



Fujitsu Siemens Computers GmbH

SDF (BS2000/OSD)  
Version 4.6  
November 2005

Release Notice

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## Release Notice SDF V4.6

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# 1 General

This Release Notice is a supplement to:

- BS2000/OSD-BC V4.0 and V5.0
- OSD-SVP V4.0, V4.1 and V4.2
- OSD-XC V1.0 and V1.1

and contains an overview of the main extensions, dependencies and operating information for SDF V4.6A and the associated software products included in the technical delivery units:  
BS2GA.SDF (for BS2000/OSD) \*  
BSVP.SDF (for OSD-SVP)  
BXC.SDF (for OSD/XC).

Depending on the operating system variant involved (/390, RISC or SPARC), these represent a component of the BS2000 basic configuration.

For the sake of simplicity, 'BS2GA.SDF' is used below to refer implicitly to 'BSVP.SDF' and 'BXC.SDF' as well, unless explicitly stated otherwise.

BS2GA.SDF comprises:

SDF	V4.6A
SDF-U	V4.1F
SDF-I	V4.1A
SDF-PAR	V1.1A
SDF-CONV	V3.0B
FHS-TPR	V8.2D
SDF-P-BASYS	V2.3A
VAS	V2.3B
SDF-SRV	V3.0C
SDF-SFC	V3.1A

The contents correspond to release status :  
November 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

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version) is

```
/PRINT-DOCUMENT FROM-FILE=SYSFGM.SDF.046.E,-  
/ DOC-FORM=*TEXT(LINE-SPACING=BY-EBCDIC-CONTROL)
```

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 must also be taken into account

SDF is a syntax processor that supports input of commands and program statements (optionally with interactive prompting). SDF operates with syntax files in which the command and statement definitions are stored.

SDF-U is an utility tool to perform some operations on syntax files.

SDF-I is a utility program to merge system or group syntax files. It is dedicated to developers and system integrators.

Originally designed for running on installations without SDF environment, SDF-I does not offer all convenient SDF capabilities and user comfort. It does not rely on any syntax file for the definition of its user interface. The statements are read by RDATA and analyzed by ISP.

SDF-PAR is a parameter-file editor for the product SDF. The SDF parameter-files can then be easily prepared/customized, off-line, through an sdf interface.

The SDF-P-BASYS software product is the non-chargeable part of SDF-P and incorporates only a small part of the functionality of SDF-P.

The SDF-P software product is a procedure language that extends the BS2000 command language to a programming language in which structured programming can be performed just as it can using high-level programming languages. With SDF-P, even beginners can generate short procedures quickly and easily. At the same time, SDF-P greatly simplifies the generation and maintenance of larger, more complex procedures.

VAS (Variable Access Services) gives several services to put, get, copy, delete structured data into a memory area (known as SSTA, Standard Structured Transfer Area). This product is dedicated to privileged callers.

SDF-SRV (SDF Server) is a decoupled BS2000 subsystem which enables the interface between SDF and the SDF-D00RS editor on the front-end. SDF-SRV is also the BS2000 Service Manager of

the DESK2000 product.

SDF-SFC (Syntax File Converter) is an utility to convert the SDF syntax files which will be used by SDF-DOORS as OFF-LINE syntax files.

## 1.1 Ordering

The supply-unit BS2GA.SDF is available through your local sales organization.

The general conditions of the Contract for the Use and Maintenance of Software Products apply for BS2GA.SDF.

## 1.2 Distribution

The files for BS2GA.SDF are distributed through the SOLIS system.

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

Delivery of SDF V4.6 includes the following files:

Delivery components	Product description
SYSGM.SDF.046.D	Release notice (German)
SYSGM.SDF.046.E	Release notice (English)
SYSLNK.SDF.046	Contains the independent part of SDF V4.6 which is automatically loaded at startup time, only necessary on the /390-hardware
SRMLNK.SDF.046	Contains the independent part of SDF V4.6 which is automatically loaded at startup time, only necessary on SR2000
SPMLNK.SDF.046	Contains the independent part of SDF V4.6 which is automatically loaded at startup time, only necessary on SPARC
SYSRMS.SDF.046	RMS delivery set

SYSSSC.SDF.046	SSCM catalog defining the SDF subsystem for BS2000/OSD V4.0 , V5.0 and V6.0.
SYSSDF.SDF.046	Syntax file containing only the commands processed by SDF itself
SIPLIB.SDF.046	Type R GC library
SYSLIB.SDF.046	Contains the SDF assembler macros, the definition of the SDF interface functions related to the languages COBOL, FORTRAN and C, the CMDSTM module and the high level language interface modules
SYSMES.SDF.046	Complete message file
SYSSII.SDF.046	IMON Installation information file
SYSPRG.SDF-U.041	Utility to update syntax files (SDF - Update)
SYSLNK.SDF-U.041	Link library
SYSRMS.SDF-U.041	RMS delivery set
SYSMES.SDF-U.041	Message file
SYSSDF.SDF-U.041	Syntax file with all SDF-U statements.

The scope of delivery of SDF-P-BASYS V2.3 includes the following files:

Delivery components	Product description
-----	
SYSLNK.SDF-P-BASYS.023	Contains the independent part of SDF-P-BASYS V2.3 which is automatically loaded at startup time.
SYSSSC.SDF-P-BASYS.023	SSCM catalog defining the SDF-P-BASYS subsystem
SYSSDF.SDF-P-BASYS.023	Syntax files containing only the commands processed by SDF-P-BASYS itself.

SIPLIB.SDF-P-BASYS.023	Type R GC library
SYSLIB.SDF-P-BASYS.023	Contains the SDF-P-BASYS assembler macros.
SYSMES.SDF-P-BASYS.023	Complete message file.
SYSRMS.SDF-P-BASYS.023	RMS delivery set.
SYSPRC.SDF-P-BASYS.023	Command procedures for SDF-P-BASYS V2.3 (E.G.: FHDR)
SYSSII.SDF-P-BASYS.023	IMON Installation information file.

Delivery of SDF-I V4.1 includes the following files:

Delivery components	Product description
-----	
SYSPRG.SDF-I.041	Program from BS2000 V10.0
SYSMES.SDF-I.041	Message file for BS2000/OSD V2.0 or higher
SYSMSV.SDF-I.041	Message file for BS2000/OSD V1.0
SYSSDF.SDF-I.041	Syntax file containing the declaration of the command /[START-]SDF-I
SYSSII.SDF-I.041	IMON Installation information file

Delivery of SDF-PAR V1.1 includes the following files:

Delivery components	Product description
-----	
SYSPRG.SDF-PAR.011	Program-running from BS2000 V9.5- that allows to create/modify parameter files of the product SDF.
SYSMES.SDF-PAR.011	Message file from BS2000/OSD

V2.0

SYMSV.SDF-PAR.011	Message file up to BS2000/OSD V1.0
SYSPRC.SDF-PAR.011.100	Procedure that prepares the environment then runs the program from BS2000 V10.0.
SYSPRC.SDF-PAR.011.112	Procedure that prepares the environment then runs the program from BS2000 OSD-BC/V2.0.
SYSSDF.SDF-PAR.011.USER	Syntax file containing the statements from SDF-PAR.
SYSSII.SDF-PAR.011	IMON Installation information file

Delivery of SDF-SRV V3.0 includes the following files:

Delivery components	Product description
-----	
SYSLNK.SDF-SRV.030	Contains the independent part of SDF-SRV V3.0 which is loaded at request time.
SRMLNK.SDF-SRV.030	
SPMLNK.SDF-SRV.030	
SYSRMS.SDF-SRV.030	RMS delivery set
SYSSII.SDF-SRV.030	IMON Installation information file
SYSSSC.SDF-SRV.030.110	SSCM catalog defining the SDF-SRV subsystem for BS2000/OSD V1.0
SYSSSC.SDF-SRV.030.112	SSCM catalog defining the SDF-SRV subsystem for BS2000/OSD V2.0
SYSSSC.SDF-SRV.030.120	SSCM catalog defining the SDF-SRV subsystem for BS2000/OSD V3.0
SRMSSC.SDF-SRV.030.121	SSCM catalog defining the



SDF-SRV subsystem for  
BS2000/OSD V3.1

SYSSSC.SDF-SRV.030.130

SSCM catalog defining the  
SDF-SRV subsystem for  
BS2000/OSD V4.0

Delivery of SDF-SFC V3.1 includes the following files:

Delivery components

Product description

-----  
SYSPRG.SDF-SFC.031

Utility to convert the syntax  
files.

SYSSII.SDF-SFC.031

IMON Installation information  
file

The scope of delivery of VAS V2.3 includes the following  
files:

Delivery components

Product description

-----  
SYSLNK.VAS.023

Contains the independent part  
of VAS V2.3 which is  
automatically loaded at startup  
time.

SRMLNK.VAS.023

Contains the independent part  
of VAS V2.3 which is  
automatically loaded at startup  
time.

SIPLIB.VAS.023

Type R GC library

SYSLIB.VAS.023

Contains the VAS assembler and  
SPL macros and C includes.

SYSRMS.VAS.023

RMS delivery set

SYSSSC.VAS.023

SSCM catalog defining the VAS  
subsystem for BS2000/OSD V2.0  
or higher

SYSSII.VAS.023

IMON Installation information  
file

### 1.3 Documentation

The documentation of the BS2000/OSD standard configuration is also necessary for the use of BS2GA.SDF V6.0. 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 V4.6

Title	!	Order no.
BS2000 Einfuehrung Dialogschnittstelle (SDF), V4.5A, Benutzerhandbuch	!	U2339-J-Z125-8
BS2000 Introductory to SDF, V4.5A, User's Guide	!	U2339-J-Z125-8-7600
SDF V4.5A SDF-Verwaltung Benutzerhandbuch	!	U2622-J-Z125-10
SDF V4.5A SDF-Management Reference Manual User Guide	!	U2622-J-Z125-10-7600

SDF-P V2.3

Title	!	Order no.
SDF-P (BS2000/OSD) V2.2A Programmierung in der Kommandosprache	!	U6442-J-Z125-5
SDF-P (BS2000/OSD) V2.2A Programming in the Command Language	!	U6442-J-Z125-5-7600

BS2000/OSD V2.0

Title	!	Order no.
BS2000/OSD V2.0 Kommandos Band 4 Ausgabe in S-Variablen und SDF-P-BASYS	!	U23165-J-Z125-1
BS2000/OSD V2.0	!	U23165-J-Z125-1-7600

Commands Volume 4	!
Output in S-Variable and	!
SDF-P-BASYS	!
-----+-----	
Title	! Order no.
-----+-----	
SDF-CONV V3.0A	! U6540-J-Z125-3(-7600)

## 2 Technical information

### 2.1 Resource requirements

#### SDF V4.6

-----

At runtime, the following memory areas are required in the system and user address spaces :

ca. 0.5 Mbyte static

at least 5 Mbyte dynamic of system memory, depending on the complexity of the opened syntax files (single object size can be up to 250 Kbytes!) and of the objects read from these files.

Memory classes : 4 & 5

#### SDF-P-BASYS V2.3

-----

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

approx. 0.2 Mbyte of dynamic system memory. 0.2 Mbyte must be added for each nested procedure call. Additional memory is also required for variables and streams.

Memory class : 5

#### SDF-I V4.1

-----

At runtime, the following memory areas are required in the system and user address spaces :

ca. 2 Mbyte dynamic of user memory

Memory class : 6

SDF-PAR V1.1

-----

At runtime, the following memory areas are required in the system and user address spaces :

ca. 0,5 Mbyte dynamic of user memory

Memory class : 6

SDF-SRV V3.0

-----

At runtime, the following memory areas are required in the system and user address spaces :

ca. 0,5 Mbyte dynamic of system memory

Memory class : 5

SDF-SFC V3.1

-----

At runtime, the following memory areas are required in the system and user address spaces :

ca. 0,5 Mbyte dynamic of user memory

Memory class : 6

VAS V2.3

-----

At runtime, the following memory areas are required in the system and user address spaces :

ca. 0,1 Mbyte of system memory

Memory class : 5

## 2.2 Software configuration

### 2.2.1 Necessary environment

BS2000/OSD V4.0 or higher is required for SDF V4.6

FHS-TPR V8.2D requires BS2000/OSD V1.0 or higher, IFG V8.1A or higher, TIAM V10.0A or higher, VTSU-B V11.0A or higher and XHCS-SYS V1.0A or higher.

### 2.2.2 For special functions, necessary product(s)

SDF-P-BASYS V2.3 needs JV V11.0 or higher.

### 2.2.3 Necessary correction status

BS2000/OSD V3.0

SYSDATA V12.0 syntax file

## 2.3 Product installation

Standard installation takes place via IMON.

If installation is carried out by the user, note that the product files are to be installed under the user ID TSOS.

Installation of SDF V4.6 syntax files

To migrate from SDF 041 (or 042,043,044,045) to SDF 046, the parameter file SYSPAR.SDF.041 (or 042,043,044,045) must be copied on the SYSPAR.SDF.

The syntax file of SDF must be activated as the basic system syntax file in the parameter file.

The syntax file containing all basic BS2000/OSD must be activated as the first subsystem syntax file. The product SDF-PAR V1.1 must be used to modify the standard parameter file SYSPAR.SDF :

```
//OPEN-PARAMETER-FILE SYSPAR.SDF,MODE=*UPDATE
//MODIFY-SYNTAX-FILE -
//      TYPE=*SYSTEM, -
//      NAME=$TSOS.SYSSDF.SDF.046
//MODIFY-SYNTAX-FILE -
//      TYPE=*SUBSYSTEM(SUBSYSTEM-NAME=BS2CP), -
//      NAME=$TSOS.SYSSDF.BS2CP.130
```

For compatibility, the program SDF-U must be copied to its original name

```
/COPY-FILE SYSPRG.SDF-U.041,SDF-U
/MODIFY-FILE-ATTRIBUTE SDF-U,-
/      USER-ACCESS=*ALL-USERS
```

For compatibility, the SDF-I program must be copied to its original name.

```
/COPY-FILE SYSPRG.SDF-I.041,SDF-I
/MODIFY-FILE-ATTRIBUTE SDF-I,-
/                                USER-ACCESS=*ALL-USERS
```

The starting procedure from SDF-PAR must be renamed.

```
/MOD-FILE-ATTR SYSPRC.SDF-PAR.011.112,
                NEW-NAME=SYSPRC.SDF-PAR.011,
                USER-ACCESS=*ALL-USERS
```

## 2.4 Product use

## 2.5 Discontinued functions (and functions to be discontinued)

## 2.6 Incompatibilities

SDF V4.6 is fully compatible with SDF V4.1 .

SDF-P-BASYS V2.3 is fully compatible with the previous versions except for the following restrictions:

1. a print control character (a space) is added in front of each record output by the SHOW-VARIABLE command on

SYSLST. The incompatibility concerns only the SHOW-VARIABLE command when OUTPUT=\*SYSLST; it allows a correct printing of the SYSLST file by means of the command /PRINT-FILE \*SYSLST.

## 2.7 Restrictions

SDF

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SDF-I

-----

XS-ability : XS31 only

SDF-PAR

-----

Special restriction :

.One and only one parameter-file can be opened at a time.

This feature is common to both user- and program-interface.

VAS

-----

Generation of the parameter list for the macros SSTAGET,  
SSTADEL and SSTAMOV is completed with MF=E

## 2.8 Error handling

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

- BS2000/OSD version
- CONSLOG
- output of /SHOW-SDF-PARAMETERS and /SHOW-SYNTAX-VERSIONS
- SLED, system dump or user dump of the affected task.
- SERSLOG
- Active syntax file (system/group/user) in error condition
- SYSOUT/SYSLST protocols
- A complete description of the input (procedure/enter file or  
dialog input trace).

It is also important to say if the problem can be reproduced  
and, if yes, how to reproduce it.

## 3 Software expansions

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

### 3.1 SDF V4.6A

1. Support of new attributes Digits and Special-char for type name

2. Improvement in Modify-sdf-parameters

In case of remove of subsystem syntax file permanently, suppression in memory independently of the suppression in the parameter file and reciprocally.

3. Improvement of SHOW-SDF-OPTIONSs

A new criteria of selection is possible : \*Group

4. Improvement of SHOW-SDF-PARAMETERS

Possibility to use wildcards for subsystem-names

5. Extension of SHOW-CMD

New operand Check-input-mode to determinate the check of allowness which is performed

### 3.2 SDF-U V4.1

1. Adaptations to SDF V4.1
2. //SET-GLOBALS FUNCTION-KEY=
3. //SHOW-STATUS support
4. Open processing performance enhancement

### 3.3 SDF-P-BASYS V2.3

- Extension of the FREE-VARIABLE command by supporting wildcards and by adding list facilities.
- Extensions of the IMPORT-VARIABLE command by supporting wildcards and list of value for the VARIABLE-NAME operand.
- Extension of the SHOW-VARIABLE command by replacing or extending library element with the OUTPUT operand.



### **3.4 SDF-I V4.1**

1. Allow the generation of syntax files as PAMKEY or DATA4K.
2. Speed-up the merge processing by overwriting an already catalogued output file and using its catalog attributes.
3. Generate the work files to the same catid and userid than the output file.
4. A default value \*STD is provided for the operand FORMAT.
5. Support the Automatic Correction Informations.
6. Display the customer remove ids
7. The SHOW can now be interrupted so as to allow the user to enter a next SDF-I instruction: use the sequence <K2-key> - </INTR-command>.
8. Suppress the messages of weight WARNING while merging LESDs.

### **3.5 SDF-PAR V1.1**

1. New statement : MODIFY-SYSTEM-LOGON-INCLUDE. The SDF parameter file can contain the specification of an automatic system logon include; this specification is not mandatory.

### **3.6 SDF-SRV V3.0**

1. Encryption function improvements

### **3.7 SDF-SFC V3.1**

1. Adaptation to SDF V4.1.

### **3.8 VAS V2.3**

1. Minor improvements.

## **4 Hardware support**

The product SDF-I V4.1 supports all XS31 hardware.

The product of BS2GA.SDF can be used on all mainframes supported by BS2000/OSD as of V4.0 or higher.



## Information on this document

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