

FUJITSU Software BS2000 LEASY

Version 6.2
January 2018

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 LEASY V6.2 under the BS2000/OSD.

- *4 The release level is that of: January 2018.
- *1 Changes to the correction delivery V6.2A20 are marked with '*1' in the margin.
*1 The release level is that of April 2008.
- *2 Changes to the correction delivery V6.2A30 are marked with '*2' in the margin.
*2 The release level is that of October 2008.
- *3 Changes to the correction delivery V6.2A40 are marked with '*3' in the margin.
*3 The release level is that of April 2009.
- *4 Changes to the correction delivery V6.2B00 are marked with '*4' in the margin.
*4 The release level is that of January 2018.
- *3 This and other current Release Notices are shipped on the SoftBooks DVD and
*3 are available online at <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.

1.1 Ordering

LEASY V6.2 can be ordered from your local distributors.

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

1.2 Delivery

The LEASY V6.2 files are supplied via SOLIS.

The following parts belong to the delivery of LEASY V6.2:

SYSFGM.LEASY.062.D	Note for the release notice in PDF-Format (German)
SYSFGM.LEASY.062.E	Note for the release notice in PDF-Format (English)
SYSPRG.LEASY.062	Program library
SYSLIB.LEASY.062	Library with macros und COPY elements
SYSLNK.LEASY.062	Module library Installed with the logical name (LOGICAL-ID) SYSLNK.SRV
SYSLNK.LEASY.062.DCAM	Module library for DCAM application
SYSLNK.LEASY.062.IOH	Module library to work with I/O task
SYSMES.LEASY.062	Message file
SYSNRF.LEASY.062	NOREF file
SYSRMS.LEASY.062	Delivery set for RMS
SYSSDF.LEASY.062	SDF system syntax file
SYSSSC.LEASY.062	Subsystem definition
SYSSII.LEASY.062	File for installation with IMON
SINPRC.LEASY.062	Procedure file for compatible installation

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

*4 As of LEASY V6.2B00 the demo version of ODBC-Rocket is not delivered any more.

Note:

The LEA.<pgm> phases of the utility routines are not a component of the SOLIS/IMON installation and are therefore not delivered separately. For reasons of compatibility, they can be extracted from the SYSPRG.LEASY.062 library using the procedure file

SINPRC.LEASY.062

1.3 Documentation

The OSD/BC documentation is available in German and English on DVD with the title BS2000 SoftBooks.

*3 The documentation is also available in the form of online manuals at

*4 <http://manuals.ts.fujitsu.com>.

The manuals may be supplemented with README files. These contain changes and extensions to the manual of the product concerned.

2 Software extensions

Only the extensions and enhancements over the previous version LEASY V6.1A are described in the following sections. A summary of the modifications is also provided in the LEASY V6.2A manuals, in section "Changes over the previous manual".

2.1 Implemented change requests

	A0331205	Consultation MODE for LEASY
	A0437416	Automatischer RECONST gibt Schattendatei nicht frei
	A0479885	Reduzierung der PASSWORD-Kommandos in LEASY-MAINTASK
*1	A0505451	Schlüssel in RECONST-Protokoll auch bei Fehlern ausgegeben
	A0534862	Zwangswises Beenden von LEASY
*4	A0610962	Bearbeitung von ISAM- und SAM-Dateien größer 32GB

2.2 Controlled overwriting of AIM file generations

Up to LEASY V6.1A, new AIM file generations were created as required, even if this caused any existing generations to be lost. This behavior has been changed in LEASY V6.2A so that a new generation is only created if it does not cause any existing AIM file generations to be deleted.

The new function AIMA (AIM file Administration) is offered in LEASY-MASTER for this.

LEASY-MAINTASK therefore offers the new parameters AGF and FAA with which AIM generations can be released once when updating to LEASY V6.2 and the behavior of LEASY V6.1 (and older versions) can be restored. The parameter AIS has been extended by a second operand. This can be used to specify the number of PAM pages after which a renewed switchover is to be tried if it is currently not possible.

2.3 Setting the DBs to READ ONLY

As of LEASY V6.2, the files of a LEASY catalog can be set to READ ONLY mode with the new ROMS (Read Only Mode: Set) function of the LEASY-MASTER utility to ensure that a consistent online backup can be made. The READ ONLY mode can also be reset again with the new function ROMR (Read Only Mode: Reset) of LEASY-MASTER.

2.4 Reducing the PASSWORD commands

The assignment of passwords for the BIM files has been changed to reduce the number of PASSWORD commands issued by LEASY. This avoids message DMS0692 being output.

2.5 Replace original DB with the shadow DB during operation

Up to LEASY V6.1, it was not possible to copy the shadow files onto the original files during operation while working with the automatic LEASY-RECONST. The new function REPO (REPlace Original file) of LEASY-MASTER rectifies just this deficiency.

*4 **2.6 Support of files greater than 32 GB**

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As of LEASY V6.2B SAM and ISAM files can be processed, which are greater than 32 GB.

3 Technical information

3.1 Resource requirements

LEASY V6.2A requires the following memory:
 Static memory required: approx. 900 KB
 of which, for runtime system: approx. 200 KB
 Dynamic memory required: max. 10 MB

3.2 Software configuration

*4 OSD/BC as of version V9.0A is required for LEASY V6.2B.
 *4
 *4 Other software required for operation:
 *4 ARCHIVE as of V9.0
 *4 INFPLAN as of V5.3B
 *4 DRIVE as of V3.1
 *4 openUTM as of V6.3
 *4 SORT as of V7.9 to sort more than 2.147.483.647 records:
 *4 as of V8.0A

3.3 Product installation

Installation of the product LEASY 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 successful product installation with IMON, the following actions can be performed for compatible operation:

Call the procedure SINPRC.LEASY.062 (compiled form), that extracts the phases of the utility routines from the product file <from-location>.SYSPRG.LEASY.062 and copies the LEACON module from the product file <from-location>.SYSLNK.LEASY.062 into the LEA.OML library.

These components are not registered in the IMON SCI.

This allows continued use of existing LEASY applications that still use EXEC LEA.<pgm> to call the utility routines and the LEA.OML library for dynamically loading the LEACON connection module.

However, it is not recommended to continue using this option since it is not immediately detectable which LEASY version the generated LEA. files belong to and this greatly restricts the coexistence. Instead, use the LEASY start command

START-LEASY-<pgm>

for starting the utility routines and specify the library for dynamically loading LEACON by selecting the LEASY version with /SELECT-PRODUCT-VERSION.

Calling the procedure:

```
/CALL-PROCEDURE FROM-FILE = SINPRC.LEASY.062, -
/          PROCEDURE-PARAMETERS = ( ... )
```

with the following procedure parameters:

```
FROM-LOCATION = *BY-IMON / <partial-filename 2..21>
TO-LOCATION = *SAME / <partial-filename 2..21>
```

<partial-filename 2..21> must be specified in the form :catid:\$userid.prefix.
where at least one of the three parts must be entered.

The parameters mean:

```
FROM-LOCATION: Location of the SYSPRG.LEASY.062 library
*BY-IMON (default): Location is determined from the IMON SCI.
The default system ID $ is assumed if LEASY V6.2A is not registered.
<partial-filename 2..21>: Explicit location.
Mandatory if installation is to a foreign pubset.
TO-LOCATION: Location of the extracted components
*SAME (default): Location is the same as the location of the
SYSPRG.LEASY.062 library
<partial-filename 2..21>: Explicit location.
```

3.4 Product use

LEASY V6.2 can operate in coexistence with LEASY V6.1A or V6.0A. In contrast, coexistence of LEASY versions <= 5.3A and 6.2 is not possible.

With marginally dimensioned COMMON-MEMORY, it may be necessary to correct the *MEM statement of the LEASY-MAINTASK utility routine slightly upwards (otherwise, RC-LC = LS12).

3.4.1 Updating to LEASY V6.2A

It is therefore imperative that all BIM files are invalidated before updating to LEASY V6.2A.

This is done by terminating the last LEASY session normally before updating, i.e. closing all transactions. This can be achieved most simply by closing down the LEASY-MAINTASK with the CLOS function of the LEASY-MASTER utility routine.

3.4.2 Quantity limitation with LEADIAG

The diagnostic file LEADIAG is replaced after reaching 100,000 logged records (corresponds to approximately 8 MB data with a record length of 80 bytes).

This is done by cataloging it with a new name that contains the current date in the form yyyy-mm-dd and, separated by a period (.), the current time in the form hhmmss. The current diagnostic file to be written is recreated with the standard catalog name LEADIAG. This creates a contiguous series of files. The LEASY administrator must take steps to limit the number of files, i.e. either save the old files to tape or delete them.

*1 **3.4.3 New return codes**

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*1 As of LEASY V6.2A20 the following new return code can occur:

*1 99ALLS82: AIM file can no longer be written as the result of an error, no further
 *1 LEASY request is permitted, and the transaction was terminated by
 *1 LEASY.

*2 As of LEASY V6.2A30 the following new return code can occur:

*2 99ALLS99: Wrong LEASY link module linked. See also manual "Program Inter-
 *2 face and Strategies" chapter 9.1 Linking LEASY.

3.5 Discontinued functions (and those to be discontinued)

3.5.1 Subroutine interface of LEASY-MAINTASK and LEASY-MASTER

The subroutine interface to the utility routines LEASY-MAINTASK and LEASY-MASTER is no more supported in LEASY V6.2.

3.6 Incompatibilities

3.6.1 Controlled release of AIM file generations

If automatic shadow file rollback is not being used, the LEASY administrator must explicitly release the AIM file generation for overwriting. Otherwise, it may not be possible switch over to an AIM file generation and the LEASY users receive the new return code 99ALLS75.

If automatic shadow file rollback is being used, LEASY-MAINTASK breaks the start off if the catalog contains files for the AIM backup but automatic shadow file rollback is not set (AIM=YES or AIM=REDUCED).

LEASY-CATALOG provides the new M(IXED) operand in the INF statement for identifying such files.

The new statement FAA=YES can be specified with LEASY-MAINTASK to restore the behavior of LEASY versions < 6.2A.

3.6.2 Replacing original files with shadow files during operation

After starting the new REPO function of LEASY-MASTER, the LEASY applications may be hindered because no new transactions are allowed on the selected files and running transactions on the selected files are reset or terminated. In this case, the new code 99ALLS78, 99ALLS79 or 99ALLS80 is returned.

However, this should not represent a major restriction since the function is generally only used if the files in question are defective, i.e. not accessible anyway.

3.6.3 Setting the files to READ ONLY

If a file was set to READ ONLY with the new ROMS function of LEASY-MASTER, change orders for this file are rejected by the runtime system with the new return code 99ALLS77.

If a transaction is reset with the ROMS function, this is indicated with the next LEASY application statement by the runtime system with the new return code 99ALLS79.

3.6.4 LEASY-CATALOG and LEASY-MAINTASK

Foreign and temporary files cannot be specified in the file filter of LEASY-RECONST, with the result that these files cannot be traced. Only the AIM=NO operand is therefore accepted for foreign and temporary files in the FIL statement of LEASY-CATALOG. All other entries for the AIM operand are ignored, a warning is output and AIM=NO is used.

3.6.5 Downgrading

Due to a change in the assignment of passwords in LEASY, downgrading from LEASY V6.2 to an earlier LEASY version is not a simple matter.

If such a downgrade should be necessary, this can only be done with the help of software support.

3.6.6 Relinking DCAM applications using ROMS, REPO and RLBT

It is strongly recommended to relink DCAM applications when updating to LEASY V6.2. Use the module LEADCAM or LEADCAMI of version 6.2 for this.

3.7 Restrictions

None

3.8 Procedure in the event of errors

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

- Tracer listing (especially for the main task)
- User dump
- Diagnostic file and, depending on the error condition: AIM, BIM, primary, SI files or LEASYCAT
- If necessary, AID trace
- Information on the conditions in which the error occurred:
 - * LEASY version (correction level)
 - * Correction file used (REP file)
 - * BS2000/OSD version
 - * Use of LEASY in TIAM, DCAM, UTM or batch operation
 - * Version of the products working with LEASY
 - * Addressing mode

4 Hardware requirements

This section is not relevant for this product.

5 Firmware levels

This section is not relevant for this product.