

Fujitsu Technology Solutions

LEASY (BS2000/OSD)

Version 6.2A

*3 April 2009

Release Notice

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1 General

LEASY is a transaction-oriented data administration and access system that runs under BS2000/OSD (*). It provides a security concept to maintain file consistency and supports file access by user programs. 'Access' refers to operations such as reading, writing and modifying records and blocks.

This Release Notice is a summary of the major extensions, requirements and operating information with regard to

L E A S Y V6.2A under the BS2000/OSD operating system.

- *1 Changes to the correction delivery V6.2A20 are marked with '*1'
- *1 in the left margin. The release level is that of April 2008

- *2 Changes to the correction delivery V6.2A30 are marked with '*2'
- *2 in the left margin. The release level is that of October 2008

- *3 Changes to the correction delivery V6.2A40 are marked with '*3' in
- *3 the left margin. The release level is that of April 2009

This Release Notice is supplied as a file in uppercase and lowercase. Customers will receive an updated version of this file with margin markings should any subsequent changes be made. To print this file, use

```
/PRINT- DOCUMENT FROM- FILE=SYSFGM LEASY.062.D, -  
/ DOC- FORM=*TEXT(LINE- SPACING=*BY- EBCDIC- CONTROL)  
(German version)
```

or

```
/PRINT- DOCUMENT FROM- FILE=SYSFGM LEASY.062.E, -  
/ DOC- FORM=*TEXT(LINE- SPACING=*BY- EBCDIC- CONTROL)  
(English version)
```

All BS2000 product Release Notices are available in the Internet. This one is available under the following URL:

- *3 <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 RE-ADME files) of the previous versions must be noted.

- (*) BS2000, BS2000/OSD are registered trademarks of
- *3 Fujitsu Technology Solutions GmbH

1.1 Ordering

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

LEASY V6.2A is subject to the general terms and conditions of the software product use and service agreement.

1.2 Delivery

The LEASY V6.2A files are supplied via SOLIS.

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

In LEASY V6.2A, logical names are defined for all product files during installation.

Overview of delivery components:

The product files are listed with their LOGICAL ID.

SYSFGM D	SYSFGM.LEASY.062.D	Release Notice (German)
SYSFGM E	SYSFGM.LEASY.062.E	Release Notice (English)
SYSPRG	SYSPRG.LEASY.062	Program library
SYSLNK.SRV	SYSLNK.LEASY.062	Module library
SYSLNK.DCAM	SYSLNK.LEASY.062.DCAM	Module library for DCAM applications
SYSLNK.IOH	SYSLNK.LEASY.062.IOH	Module library for working with I/O task
SYSRMS	SYSRMS.LEASY.062	Delivery set for RMS
SYSNRF	SYSNRF.LEASY.062	NOREF file
SYSLIB	SYSLIB.LEASY.062	Library with macros and copy elements
SYSMES	SYSMES.LEASY.062	Message file
SYSSDF	SYSSDF.LEASY.062	Syntax file
SYSSSC	SYSSSC.LEASY.062	Subsystem declarations
SINPRC	SINPRC.LEASY.062	Procedure file for compatible installation

The SOLIS delivery group LEASY includes a demo version of ODBC-Rocket V3.7 from gfs, with client and server software. This software is not a LEASY component.

It allows transparent data access to LEASY databases from a PC via the ODBC interface. Please refer to the ODBC-DEMO-LEA Release Notice and the web page for more information.

<http://www.odbc-rocket.de>

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 SINPRC.LEASY.062 procedure file.

1.3 Documentation

The documentation is available as online manuals under

*3 <http://manuals.ts.fujitsu.com/mainframes.html>

or can be ordered at extra cost in printed form under

*3 <http://manualshop.ts.fujitsu.com>

The following documentation is available for LEASY V6.2A:

Title	Order number	Language
LEASY V6.2A (BS2000/OSD) Program Interface and Concepts	U20211-J-Z125-5 U20211-J-Z125-5-76	German English
LEASY V6.2A (BS2000/OSD) Utility Routines	U20212-J-Z125-5 U20212-J-Z125-5-76	German English
LEASY V6.2A (BS2000/OSD) Ready Reference	U6076-J-Z125-6 U6076-J-Z124-6-76	German English

The documentation on BS2000/OSD is also available on CD-ROM in German and English, under the title BS2000/OSD SoftBooks.

There may be additional README files for the manuals. They contain changes and extensions to the manual for the product concerned. The file names have the following structure

SYSRME.LEASY.062.D (file with German text)
SYSRME.LEASY.062.E (file with English text)

When printing the files, you should enter the operand LINE-SPACING=*BY-EBDIC-CONTROL in the PRINT-DOCUMENT command.

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 ausgeben
*1 A0534862	Zwangswises Beenden von LEASY

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.

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 configurations

LEASY V6.2A is executable as of BS2000/OSD-BC V5.0 (S systems) or OSD/XC V1.0 (SX systems).

Other software required for operation:

ARCHIVE.....	as of V6.0
INFPLAN.....	as of V5.3B
DRIVE.....	as of V3.1
openUTM.....	as of V5.2
SORT.....	as of V7.8

3.3 Product installation

The standard installation procedure is SOLIS/IMON in the system default ID (DEFLUID).

In the versions of BS2000/OSD in which LEASY V6.2 will run, installation of the product LEASY V6.2A with the installation monitor IMON is mandatory, as the execution of the product requires a consistent Software Configuration Inventory (SCI).

The information concerning installation in the delivery cover letter and in the LEASY V6.2A product manual "Program Interface and Concepts" must be followed as well as the information below.

After successful product installation with IMON, the following actions can be performed for compatible operation:
Call the S 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 = SINPRG.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 subset.

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 V6.2A can operate in coexistence with LEASY V6.1A or V6.0A. In contrast, coexistence of LEASY versions <=5.3A and 6.2A 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

The processing of BIM files has changed with respect to versions < 6.2A.

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.

3.4.3 New return codes

- *1 As of LEASY V6.2A20 the following return code can occur: 99ALLS82
- *1 AIM file can no longer be written as the result of an error, no
- *1 further LEASY request is permitted, and the transaction was terminated by LEASY.

- *2 As of LEASY V6.2A30 the following return code can occur: 99ALLS99
- *2 Wrong LEASY link module linked See also manual "Program Interface and Strategies" chapter 9.1 Linking LEASY.

3.5 Obsolete 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-MAIN-TASK 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 documentation will be required for diagnostic purposes:

- 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 support

This section is not relevant for this product.