Fujitsu Technology Solutions

FHS (BS2000/OSD)
Version 8.3B
May 2013

Release Notice

1   General

This Release Notice is a summary of the major extensions, dependencies and operating information pertaining to FHS V8.3 under the operating system BS2000/OSD and BS2000/OSD-SVP ([1]).

The release level is that of May 2008.

This encompasses:

- FHS kernel : old FHS for TIAM, DCAM and OpenUTM
- FHS-DE   : only for OpenUTM, support of formats that conform to the SNI Alpha Style Guide
- FHS-DM   : only for TIAM, support of formats that conform to the SNI Alpha Style Guide
- FHS-PRIV : A TPR subsystem for SDF-P variable. This is a server for the S procedures
- IDHDOOR   : FHS-DOORS V2.0/FHS V8.3 and up Interface.

All these parts are delivered in four libraries:

- SYSLNK.FHS.083 containing FHS kernel, FHS-DE, FHS-DM and IDHDOOR
- SYSLNK.FHS.083.TPR containing FHS-PRIV for /390-Hardware
- SPMLNK.FHS.083.TPR containing FHS-PRIV for SPARC
- SKMLNK.FHS.083.TPR containing FHS-PRIV for X86

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.

1.1   Ordering

FHS   V8.3 is available through your local sales organization.
The general conditions of the Contract for the Use and Maintenance of Software Products apply to FHS V8.3.
BS2000/OSD V6.0B or higher is required for FHS V8.3.

1.2   Distribution

The files for FHS V8.3 are distributed through the SOLIS system.
The valid file and volume attributes are listed in the SOLIS2 delivery statement.
Delivery of FHS V8.3 includes the following files:

1.2.1   The following files are independent from the HIS

Release items:	Description:
SYSPRG.FHS.083.MMAINT	TU program; utility required when generating addressing aids offline for ASSEMBLER and COBOL programs.
SYSPRG.FHS.083.MMAINTCB	TU program; utility required only to create COBOL Addressing aids.

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[1] „BS2000/OSD is a trademark of Fujitsu Technology Solutions "

SYSPRG.FHS.083.MAPPRINT	TU program; print routine for formats.
SYSLNK.FHS.083	library containing the product.
SYSLIB.FHS.083	Library with the macros and includes and the module MFHSCALL
SYSLIB.FHS.083.ASSEMBF	Library with the macros to be compiled with the F-ASSEMB compiler.
SYSMES.FHS.083	Message file
SYSFGM.FHS.083.E	Release Notice (English)
SYSFGM.FHS.083.D	Release Notice (German)
SYSRME.FHS.083.E	README file (English)
SYSRME.FHS.083.D	README file (German)
SYSSII.FHS.083	IMON information for FHS
SYSFHS.FHS.083.FHS-DE	Library for FHS-DE masks
SYSFHS.FHS.083.FHS-DM.D	Library for FHS-DM masks (German)
SYSFHS.FHS.083.FHS-DM.E	Library for FHS-DM masks (English)
SYSPRC.FHS.083.LMSOPT	Contains the procedures with the optional reps.
SYSSSC.FHS.083.NXS.130	DSSM catalog statements defining the FHS, FHS-DM and FHS-PRIV sub-systems. The FHS and FHS-DM subsystems will be loaded exclusively below the 16-MB address space.
SYSSSC.FHS.083.XS.130	DSSM catalog statements defining the FHS, FHS-DM and FHS-PRIV sub-systems. The FHS and FHS-DM subsystems will be loaded at any address in or above the 16-MB address space.
SYSPRC.FHS.083	Procedure for FHS-TPR.

1.2.2   The following files are only necessary on /390-hardware

Release items:	Description:
SYSLNK.FHS.083.TPR	Library containing FHS-PRIV.

1.2.3   The following files are only necessary on SPARC

Release items:	Description:

SPMLNK.FHS.083.TPR   Library containing FHS-PRIV.

1.2.4   The following files are only necessary on X86

Release items: Description:

SKMLNK.FHS.083.TPR   Library containing FHS-PRIV.

1.3   Documentation

The following documents are part of the scope of delivery of FHS V8.3:

Title	Order no.
FHS V8.3A (BS2000/OSD, TRANSDATA) Format Handling System for OpenUTM, TIAM, DCAM User Guide	U764-J-Z135-12-76
FHS V8.1A (BS2000/OSD, TRANSDATA) Dialog Extension for TIAM and SDF-P User Guide	U23110-J-Z135-1-7600
(BS2000/OSD, TRANSDATA) Formatierungssystem fuer OpenUTM, TIAM, DCAM Benutzerhandbuch	U764-J-Z135-13
FHS V8.1A (BS2000/OSD, TRANSDATA) Dialogerweiterung fuer TIAM und SDF-P Benutzerhandbuch	U23110-J-Z135-1

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 README files are available on the SoftBooks-DVD or online under http://manuals.ts.fujitsu.com.

The documentation of the BS20000/OSD standard configuration is also necessary for the use of FHS V8.3.

2   Software extensions

Only the extensions and improvements distinguishing this version from the predecessor version FHS V8.2D are described below.

 * Support of UNICODE

3   Technical information

3.1   Resource requirements

The installation of the product is possible when at least ca 3 MBytes disk space are available.

At run-time, the following memory is necessary

	V08.3
Kernel	ca 111000 Bytes
FHSCON FHSCON2	ca 90112 Bytes
FHS-DE	ca 200704 Bytes
FHS-DM	ca 1400832 Bytes
FHS-PRIV	ca 376832 Bytes

3.2   Software configuration

3.2.1   FHS V8.3 can be operated with:

```
BS2000/OSD        >= V6.0B
IFG               >= V8.3
OpenUTM           >= V5.2
TIAM              >= V13.1C
DCAM              >= V13.1B
PDN-GA            >= V11.2A
BLSSERV           >= V2.5A
VTSU-B            >= V13.2
XHCS-SYS          >= V2.0A
RSO               >= V3.5A
COBOL             >= V1.4A
SPOOL             >= V4.8A
```

The old formats (i.e. formats built with an older version of IFG (up to V5.0) are still supported by FHS V8.3.

3.3   Product installation

In all versions after BS2000/OSD V3.0 and OSD-SVP V1.0 installation of the product with the installation monitor IMON is mandatory, as the execution of the product requires a consistent Software Configuration Inventory (SCI).

The information concerning installation in the delivery cover letter and in the product documentation must be followed as well as the information given below.

The necessary inputs and the sequence of the installation are described in the IMON documentation.

1.   Installation procedure: none
      Standard installation user ID: $TSOS
      Supplementary work user ID: none

2.   Name of the product files: Fixed
3.   Exchange of product.

      At any time.
      For the FHS parts loaded as a subsystem, only after deinstallation of the previous version.

4.   Coexistence with another version of the product

Allowed but FHS kernel cannot be loaded as a subsystem.

5. Privilege required

    For installation: TSOS
    For administration: TSOS

3.4   Product use

When OpenUTM is used via OMNIS, the HARDCOPY command is available from OMNIS V6.2A.

3.5   Obsolete functions (and those to be discontinued)

No function has become obsolete.

3.6   Incompatibilities

In a DE application, all partial formats displayed at the same time on the screen must be compatible with each other:
-    all format types must be the same (e.g. action format - help format)
-    they must have the same number of columns
-    they must be created for the same screen size
-    they must all be 'colored' or all 'not colored' (same color table)
-    they must have the same background color
-    they must have the same global editing rules
-    they must be defined for the same terminal group in the case of 8-bit formats.

This means, for example, that if one partial format has some fields with a color attribute, all partial formats displayed on the same screen must have the field attribute COLOUR defined for their fields.

BLSSERV version greater than or equal to 2.5A must be available on the system.

Except for this, FHS V8.3 is fully compatible with FHS V8.2D.

From the release level of May 2008 and when the product is installed with IMON, the DSSM catalog installed by default is the NXS one. That means that the FHS-DM and FHS subsystems will be loaded exclusively below the 16-MB address space.

3.7   Restrictions

1. The SYS command in the command area is not supported in TPR.

2. If the FHS kernel is loaded as a subsystem, all the applications compiled with a MGMAP or linked with a MFHSCALL earlier than version 8.0 must execute a command /SET-FILE-LINK LINK=MROUTLIB, FILE-NAME=MFHSROUT for the module MFHSISYS.

3. If the FHS kernel is loaded as an XS subsystem, all applications using it must be started in AMODE   ANY.

3.8   Error handling

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

- a detailed description of the error condition, indicating whether and how the error can be reproduced

- the format library containing the current format

- compilation and linkage editor listings of the application program

- ready-to-use format module (file or printout of the format with LMS or DPAGE)

- user dump when the error occurred (file)

- the terminal type from the PDN generation

- the software environment (OpenUTM version, BS2000/OSD version, etc.)

- if OpenUTM is used: OpenUTM dump and user dump.

4   Hardware support

Terminal configuration

3270
8161 (no longer for new formats)
8162 (no longer for new formats)
8160
9748
9749
9750
9751
9752
9753
9754
9755
9756
9758
9759
9762
9756-12x
9763 black & white
9763 colors
9758 8 bits
9763 8 bits

Printer configuration

3287
4810-P10
9001-8931/832 (9001-893 for FHS-ASS)
9001-31/32 (9001-31 for FHS-ASS)
9001-xxx
9002
9003
9004
9011-18/28
9011-19/29
9011-10/20
9012
9013

9014-11/15/16 (ECMA emulation only)
9021-2
9022-200/200U
9022 (not 9022-300/300U)
9025
9097-10/20
RSO printers (for OpenUTM applications)