

Fujitsu Technology Solutions

TOM-DOC (BS2000/OSD)
Version V3.2A
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Release Notice

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1 General

This Release Notice is a summary of major extensions, dependencies and operating information with regard to TOM-DOC in BS2000 *).

TOM-DOC is a text editor for printer output. TOM-DOC takes texts marked with characters for controlling classifications, headings, margins etc., and generates a text with a uniform layout. TOM-DOC is also used as a text formatter in the TOM-TI program.

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To print this Release Notice, use the command

```
/PRINT SYSFGM.TOM-DOC.032.D,SPACE=E (deutsche Fassung)
/PRINT SYSFGM.TOM-DOC.032.E,SPACE=E (English edition)
```

1.1 Ordering

TOM-DOC V3.2A20 can be ordered from Fujitsu Technology Solutions.

Note however that the product TOM-TI is required in order to use TOM-DOC.

TOM-DOC V3.2A20 is subject to the general terms and conditions of the software product use and service agreement.

1.2 Delivery

The TOM-DOC V3.2A20 files are supplied via SOLIS.

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

A list of the shipped files and tables of contents of the libraries are provided in the section entitled "Files shipped".

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

1.3 Documentation

The following manuals are included in the TOM-DOC V3.2A20 package.

Article	Order number	Valid edition
TOM-DOC V3.2	U2407-J-Z125-5	April 1995

Textaufbereitung Benutzerhandbuch

The English manual is available on the CD BS2000/OSD V1.0
"Softbooks" U23158-J8-Z125-2-7400

2 Technical information

2.1 Resource requirements

TOM-DOC V3.2A20 can be used on systems with a main memory of at least 2 MB.

Space required on disk is approximately 1580 PAM pages.

2.2 Software configuration

TOM-DOC V3.2A20 supports the following configurations:

```
+-----+
I           Configurations supported by TOM-DOC V3.2A20           I
+-----+-----+-----+-----+-----+-----+
I BS2000      I V10.0   I OSD-V1   I OSD-V2   I OSD-V3   I OSD-V4   I
I              I         I         I         I         I         I
I Disk types  I NK2 key  I NK2/4 key I NK2/4 key I NK2/4 key I NK2/4 key I
I              I         I         I         I         I         I
I TOM-TI as of I 3.0C11  I 3.0C11  I 3.0C11  I 3.0C11  I 3.0C11  I
I              I         I         I         I         I         I
I EDT as of   I 16.5A   I 16.5A   I 16.5A   I 16.5A   I 16.5A   I
I              I         I         I         I         I         I
I FMS as of   I 2.4A0   I 2.4A0   I 2.4A0   I 2.4A0   I 2.4A0   I
I              I         I         I         I         I         I
I LMS as of *) I 3.0A    I 3.0A    I 3.0A    I 3.0A    I 3.0A    I
+-----+-----+-----+-----+-----+-----+

```

*) when using user-defined types and version-managed members,
otherwise as of LMS V2.0.

Operating mode: Interactive/batch

Add-on software: TOM-M as of Version 4.0A

2.3 Product installation

TOM-DOC is installed using the supplied installation procedure:

```
/DO TOM-DOC.INSTALL.PRC<,FMSREP=ON>
```

The LMS utility is required to run this procedure. The procedure must be started under \$TSOS or under the user ID in which TOM-TI is installed and the TOM-DOC files were loaded.

Note: If the FMS library management system is available but is not installed under \$TSOS, the installation procedure must be started with the parameter FMSREP=ON.

The following parameters are prompted for during the procedure:

&LIBID- user ID under which TOM-TI was installed and the TOM-DOC files were loaded

&SILBID- ID indicating which language-specific hyphenation program should be installed

&SILT- query as to whether the file "COSY-SILT-AUSNAHMEWORTE" is already present

&FMSID - (only if FMSREP=ON) ID under which FMS is installed

&LIST- the installation log is stored in the file specified in the &LIST parameter (default: TOM-DOC.INSTALL.LST). It can be printed using the command:

```
/PRINT TOM-DOC.INSTALL.LST,SPACE=E
```

2.4 Product use

TOM-DOC V3.2A20 requires the following files in order to run:

- TOM.EDIT.OML (object module library)
- TOM.DOC (phase)
- TOM-DOC-DEVICETABLE (printer control characters)
- COSY-SILT.AUSNAHMEWORTE (exception word file)

2.5 Obsolete functions (and those to be discontinued)

None

2.6 Incompatibilities

Not applicable

2.7 Restrictions

1. Copying from FMS libraries

Use of FMS libraries on NK4 disk drives is possible with the TOM-DOC phase and in TOM-TI. Use of TOM-DOC in the FMS editor is not possible. The message **ERROR ON TOMDOC-TEMPORARY-FILE would be issued.

When copying in members from a number of FMS libraries, the libraries must be of the same type, i.e. libraries generated using the FMS system up to and including Version 2.3G (old type) cannot be edited using the FMS-SYSTEM of Version 2.4A (new type) currently used in TOM-DOC V3.2A20. The FMS libraries of the old type must first be converted into the new library type of FMS system V2.4A using the procedure FMS.PRC.CONVER.V24, otherwise TOM-DOC reports the following error:

```
S <#> SWL DATA CREATED BY FMS < 2.4A0, MUST BE CONVERTED
S <#> SW ERROR ON FILE / ELEMENT
```

2. Using an object module library with incorrect contents for FMS as the result of an installation error.

If an FMS object module library contains incorrect modules, TOM-DOC reports the following error:

```
S <#> SWL FILE PRESUMABLY NOT A FMS-LIBRARY / OLD FMS-SYSTEM?
S <#> SW ERROR ON FILE / ELEMENT
```

An FMS object module library with the correct contents must then be installed.

3. If the FMS object module library \$FMSLIB cannot be found in \$TSOS, TOM-DOC reports the following error:

```
S <#> SWL FMS-RUNTIME-LIBRARY: LINKED VERSION INVALID
S <#> SW ERROR ON FILE / ELEMENT
```

An FMS object module library matching FMS Version 2.4A must be installed.

4. The TD5 function (changing to second character set) is not implemented for the 9012 and 9013 printers. If TD5 is specified, it is ignored when editing.
5. The procedure CTD.D0.EXD does not run on NK4 disks.
6. COSY-SILT-AUSNAHMEWORTE on NK4 disks

Use of the file COSY-SILT-AUSNAHMEWORTE on NK4 disks with user-defined exception words is not possible.

7. Lack of space REQM/RELM-ERROR in TOM-TI / TOM-DOC: If the error "**** REQM/RELM-ERROR IN TOM-DOC ****" is reported in in the virtual work file number 2 of TOM-TI when using TOM-DOC functions you should immediately terminate your work and resume text editing in a new TOM-TI session. You are almost always able to save the work you have done so far.

8. When the TOM-DOC phase is invoked with /EXEC TOM.DOC, the automatic trailer run by the TCL command is performed correctly only if a BS2000 file has been assigned with SYSFILE SYS-DTA=<BS2000-file>. If a library member is assigned as the input source, a DMS error DMS0693 (data protection) may be reported. This means that if a library member was assigned with SYSFILE SYS-DTA=&LIB(&INPUT), the result you get is correct in form, but the table of contents will be incorrectly numbered on the basis of a calculated value divergent from TOM-DOC (..TCL=<value>).

You can by-pass the problem in the BS2000 versions V10, OSD V1, OSD V2 by using a BS2000 file as the input source. In BS2000 versions OSD V1 and OSD V2 you can also assign a library member as the input source using the command:

```
ASSIGN-SYSDTA TO=*LIBRARY-ELEMENT(LIB=&LIB,ELEM=&INPUT)
```

or

```
ASSIGN-SYSDTA TO-FILE=*LIBRARY-ELEMENT(LIB=&LIB,ELEM=&INPUT)
```

2.8 Procedure in the event of errors

When notifying errors, you should specify the input source and the editing result, provide a description of the procedure and submit the installation log (default name: TOM-DOC.INSTALL.LST). You can print the installation log using:

```
/PRINT TOM-DOC.INSTALL.LST,SPACE=E
```

3 Software TOM-DOC V3.2A20

Only the new features and modifications to the previous TOM-DOC version (V3.1B) are described below. A detailed description of functions, commands, etc. is provided in the chapters of the TOM-DOC V3.2A20 User Guide.

3.1 Software component TOM.DOC

Version V3.2A20 of TOM-DOC is adapted to the modified system interfaces of more recent BS2000 versions. This affects, above all, the internal work files of the program and enables TOM-DOC also to be used in NON-key configurations.

In the event of errored file access functions TOM-DOC reports an error, possibly repeatedly, to the system file SYSOUT or in the virtual work file area number 2 in TOM-TI:

```
**ERROR ON TOMDOC-TEMPORARY-FILE
```

A change to the ..SW=command now also allows access to LMS library members with standard and user-defined PLAM types and version attribute.

A new edition of the manual has also been published. The chapter "Printing with TOM-DOC" has been completely revised. The use of various PRINT commands in BS2000, dependent on SPOOL system version (2.5B, 2.6A, 2.7A, 2.7B, 3.0A) and operating system version (BS2000 V10, OSD V1, OSD V2), is included.

Error correction: "The ND printer is supported for the last time in BS2000 V10 with Spool V2.7A" should read ".....Spool V2.6A".

3.1.1 New commands

None

3.1.2 Extended and modified commands

1. Change in the user interface:

The TOM-DOC command `..SW Switch Input` has been changed in order to permit use of the user-defined LMS type and the new "version" parameter.

The new syntax of the `..SW` command is now:

```
..SW=< ( op Ä, plamtype Ä ) > ; read LMS and FMS
      ( op Ä, Ä plamtype Ä, version Ä )
```

Default value for `plamtype` = S

Default value for `version` = highest version available

2. New error message

If TOM-DOC attempts to process a library member whose record length exceeds 252 bytes, the program reports the error:

```
RECORD LENGTH IN ELEMENT EXCEEDS MAXIMUM
```

3.1.3 New system variables for 4-digit year entry

The system variables `&LDATD` (long date, German notation) and `&LDATE` (long date, English notation) have been introduced in order to represent a 4-digit year entry in a date.

```
German date      :
Variable name    : &LDATD
Output           : tt.mm.jjjj
```

```
English date     :
Variable name    : &LDATE
Output           : mm/dd/yyyy
```


3.1.4 Resources for the LP65 printer

The 3365 laser printer is supported by means of the command `..DEV=LP65`. In contrast to the laser printers supported until now, not all print resources can be loaded from the host into printer memory in the case of the 3365 printer; the resources must be loaded from a diskette.

For this purpose, the delivery scope of TOM-DOC V3.2A20 now includes an appropriate diskette. The diskette contains the various printer resources required by TOM-DOC to support the 3365 laser printer.

3.1.5 Batch editing of files

When editing files in batch mode (`*DOCL` and `*DOCE` commands), the "Batchtime-Limit" parameter of TOM-DOC is set to "100" by default. The TIME parameter can be set to a different value by the following REP:

```
Obj.mod.lib.   : TOM.EDIT.OML
Module         : TOMDOC
REP address    : 1F7D2 to 1F7D4
Maximum length : 3 bytes
Default       : X'F1F0F0'
Entry         : X'FnFnFn' (e.g. X'F9F9F9' for 999)
```

The ENTER process generated when editing with the `*DOCL` and/or `*DOCE` command is started with the parameters `TIME=100` and `ERASE=YES` by default. If further parameters are needed when performing installation, they parameters can be included using REP:

```
Obj.mod.lib.   : TOM.EDIT.OML
Module         : TOMDOC
REP address    : 1F7D5 to 1F84D
Maximum length : 120 bytes
Default       : Blanks ( X'40' )
Entries       : as per syntax of ENTER command
               ", " (X'6B') should be entered as
               the first character
```

3.2 Software components, character sets NDFILE, HPFILE, PRFILE

In order to use SPOOL V3.0 (with BS2000 operating system OSD V1 and OSD V2), it is essential to convert the character set files `POST.NDFILE` and `POST.HPFILE` to the `PRFILE` format using the SPOOL program `PRM`.

Note:

The new manual explains the relationship between operating system version, print command, SPOOL version and character set files in detail.

3.2.1 POST.NDFILE

The ND printer is supported for the last time in BS2000 V10 with SPOOL V2.7A. When using SPOOL V3.0A, `POST.NDFILE` must be converted to `PRFILE` format by means of the SPOOL program `PRM`.

3.2.2 POST.HPFILE

The shipped POST.HPFILE can be used in BS2000 V10 and OSD V1. When using SPOOL V3.0A, POST.HPFILE must be converted to PRFILE format by means of the SPOOL program PRM.

3.2.3 POST.PRFILE

When using SPOOL V3.0A, POST.NDFILE and POST.HPFILE must be converted to PRFILE format by means of the SPOOL program PRM. The shipped POST.PRFILE includes the contents of the TOM-DOC character set files POST.NDFILE and POST.HPFILE.

When installing the character set files, it must be ensured that the LOOP parameters of TOM-DOC match the PAGE-SIZE parameters of the corresponding SPOOL form entries.

The required conversion of the SPOOLFILE to POST.PRFILE is not included.

3.2.4 POST.RSOFILE

The POST.RSOFILE character set file contains the conversion table for RS0 printers. It must be installed under the user ID under which the /PRINT command is issued or under \$TSOS.

3.3 Shipped files

The following files are shipped for the TOM-DOC V3.2A20 product:

File name	Meaning
SYSFGM.TOM-DOC.032.D	Release Notice in German
SYSFGM.TOM-DOC.032.E	Release Notice in English
POST.HPFILE	Char. sets for HP laser printers
POST.NDFILE	Char. sets for ND laser printers
POST.PRFILE	Char. sets for ND-HP laser printers as of SPOOL V3.0 Manual, page 160 ff.
POST.RSOFILE	Conversion table for RS0 printers
TOM-DOC-DEVICETABLE	Table for supported RS0 printers
TOM-DOC.INSTALL.PRC	Installation procedure
TOM.DOC.LNKLIB	Module library
TOM.DOC	Phase
COSY-SILT.DUMMY	Exception word file, template
CTD.CTDEX01	Exception word file, German
CTD.CTDEX02	Exception word file, English

CTD.CTDEX11	Exception word file, Dutch
CTD.CTDEX14	Exception word file, Danish
There are no ready-made exception word files available for other languages.	
CTD.CTDNF	Program for merging user-defined exception words
CTD.CTDTEX	Program for maintaining exception word file (used by CTD.D0.EXD)
CTD.D0.EXD	Proc. for maintaining exception word file --> manual, page 46
CTD.D0.LINK.EXDIA	Link procedure for hyphenation program
CTD.R.MODLIB.ALLG.V12C	Library with language-independent modules
CTD.R.MODLIB.DAENISCH	Module library for Danish
CTD.R.MODLIB.DEUTSCH	Module library for German
CTD.R.MODLIB.ENGLISCH	Module library for English
CTD.R.MODLIB.FRANZOESISCH	Module library for French
CTD.R.MODLIB.ITALIENISCH	Module library for Italian
CTD.R.MODLIB.NEUGRIECHISCH	Module library for Modern Greek
CTD.R.MODLIB.NIEDERLAENDISCH	Module library for Dutch
CTD.R.MODLIB.PORTUGIESISCH	Module library for Portuguese
CTD.R.MODLIB.SCHWEDISCH	Module library for Swedish
CTD.R.MODLIB.SPANISCH	Module library for Spanish

3.4 Table of contents of libraries

3.4.1 Hyphenation libraries

INPUT LIBRARY= :10SS:\$TOMDEVL.P.CTD.R.MODLIB.ALLG.V12C

NAME	VERSION	(VAR#)	DATE
CTDCED	e	(0001)	1994-04-05
CTDDI02	e	(0004)	1994-04-06
CTDDRTAB	000	(0001)	1986-12-02
CTDEXDIA	000	(0001)	1986-12-02
CTDINT	e	(0001)	1994-03-31
CTDI02	000	(0001)	1986-12-02
CTDSUB	e	(0001)	1994-04-05
CTDVOCO	e	(0001)	1994-04-05
EXDMELD	000	(0001)	1986-12-02
TABEDOR	000	(0001)	1986-12-02

TAB8162 000 (0001) 1986-12-02
WRTRDEX 000 (0001) 1986-12-02

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.DAENISCH

NAME	VERSION	(VAR#)	DATE
CTD141	000	(0001)	1988-08-10
CTD142	000	(0001)	1988-08-10

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.DEUTSCH

NAME	VERSION	(VAR#)	DATE
CTD011	000	(0001)	1988-08-10
CTD012	000	(0001)	1988-08-10

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.ENGLISCH

NAME	VERSION	(VAR#)	DATE
CTD021	000	(0001)	1986-12-01
CTD022	000	(0001)	1986-12-01

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.FRANZOESISCH

NAME	VERSION	(VAR#)	DATE
CTD031	000	(0001)	1986-05-14
CTD032	000	(0001)	1985-01-22

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.ITALIENISCH

NAME	VERSION	(VAR#)	DATE
CTD051	000	(0001)	1987-02-04
CTD052	000	(0001)	1985-01-22

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.NEUGRIECHISCH

NAME	VERSION	(VAR#)	DATE
CTD121	000	(0001)	1985-01-22
CTD122	000	(0001)	1985-01-22

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.NIEDERLAENDISCH

NAME	VERSION	(VAR#)	DATE
CTD111	000	(0001)	1988-08-10
CTD112	000	(0001)	1988-08-10

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.PORTUGIESISCH

NAME	VERSION	(VAR#)	DATE
CTD131	000	(0001)	1986-10-22
CTD132	000	(0001)	1986-10-22

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.SCHWEDISCH

NAME	VERSION	(VAR#)	DATE
------	---------	--------	------

CTD151 000 (0001) 1985-05-20
CTD152 000 (0001) 1985-10-29

INPUT LIBRARY= :10SS:\$TOMDEVLP.CTD.R.MODLIB.SPANISCH

NAME	VERSION	(VAR#)	DATE
CTD091	000	(0001)	1985-01-22
CTD092	000	(0001)	1985-01-22

3.4.2 Module library for TOM-DOC V3.2A20

INPUT LIBRARY= :10SS:\$TOMDEVLP.TOM.DOC.LNKLIB

NAME	VERSION	(VAR#)	DATE
EDXDOC	032	(0001)	1999-02-01
SILBLINK	032	(0001)	1995-12-01
TOMDOC	032	(0001)	1999-02-01

3.5 Contents of character set files

3.5.1 POST.NDFILE

Contents of POST.NDFILE

Form records:

FORM LDOC	LOOP C6
FORM RZ12	LOOP C6
FORM RZ12W	LOOP C6
FORM RZ9	LOOP 98
FORM STD	LOOP 98

Character sets:

CHARS DI	LPI: 8; CPI: 12; SPACE: 40; # OF CHARS: 192
CHARS DJ	LPI: 8; CPI: 12; NO SPACE ; # OF CHARS: 063
CHARS DE	LPI: 6; CPI: 10; SPACE: 40; # OF CHARS: 192
CHARS DF	LPI: 6; CPI: 10; NO SPACE ; # OF CHARS: 063
CHARS DL	LPI: 8; CPI: 15; SPACE: 40; # OF CHARS: 192
CHARS DM	LPI: 8; CPI: 15; NO SPACE ; # OF CHARS: 063

LOOP records:

LOOP C6	LENGTH: 12	FR: 0	LPI: 6
LOOP C8	LENGTH: 12	FR: 0	LPI: 8
LOOP 96	LENGTH: 09	FR: 0	LPI: 6
LOOP 98	LENGTH: 09	FR: 0	LPI: 8

3.5.2 POST.HPFILE

Contents of POST.HPFILE

Character set pools:

TOME - # CHARS 05
TOMI - # CHARS 05
TOML - # CHARS 05

Character sets:

CHARS DE LPI: 06; CPI: 10; SPACE: 40; # OF CHARS: 192
CHARS DF LPI: 06; CPI: 10; SPACE: A2; # OF CHARS: 063
CHARS DI LPI: 08; CPI: 12; SPACE: 40; # OF CHARS: 192
CHARS DJ LPI: 08; CPI: 12; SPACE: A2; # OF CHARS: 063
CHARS DL LPI: 08; CPI: 15; SPACE: 40; # OF CHARS: 192
CHARS DM LPI: 08; CPI: 15; SPACE: A2; # OF CHARS: 063
CHARS DE1 LPI: 06; CPI: 10; SPACE: 40; # OF CHARS: 254
CHARS DE2 LPI: 06; CPI: 10; SPACE: 40; # OF CHARS: 255
CHARS DE3 LPI: 06; CPI: 10; SPACE: 40; # OF CHARS: 255
CHARS DE4 LPI: 06; CPI: 10; SPACE: 40; # OF CHARS: 255
CHARS DE5 LPI: 06; CPI: 10; SPACE: 40; # OF CHARS: 11
CHARS DI1 LPI: 08; CPI: 12; SPACE: 40; # OF CHARS: 254
CHARS DI2 LPI: 08; CPI: 12; SPACE: 40; # OF CHARS: 255
CHARS DI3 LPI: 08; CPI: 12; SPACE: 40; # OF CHARS: 255
CHARS DI4 LPI: 08; CPI: 12; SPACE: 40; # OF CHARS: 255
CHARS DI5 LPI: 08; CPI: 12; SPACE: 40; # OF CHARS: 11
CHARS DL1 LPI: 08; CPI: 15; SPACE: 40; # OF CHARS: 254
CHARS DL2 LPI: 08; CPI: 15; SPACE: 40; # OF CHARS: 255
CHARS DL3 LPI: 08; CPI: 15; SPACE: 40; # OF CHARS: 255
CHARS DL4 LPI: 08; CPI: 15; SPACE: 40; # OF CHARS: 255
CHARS DL5 LPI: 08; CPI: 15; SPACE: 40; # OF CHARS: 11

LOOP records:

LOOP B06 LENGTH: 11 FR: 0 LPI: 6
LOOP B08 LENGTH: 11 FR: 0 LPI: 8
LOOP C0C LENGTH: 12 FR: 0 LPI: 12
LOOP C06 LENGTH: 12 FR: 0 LPI: 6
LOOP C08 LENGTH: 12 FR: 0 LPI: 8
LOOP 90C LENGTH: 09 FR: 0 LPI: 12
LOOP 906 LENGTH: 09 FR: 0 LPI: 6
LOOP 908 LENGTH: 09 FR: 0 LPI: 8

3.5.3 POST.PRFILE

Resource	Type	Printer	Access-Date
B06	LOOP	HP	1995-08-01
B08	LOOP	HP	1995-08-01
C0C	LOOP	HP	1995-03-29
C06	LOOP	HP	1995-03-29
C08	LOOP	HP	1995-03-28
C6	LOOP	ND	1995-03-27
C8	LOOP	ND	1995-03-27
90C	LOOP	HP	1995-01-30
906	LOOP	HP	1995-03-31
908	LOOP	HP	1995-08-01
96	LOOP	ND	1995-03-27
98	LOOP	ND	1995-03-27
DE	FONT	HP	1995-01-30
DE	FONT	ND	1995-03-27
DE1	FONT	HP	1995-08-01

DE2	FONT	HP	1995-08-01
DE3	FONT	HP	1995-08-01
DE4	FONT	HP	1995-08-01
DE5	FONT	HP	1995-08-01
DF	FONT	HP	1995-01-30
DF	FONT	ND	1995-03-27
DI	FONT	HP	1995-01-30
DI	FONT	ND	1995-03-27
DI1	FONT	HP	1995-08-01
DI2	FONT	HP	1995-08-01
DI3	FONT	HP	1995-08-01
DI4	FONT	HP	1995-08-01
DI5	FONT	HP	1995-08-01
DJ	FONT	HP	1995-01-30
DJ	FONT	ND	1995-03-27
DL	FONT	HP	1995-01-30
DL	FONT	ND	1995-03-27
DL1	FONT	HP	1995-08-01
DL2	FONT	HP	1995-08-01
DL3	FONT	HP	1995-08-01
DL4	FONT	HP	1995-08-01
DL5	FONT	HP	1995-08-01
DM	FONT	HP	1995-01-30
DM	FONT	ND	1995-03-27
TOME	FONT-POOL	HP	1995-08-01
TOMI	FONT-POOL	HP	1995-08-01
TOML	FONT-POOL	HP	1995-08-01

4 Auxiliary procedures for printer support

TOM-DOC V3.2A20 is shipped with the LMS library TOM.RS0. It contains a number of auxiliary procedures for printing TOM-DOC documents on suitable RS0 printers, and also a description of how to use the procedures.

The procedures may be used as supplied at the sole risk of the user. The Fujitsu Technology Solutions enters into no obligation to provide any warranty or maintenance.

For purposes of quick reference, the LMS members containing system descriptions are listed below.

4.1 README

```

/PROC N
/W-T ' +-----+
/W-T ' I           T O M - R S O           I'
/W-T ' +-----+
/W-T ' I THIS LIBRARY CONTAINS A PROCEDURE THAT ALLOWS TO PRINT I'
/W-T ' I A DOCUMENT WITH TOM-DOC COMMANDS ON ANY RS0 PRINTER. I'
/W-T ' I I'
/W-T ' I I'
/W-T ' I YOU CAN HAVE INFORMATION ABOUT PROCEDURE CHARACTERISTICS I'
/W-T ' I WITH THE FOLLOWING COMMAND : I'
/W-T ' I I'
/W-T ' I /SHOW-FILE *L-E(TOM.RS0,INFO,X) I'
/W-T ' I OR I'
/W-T ' I /PRINT-FILE *L-E(TOM.RS0,INFO,X),DEVICE=<RS0 DEVICE NAME> I'

```

```

/W-T ' I I'
/W-T ' I I'
/W-T ' I YOU CAN HAVE INFORMATION ABOUT PROCEDURE USAGE I'
/W-T ' I WITH THE FOLLOWING COMMAND : I'
/W-T ' I I'
/W-T ' I /SHOW-FILE *L-E(TOM.RSO,USAGE,X) I'
/W-T ' I OR I'
/W-T ' I /PRINT-FILE *L-E(TOM.RSO,USAGE,X),DEVICE=<RSO DEVICE NAME> I'
/W-T ' +-----+
/ENDP

```

4.2 INFO

GENERAL INFORMATION :

1) GOAL :

The goal of this procedure is to print a file containing TOM-DOC commands on any RSO printer.

2) How to process :

- a) Use an editor to build the input file.
- b) Call the procedure and give correct parameters :
 - input file name
 - RSO device name
- c) Wait for your print.

3) Prerequisites :

- a) The RSO subsystem must be started.
- b) The requested device must be active.

If RSO is not started or the device not active, the given device name will be used to output the result of TOM-DOC formatting in a file.

4) Advantages :

- a) To obtain immediatly the result of TOM-DOC formatting.
- b) To be able to print on white single sheets.

PROCESS INFORMATION :

1) What the procedure does :

- a) It checks if RSO device is present and active
- b) Following RSO device type, makes file pre-processing :

- suppress ..HP or ..TDi commands
- modifies ..FM or ..FME commands
- modifies ..OPF command
- modifies ..CPL and ..CSP commands
- replaces all non-printable characters.

c) Calls TOM-DOC with the file resulting of pre-processing

d) Takes output file and makes post-processing :

- modifies graphic characters following RSO device type.
- inserts correct FONT selection sequences.

e) Issues the correct /PRINT-FILE command.

2) What the procedure does not :

a) build the input file or accept directly TOM-DOC commands.

b) start RSO subsystem or make the RSO device active :
it's administrator's job.

3) What the procedure needs :

a) following products : TOM-DOC

SP00L and RSO

EDT

b) correct input file.

EXAMPLE :

You can find a sample file in this library.

You can issue a print with the following command :

```
/CALL-PROC *L-E(TOM.RSO,TOM),PROC-PARAM=(LIBRARY=TOM.RSO,-
                                           ELEMENT=SAMPLE,-
                                           TYPE=X,-
                                           PRINTER=<device name>)
```

GOOD LUCK.

4.3 USAGE

1) PROCEDURE call :

```

/CALL-PROC *L-E(LIB=<procedure-library>,ELEM=<procedure-element>),-
  PROC-PARAM=(FILE=<filename>,-
              PRINTER=<RSO device name>,-
              COPIES=<copy#>,-           | these
              FROM=<from page #>,-       | parameters
              TO=<to page #>,-           | are
              RV=<recto-verso>,-         | only
              OUTFILE=<output file name>) | optionnal

```

or

```

/CALL-PROC *L-E(LIB=<procedure-library>,ELEM=<procedure-element>),-
  PROC-PARAM=(LIBRARY=<library>,-
              ELEMENT=<element>,-
              TYPE=<type>,-
              PRINTER=<RSO device name>,-
              COPIES=<copy#>,-           | these
              FROM=<from page #>,-       | parameters
              TO=<to page #>,-           | are
              RV=<recto-verso>,-         | only
              OUTFILE=<output file name>) | optionnal

```

2) PROCEDURE parameters :

```

FILE =
  full-filename_1..54 : NAME of INPUT FILE
  *LIB                 : Input file is in a Library
  default value       : *LIB

LIBRARY =
  full-filename_1..54 : NAME of INPUT Library
  default value       : *DUMMY
  (Is ONLY interpreted when FILE=*LIB)

ELEMENT =
  full-filename_1..54 : NAME of INPUT element
  default value       : *DUMMY
  (Is ONLY interpreted when FILE=*LIB)

TYPE =
  alphanum_1..1      : TYPE of INPUT element
  default value      : *DUMMY
  (Is ONLY interpreted when FILE=*LIB)

COPIES =
  integer_0..99      : Number of copies to print.
  default value      : 0

PRINTER =
  alphanum-name_18   : RSO device name or
  NO default value   for this parameter.

FROM =
  integer_1..999     : Page where the print must begin
  default value      : BEGIN-OF-FILE

TO = *LAST
  integer_1..999     : Page where the print must end
  default value      : END-OF-FILE

RV =
  YES : Recto verso to be used (ONLY for 9026 device)

```

NO : Recto verso not to be used

OUTFILE =
full-filename_1..45 : NAME of "OPF" file
default value : #TOM.DOC.RSO

3) PROCEDURE internal processing :

a) Check FILE and PRINTER parameters :

IF (FILE = *LIB) THEN - extract element from library
ELSE - take the given file

IF (PRINTER exists) THEN - get PRINTER type
- IF (type NOT SUPPORTED)
THEN - assume type = 9001-RP
ELSE - take PRINTER name as a FILE-NAME

b) Preprocessing following PRINTER type :

PRINTER TYPE IS 2030, 9011, 9012, 9014, 9021, 4011, 4812, 4813,
4818, 4821, 4822, 4825, 9097, 9025 OR 9026

- Force FM=1 if not FM or FME found in file.
- Suppress CSP if no EM found in file.
- Replace OPF by OPF=<OUTFILE parameter>
- Suppress HP
- Suppress TD=
- Replace not printable characters by X'40'
- Force CSP=12
- Force ..CPL=88 for all values greater than 88

PRINTER TYPE IS LJII OR DJET

- Force FM=1 if not FM or FME found in file.
- Suppress CSP if no EM found in file.
- Replace OPF by OPF=<OUTFILE parameter>
- Suppress HP
- Suppress TD=
- Replace not printable characters by X'40'
- Force CSP=12

PRINTER TYPE IS 9001 OR PRINTER DOES NOT EXIST

- Force FM=1 if not FM or FME found in file.
- Suppress CSP if no EM found in file.
- Replace OPF by OPF=<OUTFILE parameter>
- Suppress HP
- Suppress TD=
- Replace not printable characters by X'40'
- Force CSP=12
- Suppress COD
- Suppress COX
- Suppress CHF=Y

c) Call TOM-DOC :

The TOMPROG parameter in the procedure header allows to tell

where is the TOM-DOC program.
 Actual value (\$RZ3.TOM.DOC) corresponds to Namur.

d) Postprocessing following PRINTER type :

- Changes some characters generated by TOM-DOC into printable ones.
- Insert correct FONT loading escape sequences.

e) Issue the /PRINT-FILE command :

- IF the PRINTER parameter given does not correspond to an existing printer, a file is created with corresponding name.
- The PRINT-FILE command includes a FORM and a CHARACTER SET. The one used in NAMUR are :

PROC-PARAM	DEV-TYPE	LINE-SIZE	PAGE-SIZE	LPI	CHANNEL1	CHARACTER-SET
FORM1=STDF5	9001	90	120	8	3	\$8H
FORM2=STDF5	2030	136	112	8	3	\$8F
	4011	"	"	"	"	"
	4812	"	"	"	"	"
	4813	"	"	"	"	"
	4818	"	"	"	"	"
	4821	"	"	"	"	"
	4822	"	"	"	"	"
	4825	"	"	"	"	"
	9097	"	"	"	"	"
FORM3=STDB08	9025	78	114	8	3	\$8C
	9026-RENO	78	114	8	3	\$8C
FORM4=STDB08	9011	78	114	8	3	\$8C
	9012	"	"	"	"	"
	9014	"	"	"	"	"
	9021	"	"	"	"	"
FORM5=STDB08	LJII	78	114	8	3	\$8C
	DJET	"	"	"	"	"

The procedure parameters FORM1, FORM2, FORM3, FORM4 and FORM5 can be assigned to any other values that respect the page size and the form size.

The procedure parameters CHAR1 and CHAR2 must normally not be changed because they are standard values.

- The use of RECT0-VERSO printing on a 9026-RENO device supposes that the

DIA used to set RECT0-VERSO is available under \$TSOS userid or under the first device administrator userid or under the user userid.
 The DIA file, RP9026-RENO.DIA.RV is in the library.

4) EXAMPLE :

You can find a sample file in this library.

You can issue a print with the following command :

```
/CALL-PROC *L-E(TOM.RSO,TOM),PROC-PARAM=(LIBRARY=TOM.RSO,-
                                           ELEMENT=SAMPLE,-
                                           TYPE=X,-
                                           PRINTER=<device name>)
```

GOOD LUCK.

4.4 SAMPLE

```
..NP;
..NL=3;
..HM=12 TITLE :      ;
      TOM - RSO
..NL=3;
..HM=12 SUMMARY :    ;
      This file is a small example of what can be done with TOM-RSO
```

You can print it on any RSO printer by just giving it's name and see that the result is the same than what you get with a local PRINTER.

```
..NL=3;
..RL=4;
..HM=12 KEYWORDS :  ;
      RSO, TOM-DOC
..NL=3;
..AS
..COD
```

```
+-----+ +-----+ +---+ +---+
!         ! !         ! !   +   !
+---+   +---+ !  +--+ ! !   +   + !
      !   !   !  !!! ! !   !+  +! !
      !   !   !  !!! ! !   !+  +! !
      !   !   !  +--+ ! !   !   ! !
      !   !   !   !   ! !   !   ! !
+---+   +-----+ +---+   +---+
```

```
..COX
..AX
```

4.5 Inhalt LMS-Bibliothek TOM.RSO

INPUT LIBRARY= :10SS:\$TOMDEVL.P.TOM.RSO

NAME	VERSION	(VAR#)	DATE
README	@	(0001)	1995-08-04
TOM	@	(0003)	1999-01-27
2 (J)-ELEMENT(S) IN THIS TABLE OF CONTENTS			
NAME	VERSION	(VAR#)	DATE
INFO	@	(0001)	1999-01-27
RP9026-RENO.DIA.RV	@	(0001)	1995-06-15
SAMPLE	@	(0007)	1995-08-08
USAGE	@	(0001)	1999-01-27
4 (X)-ELEMENT(S) IN THIS TABLE OF CONTENTS			