
Fujitsu Technology Solutions

SPACEOPT (BS2000/OSD)
Version 4.0B
Mai 2009

Release Notice

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1 General

The product SPACEOPT gives the system administrator an efficient means of optimizing disk space on single volumes or all volumes of a pubset. The main advantage of SPACEOPT is that disk storage can be reorganized during operation and without the need for additional intermediate storage. The aim of SPACEOPT is to create the largest possible contiguous areas of free storage within a volume, so that fewer extents are required to store large files. Regular use of SPACEOPT can prevent a situation occurring where the level of fragmentation on the disks is so high that no more contiguous space can be found for large files, and these files can no longer be created. SPACEOPT significantly improves the utilization of disk volumes (pubset disks).

This Release Notice is a summary of the major dependencies and operating information with respect to SPACEOPT 4.0B under the (BS2000/OSD) *) operating system.

*) BS2000/OSD (R) is a trademark of Fujitsu Technology Solutions.

The release level is that of Mai 2009.

This Release Notice is also supplied as a file in uppercase and lowercase. Customers will receive an updated version of this file should any subsequent changes be made.

To print this file, use

```
/PRINT-DOCUMENT FROM-FILE=SYSFGM.SPACEOPT.040.E, DOC-FORM=  
*TEXT (LINE-SPACING=BY-EBCDIC-CONTR)  
(English version).
```

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

SPACEOPT 4.0B 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 SPACEOPT 4.0B files are supplied via SOLIS.

The following delivery groups are part of the SPACEOPT 4.0B delivery scope:

The following delivery components are required regardless of the HSI:

Delivery components	Product description:
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SYSFGM.SPACEOPT.040.D	Release Notice (German)
SYSFGM.SPACEOPT.040.E	Release Notice (English)

SYMES.SPACEOPT.040	Message file
SYSRMS.SPACEOPT.040	RMS delivery set
SYSSDF.SPACEOPT.040	SDF syntax file
SYSSSC.SPACEOPT.040	Subsystem catalog file

The following delivery components are only required on S servers:

Delivery components	Product description:
SYSLNK.SPACEOPT.040	Load module file for /390 systems

The following delivery components are only required on SX servers:

Delivery components	Product description:
SPMLNK.SPACEOPT.040	Load module file for systems with SPARC architecture

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

1.3 Documentation

The following documentation is available for SPACEOPT 4.0B:

User Guide:
SPACEOPT V3.0 Order number: U41073-J-Z125-3 German
SPACEOPT V3.0 Order number: U41073-J-Z125-3-76 English

The BS2000/OSD basic configuration manuals are also required to operate SPACEOPT.

The documentation is available in the form of online manual at <http://manuals.ts.fujitsu.com>. or can be ordered at extra cost at <http://manualshop.ts.fujitsu.com>.

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

This Release Notice is available in the Internet under the following URL:
<http://manuals.ts.fujitsu.com>.

2 Software extensions

Only the extensions and enhancements since the previous version SPACEOPT V2.0B are described in the section below

2.1 Reorganizing open files

The following commands have been extended by the parameter PROCESS-OPEN-FILES:
CLEAR-VOLUME
REDUCE-FILE-EXTENT-NUMBER
START-SPACEOPT-JOB

If the PROCESS-OPEN-FILES=YES parameter is set, open files are also included in the reorganization.

Manual reference: SPACEOPT V3.0; chapter 6 Commands

2.2 Size adjustment of volumes

Actions in BS2000 (e.g. disk migration with DRV) may cause the volume in BS2000 to not fully utilize the physical size available in the disk system. The new command

ADAPT-PUBSET-SIZE
is now provided to improve this.

You will find the supported disk formats in chapter 4 Hardware support.

Volumes enlarged by ADAPT-PUBSET-SIZE cannot be imported in all BS2000-OSD versions (see chapter 3.6 Incompatibilities)

Manual reference: SPACEOPT V3.0; chapter 6 Commands

3 Technical information

3.1 Resource requirements

Approximately 10 KB class 4 memory is required for buffers and approximately 50 KB class 5 memory per thousand extents is required for each optimization task,.

3.2 Software configuration

SPACEOPT will run as of BS2000/OSD-BC V7.0 or OSD/XC V3.0.

3.3 Product installation

Installation of the product SPACEOPT with the IMON installation monitor is mandatory. The information concerning installation in the delivery cover letter and in the product documentation must be followed as well as the information given below.

3.4 Product use

Before you use SPACEOPT for the first time for a pubset, you must create the SYSSOPT ID in this pubset with no special privileges.

3.5 Obsolete functions (and those to be discontinued)

none

3.6 Incompatibilities

A pubset enlarged with ADAPT-PUBSET-SIZE, cannot be imported in BS2000-OSD < V3.0. In BS2000-OSD V3.0 you additionally need correction A0389397-215.

To cache files with DAB on the enlarged pubset, you need correction A0520042 in DAB <= V8.0.

This correction is not available for DAB V5.1 or DAB V6.1.

3.7 Restrictions

Private disks have been excluded from reorganization with SPACEOPT.

Special precautions have been met for interaction between SPACEOPT and the product CCOPY to prevent error conditions. If SPACEOPT is used together with CCOPY, it is ensured that all files involved in the CCOPY session have been excluded from reorganization by SPACEOPT

3.8 Procedure in the event of errors

If an error occurs, the created system dump, the CONSLOG file and the SERSLOG file will be required for diagnostic purposes.

4 Hardware support

The following restrictions apply for the disk peripherals:
The new "Volume increase" function is only supported for the following disk types:
D3490-10, D3490-20, D3490-30, D3490-40, D3480, D348E, D348F and D3435.