

DATA SHEET

FMS (BS2000/OSD) Version 2.4 File Management System

Issue April 2009

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FMS is a system for the management of combined BS2000 files in FMS libraries.

Product Characteristic

In this way, FMS can process standard files from the file editor, e.g. source programs, procedures, texts, lists and object modules from the temporary EAM storage.

The combination of files into FMS libraries achieves the following aims:

- It supports the logical relationship of files belonging to a common system. The FMS library can be backed up, archived, protected and transferred as a complete unit.
- The physical relationship of the files makes compressed storage possible. FMS also provides further savings in storage requirements.
- The BS2000 system catalog requires fewer entries.
- Savings in memory requirements are the result of several features:
 - Compression of records (repetition character, blank, *, -, 0).
 - Smallest storage unit per library member is 2 PAM pages (the smallest storage unit for a BS2000 file is 3 PAM pages).
 - Version management with automatic determination of difference means that, with successive versions, only those records not contained in initial versions need to be stored (DELTA storage). All versions are stored in one library member.

Savings in memory requirements are around 40 – 60 % without version management. The savings can be much higher if version management is included (depending on the number of versions and extent of differences).

When a member is initially added to a library, a decision can be made as to whether or not FMS is to carry out version management with DELTA storage for that member. In addition to savings in memory, version management has other following advantages:

- maintenance of management information for each version (version number, date of addition, user information),
- record of differences between versions in list form,
- insertion of versions between existing versions.
- A file must have the following attributes if it is to be added to an FMS library as a member:
 - SAM or ISAM storage form,
 - variable record length is max. 250 bytes.

FMS has been designed for the interactive mode of the BS2000 operating system, but batch mode may also be used within the BS2000 command language. The functions of FMS can also be invoked via a subroutine interface.

Functional Description

FMS can execute the following functions in interactive or batch mode:

- open and close an FMS library
- add members or member versions from BS2000 files or from the virtual memory of the EDT File Editor
- return members or member versions as BS2000 files
- transfer members or member versions to the virtual memory of the EDT File Editor
- output directories (contents and versions) of a library on an interactive device and on a printer
- transfer members from one FMS library to another
- delete member variables
- delete/rename a library member
- output members or member versions on a printer
- transfer to the EDT File Editor
- output version differences on a printer
- start ENTER tasks or DO procedures stored in FMS libraries
- transfer object modules as member versions from the EAM memory
- return member versions as object modules in the EAM memory.

FMS can execute the following functions in the subroutine operation:

- create, open and close an FMS library
- create, open and close an FMS library member
- search for an entry in the directory
- read an entry in the directory
- transfer a library member from a BS2000 file to a library (without version management)
- return a library member as a BS2000 file (without version management)
- delete/rename a library member
- position to a record or a page within the library member
- read/write a record or a page of a library member
- transfer a first member version from a BS2000 file
- transfer another member version from a BS2000 file
- return a member version as a BS2000 file
- output version differences
- delete member versions
- open a member version for record-by-record reading
- read a record of a member version.

Program Description

The FMS system comprises the following:

- a dialog or batch program
- the FMSU, FMSDELTA and FMSVREAD modules for subroutine operation,

- the components which can be re-entered, which execute the FMS functions and which are combined in one module. This module is loaded by the FMSU module.

The FMSU, FMSDELTA and FMSVREAD modules are contained in the dialog program. The accessed modules must be linked in the application program for subroutine operation.

TECHNICAL DETAILS

FMS V2.4

Technical Requirements

Hardware

BS2000/OSD Business Server

Technical Requirements

Software

BS2000 / BS2000-GA as of V9.5

Operating mode

Interactive/batch mode

Implementation language

COLUMBUS-Assembler, Assembler

Documentation

FMS User's Guide

The documentation is available as online manuals, see <http://manuals.ts.fujitsu.com/mainframes.htm>, or in printed form which must be paid for and ordered separately at <http://manualshop.ts.fujitsu.com>.

Training

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