



Fujitsu Siemens Computers GmbH

SHC-OSD  
\*3 Version V6.1A03  
\*3 November 2008

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  
\*3 SHC-OSD V6.1A03 under the BS2000/OSD \*) operating system.

The SHC-OSD subsystem ('SYMMETRIX-HOST-COMPONENT') is the BS2000 host component for the Symmetrix disk controllers from EMC. It includes commands for comfortable administration (settings and system information) of these disk controllers. You can request information about the controllers themselves, or about individual disks (emulated BS2000 volumes) in these controllers. You can make settings for the Symmetrix functions SRDF (Symmetrix-Remote-Copy-Facility) and TimeFinder/Mirror (BCV) TimeFinder/Snap and TimeFinder/Clone. With SRDF, BS2000 volumes can be mirrored on other Symmetrix disk controllers that may be at a remote location. With TimeFinder, you can make additional copies of a BS2000 volume that you can then separate from the original volume at a particular time and use for other purposes (e.g. backing up).

To print the file use:

```
/PRINT-DOCUMENT FROM-FILE=SYSFGM.SHC-OSD.061.D,DOC-FORM=*TEXT(-  
/ LINE-SPACING=BY-EBCDIC-CONTR)          (German version) or  
/PRINT-DOCUMENT FROM-FILE=SYSFGM.SHC-OSD.061.E,DOC-FORM=*TEXT(-  
/ LINE-SPACING=BY-EBCDIC-CONTR)          (English version)
```

All BS2000 product Release Notices are available in the Internet. This one is available under the following URL:  
<http://manuals.fujitsu-siemens.com>

Does this version skip one or more upgrades then the references of these release documents have also be taken into account.

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\*) BS2000/OSD is a trademark of Fujitsu Siemens Computers.

## 1.1 Ordering

- \*3 SHC-OSD V6.1A03 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

- \*3 The SHC-OSD V6.1A03 files are supplied via SOLIS.

The following delivery components are required:

|                          |                                    |
|--------------------------|------------------------------------|
| SYSFGM.SHC-OSD.061.D     | Release Notice (German)            |
| SYSFGM.SHC-OSD.061.E     | Release Notice (English)           |
| SYSMES.SHC-OSD.061       | Message file                       |
| SYSRMS.SHC-OSD.061       | REP depot                          |
| SYSSDF.SHC-OSD.061       | SDF syntax file                    |
| SYSLIB.SHC-OSD.061       | Library with LLM objects           |
| SYSSSC.SHC-OSD.061       | Subsystem declarations             |
| SYSSMB.SHC-OSD.061       | Symbol file for DAMP               |
| SYSDMP.SHC-OSD.061       | Procedure file for DAMP            |
| SYSLNK.SHC-OSD.061       | Module library for S line          |
| SYSENT.SHC-OSD.061       | Enter file for SHC-OSD user task   |
| SYSPRG.SHC-OSD.061       | Program file for SHC-OSD user task |
| SYSSPR.SHC-OSD.061       | Start proc. for SHC-OSD user task  |
| SPMLNK.SHC-OSD.061       | Module library for SX line         |
| SYSPAR.SHC-OSD.061.PTH   | Parameter file                     |
|                          |                                    |
| SINLIB.SYMAPI.065        | Shell script for SYMAPI            |
| SPMLNK.SYMAPI.065.DRIVER | Module library for SX line         |
| SYSLNK.SYMAPI.065.DRIVER | Module library for S line          |
| SYSLIB.SYMAPI.065        | Library for SYMAPI                 |
| SYSRMS.SYMAPI.065.DRIVER | REP depot                          |
| SYSSSC.SYMAPI.065.DRIVER | Subsystem declarations             |

## 1.3 Documentation

- \*3 The following documentation is available for SHC-OSD V6.1A03:  
SHC-OSD V6.1/SCCA-BS2 V1.1, Order No. U41000-J-Z125-7 (German)  
or  
SHC-OSD V6.1/SCCA-BS2 V1.1, Order No. U41000-J-Z125-7-76 (English).

Any changes that occur too late for inclusion in the printed manuals will be supplied in 'README' files.

## 2 Software extensions

\*3 SHC-OSD V6.1A03 is a correction version of SHC-OSD V6.1A02.

This version includes appreciable improvements in performance over the previous versions.

## 3 Technical information

A pubset can only be automatically renamed for SINGLE-FEATURE-PVS.

To speed up the copy process (when equalizing, reconstructing and synchronizing) for restoring volumes, the affected volumes should be spread over multiple disk adapters.

- \*3 SYMAPI V6.5A03 is required as of SHC-OSD V6.1A03.

### 3.1 Resource requirements

- \*2 Approximately 200 MB for SYMAPI in the POSIX file system. The paging area should also be increased by around 256 MB.
- \*2 The address space in the user catalog must be at least 512 MB for the TSOS ID.
- \*2 the TSOS ID.

### 3.2 Software configuration

- \*3 SHC-OSD V6.1A03 is executable as of BS2000/OSD V5.0 and OSD/XC V1.0.  
The respective current correction level must be used.
- \*3 Required is correction package 2/2008. Released on November 2008.
- POSIX as of V5.0A37, POSIX-SOCKETS as of V5.0A37, CRTE-BASYS as of V1.5A50, CRTE as of V2.5A50 and PTHREADS as of V1.0C08 is required in BS2000/OSD V5.0.
- \*3 POSIX as of V6.0A39, POSIX-SOCKETS as of V6.0A39, CRTE-BASYS as of V1.6A10, CRTE as of V2.6A10 and PTHREADS as of V1.0C08 is required in BS2000/OSD V6.0.
- \*3 POSIX as of V7.0A39, POSIX-SOCKETS as of V6.0A39, CRTE-BASYS as of V1.7A10, CRTE as of V2.7 and PTHREADS as of V1.0C08 is required in BS2000/OSD V7.0.

### 3.3 Product installation

The product must be installed with the Installation Monitor IMON. The information concerning installation in the delivery cover letter and in the product documentation must be followed. The necessary inputs and the sequence of the installation are described in the IMON documentation.

New installation and upgrading from V6.1A02 to V6.1A03

IMON call for installation

- 1) Start SHC-OSD without SHUTDOWN

```
/STOP-SUBSYSTEM SHC-OSD          (not for new installation)
/MODIFY-SDF-PAR *TEMP,*SUB(SYSSDF.SHC-OSD.061,SHC-OSD)
/MODIFY-MIP-PAR *TEMP,ADD=SYSMES.SHC-OSD.061
/START-SSCM      (create new subsystem catalog)
//START-CATALOG-CREATION #shc
//ADD-CATALOG SYSSSC.SHC-OSD.061
//ADD-CATALOG SYSSSC.SYMAPI.065.DRIVER
//CHECK-CATALOG
//SAVE-CATALOG
//END
```
- \*3 

```
/REMOVE-SUBSYSTEM SHC-OSD,VERSION=6.A02 (not for new inst.)
/ADD-SUBSYSTEM #shc,*NEW
/UNLOCK-PRODUCT-VERSION SYMAPI,VERSION=06.5A03
/UNLOCK-PRODUCT-VERSION SHC-OSD,VERSION=06.1A03
/START-POSIX-INSTALLATION      (installation in POSIX)
  execute "Install packages on POSIX"
/START-SUBSYSTEM SYMAPI-D
/START-SUBSYSTEM SHC-OSD
```
- 2) With SHUTDOWN and restart of BS2000

```
/START-POSIX-INSTALLATION      (installation in POSIX)
  execute "Install packages on POSIX"
  restart BS2000
```
- \*3 Update SHC-OSD V6.1A02 to SHC-OSD V6.1A03

```
/STOP-SUBSYSTEM SHC-OSD
IMON call (IMON installation)
```
- \*1 Please check, if the file options.FSC in POSIX filesystem
- \*1 var/symapi/config has to be copied to file options.  
Customer-specific changes must be reinstated.

If at least correction versions SM2 V14.0B06 or SM2 V15.0A01 are not in use, the STORAGE-SYSTEM measurement program in SM2 must be terminated before installing SHC-OSD. If the installation was made with the STORAGE-SYSTEM measurement program still active, the subsequent faulty state can be corrected by restarting the SM2 and SHC-OSD subsystems.

### **3.4 Product use**

\*3 The simultaneously use with SCCA-BS2 needs an upgrade to Version 1.1A03.

It is imperative that you observe the information on gatekeeper devices in the manual  
The latest correction package must be installed in all BS2000/OSD versions.

\*3 The Rep A0567760 (BS2000-GA) has to be installed also.

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

none

### **3.6 Incompatibilities**

none

### **3.7 Restrictions**

With channel type S, the gatekeeper devices must be entered in the file /var/symapi/config/gkselect to allow earlier detection of a Symmetrix box failure.

With channel type S and device type D3435 (FBA) you only can use TimeFinder/Snap function, if Enginuity 5671 respectively 5771 or higher is available.

### 3.8 Procedure in the event of errors

If errors occur in the SHC-OSD subsystem, you should generate the following documentation:

- NDMDAMP
- System dump or SLED (if necessary)
- CONSLOG log
- SYSREP.SHC-OSD.061 file
- SERSLOG file for the relevant session
- HELFILE for the relevant session
- SYMAPI logging file  
(can be made available in BS2000 with the  
(SINLIB.SYMAPI.064,SAVELOGS.PROC) procedure. The file name  
in BS2000 then begins with SYSLOG.SYMAPI.\*).

In the case of a hardware or software failure, devices (also gatekeeper devices) may stay locked. After a system restart, you should therefore check whether UNLOCK-DISK is required (with SHOW-DISK-STATUS . . . ,INFO=\*ALL) and with SHOW-SYMMETRIX-CONFIG SERIAL-NUMBER=xxx,INFO=LOCKS, whether global SYMMETRIX locks are held (remedy: UNLOCK-SYMMETRIX) or with SHOW-SYMMETRIX-DEVICE-CONFIG SERIAL-NUMBER=xxx,INFO=LOCKED-DEV whether device-specific locks are held (can be reset with UNLOCK-SYMMETRIX-DEVICE).

## 4 Hardware support

\*3 The SHC-OSD V6.1A subsystem tolerates Symmetrix controllers with a Enginuity (microcode) level of 5568, 5670, 5671, 5771, 5772 and 5773.  
At least subcode 52 with fix 17047 is required for MC 5568.

You must have the appropriate licenses from EMC to use SRDF and/or TimeFinder.  
EMC technicians must make the necessary settings in the Symmetrix controllers for using SRDF and/or TimeFinder.



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