

FUJITSU Software BS2000 FDDRL

Version 19.0A April 2015

Release Notice

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1	General		2
	1.1	Ordering	2
	1.2	Delivery	3
	1.3	Documentation	4
2	Softv	vare extensions	5
3	3 Technical information		6
	3.1	Resource requirements	6
	3.2	Software configuration	6
	3.3	Product installation	6
	3.4	Product use	6
	3.5	Obsolete functions (and those to be discontinued)	6
	3.6	Incompatibilities	6
	3.7	Restrictions	7
	3.8	Procedure in the event of errors	7
4 Hardware support			7

1 General

FDDRL (Fast Disk Dump and ReLoad) is a software product for BS2000 which is used for physical backup and restore of the contents of disks and pubsets. FDDRL supports public and private disks in BS2000 format, as well as disks from foreign systems in certain circumstances.

FDDRL enables you to physically back up the contents of a disk to disk or tape cartridges. You can then use the backup data media to restore the contents of this disk. During the physical backup of data using FDDRL, all metadata required to operate the disk (disk labels, file catalogue, paging file, boot function) are backed up as well.

FDDRL V19.0A knows several tape formats which differ in performance and compatibility. Any tape format is linked to an FDDRL version that supports (or supported) it for the first time. A former tape format promises to meet compatibility requirements, later tape formats promise to deliver high performance.

Disk-Set-Backups created with the default setting are created in V17-Tape-Format (if 4-times multiplexing is calculated by FDDRL) or V16-Tape-Format (if 2-times multiplexing is calculated by FDDRL). They can be restored with FDDRL as of the corresponding version.

Single-Disk-Backups created with the default setting are created in V15-Tape-Format. They can be restored with FDDRL as of V15.0A.

However the backups can also be created to be independent of version (TAPE-FORMAT=*V13-FORMAT).

The applicable restrictions are described in the FDDRL V19.0A documentation.

This Release Notice is a summary of the major extensions, requirements and operating information with regard to FDDRL V19.0A under the BS2000/OSD operating system.

The release level is that of April 2015.

The documentation is also available on the internet at http://manuals.ts.fujitsu.com. Manuals which are displayed with an order number can also be ordered in printed form.

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 be taken in account as well.

1.1 Ordering

FDDRL V19.0A can be ordered from your local distributors.

This software product is supplied subject to a single payment or payment by instalments.

1.2 Delivery

The FDDRL V19.0A files are supplied via SOLIS.

The following delivery components are required regardless of the HSI:

SYSDAT.FDDRL.190.REQUESTS FDDRL request file
SYSFGM.FDDRL.190.D Release Notice (German)
SYSFGM.FDDRL.190.E Release Notice (English)

SYSMES.FDDRL.180 Message file

SYSNRF.FDDRL.190 NOREF file for REP processing when loading

the FDDRL subsystem

SYSPAR.FDDRL.190 Parameter file for FDDRL

SYSPRC.FDDRL.190 LMS library with FDDRL procedures

SYSPRC.FDDRL.190.CHECK-OLS S-Procedure for checking the environment for

an online backup of the HOME pubset

SYSPRC.FDDRL.190.CHECK-OLS.C S-Procedure above compiled README file (German), if available SYSRME.FDDRL.190.E README file (English), if available Object corrections RMS format

SYSSDF.FDDRL.190 Subsystem syntax file with START-FDDRL

command and statements for FDDRL and

FDDRL-OS

SYSSII.FDDRL.190 IMON structure and installation information file

SYSSSC.FDDRL.190 Subsystem declarations

The following delivery components are only required on S-Servers:

SYSLNK.FDDRL.190 Object module library for loading the FDDRL

modules (/390-HSI); must also be assigned as TASKLIB when duplicating FDDRL backup

tapes with PERCON

The following delivery components are only required on SQ-Servers:

SKMLNK.FDDRL.190 Object module library for loading the FDDRL

modules (X86-HSI); must also be assigned as TASKLIB when duplicating FDDRL backup

tapes with PERCON

The current file and volume characteristics are listed in the SOLIS2 delivery cover letter.

1.3 Documentation

The following documentation is available for FDDRL V19.0A (BS2000 V9.0 Performance Handbook will be replaced by BS2000 V10.0 Performance Handbook when available):

FDDRL V19.0A Benutzerhandbuch
FDDRL V19.0A User Guide
BS2000 V9.0 Performance-Handbuch
BS2000 V9.0 Performance Handbook
Bestell-Nr. U3251-J-Z125-11 (German)
Bestell-Nr. U1794-J-Z125-14 (German)
Bestell-Nr. U1794-J-Z125-14 (German)

The support for foreign disks with FDDRL-OS is also described in the FDDRL User Guide.

The BS2000 documentation is available in German and English on DVD with the title BS2000 Softbooks.

The handbooks may be supplemented with README files. These contain changes and extensions to the handbooks of the product concerned. The README files are available on the SoftBooks-DVD on online on http://manuals.ts.fujitsu.com.

SYSRME.FDDRL.180.D (file with German text) SYSRME.FDDRL.180.E (file with English text)

The documentations are shipped as PDF files on the SoftBooks-DVD.

2 Software extensions

FDDRL supports disks and tape drives connected to FC and ESCON. If both disks and tape drives are connected to a FC channel, the very good I/O performance results in considerable reduction of runtimes.

To enhance the performance large tape blocks are supported. The large tape blocks are created in a new tape format (V15-Tape-Format, V16-Tape-Format or V17-Tape-Format).

FDDRL V19.0 provides the following main functional enhancements compared to V18.0:

Supported BS2000 versions

FDDRL 19.0A supports BS2000 version V9.0 and V10.0.

- Alias names for statements
- FDDRL requests, request file, request name
 - //SHOW-REQUESTS,
 - //DELETE-REQUESTS
 - //MFP KEEP-REQUESTS= *STD / <integer_1..32767> / *YES
- Report file per request with annexed subtask reports
 - //MFP REPORT-FILE=*STD / *NONE
- Support of backup monitor of Fujitsu Server BS2000 SE Serie

Eventing of requests, report file as PDF file, command //SHOW-FDDRL-REQUESTS

- //MFP MONITORING=*STD / *NO
- Job status of foreign FDDRL tasks
 - //SHOW-FDDRL-STATUS
- Display function with operand OUTPUT

Structured output info S-variables are supported.

- New installation items
 - SYSPRC.FDDRL.190 library with FDDRL procedures
 - SYSPAR.FDDRL.190 FDDRL parameter file

DUMP-PUBSET

The standard value for operand SAVE-ENTITY within the command DUMP-PUBSET has been changed to *DISK-SET (incompatibility!!)

Further software enhancements are described in the FDDRL V18.0 documentation.

3 Technical information

3.1 Resource requirements

The following storage space is required for FDDRL operation:

Disk storage space (static): less than 3 MB

Disk storage space (dynamic): 6 KB per FDDRL subtask Virtual address space (memory classes 3, 4, 5) static: max. 0.2 MB (/390)

max. 0.5 MB (X86)

dynamic: max. 1.8 MB

3.2 Software configuration

FDDRL V19.0A requires BS2000 as of version V9.0A.

The products, which must be purchased, MAREN (as of V11.0A, V12.0A recomended) and/or JV (Job Variables as of V14.0A) can be used as optional software.

3.3 Product installation

Installation of the product FDDRL with the IMON installation monitor is mandatory. You must follow the information concerning installation in the delivery cover letter and in the product documentation as well as the information in this Release Notice.

Before calling IMON, you must carry out the actions listed in the delivery cover letter as installation requirements.

After these actions have been executed you have to install the product with IMON. The necessary inputs and the sequence of the installation are described in the IMON documentation.

3.4 Product use

Information on using FDDRL V19.0A can be found in the FDDRL V19.0A documentation.

FDDRL can work with or without MAREN and with or without JV. FDDRL uses these for noting down information about backup volumes which have been used at the data backup with FDDRL.

3.5 Obsolete functions (and those to be discontinued)

Since FDDRL V15.0A the old tape format *V12-COMPATIBLE for backups is discontinued.

3.6 Incompatibilities

- The standard value for operand SAVE-ENTITY within the command DUMP-PUBSET has been changed to *DISK-SET.
- FDDRL V19.0A is only fully compatible to FDDRL V13.0A and FDDRL V14.0A if the TAPE-FORMAT=*V13-FORMAT is used.
- FDDRL V19.0A is compatible to FDDRL V15.0A if TAPE-FORMAT=*V13-FORMAT or *V15-FORMAT is used.

• FDDRL V19.0A is compatible to FDDRL V16.0A if TAPE-FORMAT=*V13-FORMAT, *V15-FORMAT or *V16-FORMAT is used.

3.7 Restrictions

There are no restrictions for FDDRL V19.0A

3.8 Procedure in the event of errors

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

- System dump (if available)
- SYSOUT log of the FDDRL main task and the FDDRL subtasks
- Correction file used (SYSREP.FDDRL.190)
- Entered FDDRL statements

If the error occurs in conjunction with backup tapes, these should be kept until the cause is found.

4 Hardware support

FDDRL V19.0A will run on all processors supported as of BS2000 V9.0.

FDDRL V19.0A supports all disk and tape types that are supported by the BS2000 version used.

The magnetic disks must be initialized and formatted in BS2000 format unless they are – possible as of FDDRL V17.0 - specified via the mnemonics of the output disks (Disaster Recovery).