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Fujitsu Technology Solutions

ARCHIVE (BS2000/OSD)  
Version 9.0A  
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Release Notice

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# 1 General

ARCHIVE is a software product for BS2000/OSD with which you can backup and restore files and job variables.

This Release Notice is a summary of the major extensions, requirements and operating information with regard to ARCHIVE V9.0A. You will find a detailed description in the ARCHIVE V6.0A manual and changes in V9 can be found in the supplied README file.

The content corresponds to release status of April 2009.

This Release Notice is part of the product delivery package and can be printed as follows:

German version:

```
/PRINT-DOCUMENT FROM-FILE=SYSFGM.ARCHIVE.090.D -  
,LINE-SPACING=*BY-EBCDIC-CONTROL
```

English version

```
/PRINT-DOCUMENT FROM-FILE=SYSFGM.ARCHIVE.090.E -  
,LINE-SPACING=*BY-EBCDIC-CONTROL
```

Subsequent changes which become known will be updated in this file and supplied to customers.

If one or more previous versions are skipped when this product version is used, the information from the Release Notices (and README files) of the previous versions must be noted.

## 1.1 Ordering

ARCHIVE V09.0A can be ordered from your local distributors and is subject to the general terms and conditions of the software product use and service agreement.

## 1.2 Delivery

The ARCHIVE V09.0A files are supplied via SOLIS. The current file and volume characteristics are listed in the SOLIS2 delivery cover letter.

The following files are part of the delivery:

SYSPRG.ARCHIVE.090	Load module (TU program)
SYSFGM.ARCHIVE.090.D	Release Notice (German)
SYSFGM.ARCHIVE.090.E	Release Notice (English)
SYSLIB.ARCHIVE.090	Macro library with ARCHIVE macro
SYSLNK.ARCHIVE.090	Load module library for non-privileged part of ARCHIVE
SYSPAR.ARCHIVE.090	Parameter file with defaults for the main operands
SYSPRG.ARCHIVE.090.DIRCONV	Conversion program for directory files
SYSTEMS.ARCHIVE.090	Message file
SYSMSH.ARCHIVE.090	ISAM file with help texts
SYSNRF.ARCHIVE.090	NOREF file for REP processing when loading the subsystem
SYSRME.ARCHIVE.090.D	README file (German)
SYSRME.ARCHIVE.090.E	README file (English)
SYSRMS.ARCHIVE.090	Object corrections RMS format
SYSSDF.ARCHIVE.090	Subsystem syntax file with START-ARCHIVE command
SYSSII.ARCHIVE.090	IMON structure and installation information file
SYSSSC.ARCHIVE.090	Subsystem declarations
SYSLNK.ARCHIVE.090.TPR	Load module library for privileged ARCHIVE part on /390 architecture
SPMLNK.ARCHIVE.090.TPR	Load module library for privileged ARCHIVE part on SPARC64 architecture
SKMLNK.ARCHIVE.090.TPR	Load module library for privileged ARCHIVE part on X86 architecture

### 1.3 Documentation

The following documentation is available for ARCHIVE V09.0A: Since no new user guide has been published for ARCHIVE V09.0A, the previous user guide for ARCHIVE V06.0A must be used.

All changes with respect to the user guide are included in the README files.

SYSRME.ARCHIVE.090.D	README file	(German)
SYSRME.ARCHIVE.090.E	README file	(English)
ARCHIVE V06.0A Benutzerhandbuch		(German)
	Order number: U3292-J-Z125-6	
ARCHIVE V06.0A User Guide		(English)
	Order number: U3292-J-Z125-6-76	

HSMS operations using ARCHIVE are described in the HSMS V09.0A user guide.

If MAREN is used for administrating tapes, refer to the user guide for the version of MAREN used.

The ARCHIVE documentation is also available in German and English on CD-ROM under the title BS2000/OSD SoftBooks.

The documentation is available as online user guide on

<http://manuals.ts.fujitsu.com>

or can be ordered with extra costs on:

<http://manualshop.ts.fujitsu.com>

## 2 Software extensions

Changes in ARCHIVE that only affect the functionality of HSMS operations are described in the HSMS documentation, in particular the HSMS V09.0A user guide. The changes and special features of ARCHIVE V09.0A with respect to the previous version ARCHIVE V06.0A are also described in the README files SYSRME.ARCHIVE.090.D/E.

### 2.1 Extensions from 8.0B to 9.0A

- Usage of large disk IOs with D3435-NK  
For further performance enhancements large disk IOs with a size of 240 pampages are used while saving and restoring data on D3435-NK disk drives (maximum size until now 128 pampages).  
Only in connection with BS2000-OSD V8.0A !!
- Long term fixation of IO buffer  
For further performance enhancements as well, for each request a unique long term fixation of IO buffer for disk and tape IOs is implemented instead if a fixation/defixation for each single IO.  
Only in connection with BS2000-OSD V8.0A !!
- Performance enhancements while saving and restoring data  
Within the ARCHIVE subtask a temporally delayed CLOSE of the just handled file is issued after the reading access while waiting for the next file to be handled.

### 2.2 Hints for using Tape Encryption

In connection with BS2000-OSD V8.0A, MAREN V12.0A and LT04 tape drives a customer related tape encryption is possible to avoid illegal access to "stolen" tapes. Tape encryption can easily be used by declaring a special volume type (TAPE-U4E) within ARCHIVE.

Further information concerning tape encryption can be obtained from the MAREN V12.0A user manuals.

## 3 Technical information

### 3.1 Resource requirements

The following storage space is required for ARCHIVE operation:

Disk storage space (static) : less than 10 MB  
Disk storage space (dynamic): less than 10 MB  
Virtual address space (memory class 5): more than 64 MB

### 3.2 Software configuration

ARCHIVE V9.0A will run under BS2000/OSD as of V6.0A.

HSMS V09.0A is required for HSMS operation with ARCHIVE V9.0A.

If MAREN is used for tape administration, MAREN as of V10.0A is required (V12.0A onwards recommended).

For PLAM, a version as of V3.3A is needed.

### 3.3 Product installation

The installation of the product ARCHIVE 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.

If the product is not installed with the installation monitor IMON the following instructions for the product installation have to be followed in addition to the information provided in the delivery cover letter:

- The file SYSPRG.ARCHIVE.090 must be renamed to \$.ARCHIVE.
- The file SYSPRG.ARCHIVE.090.DIRCONV must be renamed to \$.DIRCONV.
- The ARCHIVE subsystem catalog (SYSSSC.ARCHIVE.090) is merged into the BS2000 subsystem catalog.

- The name of the ARCHIVE syntax file (SYSSDF.ARCHIVE.090) is entered into the SDF parameter file. The syntax file is activated by SDF with the MODIFY-SDF-PARAMETERS command. The DIRCONV statements and the START-ARCHIVE command are defined in the syntax file.
- The name of the ARCHIVE message file (SYSMES.ARCHIVE.090) is entered into the MIP parameter file. The MIP parameter file is activated by MIP (Message Improvement Processing).
- The ISAM file SYSMSH.ARCHIVE.090 must be sharable on TSOS ID. It contains the German and English help texts that can be called up with the ARCHIVE HELP statement.

### **3.4 Product use**

Information on using ARCHIVE V09.0A can be found in the ARCHIVE V06.0A user guide. ARCHIVE V09.0A should be used to replace earlier ARCHIVE versions under BS2000/OSD as of V6.0A. For HSMS operation, there is a fixed coupling with HSMS V9.0A.

### **3.5 Obsolete functions (and those to be discontinued)**

No functions have been discontinued since the previous version ARCHIVE V08.0B.

### **3.6 Incompatibilities**

#### **3.6.1 Generally**

ARCHIVE V09.0A is fully compatible to ARCHIVE from V04.3A to V8.0B, regarding both operations and the directories and savefiles.

Forward compatibility is also assured. Backups made with ARCHIVE V09.0A can be restored with earlier ARCHIVE versions, apart from backups using large tape blocks. These backups can only be created and read with ARCHIVE >= V07.0B and only under BS2000/OSD V6.0A onwards.

#### **3.6.2 SYSPAR.ARCHIVE.090**

The default setting of the tape-block-size for MBK of currently 32K or STD has been altered with ARCHIVE V9.0A to 256K or BIG. The default value is stored in the ARCHIVE parameter file SYSPAR.ARCHIVE.090 represented by the parameter BLOCK-SIZE-T-C (BLOCK-SITE-T-C=BIG).

The large tape blocks provide a much better tape performance. 256K tape blocks are supported as of BS2000-OSD V6.0A. ARCHIVE automatically uses 32K tape blocks for devices which does not support 256K blocking (long tapes or TAPE-C1, TAPE-C2). ARCHIVE always uses 256K blocking for devices supported with BS2000-OSD as of V6.0A. Safefiles are always continued with the previously used blocking size.

The standard tape block size stored in SYSPAR.ARCHIVE.090 is always used if the ARCHIVE command or archiv definition contain no value or the value STD.

If backup tapes must be shared between BS2000-OSD as of 6.0A and lower version or backup tapes are exchanged with other localities the customer manually must modify the ARCHIVE parameter file and change BLOCK-SIZE-T-C to 32K blocking (BLOCK-SIZE-T-C=STD).

### **3.7 Restrictions**

There are no restrictions, particularly not to earlier versions from V04.3A to V08.0B.

### **3.8 Procedure in the event of errors**

If an error occurs, the following error documentation will be required for diagnostic purposes:

- ARCHIVE statement log
- A detailed description of the error condition, stating whether and how the error can be reproduced.
- ARCHIVE report
- ARCHIVE checkpoint file in the case of PROCESS
- ARCHIVE directory file, if used and needed
- ARCHIVE Rep file
- Dump (if available)
- Console logging (CONSLOG)

If the problem occurs in connection with backup tapes, the tapes should be kept (not overwritten) until final diagnosis of the problem cause.

If necessary, development may request a trace. This must be created with the /START-ARCHIVE-TRACE, /MODIFY-ARCHIVE-TRACE and /STOP-ARCHIVE-TRACE commands. Please contact service or development for further information about these commands.

For improved diagnosis of communication problems with HSMS-CL, ARCHIVE provides a trace, which is stored as POSIX file /tmp/FADTW.wtrace.<date>.<time>.<no.>. If such communication problems occur, these files with the relevant time stamp should be sent to the service organisation too.

## **4 Hardware support**

ARCHIVE V9.0A can be used on all systems supported by BS2000/OSD as of V6.0A and, in particular, also on systems with SPARC64 and X86 architecture.

ARCHIVE V9.0A supports all disk and tape types that are also supported by BS2000/OSD as of V6.0A.