

SNI AG

SDF-CONV (BS2000)
Version 3.0A
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Freigabemitteilung

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1 General

SDF-CONV is a syntax convertor which allows to convert any existing well-running NOT-S/S-PROC procedure with ISP/SDF commands, to an S-PROC with SDF commands.

SDF-CONV operates with syntax files in which the commands and statements definitions are stored.

1.1 Ordering

SDF-CONV V3.0A can be ordered from your local distributors.

1.2 Delivery

```
*      TU PROGRAM      : SDF-CONV
*      TU SUBSYSTEM    : SDF-CONV
*      TPR SUBSYSTEM   : NONE
*      SELECT UNIT     : NONE
*      PRG INTERFACE   : NONE
```

Delivery includes the following files :

Delivery components	Product description

SDF-CONV.030	Program -without functionality- that allows to start SDF-CONV the same way (/START-PROGRAM) the first version did (COMPATIBILITY). From V2.0A, SDF-CONV is a subsystem and /[START-]SDF-CONV is offered.
SYSFGM.SDF-CONV.030.D	Release notice (German)
SYSFGM.SDF-CONV.030.E	Release notice (English)
SYSLNK.SDF-CONV.030	Contains the independent part of SDF-CONV V3.0A which must be explicitly installed with the DSSM command /START-SUBSYSTEM .
SYSTEMS.SDF-CONV.030	Message file with the SDF-CONV V3.0 messages from BS2000 V11.2
SYSMSA.SDF-CONV.030	Message file with the SDF-CONV V3.0A messages up to BS2000 V11.0
SYSMSR.SDF-CONV.030	Message file with the SDF-CONV V3.0A messages up to BS2000 V11.0
SYSMSV.SDF-CONV.030	Message file with the SDF-CONV V3.0A messages up to BS2000 V11.0
SYSREP.SDF-CONV.030	Contains the REP corrections (if any) for SDF-CONV V3.0A

SYSSDF.SDF-CONV.030 Syntax file containing the statements from SDF-CONV, as well as the command /[START-]SDF-CONV .

SYSSDF.SDF-CONV.030.USER.U-CMDsyntax file containing the description of the User (unprivileged) ISP commands to convert.

SYSSDF.SDF-CONV.030.USER.S-CMDsyntax file containing the description of the System (privileged) ISP commands to convert.

SYSSSC.SDF-CONV.030 SSCM catalog statements defining the SDF-CONV subsystem from BS2000 V11.0

SYSSSD.SDF-CONV.030 DSSM catalog statements defining the SDF-CONV subsystem for BS2000 V10.0

1.3 Documentation

Delivery of SDF-CONV V3.0A includes the following manuals:

Title	Order no.
'BS2000/OSD'	'U6540-J-Z125-3'
'SDF-CONV V3.0A'	
'Benutzerhandbuch'	
'BS2000/OSD'	'U6540-J-Z125-3-7600'
'SDF-CONV V3.0A'	
'User Guide'	

2 Technical information

2.1 Resource requirements

1. Virtual memory

ca 0.5 MBytes dynamic

2. Static disc space

ca 3.8 MBytes

3. Dynamic disc space

None

4. Special hardware

XS31 machine

2.2 Software configuration

The basis requirements are: BS2000 V10
 SDF V2.
drawbacks: -wildcard patterns not allowed in FROM-FILE.
 -no INVARIANT form can be generated.
 -no ACCEPTED form can be generated.

An intermediate configuration can be: SDF V3.
drawback : no ACCEPTED form can be generated.

The full functionality requires: SDF V4
 and the JV software product

2.3 Product installation

1. Installation userid

The installation userid is the default userid (normally TSOS).

2. BS2000 V10.0

The following files are necessary to install SDF-CONV 3.0A

SYSSSD.SDF-CONV.030

SYSLNK.SDF-CONV.030

SYSREP.SDF-CONV.030

SYSSDF.SDF-CONV.030

SYSSDF.SDF-CONV.030.USER.U-CMD

SYSSDF.SDF-CONV.030.USER.S-CMD

SYSMSA.SDF-CONV.030

SYSMSR.SDF-CONV.030

The following actions must be executed to install SDF-CONV 3.0A .

(1) DSSM catalogue

A new BS2000 DSSM catalogue must be generated with the following file:

SYSSSD.SDF-CONV.030

Use it as input for UGEN,
then
add and start the subsystem explicitly.

(2) Messages file

The messages files must be shareable and activated.

```
/MOD-FILE-ATTR SYSMSA.SDF-CONV.030,USER-ACCESS=ALL
```

```
/MOD-FILE-ATTR SYSMSR.SDF-CONV.030,USER-ACCESS=ALL
```

```
/MOD-MSG-FILE-ASSIGN ADD=SYSMSA.SDF-CONV.030
```

(3) OML and repfile

The repfiles and OML's must be installed with the names:

```
SYSREP.SDF-CONV.030
```

```
SYSLNK.SDF-CONV.030
```

(4) Syntax files

The SDF-CONV syntax file must be merged into the BS2000 syntax file to allow the update of its statements. You can merged the syntax file using the SDF-I 3.0 product on the following way:

```
/START-PROGRAM SDF-I
OPEN <previous INSD>,<output INSD>,-
    FORMAT=NEW,VERSION='version'
MERGE SYSSDF.SDF-CONV.030 "SDF-CONV syntax file"
END
```

The particular SDF-CONV syntax files must be shareable.

```
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030.USER.U-CMD,
    USER-ACCESS=ALL
```

```
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030.USER.S-CMD,
    USER-ACCESS=ALL
```

3. BS2000 V11.0

The following files are necessary to install SDF-CONV 3.0A

```
SYSSSC.SDF-CONV.030
```

```
SYSLNK.SDF-CONV.030
```

```
SYSREP.SDF-CONV.030
```

```
SYSSDF.SDF-CONV.030
```

```
SYSSDF.SDF-CONV.030.USER.U-CMD
```

```
SYSSDF.SDF-CONV.030.USER.S-CMD
```

```
SYSMSA.SDF-CONV.030
```

SYSMSR.SDF-CONV.030

The following actions must be executed to install SDF-CONV 3.0A .

(1) DSSM catalogue

A new BS2000 SSCM catalogue must be generated with the following file:

SYSSSC.SDF-CONV.030

Use it as input for SSCM,
then
add and start the subsystem explicitly.

(2) Messages file

The messages files must be shareable

```
/MOD-FILE-ATTR SYSMSA.SDF-CONV.030,  
                USER-ACCESS=ALL  
/MOD-FILE-ATTR SYSMSR.SDF-CONV.030,  
                USER-ACCESS=ALL
```

(3) OML and repfile

The repfiles and OML's must be installed with the names:

SYSREP.SDF-CONV.030

SYSLNK.SDF-CONV.030

(4) Syntax files

The SDF-CONV syntax files must be shareable.

```
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030,  
                USER-ACCESS=ALL  
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030.USER.U-CMD,  
                USER-ACCESS=ALL  
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030.USER.S-CMD,  
                USER-ACCESS=ALL
```

4. BS2000 V11.2

The following files are necessary to install SDF-CONV 3.0A

SYSSSC.SDF-CONV.030

SYSLNK.SDF-CONV.030

SYSREP.SDF-CONV.030

SYSSDF.SDF-CONV.030

SYSSDF.SDF-CONV.030.USER.U-CMD

SYSSDF.SDF-CONV.030.USER.S-CMD

SYSMES.SDF-CONV.030

The following actions must be executed to install SDF-CONV 3.0A on a BS2000 V11.2:

(1) DSSM catalogue

A new BS2000 SSCM catalogue must be generated with the following file:

SYSSSC.SDF-CONV.030

Use it as input for SSCM,
then
add and start the subsystem explicitly.

(2) Messages file

The messages files must be shareable

```
;/MOD-FILE-ATTR SYSMES.SDF-CONV.030,  
                USER-ACCESS=ALL
```

(3) OML and repfile

The repfiles and OML's must be installed with the names:

SYSREP.SDF-CONV.030

SYSLNK.SDF-CONV.030

(4) Syntax files

The SDF-CONV syntax files must be shareable.

```
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030,  
                USER-ACCESS=ALL  
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030.USER.U-CMD,  
                USER-ACCESS=ALL  
/MOD-FILE-ATTR SYSSDF.SDF-CONV.030.USER.S-CMD,  
                USER-ACCESS=ALL
```

2.4 Product use

The convertor is started with the command `/[START-]SDF-CONV;` then, taking benefits from the SDF user interface, you receive the double slash (`//`) as prompt stream. Each time help is needed, use `'?'` to go on further.

For a standard conversion, the next statement is generally used:
`//CONVERT FROM-FILE=...,TO-FILE=...[,PROCEDURE-FORMAT=*S-PROC]`

2.5 Eliminated functions

No function has been eliminated

2.6 Incompatibilities

Hereafter is a list of incompatibilities introduced in SDF-CONV V3.0A.

- Input procedures must mandatorily start with a command. Up to SDF-CONV V2, the first procedure record had no matter. From SDF-CONV V3, input procedures must be identified as NOT-S or S-PROC; this is mandatory to direct the conversion. The procedure is NOT-S if the first line is a command named PROCEDURE or BEGIN-PROCEDURE or LOGON or SET-LOGON-PARAMETERS. The procedure is S-PROC if the first line is a command not pertaining to the upper list. The procedure conversion is aborted if the first line is not a command line.

2.7 Restrictions

- list of restrictions
 - .The input must be a well-running procedure.
 - .Even if REPLACE-OLD-FILE=YES, the output must differ from the input.
 - .NOT-S command lines are evaluated on their 72 first characters.
 - .Card reader commands are no more supported; they are thus not converted.
 - .Procedure parameters can bring limits to the conversion.
 - .Context dependant ISP commands are not converted.
 - .S-PROC parameters can't be as long as NOT-S ones.
 - .The logging conversion from NOT-S to S-PROC is performed, although it leads to a different procedure behaviour.
 - .Batch jobs cannot be converted to S-PROC forms.
 - .XS-able : yes, machines with 31bits addressing space.
 - .NK4-able : partially (all except the repfile)

An exhaustive description is available in the EIS (69.52.68 R16).

2.8 Procedure in error events

If SDF-CONV V3.0A internal error conditions occur, you should prepare the following documentation:

- BS2000 and SDF versions of the system you work on.
- input file
- options specified in the //CONVERT statement.
- *SYSLST and *SYSOUT protocol if any.

3 Software extensions

The following sections describe the extensions and enhancements to the previous version (SDF-CONV V2.0A):

1. support S-PROCedures
Input S-PROCedures are identified and allowed
and
input NOT-S procedures can be converted to S-PROC ones.
2. preserve ISP commands.
The conversion of the input commands to SDF ones can be disabled.
3. preserve procedure "look and feel"
Blanks, comments and labels that were inserted BEFORE the input COMMAND name are restored -unchanged- BEFORE the output COMMAND name: this way, the global procedure appearance is not changed.
4. messages
Some messages were add: CVRF063-064, 162, 217-21B,
CVRF262, 280-283.
Others were enhanced: CVRF042, 060, 260,
CVR1019, CVR1022.
5. support PLAMLIB types other than J.
Besides the SNI PLAMLIB types, customers can create their own types; SDF-CONV allows to read and to create elements of such types.
6. commands conversion
LOGON can now be converter to SET-LOGON-PARAMETERS from BS2000 V11.0 on.
7. generate commands in ACCEPTED form
This aim can only be satisfied with SDF V4.
8. prefix keyword values with '*' in INVARIANT/ACCEPTED form.
This aim can only be satisfied with SDF V4.
9. highlight procedure parameters during /BEGIN-PROCEDURE generation
Each procedure parameter appears line-leading; this enhance the readability. Too, it allows to raise a restriction from the previous version: the PROCEDURE-PARAMETERS operand value is limited to 1800 characters which was easily reached during a conversion. Now, as we spare all blank leading characters, this limit can never be exceeded.
10. Full logging of SDF error messages
The previous version did only logged the 256 first digits of the SDF error messages. Now, the full error message is logged.

11. No more empty output cataloged files/library elements
At times, the conversion can end before any record is written to the output file; that is to say, the output is empty.
Only files/library elements that are not empty are kept.
12. Differentiate statement and command continuation character
The SDF command MODIFY-SDF-OPTIONS CONTINUATION=OLD/NEW defines the allowed positions of the continuation character in NOT-S procedures for the commands but not for the statements.
To be "continued", statement lines only need to have a '-' trailing, without position constraints, like data.

4 Hardware support

XS31 machine



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