

FUJITSU Software BS2000 Support for EMC VMAX20K/40K™ Product Family

April 2016

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 connections of EMC<sup>2</sup> disk controllers of the VMAX20K/40K™<sup>1</sup> product family under the BS2000 operating system.

\*1 The release level is of: April 2016.

\*1 Changes to release level August 2012 are marked with \*1

This and further ongoing release notices are contained in the SoftBooks-DVD and available online by <http://manuals.ts.fujitsu.com>.

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 also be noted.

The disk controllers of the VMAX20K/40K™ product family of the EMC<sup>2</sup> company can be used as peripheral systems in a BS2000 environment.

The functions supported by BS2000 comprise, among conventional I/O functions, the following features (managed and monitored in BS2000 by SHC-OSD):

- Symmetrix-Remote-Copy-Facility (SRDF)
- TimeFinder/Mirror (BCV)
- TimeFinder/Clone.

Additionally the following release notices have to be taken into account (depending on the installed hardware and software):

S-Servers:

\*1           SYSFGM.BS2OSD.100.E  
               SYSFGM.BS2OSD.090.E  
               SYSFGM.BS2OSD.080.E

SE Servers:

\*1           SYSFGM.OSDXC.100.E  
               SYSFGM.OSDXC.095.E  
               SYSFGM.OSDXC.085.E

SQ-Servers:

\*1           SYSFGM.OSDXC.100.E  
               SYSFGM.OSDXC.090.E  
               SYSFGM.OSDXC.041.E

In case SHC-OSD is used:

              SYSFGM.SHC-OSD.xxx.E

## 1.1 Ordering

The purchase can be ordered via your local distributors or the manufacturer company EMC<sup>2</sup>.

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<sup>1</sup> 'VMAX' is a registered trademark of EMC<sup>2</sup> corporation, Hopkinton/MA (USA).

## 1.2 Delivery

Delivery and Installation are carried out by the manufacturer company EMC<sup>2</sup>.

## 1.3 Documentation

The documentation for the VMAX20K/40K™ disk controller is provided by the supplier EMC<sup>2</sup>.

For information about the use of SHC-OSD, view the release notice SYSFGM.SHC-OSD.xxx.E.

Information about the connection of a VMAX20K/40K™ disk controller to a BS2000/OSD environment can be obtained by EMC Support Matrix.

# 2 Software-Extensions

## 2.1 Extensions for VMAX™ Storage Systems

### Support of the Storage-System VMAX20K/40K™:

SHC-OSD as of V11.0A supports the EMC<sup>2</sup> Storage-System VMAX20K/40K™ as of OSD/XC V8.5 for SE Servers

SHC-OSD as of V9.0A supports the EMC<sup>2</sup> Storage-System VMAX20K/40K™ as of OSD/BC V7.0B for S-Servers  
OSD/XC V4.1 for SQ-Servers.

# 3 Technical Information

## 3.1 Software-Configuration

Support is granted for:

SE Servers as of BS2000/XC V8.5

S-Servers as of BS2000 OSD/BC V7.0B, correction package 1/2012

SQ210 as of BS2000 OSD/XC V4.1, correction package 1/2012.

The lowest version of the Storage Host component is SHC-OSD V11.0A (SE Server).

The lowest version of the Storage Host component is SHC-OSD V9.0A02(S-/SQ-Server).

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

3.2.1 Discontinued servers: S190, S145, SQ100, SX160, SX100-D

3.2.2 Discontinued functions: SCCA-BS2

## 3.3 Restrictions

Lowest enginuity-version is e5876.82.57.

Path reconfigurations from BS2000/OSD in quick succession can lead to I/O errors (INCL).

During a BCV – split function ( Instant Split ), in particular cases SRNH (overrun) entries in the BS2000 HEL-file can occur.

Using SRDF Commands „Hold- / Set- / Resume-remote copy“) frequently, in particular cases EQCH (equipment check) entries in the BS2000 HEL-file can occur.

For further restrictions please view Release notice SYSFGM.SHC-OSD.xxx.E.

### 3.4 Procedure in the event of errors

In case of Hardware- or Firmware-errors, please contact the EMC<sup>2</sup> Service Desk. If a general error occurs in BS2000, please pay attention to the regarding instructions in the BS2000/OSD release notice. In the case of SHC-OSD problems the necessary error documents for diagnose are described in manual SHC-OSD V9.0.

## 4 Hardware-Requirements

This GA comprises exclusively Fibre Channel connections via FC-Switch.

Connectable BS2000 Servers:

VMAX20k: SE700, SE500, SE300, S210, S175, S200, S165, SQ210,

VMAX40k: SE700, SE500, SE300, S210, S175, S200, S165

The supported FC Switches are listed in the release notices of BS2000/OSD.

### 4.1 X2000 Requirements

- SQ200-Server and X2000 V5.2A minimum release 0703
- SQ210-Server and X2000 V5.3

### 4.2 Special Functions

In order to use SRDF and/or TimeFinder with VMAX™, the corresponding licenses must be installed.

For usage of SRDF- and/or TimeFinder (except TimeFinder/Clone), EMC<sup>2</sup> support staff must prepare the proper settings in the VMAX-Systems

The following combinations for SRDF connections are supported:

VMAX 20k/40k – VMAX20K/40K  
 VMAX 20k/40k – VMAX1  
 VMAX 20k/40k – DMX-4

## 5 Firmware-Levels

### 5.1 VMAX™ Storage-Systems

The following Enginuity and SYMAPI-Versions are supported:

Model	Enginuity	SYMAPI as of
VMAX 20K	e5876	V7.4
VMAX 40K	e5876	V7.4

### 5.2 Brocade FC-Switches

An FOS level as of v7.2.0a, released by FTS, has to be used.

1\*  
SQ200  
1\*

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