

Fujitsu Software BS2000 ROBAR-SV

Version 7.8A10

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Release Notice

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1 General

This Release Notice contains a summary of the major expansions, interdependencies and application notes pertaining to ROBAR-SV V7.8A10.

*05 The release level is that of December 2025.

*05 Changes to release level June 2025 are marked with *05
*04 Changes to release level June 2024 are marked with *04
*03 Changes to release level November 2022 are marked with *03
*02 Changes to release level November 2021 are marked with *02
*01 Changes to release level June 2021 are marked with *01

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

If one or more previous versions are skipped when this product version is used, the information from the Release Notices of the previous versions must also be noted.

*03 ROBAR consists of a client part for BS2000 (ROBAR-CL) and the server part on the SE
*03 Management Unit (MU) (ROBAR-SV).

*03 ROBAR controls the library systems with the interface:

- *03 • ABBA-interface
- *03 ETERNUS CS

Refer to the ROBAR-CL Release Notice for more information on the client part of ROBAR.

1.1 Ordering

ROBAR-SV can be order from your local distributors.

This software product is made available to the customer subject to the general terms and conditions of the software product use and service agreement in return for a one-off payment / regular payments

1.2 Delivery

*03 The ROBAR-SV files are supplied on CD-ROM or by WWW delivery.

*03 For the installation of the add-on Product on SE Management Unit (MU) the directory
*04 .../M2000 includes the image file MV.ROBAR-7.8A10-1.0.iso.

1.3 Documentation

The documentation is available on the Internet at <https://bs2manuals.ts.fujitsu.com/>. There you will find both individual manuals and (under the "Softbooks" tab) the ISO image of a DVD with the entire inventory.

The following documentation is available for ROBAR-SV V7.8A10:

ROBAR V7.8 Controlling MTC Archive Systems

2 Software-extensions

2.1 ROBAR-SV V7.8A10

- *05 • Open Source updates

2.2 ROBAR-SV V7.8A

- *04 • SE / SEM Support
- *04 - Coexistence SE V6.5 + V6.5
- *04 - Migration V6.5 -> V6.6

2.3 ROBAR-SV V7.7C

- *03 • Platform Support
- *03 ETERNUS CS S17 / V9.1
- *03 • Instance creation improvements (overwrite option, check / uncheck all BS2000
- *03 hosts)
- *03 • Delete dialog for logging files
- *03 • No limitation of the number of connection attempts from ROBAR-SV to the archive
- *03 system during startup (support of REPETITION_COUNT=0)
- *03 • SE / SEM Support
- *03 - Coexistence SE V6.4 + V6.5
- *03 - Migration V6.4 -> V6.5

2.4 ROBAR-SV V7.7B

- *02 • Platform Support
- *02 ETERNUS CS S16 / V9.0
- *02 • Addon Features
- *02 SE V6.5 as Addon
- *02 SE V6.5 + V6.4 parallel support
- *02 • SEM / WebUI Features
- *02 SE V6.5 role concept support
- *02 SE operation state display in main window
- *02 • ROBAR-SV WebUI Features
- *02 Simple instance creation, upload and duplication
- *02 VSN checking improvements
- *02

2.5 ROBAR-SV V7.7A

- Support High Availability (HA) configurations
- New parameter IGNORE_DEV_STATUS
- Automatic instance start
- Automatic configuration restore on system upgrades / new installations when CSR data is available
- Time period selection in the instance messages table

3 Technical information

3.1 Resource requirements

ROBAR-SV V7.8A10 has no increased requirement of resources with respect to the previous version.

3.2 Software configuration

3.2.1 Necessary environment

- *04 1. BS2000 OS DX V1.0B
- *04 2. ROBAR-CL as of V7.7A on BS2000
- *04 3. M2000 as of V6.5A SP2 and V6.6A for SE Manager
- *03 4. PCMX, which was a separate product requirement in previous versions, is now part of
- *03 the MU base system.
- *03 5. Browser requirements as of SE Manager release notice

3.3 Product installation

3.3.1 Installation of ROBAR-SV on SE Management Unit (MU) of SE Server

The add-on Package for the installation of ROBAR-SV on MU is included on the ROBAR-SV-CD.

The installation steps are the following:

1. Insert ROBAR-SV V7.8A add-on CD-ROM/DVD into the DVD drive of the Management Unit (MU) or in the drive of your PC.
2. Use the graphical user interface of the SE Manager (as service) and choose the menu option "Hardware".
 - Choose "Units" then "...(MU)" then "Service"
3. Now you can copy the ROBAR package into the SE Manager with the button
 - "Transfer update from CD/DVD to system" if the CD is in DVD drive of the MU or
 - "Upload add-on pack" within the table "Add-on packs" if the CD is in the DVD drive of your PC
 Select the file MV.ROBAR-(version).iso in the directory M2000 of the CD and upload it.
4. Now you can click the button "install" in the table "Add-on pack" for the entry ROBAR-(version).

Further details for installation of ROBAR-SV on SE Management Unit can be find in the online-help or in the manual.

3.3.2 Save of configuration files on SE Manager

Configuration files of ROBAR and CMX can be saved into a backup archive. There are also upload and download functions.

Upon a configuration save/restore of the SE Management Unit using CSR function a ROBAR and CMX backup archives containing the current ROBAR configuration files and the CMX configuration will automatically be created / restored. Already existing ROBAR or CMX backup archives will be overwrite.

For deinstallation of the add-on Package ROBAR on MU make the following steps:

- Use the graphical user interface of the SE Manager (as service) and choose the menu "Hardware".
 - Choose "Units" then "... (MU)" then "Service"
- Now you can click the button "*uninstall*" in the table "add-on pack" for the entry ROBAR-(*version*).

3.4 Product use

3.4.1 ROBAR-SV Rule-Files

Only the ROBAR rule files delivered with ROBAR-SV V7.8A10 are covered by the Fujitsu maintenance warranty in the framework of the supported functions and hardware/software configuration. Customers may modify ROBAR responses in the files "message_file", "message_resp" and "message_xref" to suit their requirements according to the inline comments in these files. Such modifications are cover by Fujitsu maintenance warranty.

Support of customized ROBAR Rule Files can be offer by Fujitsu within the context of a consultancy contract or a dedicated project outside the standard Fujitsu maintenance support and product scope.

Malfunctions caused by modified rule files are neither diagnose nor corrected in the framework of the standard Fujitsu maintenance warranty. Only malfunctions that occur with the standard rule files are cover by the standard Fujitsu maintenance warranty. Other malfunctions must be diagnose and corrected by the author of the modification.

If rule files of software suppliers other than Fujitsu are install, Fujitsu has no liability for robot malfunctions caused by these rule files. The customer must make sure that the related warranties are included in the contract with the separate software suppliers.

Additional support can be offer by Fujitsu for non-official rule files within the context of a dedicated customer project or consultancy contract.

3.4.2 Settings

At parameterization, the environment variable LANG can be set correctly in the configuration file ~/.profile of the ROBAR user for the language support. The first two characters must be 'de' or 'en'. If LANG 'C' is used, then the English language is chose.

3.4.3 Old ROBAR-SV configuration file

The ROBAR-SV config files of older version can be upload in graphical user interface and afterwards a new instance is created with this config file.

3.5 Discontinued functions

The following functions will not be supported anymore:

- The PRINT parameter of the LIST menu will not be support anymore.
- SCSI-interface (Scalar i500 and Scalar i6000)
- *03 - Standalone variant. ROBAR-SV basically runs on the Management Unit (MU) of the SE server.
- *03
- *04 - SE V6.4

3.6 Incompatibilities

none

3.7 Restrictions

1. ROBAR-SV is not suitable for running on a platform where realtime software has been install or a heavy load is running. If heavy load is running there might be delays resulting in the job processing of ROBAR.
2. The run of MBK devices with equal device types but different usage of media requires their assignment to different locations (BS2000 and MAREN). For that purpose ROBAR-SV needs different instances (one for each location).
3. More than 99 devices cannot be define by numeric reference (“numbered topologic form”). This leads to an undefined result.
If more than 99 devices are configured in ROBAR-SV, they must be defined in the archive system and in ROBAR with the mnemonic device name defined in BS2000.
4. Messages for ROBAR FREEPOOL
The BS2000 console messages processed by ROBAR for the support of the FREEPOOL function are restricted to the messages described in the ROBAR User Guide.
The support of application-specific messages must be managed and programmed by the customer in the ROBAR Rule files. These extensions are not cover by FUJITSU in the framework of a customer-specific project.
5. Support of tape drives by ROBAR
Error of hardware and software components, which are not –or cannot- be report by BS2000 console messages, cannot be handle by ROBAR either. Such errors must be recovered by the operator and/or reported to FUJITSU (e.g. tape subsystems, BS2000/OSD-BC software subsystems), if an applicable maintenance warranty exists.
The support of MBK-devices with BS2000 outside the archive system
The support of a device by ROBAR requires that the combination of the hardware, firmware and software components has reached the appropriate level of reliability to support continuous robot operation without interruption of the tape processing.
Therefore, the FUJITSU warranty only covers robot configuration with tape devices, which are explicitly announce as supported by ROBAR.
6. Multiprocessing
If several devices are operate simultaneously it is useful to have as many cleaning cartridges as devices.

7. Naming for ROBAR configuration file

If the file name contains characters with a special meaning for a command shell (*, -, \$, #, &, |, ', ", etc), some ROBAR processes (robar_abba, robar_mon, robar_nbs2, robar_vbs2, varying in different cases) fail to start properly and are forced to terminate. The name is limited with alphanumeric characters and '_', '.', '@' symbols.

3.8 Procedure in the event of errors

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

- Diagnostic data from BS2000 system concerning ROBAR-CL
- Diagnostic data from ROBAR server concerning ROBAR-SV
- Diagnostic data from TCP/IP connection

How to produce the documentation relevant for diagnosis is described in the ROBAR Manual Controlling MTC Archive Systems.

For errors, which occur during device control, additional diagnostic information from BS2000 must be deliver (see Release notice of ROBAR-CL)

4 Hardware requirements

4.1 Archive systems

Virtual Type Libraries

- *04 - ETERNUS CS8000 S16 / S17
- *04 - ETERNUS CS8000 V9.1 SP01 / SP02 / SP03

(see more information in the manual ETERNUS CS and in the release notice)

4.2 Tape devices

Tape devices supported by ROBAR in MTC archive systems (BS2000 terms). See more information about the supported tape devices in the release notice for BS2000.

ABBA-interface:

- ETERNUS CS
 - 3590-E (C4)
 - LTO-U4

4.3 ROBAR-Server

- *03 The ROBAR server runs on the Management Unit (MU) of the SE Server with M2000 as
- *03 of V6.5 SP2 / V6.6 SP1.