FUJITSU Software BS2000 SDF-P

*05         Version 2.5G
*05         July 2017

Release Notice

# 1   General

*05    This Release Notice is a summary of the major extensions, dependencies and operating information
with respect to SDF-P (SDF-P-BASYS) V2.5G under the BS2000 operating system.

The software product SDF-P is a procedure language that extends the BS2000/OSD 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 maintenance of large and complex
procedures.

The SDF-P-BIF software product is an extension of SDF-P which allows the creation and definition of
new built-in functions by the system administrators.
When created, these built-in functions can be used by all the users of the system as usual SDF-P built-
in functions.

*05    The release level is that of July 2017.

*02    Changes to version 1 have been marked at the left margin with *02.
*03    Changes to version 2 have been marked at the left margin with *03.
*04    Changes to version 3 have been marked at the left margin with *04.
*05    Changes to version 4 have been marked at the left margin with *05.

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

*05    SDF-P V2.5G can be ordered from your local distributors.

The general conditions of the Contract for the Use and Maintenance of Software Products apply for
*05    SDF-P V2.5G.

*05    BS2000/OSD V8.0 or higher is required for SDF-P V2.5G.

## 1.2   Delivery

*05    The SDF-P V2.5G files are supplied via SOLIS.

*05    The following delivery groups are part of the SDF-P V2.5G delivery scope:

*05    **1.2.1    SDF-P V2.5G**

*05    The delivery of SDF-P V2.5G does not include any message file. SDF-P messages are delivered with
SDF-P-BASYS (basic part of SDF-P).

Files independent from the HSI:

| Delivery components | Product description |
| --- | --- |
| SYSFGM.SDF-P.025.D | Release notice (German) |
| SYSFGM.SDF-P.025.E | Release notice (English) |
| SYSREP.SDF-P.025 | REP corrections (if any) |

| Delivery components | Product description |
| --- | --- |
| SYSRME.SDF-P.025.D | Readme file (German) |
| SYSRME.SDF-P.025.E | Readme file (English) |
| SYSSDF.SDF-P.025 | Syntax file |
| SYSRMS.SDF-P.025 | RMS delivery set |
| SYSPRC.SDF-P.025 | Command procedures |
| SYSSSC.SDF-P.025 | SSCM catalog |
| SYSSII.SDF-P.025 | IMON information file for delivery units and components |

Files only necessary on /390-Servers (S- and SE-Servers):

| Delivery components | Product description |
| --- | --- |
| SYSLNK.SDF-P.025 | Library containing SDF-P. |

Files only necessary on x86-Servers (SE300-Servers):

| Delivery components | Product description |
| --- | --- |
| SKMLNK.SDF-P.025 | Library containing SDF-P. |

*05 **1.2.2   SDF-P-BASYS V2.5G**

Files independent from the HSI:

| Delivery components | Product description |
| --- | --- |
| SYSSSC.SDF-P-BASYS.025 | SSCM catalog |
| SIPLIB.SDF-P-BASYS.025 | Macro and include library restricted to BS2000/OSD development |
| SYSLIB.SDF-P-BASYS.025 | Library containing the user assembler macros and the header files for the C includes. |
| SYSMES.SDF-P-BASYS.025 | Message file |
| SYSRMS.SDF-P-BASYS.025 | RMS delivery set |
| SYSREP.SDF-P-BASYS.025 | REP corrections (if any) |
| SYSPRC.SDF-P-BASYS.025 | Command preocedures |
| SYSSII.SDF-P-BASYS.025 | IMON information file for delivery units and components |

Files only necessary on /390-Servers (S- and SE-Servers):

| Delivery components | Product description |
| --- | --- |
| SYSLNK.SDF-P-BASYS.025 | Library containing SDF-P-BASYS. |

Files only necessary on x86-Servers (SE300-Servers):

| Delivery components | Product description |
| --- | --- |
| SKMLNK.SDF-P-BASYS.025 | Library containing SDF-P-BASYS. |

### 1.3    Documentation

*05    There is no new manual for the release of SDF-P V2.5G

The manuals of SDF-P V2.4A are available:

| Title | Order no. |
|---|---|
| SDF-P V2.4A Programmieren in der Kommandosprache Benutzerhandbuch | U6442-J-Z125-6 |
| SDF-P V2.4A Programming in the Command Language User guide | U6442-J-Z125-6-76 |

*05    Changes and extensions from SDF-P V2.5G are contained in a README file.

The documentation of the BS2000/OSD standard configuration is also necessary for the use of SDF-P. In particular, documentation related to SDF, VAS and JV products may be very useful.

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-P.025.D (file with German text)
SYSRME.SDF-P.025.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.

# 2    Software extensions

New and extended functions of SDF-P V2.5 are described in details in the README file. Nevertheless, here is a summary of the new functionalities.

## 2.1    SDF-P V2.5A

1) Adding constraints to ASSIGN-STREAM command:
The standard stream (SYSVAR, SYSMSG, SYSINF) could no more be assigned to the FHS server. This avoids cyclic assignation.

2) Extension of READ-VARIABLE command:
The operand VERSION of *LIBRARY-ELEMENT can now have a value of type <composed-
*03    name_1..24_with-underscore>.

*03    3) Extension of SHOW-VARIABLE:
The operand VERSION of *LIBRARY-ELEMENT can now have a value of type <composed-
*03    name_1..24_with-underscore>.

## 2.2    SDF-P V2.5B

1)  New procedure option TRANSLATION-CCS for /SET-PROCEDURE-OPTIONS command:
    This specifies whether the current coded character set of the task is to be used by UPPER-CASE() and LOWER-CASE() built-in functions.

2)  New parameter CODED-CHARACTER-SET for the built-in functions UPPER-CASE() and LOWER-CASE():
    This specifies whether the current coded character set of the task or a specific one is to be used.

## 2.3    SDF-P V2.5C

The screen display of the command /SELECT-VARIABLE-ELEMENTS is extended with longer title and selection column of more than 1 character.

*02
## 2.4    SDF-P V2.5D

*02    The built-in function IS-EMPTY-FILE() detects empty ISAM files.

*03
## 2.5    SDF-P V2.5E

*03    The variables declared in a variable container are deleted at /CLOSE-VARIABLE-CONTAINER.

*04
## 2.6    SDF-P V2.5F

*04    1)  New macro DELVAR to delete S-variables of scope task from programs in not-S-procedures.

*04    2)  Extension of messages SDP0201, SDP0203, SDP0204, SDP0207 and SDP0215 with the
*04        command line number of the structure start.

*05
## 2.7    SDF-P V2.5G

*05    1.  The new predefined function PROC-NAME() returns the actual procedure name.
*05

# 3    Technical information

## 3.1    Resource requirements

To run SDF-P, less than 0.5 Mbyte of memory is required in the system and user address spaces.

## 3.2    Software configuration

### 3.2.1    Necessary environment

*05    BS2000/OSD V8.0 or higher, SDF V4.7C or higher, VAS V2.3B or higher, SDF-P-BASYS V2.5G or
*05    higher are required for running SDF-P V2.5G.

### 3.2.2    Products required for special functions.

*05    JV V17.0 or higher is required for running special functions, e.g. the JV() predefined function, using a job variable as a container for an S-variable.
       However, all the predefined functions excepted PROG-MONJV(), have been modified to avoid dependency on $SYSJV.

XHCS-SYS is required to use LOWER-CASE() and UPPER-CASE() built-in functions with a CODED-CHARACTER-SET that is not the basic EDF03IRV. It is also required when /SET-PROCEDURE-OPTIONS operand TRANSLATION-CCS is not set to *EDF03IRV and the system settings use another CCS than the basic EDF03IRV.

XHCS-SYS >= V2.0 is recommended to use the LOWER-CASE() built-in function with a CODED-CHARACTER-SET that is not the basic EDF03IRV. With former XHCS-SYS versions, LOWER-CASE() uses the inverse of the upper-case translation table of the CCS. The result is then only valid for a CCS with mutually inverse lower-case and upper-case translation tables.

## 3.3    Product installation

*02    Installation of the product SDF-P with the IMON installation monitor is mandatory in all versions after BS2000/OSD V7.0. 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.

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.

If the product is being installed without IMON, note that the files must be installed under the user-id TSOS.

## 3.4    Product use

No special information is necessary for operation.

## 3.5    Obsolete functions (and those to be discontinued)

None.

## 3.6    Incompatibilities

SDF-P V2.5 is not compatible with SDF-P-BASYS V2.0B. To start SDF-P V2.5, SDF-P-BASYS V2.5 or higher must be present in the system.

## 3.7    Restrictions

SDF V4.7C or higher is required to be able to use the operands MESSAGE, HEADER-LINE and SELECTION-CODE = *YES (LENGTH) of the /SELECT-VARIABLE-ELEMENTS command. Otherwise a SDF-P warning message will be displayed and the MESSAGE operand will be ignored.

## 3.8    Procedure in the event of errors

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

- a detailed description of the error condition, indicating whether and how the error can be reproduced. For reproducible errors, an exact description of the error conditions (for example sequence of commands) is also requested.

- The BS2000/OSD, SDF, VAS, SDF-P-BASYS and SDF-P versions installed on your system.

- SLED or system dump of the affected task.

- Console log or CONSLOG file

- SERSLOG file

- SYSOUT or SYSLST when available

- The SYSLNK library of SDF-P-BIF (which contains the built-in functions developed by the administrators).

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

A Tele-service connection with call-back option is essential for diagnostics. [If this is not available, the service provider is entitled to invoice additional services rendered.]

An AIS Connect access is essential for diagnostics. [If this is not available, the service provider is entitled to invoice additional services rendered.]

# 4    Hardware support

*05    SDF-P V2.5G can be used on all mainframes supported by BS2000/OSD as of V8.0 or higher.