Datasheet Fujitsu Software BS2000 ROBAR V7.7

FUĴITSU

Robot Archive Software

Automation of operation of archive systems in BS2000

In data centers with large data volumes there is usually a great number of magnetic media. For large-scale configurations manual methods of tape processing require an inordinate amount of time and effort for the handling and archiving of tapes.

Fujitsu Software BS2000 ROBAR manages and automates the media management on BS2000 servers in combination with the virtual archive system Fujitsu Storage ETERNUS CS.





Topics

Product characteristic

ROBAR represents the interface between the BS2000 systems and the archive system. It controls virtual archive systems in a multisystem environment with up to 110 BS2000 systems and up to 1024 tape cartridge devices for an archive system. Each guest system under VM2000 counts as a separate BS2000 system.

Each BS2000 system has access to selected functions of the archive system and is - with regard to the device quantity offered by the archive system an equal-rights customer for the archive system. ROBAR handles the ordering function for the archive system. The server-overlapping communication and coordination between the BS2000 systems and the archive system is handled via ROBAR-SV on the ROBAR server.

ROBAR controls the archive systems via the ABBA interface. The archive systems are connected via a TCP/IP connection (LAN) with the ROBAR server. The robotics of the archive system is also controlled via a TCP/IP connection.

ROBAR system

ROBAR consists of the following software components which only run as a unit together:

ROBAR-CL is the system-local connection component of a BS2000 system to the ROBAR server. This processes, among other items, the primary mounting/demounting jobs of the BS2000 customer for cartridge use.

ROBAR-SV runs on a SE Server integrated as add-on on the Management Unit or on a standalone PRIMERGY Server (native/VM), with the operating system Linux.

ROBAR-SV provides the connection between ROBAR-CL and the archive system; ROBAR-SV accepts the jobs (as messages), evaluates them using the message interpreter and forwards them for implementation to the archive system.

Archive systems

ROBAR supports the virtual archive system Fujitsu Storage ETERNUS CS8000:

The core of ETERNUS CS is a disk system as data cache that ensures not only extremely fast data access but also avoids possible and existing bottlenecks in a real tape robot system in combination with many virtual drives and logical volumes. Regarding the connected BS2000 systems the virtual archive system ETERNUS CS behaves like a real archive system with tape devices (type 3590E and LTO-4). ROBAR controls ETERNUS CS with its virtual tape cartridge devices via the so-called ABBA interface with special separate ROBAR rule file. ROBAR is the communication

interface between the BS2000 system and the virtual archive system. The BS2000 system reserves the virtual tape cartridge devices. It has direct and exclusive access just to the virtual tape cartridge device.

The virtual archive system ETERNUS CS can be placed before a real archive system with the real cartridge devices and volumes.

Operate with ROBAR

ROBAR-SV-Manager

To manage the ROBAR-SV instances the web application ROBAR-SV Manager is available for the ROBAR administrator respectively ROBAR operator. The following functions are offered, among others:

- an assistant to the gradual integration of instances
- the automatic restart of instances
- the filtering and sorting capability for multiple tables
- the configurable automatic updating of data on the Web-UI

Configuration file for ROBAR-SV

The ROBAR-SV parameters are set via a specific interface configuration file. For example, the tape cartridges to be managed by ROBAR, the BS2000 systems and their TNS names as well as the archive storage name must be specified in the file. The ROBAR-SV delivery scope includes sample configuration files.

ROBAR rule files

In order to react to the various tape processing requirements of a data centre you can define console messages and their processing by ROBAR. Specific device type job control files (so-called ROBAR rule files - RRF) are used to define the measures which the archive system should apply in specific situations.

Multiprocessing

The parallel processing of requests avoids wait times in the archive system and improves the usage regarding tape cartridge processing.

ROBAR in cooperation with MAREN

It is recommended to use the media administration Fujitsu Software BS2000 MAREN together with ROBAR; however, the use of MAREN is only compulsory for store management.

MAREN determines the cartridges that are free and can be overwritten based on dissable periods and issues its own mount instructions. This means that protected data cannot be overwritten by mistake.

MAREN checks access to data media. With each tape request MAREN checks whether the requesting user is allowed to actually use the requested data media.

Technical details

Requirements	
Technical requirements Hardware	Fujitsu Server BS2000 SE Serie, SE-SW as of V6.4 Supported Archiving systems: - ETERNUS CS80000 V8.1 SP1 / SP2 - ETERNUS CS80000 V9.0 (from ROBAR-SV V7.7B) Platforms for ROBAR-SV: - Management Unit of SE servers
Technical requirements Software	- standalone PRIMERGY Server (native/VM) SW-Configuration for ROBAR-CL (BS2000): (ROBAR-CL V7.7 can be used only with ROBAR-SV as of V7.6) BS2000 OS DX V1.0 and OSD/XC V11.0B as of SP 21.1
	 SW-Configuration for ROBAR-SV (Linux): (ROBAR-SV as of V7.7 can be used only with ROBAR-CL as of V7.6) Management Unit of SE servers: M2000 from V6.4 for standalone PRIMERGY: SLES 12 SP5 for x86_64 (order via Fujitsu) PCMX (part of data carrier ROBAR-SV-SP)
Requirements for the user	Knowledge of BS2000
Installation and operation	
Operating mode	Dialog and batch operation
Implementation language	C, Assembler
User interface	Commands in English, message texts and installation program in German/English (optional) ROBAR-SV-Manager and online help in German/English (optional)
Installation	By the customer according to the Release notice and Manual
Documentation and training	
Documentation	The manual and Release Notice for ROBAR are available on the manual server.
Training	See <u>course offer</u> (German)
Reference and delivery	
Conditions	This software product can be leased by the customer in accordance with the conditions for the use of software products.
Ordering and delivery information	The software product can be obtained from your local Fujitsu regional office.

Contact

Fujitsu BS2000 Services Email: <u>bs2000services@fujitsu.com</u> Website: <u>www.fujitsu.com/emeia/bs2000</u> 2022-11-30 EM EN

© Fujitsu 2022. All rights reserved. Fujitsu and Fujitsu logo are trademarks of Fujitsu Limited registered in many jurisdictions worldwide. Other product, service and company names mentioned herein may be trademarks of Fujitsu or other companies. This document is current as of the initial date of publication and subject to be changed by Fujitsu without notice. This material is provided for information purposes only and Fujitsu assumes no liability related to its use.