

**in**

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	<i>TITLE :</i> in		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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**REVISION HISTORY**

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# Chapter 1

## in

### 1.1 Contents

Manual: DeviceLock Version 1.2

=====

What is DeviceLock ?

Briefly: an Intuition-Interface with HotKeySupport for the  
CLI-Program LOCK.

DeviceLock allows the user to deny write access to certain drives. It  
is controlable by window and hotkeys. Needs OS 2.4 or higher. It  
supports some functions of 2.1 and 3.x. Details see  
Features

.

Don't blame me for the translation, do it better!.

Contents

You should at least read the chapters marked with !.

!

Copyright, Address

!

Warranty

About DeviceLock

Changes

Features

Arguments

!

Prefs

Operate & more

---

Requester  
Credits  
--->  
Quickstart

## 1.2 Copyright and Address

### Copyright

I try to translate the german version without errors.  
Nevertheless only the german version is valid!  
See german docs

DeviceLock, © 1994 by Thomas Wagner, Pyrbaum [tom].

You may publish the paket only on disks or other media which are free distributable or which are acessable without costs (PD disks, mailboxes). It is hereby explicitly granted to publish it on AMOK, FISH and AminetCD.

It is strictly forbidden to use the paket, sources or parts of the paket or the sources for commercial purposes.

It is allowed to change the program for personal purposes, but it is not allowed to publish the changed program or the sources without the knowledge of the author. This should only prevent the formation of many only slight different programs. I will further develop the program (it's only the question how fast!)

Send bug reports and improvements to the author (address below). Catalogs in other languages are welcome, too. If you want me to answer, please include SASE or use E-Mail.

The basic paket includes:

- DeviceLock
- deutsch/DeviceLock.guide
- english/DeviceLock.guide
- DeviceLock.prefs
- Catalogs/deutsch/DeviceLock.catalog
- DeviceLock.cd

This basic paket must be included completely to all publications.

All other parts (Oberon source, ...) are optional.

copyright notices, and they are to be respected!

### Address

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## 1.3 Warranty

Warranty

I try to translate the german version without any mistakes. Nevertheless only the german version is valid! See german docs

The author grants no warranty for any damage caused direct or indirect by the program. There is no guarantee to the functionality or efficiency of the program.

There's no warranty of any kind

(This may sound strange, but I don't ask any money for the program, so why should I held responsible for any damage?)

There might be programs that are very picky about not getting write access. Please test this with your often used programs. This should also be done with the following situation: drive is locked, requester (... is locked) appears, unlock, klick Retry on requester. It didn't have any problems up to now, but keep on the save side.

## 1.4 About DeviceLock

About DeviceLock

For the moment the program has the following status:

"It is (more than) sufficient for me"

## 1.5 Changes

New in version 1.1:

- + new options (preference file): KeyNorm, NormAllBeep
- format change for option Lock; Y und N OBSOLETE (but they still work)

Changes in 1.2:

- bad bug: because of changing to new Oberon interfaces in 1.1 the stack went a a bit small (who has a 2 GB stack?). This also causes DeviceLock to fail when trying to print an error message ...  
Thanks to Thomas Kobler for reporting the bug.
- If you started a new DeviceLock the earlier versions of DeviceLock only opened the window of the old program and the new terminated at

once. Now the old one terminates and the new one will proceed normal. This makes the procedure of finding your right prefs easier. ATTENTION: When changing the password you should quit DeviceLock normal (i.e. menu). If you simply restart DeviceLock, the old one will quit immediately without unlocking the drives. That may cause some trouble!

## 1.6 Features

- \* DeviceLock is a commodity
- \* font adaptive
- \* supports locale (OS 2.1 or higher)
- \* adapts size of checkboxes to font-height (only 3.0 or higher)
- \* supports SiyOnlyZoom (only 3.0 or higher)
- \* uses reqtools.library (© by Nico François) if V38 or higher is available
- \* controllable by hotkeys

## 1.7 Arguments

How to start DeviceLock

You can start DeviceLock from CLI or from Workbench. If you like the program: Copy DeviceLock into your WBstartup. The flag DONOTWAIT is already set. The proper place for the prefs is ENVARC:.

The template is:

```
SETTINGS/K,PS=PUBSCREEN/K,NOWARNINGS/S,TOOLPRI/N/K,  
CX_PRIORITY/N/K,CX_POPUP/K,CX_POPKEY/K
```

These are valid for CLI and as tooltypes for workbench start.

SETTINGS/K  $^1$

Load these settings instead of normal Prefs-File. You can use and name.

PS=PUBSCREEN/K  $^2$

Pubscreen on which to open window.

NOWARNINGS/S

Suppress warnings.

TOOLPRI/N/K ( $^3$ )

Set priority for DeviceLock. DEFAULT 1.

CX\_PRIORITY/N/K

---

HotKey priority. If two programs want to get the same hotkey the program with the higher priority get it first (and in most cases as the only one).

CX\_POPUP/S  $^2$

Open window on startup?

CX\_POPKEY/K  $^2$

Hotkey to open/close window.

CLI  $^3$

WB opens a requester to ask for parameters for CLI-Start.

Attention: If you specify this option all other options will be ignored.

DONOTWAIT  $^3$

You must specify this, if you want to place DeviceLock in your WBstartup drawer. In the distributed DeviceLock.info already set.

$^1$  DEFAULT: DeviceLock.prefs;

search path: - current drawer  
- ENV:  
- drawer of program

$^2$  These options are usually defined in DeviceLock.prefs.

CLI/WB arguments override arguments specified in DeviceLock.prefs.

$^3$  These options are used and interpreted by the Workbench.

## 1.8 DeviceLock.prefs

DeviceLock.prefs

IMPORTANT:

You must adapt DeviceLock.prefs to your own needs. Nevertheless it should work fine under standard 2.x Workbench (and should work with small changes on WB 3.0: change WB\_2.x into the device name of your system device).

You can add comments to the Prefs in three ways:

- SPACE in the first column;
- ";" everything after that is a comment.
- empty lines count as comments, too

The capitalization is not important for the comments and the version string.

Structure:

In the first line must be a valid version string for DeviceLock.Prefs Version 1 (Commodore norm; the date is not important for DeviceLock; you can change the revision as you like). The start column of the version string is not important but the line must be marked as comment (see example).

Example:

---



```
;$VER DeviceLock.prefs 1.45 (23.3.90)
```

Then you can add the options in (nearly) any order. The exceptions are DeviceName, PrintName, Passkey, Lock, HotKey. The form a special group.

The structure is the same for all options:

```
NameOfOption=Specification
```

The NameOfOption must start in the first column, then add the = (w/o space) then the Specification (w/o space, too). Everything between the = and the end of line or a comment (;) is considered Specification. But the Specification is right justified, i.e. the right spaces are removed.

If you don't specify an option the default value is used (if possible). For BOOLEAN values you can use Yes (short Y) or No (short N).

Now the "normal" options. If you specify one of these options multiple times only the last one is taken.

```
LeftEdge
```

```
Nothing to say  
Default = 0
```

```
TopEdge
```

```
Nothing to say  
Default = 0
```

```
LeftEdgeZoomed
```

```
Left edge for zoomed window  
Default = 0
```

```
TopEdgeZoomed
```

```
Top edge for zoomed window  
Default = 0
```

```
OpenWindow
```

```
Open window at startup? Equals the CLI/WB argument CX_Popup. CX_Popup  
overwrites OpenWindow!  
Default=Yes
```

```
OpenZoomed
```

```
Open window in zoomed state. It is possible to set OpenWindow=N and  
OpenZoomed=Y. In this case the window will opened in zoomed state when  
activated by hotkey.  
Default=No
```

```
CheckTime
```

```
DeviceLock checks after a period whether the state of the drives has  
changed or not and refreshes the gadgets. This value sets the period in  
seconds.  
Default=3
```

```
KeyLock $^1$
```

```
If you press the hotkey specified by this string all drives will be  
locked.
```

---

no Default, i.e. not specified, no hotkey

#### KeyNorm \$^1\$

If you press the hotkey specified by this string all drives will be set to "normal" state. Normal state is defined by the option "Lock".  
no Default, i.e. not specified, no hotkey

#### KeyWindow \$^1\$

If you press the hotkey specified by this string the window will be opened/closes. If you don't specify this you can open the window only with the exchange program. Equals the CLI/WB argument CX\_Popkey. CX\_Popkey overwrites KeyWindow!  
no Default, i.e. not specified, no hotkey

#### KeyFront \$^1\$

If you press the hotkey specified by this string the window tries to open on the frontmost screen. This is not possible if

1. the first screen is no pubscreen
2. it is in private mode

If this fail, the window will be opened on the default pubscreen.  
no Default, i.e. not specified, no hotkey

#### PubScreen

Name of the pubscreen on which to open DeviceLock on startup. Same restrictions as KeyFront.  
kein Default d.h. nicht angegeben = wird auf DefaultPubScreen geöffnet

#### LockString

This string is used to construct the executable string to LOCK the drive. There must be two %s in this string. So "lock %s on %s" is expanded to for example "lock Work: on ThisIsMyPassKey".  
Default = "lock %s on %s" (there should be no need to change this, but who knows ...)

#### UnlockString

This string is used to construct the executable string to UNLOCK the drive. There must be two %s in this string. So "lock %s of %s" is expanded to for example "lock Work: on ThisIsMyPassKey".  
Default = "lock %s off %s" (there should be no need to change this, but who knows ...)

#### SizeOnlyZoom

If this flag is set to Yes, then pressing the ZOOM gadget only performs a size only zoom, i.e. the left and top edge of the window don't change (if possible). This option is effective only with OS 3.0 or higher.  
Default=Yes, if OS 3.0 or higher  
No, else

#### UnlockBeep

To prevent unlocking one drive accidentally by hotkey, you can specify with this option to perform a DisplayBeep whenever an unlock hotkey is pressed.  
Default=Yes

#### LockAllBeep

If enabled, every use of the hotkey which locks all drives performs a DisplayBeep. Attention: If you enable UnlockBeep and LockAllBeep you can't distinguish between LockAll and Unlock!

---

Default=No

NormAllBeep

If enabled, every use of the hotkey which normalizes all drives performs a DisplayBeep.

Default=No

The following options are known and are processed, but they have no function. Therefor they are not explained any further.

NotifyDL

RemPosition

Now the special options:

Devicename

Allocates memory for the drive and set default values for the other special options. This option must be specified at least one time (it is the purpose of this program to "handle" drives). You must specify this option before the other special options, to specify which drive should be changed. If you specify one of the other special options before the will be ignored.

You can specify this option multiple times without overwriting older specifications. This value replaces the first %s in the (Un)Lock string.  
NO DEFAULT POSSIBLE

No you can change the default values of the new generated drive:

PrintName

The name printed besides the checkbox gadget.

Default=Devicename

PassKey

The password to lock the drive. Replaces the second %s in the (Un)Lock string.

no default

Lock

Defines the normal state of the drive. The drive is set to this state after the start or after the hotkey KeyNorm.

Possible values:

+ locked

- unlocked

\* keep actual state

Default=+

HotKey \$^1\$

If you press the hotkey specified by this string, this drive will be unlocked.

no Default, i.e. not specified, no hotkey

\$^1\$ What descriptions you can use depends on the version of the operating system. You can find details in the documentation to your computer.

Typical examples are in DeviceLock.Prefs.

---

## 1.9 Operate & more

Usage:

Here's a short help to use the program:

Note: All texts are described in english. If you use a catalog they will appear in an other language.

Menu

Gadgets

Other

## 1.10 Menu

The menu:

Project:

LOCK LOCK's all drives

UNLOCK UNLOCK's all drives

Version, Copyright ... Open gadget with version and copyright notice

Hide Closes window  
ATTENTION: does not quit the program

Quit ... Quit after confirmation. If all drives are unlocked there will be no confirmation requester!  
This requester can also questioned to not touch the lock-state of the drives (be careful!)

## 1.11 Gadgets

Gadgets:

CLOSE: Closes the window  
ATTENTION: does not quit the program

LOCK: LOCK's all drives

With the checkboxes you can (UN)LOCK a single drive. A checkmark indicates that this drive is locked.

If a checkbox is ghosted, this drives is not accessable.

---

## 1.12 Other

Other:

- \* If the window is zoomed, the width is adapted to the number of the drives (there are max. 20 drives shown in the title). The title shows the status in the order of the drives:
  - + write enabled (UNLOCK)
  - write disabled (LOCK)
  - not accessable
- \* Pressing the left mousebutton in the window, but not on a gadget or the title, alldroives will be checked immediately.
- \* If the window is activated there is NO automatic check of the drives, and no refresh of the gadgets and the title (Exceptions: LOCKALL, Menu-select and left mousebutton). This is because there are problems with refreshing while pressing a gadget.
- \* Quitting DeviceLock with Exchange results in unlocking all drives (no confirmation requester).
- \* All hotkeys are functional even when the window is closed ...
- \* Maximum's:
  - Length of the drivename (for gadgets) : 20 characters
  - Length of the DOS-drivenamne : 20 characters
  - Length of the password : 30 characters
  - Length of the pubscreen name : 60 characters
  - Length of the string with the two %s : 30 characters
  - Länge der Strings mit den zwei %s : 30 characters each
  - Number of drives : MAX(INTEGER)

If you exceed these values there will be a warning and the string will be truncated.

ATTENTION: You need Oberon Interfaces for OS 3.x in order to compile these program!

Notes

- \* If you start a new DeviceLock while another is still active, the old one immediatley quits (without unlocking the drives).
- \* It was intention not to localise the string "All rights reserved." in the screentitle.
- \* I added some features to ensure fully functionality for removable medias (disk drives), but the program was designed for not removable medias (harddrives).
- \* The program can prevent some viruses from writing to the drive (AS LONG AS IT IS LOCKED), but this is not the purpose of the program and so doesn't fulfill this task very well!

Hints

---

- \* Make lock (CLI command) resident. Speeds up (un)locking.
- \* Delete options set identical to defaults. Makes the file shorter and speeds up the "compiling" time.
- \* Delete comments and spaces after options. Makes the file shorter and speeds up the "compiling" time.

## 1.13 Warnings, Errors

Warnings, Errors

Warnings

Errors

## 1.14 Warnings

Warnings:

Common: Warnings don't quit the program. There might be a requester to quit the program.

You can choose between these alternatives to answer the following warnings:

```
Proceed
  Proceed with the program.
No further warnings
  Proceed with the program and suppress further warnings.
Quit
  Quit the program.
```

Cannot add '<HotKey>'
 For some reason I can't add <HotKey>. Perhaps memory allocation failed.

'<HotKey>' is not a valid hotkey
 The <HotKey> description is invalid. Maybe wrong spelled.

Original string was too long, stripped down to '<String>'
 One of the length limited strings (
 Maximum's
 ) is too long
 and was stripped to <String>.

Converting '<...>' into number failed. Treated as 0.
 <...> is no number or is too big. I instead use 0 for the number.

I cannot interpret BOOLEAN value '<...>'. Treated as FALSE.

---

Only Y and N (and of course y and n) are valid. I treated the value as FALSE (No).

'<...>' invalid format. These line is ignored.  
'=' is missing or there is nothing after the '='.

Unknown option '<...>'.  
The line is build correct, but <...> is an unknown option.

The following warnings (called "problems") can only be noticed. There's no way to supress them:

Can't lock '<Device>'  
LOCK ON was executed, but the drive is not locked now. One cause is drives not supporting the LOCK-Packet (like Ram-Disk).

Can't unlock '<Device>'  
LOCK ON was executed, but the drive is still locked. One cause is that the drives was previous locked with another password.

## 1.15 Errors

Errors:

After an error occured, the program quits. You can only notice the error requesters.

<PROCEDURE> failed  
For some reason this (internal) PROCEDURE couldn't be executed.  
Probably insufficient memory. In extreme cases, even this requester myay not pop up!

Can't execute »lock ... on«  
What should I say more!

Can't execute »lock ... off«  
What should I say more!

Specified settings are no »DeviceLock.Prefs«.  
You specified a preference file which is NO real DeviceLock preference file. Perhaps you forgot the version line or it is in a wrong position.

I can't find/read given settings  
A specified preference file doesn't exist or is read protected.

No valid »DeviceLock.Prefs« in path.  
There was a »DeviceLock.Prefs«, but it is no valid preference file.  
Perhaps you forgot the version line or it is in a wrong position.

I can't find »DeviceLock.Prefs« in path.  
In the search path (cureent dir, ENV:, PROGDIR:) there's no preference file.

Some Problems while reading ToolTypes

---

For some reason the module WBReadArgs couldn't interpret the tooltypes.  
Perhaps you specified a string instead of an integer number.

No drive specifications in settings

There is a valid preference file, but there are no drive specifications.

## 1.16 Credits

Credits to (alphabetical order):

Freddy

hartmut

and of course to following persons (order by rolling dices ;-)

Program	catcompMO	Oliver Knorr [olk]
Module	HotKey.mod	Thomas Igracki
Module	Printf.mod	Volker Rudolf
Module	MoreIntuition.mod	Michael Hohmann [mick]
Module	ReqTools.mod	Kay Bolay [kay]
Library	reqtools.library	Nico François
Module	WBReadArgs.mod	hartmut Goebel [hG]

## 1.17 Quickstart

Quickstart:

For Quickstarters, too:

DeviceLock, © 1994 by Thomas Wagner, Pyrbaum [tom].

for more see

Copyright  
, exact see german docs .

The author grants no warranty for any damage caused direct or indirect by the program. There is no guarantee to the functionality or efficiency of the program.

There's no warranty of any kind

for more see

Warranty  
, exact see german docs .

You can try DeviceLock:



Copy DeviceLock (with DeviceLock.info) to Wbstartup and DeviceLock.Prefs to ENVARC: and ENV:

Perhaps you must adapt "DeviceLock.Prefs" to your system. Restart DeviceLock after changing the Preferences to load the new one.

Important for testing: Unlock all drives when exiting the program or the drives may stay write disabled!

Thats the reason why the passwords in the demo prefs are commented out.

---