

FUJITSU Software BS2000 Support for ETERNUS DX500 S5/DX600 S5

April 2020

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 Fujitsu disk controllers of the ETERNUS¹ DX500 S5 and DX600 S5 under the BS2000 operating system.

The release level is of: April 2020.

This and other current Release Notices are shipped on the SoftBooks DVD and are available online at <https://bs2manuals.ts.fujitsu.com>.

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):

The disk controllers DX500 S5/DX600 S5 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)
- Thin Provisioning

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 S5/DX600 S5 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 V12 (P3AM-5672-12ENZ0).

¹ 'ETERNUS' is a registered trademark of Fujitsu

2 Software-Extensions

ETERNUS DX500 S5 and DX600 S5 are supported in BS2000 as of OSD/XC V10.0A and SHC-OSD as of V14.0A in full functionality of SHC-OSD.

3 Technical Information

3.1 Software-Configuration

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

- OSD/XC V10.0A or. OSD/XC V11.0B
as of service pack SP19.2, release date November 2019
- OSD/XC V10.0A requires additional optional rep corrections when using the Storage Cluster Option on SU /390. Please note the corresponding the release notes.

The lowest version of the Storage Host component is SHC-OSD V14.0A.

3.2 Product use

Recommended procedure in case of firmware update on ETERNUS DX S5

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).

Recommended procedure in case of a voltage breakdown on ETERNUS DX S5

After a voltage breakdown of the storage system, Fibre Channel paths on SU /390 might not become ‚available‘ under certain circumstances (command “/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.

3.3 Discontinued functions (and those to be discontinued)

none

3.4 Restrictions

none

3.5 Procedure in the event of errors

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

- A detailed description of the error condition, indicating whether and how the error can be reproduced.
- If a general error occurs in BS2000, please pay attention to the regarding instructions in the OSD/BC resp. OSD/XC release notice.
- In case of SHC-OSD problems, please refer to corresponding SHC-OSD manual.
- The error must be reported to the appropriate service provider.
An incident will be opened with Second Level Support.

An AIS Connect connection is essential for diagnostics. [If this is not available, the service provider is entitled to invoice additional services rendered.]

4 Hardware-Requirements

This GA comprises exclusively FibreChannel connections via FC-Switch.

Connectable BS2000 Servers:
SE Server

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

4.1 X2000 Requirements

SE-SW as of V6.2SP1

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 storage systems which employ them, require the "Hardware Advanced Copy" license on the storage system.

5 Firmware-Levels

5.1 ETERNUS DX500 S5/DX600 S5 Storage-Systems

Storage Firmware: for BS2000 generally available levels as of V11L30.

5.2 Brocade FC-Switches

A FOS level v7.4.1d or higher, released for BS2000 Servers, must be used. Please note FUJITSU Server BS2000 FC-Switch support matrix.