
6. Renaming of full-filename by filename
In all descriptions.
7. Version in syntax files
Version in syntax files created, 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
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. Update 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 or cmd/stmt
=*all
15. SHOW IMPLEMENTATION=YES for input use
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
Support of //ADD-CMD IMPLEMENTOR=*BY-TPR()
28. Origin of commands/statements

in output of SHOW statement

support //COPY FROM=*TASK-HIERARCHY

29. SHIH number of entries depends on the mode (cmd/stmt)

30. Check of internal name in KPSD

In ADD/MOD-CMD check of internal name (warning message)

31. SECRET-PROMPT accepted for command-rest value

32. New common statement : SHOW-STMT

33. Library name as procedure name returned by IMON

Support in ADD/MOD-CMD of
IMPLEMENTOR=PROC(*BY-IMON(...,ELEMENT=))

34. New attribute for TIME value

Support in ADD/MOD-VALUE of
TIME(OUT-FORM=*STD/*CHAR/*BINARY)

35. New operand unload-program in ADD/MODIFY-CMD

Support of IMPLEMENTATION=PROC(...UNLOAD-PROGRAM
=*YES/*NO)

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

37. New attributes Digits and Special-characters for NAME
value

Support of new attributes in add/modify-value for
type Name

3.2 SDF-SIM V4.6

1. See SDF

2. Support of language in SDF-SIM

New operand language in Define-environment statement

4 Hardware support

Not applicable.