DATA SHEET

FHS (BS2000/OSD)
Version 8.3
Format Handling System (Format Control)

Issue Juli 2016

Pages 2

FHS enables BS2000 applications to be equipped with an alphanumeric, mask-oriented user interface.

Product Characteristic

Thanks to the use of dialog elements conforming to the Alpha Style Guide it is possible to design user interfaces that correspond to the “Guidelines for the design of character-oriented user interfaces” (Alpha Style Guide, see Fig. 1). The use of FHS makes application programming largely independent of the physical characteristics of the data display terminal peripherals connected. FHS also enables formatted messages to be printed out on terminal printers or, subject to restrictions, on high-speed printers in the computer center. FHS is available for programs in interactive mode (TIAM), in openNet Server (DCAM) applications, and in transaction processing mode (openUTM).

Functional Description

Basic functions

- Creation of formats in conjunction with the Interactive Format Generator(IFG).
- Formatting of input/output messages.
- Possibility of specifying different field characteristics of formats either at the time of creation or at the time of utilization (runtime).
- Addressing aids for input and output data for all important programming languages are available for application programs. These enable the application program to access the relevant parts of the message via symbolically defined fields.
- Separate transfer areas for field´contents and their attributes
- Transmission of either net data only or modified data only.
- Possibility of field handling by the application program during formatting.
- Utilization of the maximum number of fields per line on the screen, in accordance with the type of data display terminal used.
- Exchange of subformats on screen (for other subformats of the same size).
- Loading the P keys of data display terminals by means of special formats. (The service routine PLUS, which is contained in the software products VTSU and DCAM, is also required in order to assign user-determined information to the keys).
- Editing of messages for terminal printers, either as hardcopies or as printed forms. Operation of the printer either connected to the data display terminal or a printer controller. Unsolicited messages are also edited.
- Printouts of formats on highspeed printer for test purposes.
- FHS calls via Assembler interface or COBOL-CALL interface for COBOL programs under TIAM or DCAM.
- Edit functions: support for data editing and testing such as decimal and digital separation, sign, date, input duty, and minimum input length, etc.
- Optional integrated or decoupled interface during transaction operations with UTM.
- Support for 8-bit terminals (coded character set corresponding to ISO 8859).
- From an UTM application, any RSO printer can be accessed.

Dialog expansions that conform to Alpha Style Guide

- Standardized mask layout in accordance with Alpha Style Guide (Fig. 1).
- Display of single and multiple selection fields.
- Support during list display.
- Display of format name.
- Display of dialog boxes.
- Extensive help system (fieldrelated help, mask-related help, help with the Help functions, help with key assignment, help with FHS system commands).
- Choice of national language format.
- Command processing.
- Support for menu bar and pulldown menus.
- Support for cross-references.

Changes since the preceding version V8.2D

- Support of Unicode
- Support of PI up to 65K

TECHNICAL DETAILS

FHS V8.3

Technical Requirements Hardware

BS2000/OSD server.

Memory requirements:

- FHS-Kernel approx. 111 KB
- FHSCON approx. 91 KB
- FHS-DE approx. 201 KB
- FHS-DM approx. 1401 KB
- FHS-PRIV approx. 377 KB

Data Display Terminals:
3270
8160
8161
8162
9748
9749
9750
9751
9752
9753
9754
9755
9756
9756-12x
9758
9758 8-bit
9759
9759 8-bit
9762
9763 monochrome
9763 color
9763-M/C/D7

Printers:
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
9014-11/15/15 (ECMA emulation only)
9021-2
9022-200/200U
9022 (not 9022-300/300U)
9025
9097-10/20
3287 (IBM printer)
SINIX-PCs (9750 emulation EMDS)

Technical Requirements Software

BS2000/OSD V6.0B or later

openUTM V5.2A or later

RSO V3.5A or later

Operating mode

Dialog

Implementation language

FHS-Kernel: Assembler,
FHS-DM/-DE/-PRIV: C, SPL, Assembler.

User interface

English und German.

Installation

By the customer on the basis of the release notice

Documentation

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

Training

See course offer at:
http://training-mediaserver.ts.fujitsu.com/elearningmedia/catalog

Conditions

This software product is supplied to the customer under the conditions for the use of software products against instalments or a single payment

Ordering and delivery

This software product may be obtained from your local Fujitsu Technology Solutions GmbH regional office

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Published by:
Fujitsu Technology Solutions GmbH
ts.fujitsu.com