

# Fujitsu Software BS2000 HSMS

Version 12.0F

January 2026



## Release Notice

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# 1 General

This Release Notice is a summary of the major extensions, dependencies and operating information with respect to HSMS V12.0F and ARCHIVE V12.0F under the B2000 operating system.

No separate release notice will be delivered to ARCHIVE. The content of ARCHIVE is included in this Release Notice.

The release level is that of January 2026.

This and other Release Notice(s) are available online at <https://bs2manuals.ts.fujitsu.com/>.

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

## 1.1 Ordering

HSMS V12.0F is a component of the delivery unit BS2000 OS DX V1.0 (delivery unit BS2OS.HSMS V1.0) [and cannot be ordered separately].

## 1.2 Delivery

The HSMS V12.0F files are supplied via SOLIS.

The following release units are part of the HSMS V12.0F delivery scope:

HSMS	V12.0F
ARCHIVE	V12.0F

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

## 1.3 Documentation

The documentation is available on the Internet at

<https://bs2manuals.ts.fujitsu.com/>.

There you will find both individual manuals and (under the "Softbooks" tab) the ISO image of a DVD with the entire inventory.

The following documentation is available for HSMS V12.0F:

HSMS Volume 1, Functions, Management and Installation  
HSMS Volume 2, Statements

The following documentation is available for ARCHIVE V12.0F:

ARCHIVE User Guide

## 2 Software extensions

HSMS V12.0F is a further development of HSMS V12.0E and offers the following main extensions and enhancements compared to the previous version HSMS V12.0E04:

### Support for WORM Volumes

**WORM (Write Once, Read Many)** refers to a storage concept in which data on a WORM volume can be written only once and, after that, cannot be modified or deleted, but can be read any number of times.

**HSMS/ARCHIVE** supports backup/export to and restore/import from WORM volumes (volumes of device type **TAPE-U4W**). HSMS considers that volumes which have already been written cannot be overwritten or appended to.

### Notes:

- WORM volumes cannot be used for migration or version backup.
- The **TAPE-U4W** device type cannot be used as the default **S2-DEVICE-TYPE** for \*MIGRATION or \*VERSIONBACKUP archives.
- **TAPE-U4W** volumes cannot be added to the volume pools of these archive types.
- Save files on a WORM volume cannot be continued (SAVE-FILE=\*CONTINUE(..) is rejected).

### Restrictions:

New media must be initialized before first use. During initialization, the protection period preconfigured for WORM volumes of a volume group in the ETERNUS CS is activated. Until the protection period has expired, or the protection expiration date has been reached, it is not possible to delete the tape in the ETERNUS CS.

In MAREN, the protection period or the protection expiration date is only calculated when the tape is opened for writing and data is written, for example as part of a save. It is therefore recommended to initialize volumes only shortly before their use, so that the protection expiration date displayed in MAREN matches the protection period in the ETERNUS CS.

This restriction will be removed with the general customer release as part of SP 26.1. From then on, MAREN will be able to calculate the protection expiration date during tape initialization and thus determine it automatically and correctly.

In general, it is recommended to write to the WORM volume promptly after initialization so that the protection period covers the user's planned usage timeframe. As usual, the user controls data retention via the expiration date or the retention period. The user has no influence on the protection period in the ETERNUS CS.

## 3 Technical information

### 3.1 Resource requirements

The following storage space is required for HSMS operation:

Static disk storage:  
less than 26MB

Dynamic disk storage (for request file and directories):  
depending on how extensive the backup operation is

Memory requirements for the subsystems:  
Class4 memory: 4,5 MB (SU /390)  
13 MB (SU x86)

Special hardware/firmware/processor/real main memory:  
not relevant

### 3.2 Software configuration

- HSMS V12.0F requires OS DX V1.0C.
- optional MAREN for tape administration as of V12.6C.

### 3.3 Product installation

Installation of the product HSMS with the IMON installation monitor is mandatory. You must follow the information concerning installation in the delivery cover letter and in the product documentation as well as the information in this Release Notice.

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

### 3.4 Product use

#### **SYSPAR.ARCHIVE.120**

The default definition can be displayed by the ARCHIVE statement SHOW-DEFAULT in dialog mode.

The file is made available in the frame of delivery and may be adjusted to customers' requirements.

Note that changed ARCHIVE parameters take effect only after a new start of subsystem ARCHIVE.

### 3.5 Discontinued functions (and those to be discontinued)

### 3.6 Incompatibilities

#### 3.6.1 General

This section lists the incompatibilities with the previous version of HSMS and ARCHIVE.

The HSMS control file of a previous versions is only compatible upwards for subsequent use while switching to HSMS V12.0F. The control file of the previous version must be saved to be prepared in the case of a later downgrade to the previous version (also for switching back to HSMS V12.0E, V12.0D, V12.0C, V12.0B or V12.0A). At loading time of the HSMS subsystem an invalid control file will produce the abortion of this loading instead of a switching to DEFINE-SHOW mode.

Generally, an existing request file must be deleted before switching to a different HSMS and ARCHIVE-version.

### 3.7 Restrictions

None

### 3.8 Procedure in the event of errors

If an error occurs, the following error documents are needed for diagnostics:

#### 3.8.1 General documents

- A detailed description of the error condition, stating whether and how the error can be reproduced.
- Dump (if available)
- CONSLOG
- SERSLOG file
- REP files for HSMS and ARCHIVE

#### 3.8.2 HSMS

- Runtime logging (SYSOUT protocol)
- HSMS report file ("REPORT=FULL")
- DIRECTORY file, if there are write/read or SHOW-ARCHIVE errors
- ARCHIVE checkpoint file, if the error occurred during write or read jobs
- HSMS trace (can be created with following HSMS statements)
 

```
//START-TRACE
  DOMAIN = *ALL / list-poss(32): *REPOSITORY /
 *MESSAGES / *SHARE-PVS / *STATEMENTS / TSN = *ALL /
 <alphanum-name 1..4>
 //STOP-TRACE
 CLOSE-MODE = *NORMAL-CLOSE / *PSEUDO-CLOSE
```

#### 3.8.3 ARCHIVE

- ARCHIVE statement log
- ARCHIVE report
- ARCHIVE checkpoint file in the case of PROCESS
- ARCHIVE directory file, if used and needed
- Input tapes in case of, for instance, ARC0180, ARC0777,ARC0778
- Console logging (CONSLOG)
- If necessary a trace can be ordered by the development department:
 

```
/START-ARCHIVE-TRACE
```

```
(*ALL or list possible: *DEVICE or *MULTIPLEXING or
*PACKET or *SYNCRONIZATION or *PLAM or *MEMORY or
*DIRECTORY / default: *ALL)
/MODIFY-ARCHIVE-TRACE
(*ALL or list possible: *DEVICE or *MULTIPLEXING or
*PACKET or *SYNCRONIZATION or *PLAM or *MEMORY or
*DIRECTORY / default: *ALL)
/STOP-ARCHIVE-TRACE
```

## **4 Hardware requirements**

HSMS V12.0F runs on all business servers supported by BS2000 as of OS DX V1.0C.