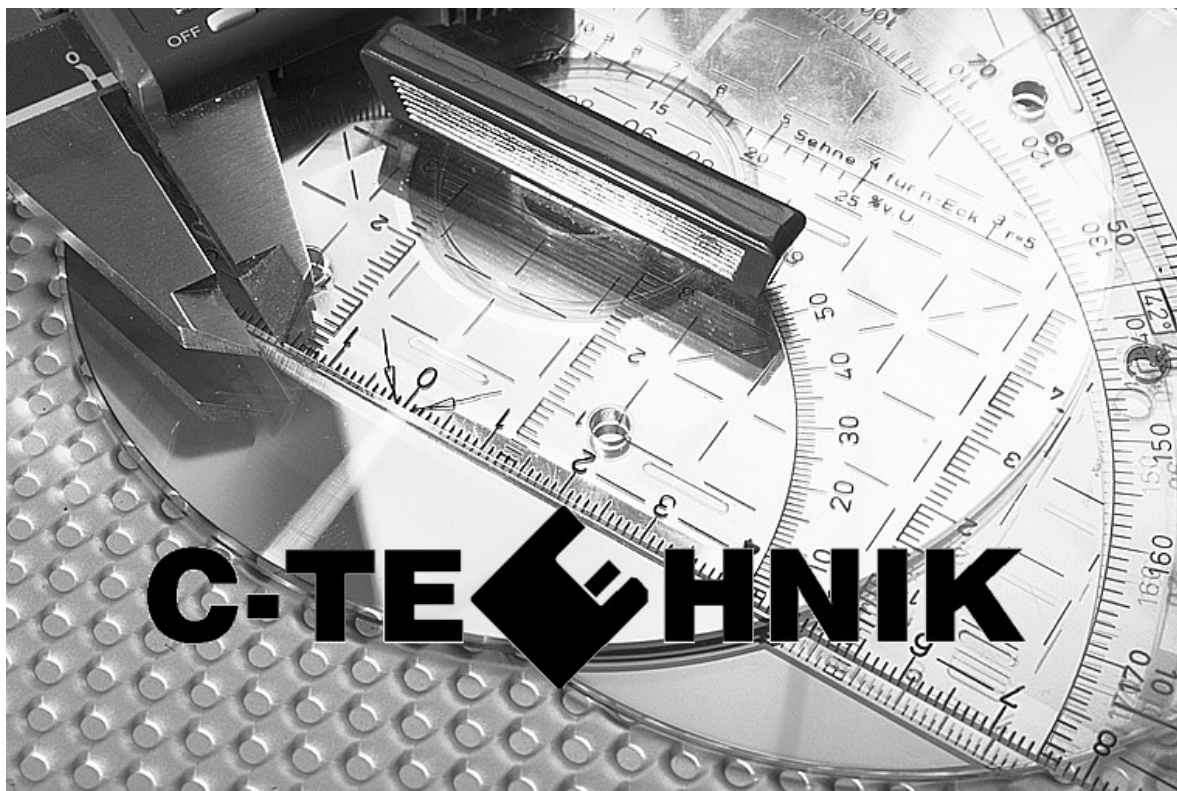# REPLIB

Manual

**Program for repairing
CAD4U - Libraries**

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September 2013

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Content

General

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REPLIB

Introduction

This program can restore an invalid LIBINFO.SYS and/or an invalid LIBRARY.DAT.

After selecting a library, the program will detect the indexes existing in the library directory - see Index (Directory) - and compare it with the info´s about the indexes which it will get from LIBINFO.LOG or LIBRARYD.LOG.

The following files will be rewritten, during the restoration:

- INDICES.DAT

    This file contains information about the existing indexes in the library in a binary format.

- LIBINFO.SYS

    This file contains information of all indexes in the library, including extra information, e.g. the name of an index, the date of creation, in binary format.

- LIBINFO.LOG

    This file contains the same information like LIBINFO.SYS. The file can be opened with any editor.

- LIBRARY.DAT

    This file contains information of all indexes in the library, including extra information, e.g. the name of an index, the date of creation, in binary format. In opposite to the file LIBINFO.SYS, some more information are stored in this file, such as the name of the project code. Furthermore the length of the name of an index is not restricted to 8 signs.

- LIBRARYD.LOG

    This file contains the same information like LIBRARYD.LOG. The file can be opened with any editor.

Before rewriting these files during the restoration, the existing ones will be renamed by RepLib.

Please read the chapter Library Management in the online-help system in order to get more informations about the basics of the library-management used in CAD4U/CAMOD before using REPLIB.

Warning

We strongly recommend to make a backup copy of the library before using REPLIB !

An inexperted use of the program could cause crashes or loss of data.

C-TECHNIK Software GmbH shall not be liable for any damages!

Installing RepLib

Before using RepLib3 you have to install the program first (if it is not installed yet).

RepLib3 is based on the NET Framework 3.5.
If this Framework is not installed on a Windows XP PC, please install it first.

All Windows version newer then XP (= Vista, ...) already contain a compatible .NET Framework.

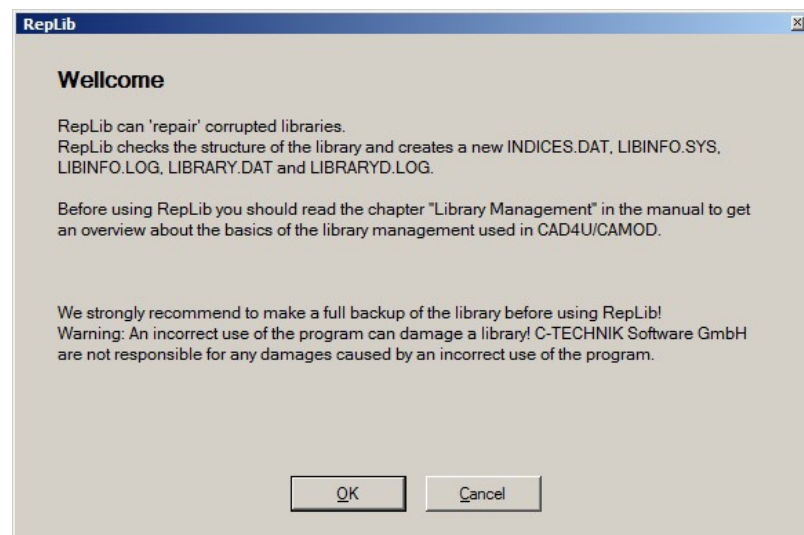Run the file SETUP_REPLIB_ENGLISH.EXE in order to install RepLib3.

Repairing a Library

RepLib can repair a damaged library of CAD4U, if one of the following files are corrupt: LIBINFO.SYS; LIBRARY.DAT and INDICES.DAT.
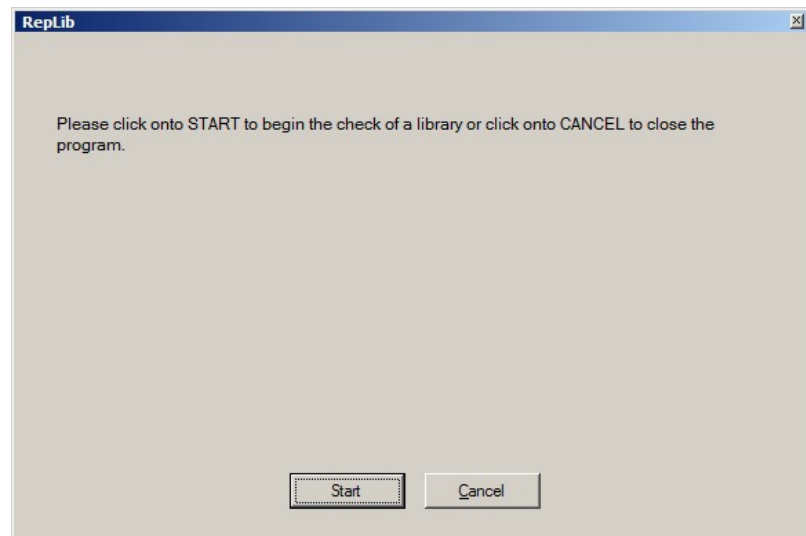
To do that RepLib compares the existing indexes found in the library directory with the info`s from LIBINFO.LOG and/or LIBRARYD.LOG. If the program find an entry in the LIBINFO.LOG and/or LIBRAYD.LOG for an existing index (found in the library directory), it will adopt the info´s (e.g. version, date, index name) from the LIBINFO.LOG. Otherwise it will add the newest version number, the date of creation of the directory and "*********" (instead of an index name) to the LIBINFO.SYS and LIBRARY.DAT.

But this will only the case if the index found in the library directory is "complete". If one of the following files CLRBITMAP, MONOBITMAP, INDEX, MACDEPS, SNAP is missing, the index will be renamed an will not be added to LIBINFO.SYS and LIBRARY.DAT.
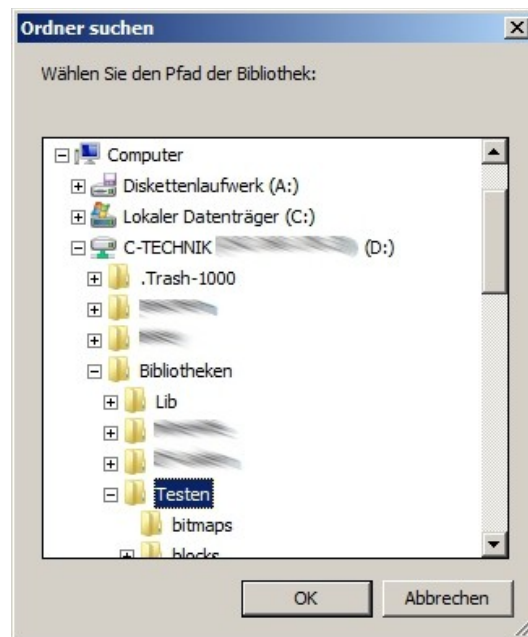
1.) Start RepLib2 and click onto OK.

2.) Click onto START to choose the library which should be repaired.

RepLib

Please click onto START to begin the check of a library or click onto CANCEL to close the program.

Start   Cancel

RepLib

The following window will be displayed:

Select the folder of the library you want to repair (e.g. Testen).

Important:
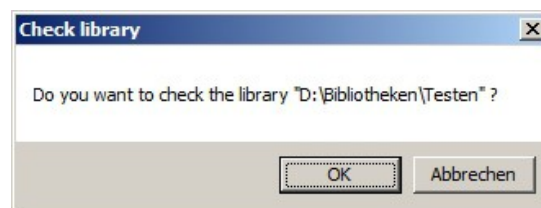
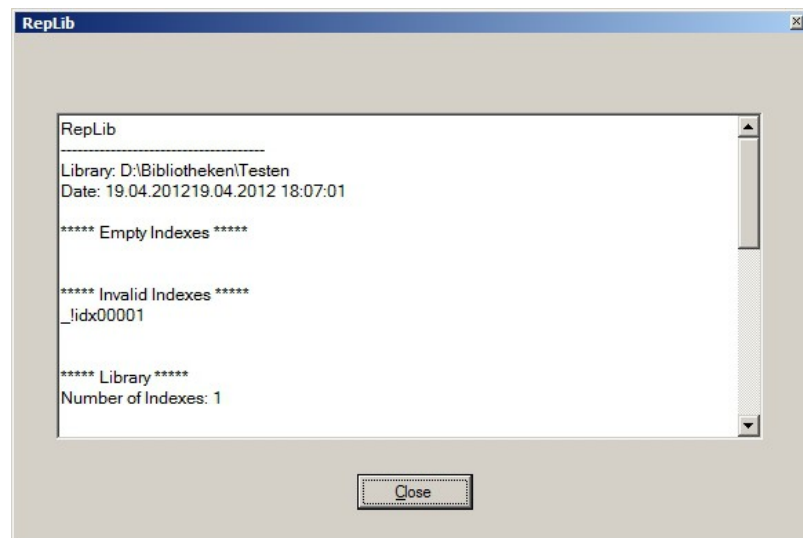Please do not select a subfolder of a library!

 Right !   False !

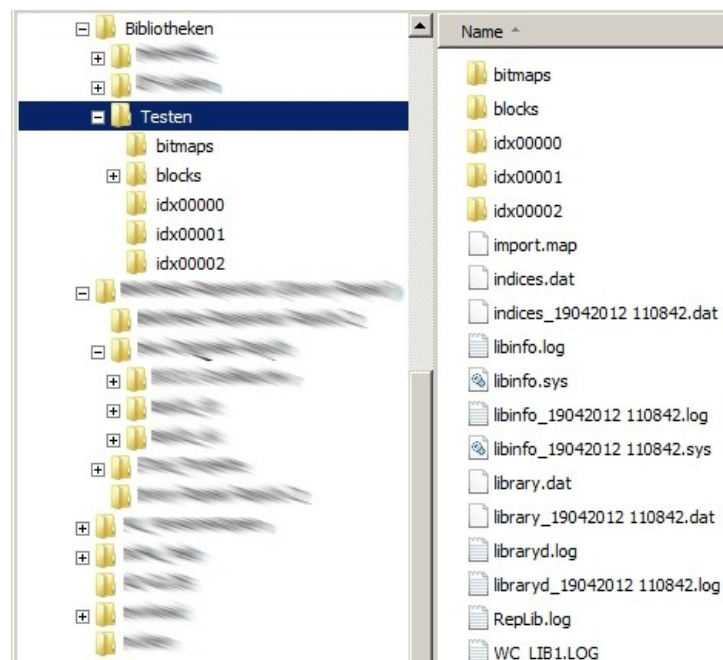3.) Click onto OK to start the restoring of the selected library.

4.) When the program has finished the restoration of LIBINFO.SYS, it will file the results in a LOG file (REPLIB.LOG) and show it on the screen.

There are now five new files in the library: files INDICES.DAT, LIBINFO.LOG, LIBINFO.SYS, LIBRARY.DAT and LIBRARYD.LOG. The old files are renamed.

Example

INDICES.DAT -> INDICES_19042012110842.DAT.

PROCEEDING

Checking indexes

RepLib checks the library for incomplete or empty indexes. These indexes will be renamed and and **not** added to the newly created files LIBINFO.SYS, LIBRARY.DAT, LIBINFO.LOG, and LIBRARYD.LOG.

Incomplete indexes

Incomplete indexes are indexes in which one of the following four files is missing:

- MONOBITMAP und CTRLBITMAP
  (an index is incomplete if both files are missing!)

- INDEX

- MACDEPS

- SNAP

Incomplete indexes will not be added to files files LIBINFO.SYS, LIBRARY.DAT, LIBINFO.LOG, and LIBRARYD.LOG. Instead the indexes will be renamed by prefixing the name of the index with "_!".

Example

 _!idx00001

Empty indexes

Empty indexes are indexes (= folders) containing no files. These indexes will be also renamed (see above) and not added to to files files LIBINFO.SYS, LIBRARY.DAT, LIBINFO.LOG, and LIBRARYD.LOG.

Comparing indexes

After checking the library for incomplete or empty indexes, RepLib compares the really existing (complete) indexes found in the library with the entries in LIBINFO.LOG and LIBRARYD.LOG.

If RepLib finds an entry for the existing index in one of the both files, this information (index number, version, date, index name) will be added to the newly created files LIBINFO.SYS and LIBRARY.DAT.
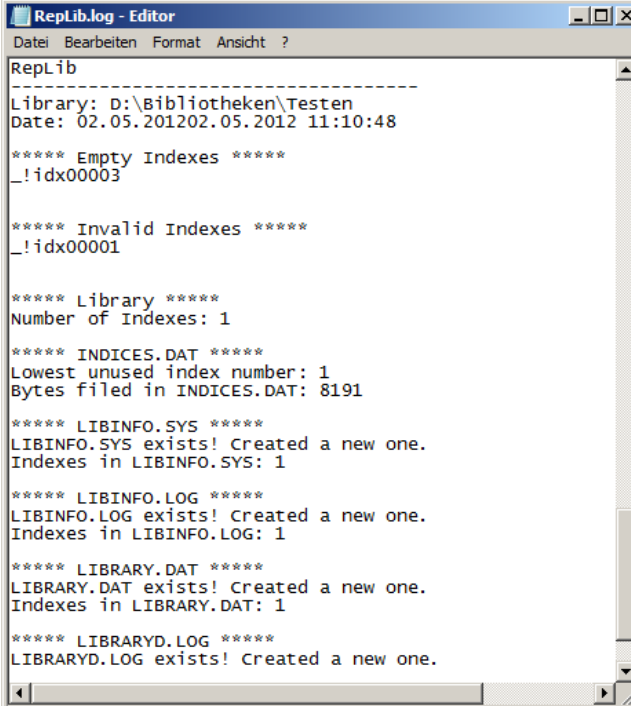
If RepLib finds no entry for an existing index in one of the both files LIBINFO.SYS and LIBRARY.DAT, it will add the index number, the actual date, and for the index name and the project code the word "unknown". The field with the version no. will be contain 00.00.00.

REPLIB.LOG

If RepLib has finished the repairing of the library the results will be added to the file REPLIB.LOG.

This file contains detailed information about what was done during the reparation of the library (e.g. are there incomplete or empty indexes, which files are newly created and so on).

```
RepLib.log - Editor
Datei  Bearbeiten  Format  Ansicht  ?
RepLib
-----------------------------------
Library: D:\Bibliotheken\Testen
Date: 02.05.201202.05.2012 11:10:48

***** Empty Indexes *****
_!idx00003


***** Invalid Indexes *****
_!idx00001


***** Library *****
Number of Indexes: 1

***** INDICES.DAT *****
Lowest unused index number: 1
Bytes filed in INDICES.DAT: 8191

***** LIBINFO.SYS *****
LIBINFO.SYS exists! Created a new one.
Indexes in LIBINFO.SYS: 1

***** LIBINFO.LOG *****
LIBINFO.LOG exists! Created a new one.
Indexes in LIBINFO.LOG: 1

***** LIBRARY.DAT *****
LIBRARY.DAT exists! Created a new one.
Indexes in LIBRARY.DAT: 1

***** LIBRARYD.LOG *****
LIBRARYD.LOG exists! Created a new one.
```

Comparing "Check library" and RepLib

CAD4U/CAMOD offers a function in the menu (LIBRARY/MAINTENANCE/ CHECK LIBRARY) for checking the integrity of drawings within the library which contains Blocks and Inserts.

Drawings not only consists of single elements like lines or circles, but also can contain complete Inserts or groups, see DRAW: DRAG INSERT, FRAME INSERT or CREATE GROUP.

Moreover imported DXF/DWG drawings sometimes includes Inserts, too. When importing such a drawing the Inserts will be filed in the library as block files.

Corrupt Inserts or Blocks could result in an error message when loading a drawing. In this case you can try to fix the corrupt insert or block with CHECK LIBRARY first. You can use one or all of the options for checking the library.

The difference between CHECK LIBRAY and RepLib is:

The function CHECK LIBRARY checks the integrity of drawings, whereas RepLib checks and repairs the structure of the library itself.