

FUJITSU Software BS2000 Support for ETERNUS DX500 S4/DX600 S4

April 2018

Release Notice

All rights reserved, including intellectual property rights.
Technical data subject to modifications and delivery subject to availability. Any liability that the data and illustrations are complete, current or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.

© 2018 Fujitsu Technology Solutions GmbH

Fujitsu and the Fujitsu logo are trademarks or registered trademarks of Fujitsu Limited in Japan and other countries. BS2000 is a trademark of Fujitsu Technology Solutions GmbH in Germany and other countries.

1 General	3
1.1 Ordering	3
1.2 Delivery	3
1.3 Documentation	3
2 Software-Extensions	4
3 Technical Information	4
3.1 Software-Configuration	4
3.2 Product use	4
3.3 Discontinued functions (and those to be discontinued)	4
3.4 Restrictions	4
3.5 Procedure in the event of errors	5
4 Hardware-Requirements	5
4.1 X2000 Requirements	5
4.2 Special Functions	5
5 Firmware-Levels	5
5.1 ETERNUS DX500 S4/DX600 S4 Storage-Systems	5
5.2 Brocade FC-Switches	5

1 General

This Release Notice is a summary of the major extensions, dependencies and operating information with respect to connections of Fujitsu disk controllers of the ETERNUS¹ DX500 S4 and DX600 S4 under the BS2000 operating system.

The release level is of: April 2018.

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 DX500 S4/DX600 S4 of the Fujitsu 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):

- Equivalent Copy (EC), QuickOPC and SnapOPC+
- Remote Replication via Remote Equivalent Copy
- Storage Cluster Option (SCO)
- Virtual Provisioning

Additionally, the release notices of OSD/BC, OSD/XC and SHC-OSD have to be taken into account (depending on the installed hardware and software):

1.1 Ordering

The purchase can be ordered via your local distributors or the manufacturer company Fujitsu.

1.2 Delivery

Delivery and Installation are carried out by the manufacturer company Fujitsu.

1.3 Documentation

The documentation for the ETERNUS DX500 S4/DX600 S4 disk controllers is provided by the supplier Fujitsu.

For information about the use of SHC-OSD, please refer to the corresponding manual and release notice.

Information about the connection of this disk controllers to a BS2000/OSD environment can be obtained by Fujitsu Server Connection Guide V08 (P3AM-5672-08ENZ0).

¹ 'ETERNUS' is a registered trademark of Fujitsu

2 Software-Extensions

ETERNUS DX500 S4 and DX600 S4 are supported in BS2000 as of OSD/XC V10.0A and as of SHC-OSD V13.0B in full functionality of SHC-OSD.

3 Technical Information

3.1 Software-Configuration

Support is granted for S-Server and SE Server. The respective current correction level of BS2000 must be used. At least required is:

- OSD/BC V10.0 resp. OSD/XC V10.0
as of correction package 2017, release date June 2017
- OSD/BC V11.0 resp. OSD/XC V11.0
as of release date July 2017

At S-Server and SU /390 with OSD/XC V10.0A the switchover of a storage cluster while running i/o may cause temporary error messages (EXC0857, NKVD014) for volumes of this cluster.

BS2000 OSD/BC V10.0 requires optional fixes to use the Storage Cluster Option with SU /390 and S server:

A0611672 (NKV)
A0611677 (BS2000-GA)
A0612287 (BS2000-GA)

The lowest version of the Storage Host component is SHC-OSD V13.0B.

3.2 Product use

Recommended procedure in case of firmware update on ETERNUS DX S4

Before starting any Concurrent Firmware update, the timeout value must be set on BS2000 systems to 150 seconds for all concerned disks and reset to value *DEFAULT after completion (command /MODIFY-IO-UNIT ,TIMEOUT=...).

The Concurrent Firmware Update for storage systems connected to BS2000 servers should definitely be done in „online / **automatic mode**“.

If the update in „online / **operator intervention mode**“ is unavoidable for technical reasons, make sure that all disks of the already updated CM are reconnected to BS2000 before you update the next CM. The availability must be ensured in cooperation with the BS2000 system administration and/or the BS2000 HW service (possibly connected remotely).

3.3 Discontinued functions (and those to be discontinued)

none

3.4 Restrictions

After a voltage breakdown of an ETERNUS DX500 S4/DX600 S4, Fibre Channel paths on S-Server or SU /390 might not become ‚available‘ under certain circumstances („/SHOW-DEVICE-CONFIGURATION“ reports „N.OP.“). In this situation, the affected Fibre Channels must be detached and subsequently be attached again. VM2000-configurations must use Monitor-VM and parameter SCOPE=*VM2000-GLOBAL.

3.5 Procedure in the event of errors

In case of Hardware- or Firmware-errors, please contact the Fujitsu Service Desk. If a general error occurs in BS2000, please pay attention to the regarding instructions in the OSD/BC resp. OSD/XC release notice. In the case of SHC-OSD problems, please refer to corresponding SHC-OSD manual.

4 Hardware-Requirements

This GA comprises exclusively FibreChannel connections via FC-Switch.

Connectable BS2000 Servers:
S-Sever and SE Server

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

4.1 X2000 Requirements

SE-SW as of V6.2

4.2 Special Functions

The respective hardware licenses are necessary for the "Thin Provisioning", "Automated Storage Tiering" and "Storage Cluster Option" functions. These are configured in the storage system resp. in ETERNUS SF.

In order to use replication functions, all the storage systems which employ them require corresponding hardware and software licenses.

The "Hardware Advanced Copy" license is required on the storage systems. The software licenses for managing the replication functions are controlled using the SHC-CM-LR and SHC-CM-RR products.

5 Firmware-Levels

5.1 ETERNUS DX500 S4/DX600 S4 Storage-Systems

Storage Firmware: for BS2000 generally available levels as of V10L80.

5.2 Brocade FC-Switches

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