



## **Hardlock Release 03/2002**

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## What's new in the 03/2002 Release

Please also refer to the Hardlock manual addendum in the MANUALS directory on the CD for detailed information.

### Crypto-Programmer Card for PCI

From 10/2001 on the Crypto-Programmer Card is available for the PCI slot. You require at least the following drivers in order to use the new CPC PCI:

	Windows 98/ME	Windows NT 4	Windows 2000	Windows XP
HLDINST 4.55	Required	Required	Required	Required
HARDLOCK.SYS 2.80	-	Required	Required	Required
HARDLOCK.VXD 2.70	Required	-	-	-
AKSCPC.SYS with AKSCPC.INF 1.0	Required	-	Required	Required

Use the installation programs on the 03/2002 CD in order to install the normal Hardlock drivers. The additional files requested by the **New Hardware Wizard** after the hardware installation (AKSCPC.SYS and AKSCPC.INF) can be found in the HARDLOCK/CPCPCI directory.

You require one of the following software versions for encoding:

- Bistro 2.4 or later
- CP32.EXE 1.22 rev.1.35
- HLPROG 2.03

### Hardlock LiMaS

The Hardlock LiMaS package consists of the following two parts:

#### HL-RUS

Sublicensing and remote update system for Hardlock. Hardlock RUS gives you the capability to use licensing schemes like expiration dates, execution counter and sublicensing for Hardlock modules with memory option. HL-RUS can be implemented for local and for remote use via API calls or HL-Crypt. The Hardlock RUS system is only available for Win32 and Linux (API only). For further information please refer to your Hardlock documentation.

Now it is possible to access the complete Hardlock Bistro and HL-Crypt for Win32 with a remotely connected red HL-Crypt module.

#### HL-DB

Hardlock Database to track all information about encoded Hardlock modules and RUS updates. HL-DB in addition includes a complete customer database with the possibility to make queries using filters and export data to common database formats.

#### Note

You need to purchase Hardlock LiMaS separately if you want to use it. You are able to test the complete functionality with some limitations (e.g. only 10 customers in HL-DB, no RUS support except for demo modules) using a demo Hardlock with module address 29809. Hardlock LiMaS is supported and sold in Europe only. For more information about purchasing please contact your local Hardlock representative.

## Hardlock Bistro 2

Hardlock Bistro 2 is the GUI for Hardlock. Hardlock Bistro allows you to encode your modules, protect your application, keep track of your updates and modules and to test the Hardlock API.

See the history section for bug fixes. For detailed information about the new features please refer to the Hardlock Bistro online help.

### New in version 2.5

Improved error reporting when connecting customer databases with HLDB.INI: Errors in the SQL SELECT statement are reported with reference to field. Errors in the SORT variables are handled and reported.

Synchronized version info of executables and dynamic libraries.

### Known limitations in this version

Filters in Gazzetta: If creating a filter with both Hardlock field and customer field criteria, and the criteria lines of at least one Hardlock field and customer field are connected with "or", the filtered tree view won't show customers without Hardlocks.

Example:

- Add criteria "zip code greater than 50000"
- Add criteria "Serial number lower than 5000"
- Connect these with "or"
- Result: Customers without Hardlocks won't be shown although they have a zip code greater than 50000.

### Note for Bistro version < 2.x

Large parts of Hardlock Bistro have been changed to make use of the Hardlock RUS and Hardlock DB functionality. Therefore old projects created with Bistro versions < 2.x are not compatible with Bistro2. Using local sublicensing, expiration date and dead counter is substituted by the new HL-RUS system. If you need to retain compatibility for old projects, you have to use Hardlock Bistro Version 1.3 (located under \HARDLOCK\BISTRO\ on your Hardlock CD).

## Aladdin Monitor

Aladdin Monitor, Version 1.2

The application comes with an redistributeable GUI setup in the REDIST directory.

The program enables end-users to:

- Check all HL-Servers in the network,
- Access a local service under NT,
- Perform license updates (HL-LiMaS).

For details please refer to the online help file.

### New in version 1.2

Support for HASP License Manager. Smaller bug fixes, see history below.

### Known limitations in this version

HL-LiMaS global counter settings are currently not transferred to the Monitor GUI.

## Aladdin Diagnostic for Win32

Aladdin Diagnostic, Version 9.10

The Aladdin Diagnostic tool lets you check all the information in your system relating to both HASP and Hardlock modules. Furthermore, you can create a report containing data for Aladdin devices, their version numbers, and other relevant information in your system using this tool.

The application comes with an redistributeable GUI setup in the REDIST directory.

For details please refer to the online help file.

### New in version 9.10

German Dialogs have been added to the Aladdin Diagnostic. If the Regional Settings are set to any of the german cultures, the dialogs will be shown in German.

## Hardlock Device Driver

Device drivers are necessary to access the Hardlock hardware under various operating systems. A device driver is required for all Windows systems if you want to access a local module.

### Driver versions

Hardlock.vxd	2.90
Hlvdd.dll	2.15
Hardlock.sys	2.90
Akspccard.sys	1.01
Aksusb.sys	1.28
Aksusb95.sys	1.25

### Driver installation API version

hinstd.dll	4.70
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### New in these versions

The driver aksusb.sys has passed the Windows Hardware Quality Labs (WHQL) successfully. The Windows XP driver signature for aksusb.sys has been added to the installer 4.70.

The Driver installer version 4.70 includes new driver akscpcard.sys for PCCard that will be installed first time a PCCard is installed. The new driver avoids previous problems when removing PCCard. The driver has passed the WHQL successfully and the signature is provided in the akscpcard.cat-file, the old inf-files aks\_mf.inf and hlntcard.inf won't be installed anymore and will be deleted automatically by driver installer version 4.70.

### Note on Windows NT 3.51

The driver installation does not support Win NT 3.51 anymore. Please contact our technical support if you still need support for Win NT 3.51.

## Hardlock API

The Hardlock API provides you with objects, libs and sample applications to demonstrate how to implement manual Hardlock queries to your source code. Please compile the appropriate sample first before implementing Hardlock API calls into your application. Please refer to the sample batch files of the samples to get information about which libs to use. All functions can be tested with Latteccino (part of Hardlock Bistro).

### RUS API functions (Win32/Linux only)

Please refer to the directory `hardlock\rus\` on your CD for sample implementations.

Currently available via API only if using the libraries:

- `hlw32_mc.lib` (Microsoft C),
- `hlw32_bc.lib` (Borland C),
- `hlw32_gc.lib` (GNU C),
- `hlw32_wc.lib` (Watcom C) or
- `Hardlock.arx` (AutoCAD)
- `hlvdd.dll` (Hardlock Win32 DLL)

Additional implementations and samples will be available on request.

Note: If you use the new Win32 libraries, applications running under Win32s (on Win3.x) are currently not supported. If you need to maintain compatibility, please use the older object files or contact our technical support.

### New API Samples

- Java samples supports Hardlock Server and Hardlock LiMaS
- C#-samples for Hardlock and Hardlock LiMaS

## Hardlock for Linux

Hardlock offers full API support for Linux, including access to parallel/USB Hardlock modules and HL-Server access using TCP/IP and IPX.

### New in this release

HL-Server for Linux, can be run as daemon or as application. See Hardlock Server section for additional details

### New version 1.04

New driver, supports the latest linux kernels up to version 2.4.18.

Please check our ftp server at <ftp://ftp.aladdin.de/pub/hardlock/linux> for drivers supporting latest kernel versions.

## HL-Crypt

HL-Crypt encrypts your ready compiled and linked executable and implements Hardlock protection automatically into your application. In addition, HL-Crypt provides the ability for on-the-fly data protection. HL-Crypt is the functional backend for Hardlock Espresso (part of Hardlock Bistro).

### New versions

HL-Crypt for Win32    2.23

### New in version 2.23

The new version supports automatic data protection under Windows XP.

The following new switches have been implemented:

- drvwait    Enables you to increase the time interval for searching for a driver.
- quiz       Specifies how often random data are encrypted and decrypted using the Hardlock module.

Note that these options are not yet contained in the Espresso interface, but can be set using the Espresso Option box.

Please refer to the Hardlock manual addendum in the MANUALS directory on the CD for detailed information.

## Hardlock Server

HL-Server provides Hardlock access using a network.

### New in this release

- HL-Server for Linux, can be run as daemon or as application
- Fully compatible with Win32/NLM versions
- Supports IP (UDP)
- No LiMaS support

### New versions

HL-Server Service for NT/2000	4.32
HL-Server Application for Win9x/ME	4.32
HL-Server Daemon/Application for Linux	4.46

Smaller bug fixes, see history below.

## Hardlock SE

### New in this release

- Now HL-SE API supports all Win32-platforms.

## Notes about Windows XP

The complete Hardlock Release was tested under Windows XP. We did not encounter any problems, but there are some restrictions concerning Hardlock usage:

- You require at least the following driver versions in order to use the Hardlock system under Windows XP:

HLDINST	4.55
HARDLOCK.SYS	2.80
AKSCPC.SYS with AKSCPC.INF (for PCI)	1.0
- If you want to use data encryption when protecting your programs automatically with **HL-Crypt** or **Espresso**, you have to repeat automatic implementation using the current program versions.

The behaviour of Hardlock under Windows XP is similar to the behaviour under Windows 2000.

## Notes about Windows ME

The complete Hardlock Release was tested under Windows ME. We did not encounter any problems, there are no restrictions concerning Hardlock usage.

Windows ME is treated as Windows 98.

## Notes about Windows 2000

The complete Hardlock Release was tested under Windows 2000. We did not encounter any problems, but there are some restrictions concerning Hardlock usage:

- Hardlock applications linked with API < 3.20 (older than June 1994 Hardlock Release) do not run under Windows 2000 by default.
- Hardlock Crypto Programmer Cards and Hardlock Internal cannot be used under Windows 2000 if configured on port 0x278 due to current Windows 2000 implementation (the port 279 is usually already used by the Windows 2000 ISAPNP Read Data Port driver).

If you encounter problems under Windows 2000 accessing a local Hardlock key, we suggest to configure the parallel port of your system to 0x278.

## Directory structure on Hardlock CD

Depending on the software options you install, the following directory structure will be created by the installation program. Please note that your sample application may access files from different directories (e.g. API\SRC) to compile/run correctly.

```
\REDIST                                ;Hardlock components for redistribution.
\HARDLOCK
|
|---ACAD                               ;Autocad sample
|---AKSDIAG                            ;Aladdin Diagnostic tool
|---AKSMON                             ;Aladdin Server Monitor
|---API                                ;DOS objects & librarys
|   |---NLM                            ;Netware NLM objects
|   |---OS2                            ;OS/2 DLL files
|   |---SRC                            ;API sources & include files
|   |---WIN                            ;Win3.x objects, librarys & DLL
|   +---WIN32                          ;Win32 objects, librarys & DLL
|       |---BORLANDC                   ;Win32 Borland C specific objects
|       |---MSC                        ;Win32 MS C specific objects
|       |---FOXPRO                     ;Win32 Foxpro FLL
|       |---GNU                        ;Win32 GNU C specific objects
|       +---WATCOM                     ;Win32 Watcom C specific objects
|---ASM                               ;Assembler samples files
|---BASIC
|   |---MS-BASIC                       ;Microsoft Basic sample
|   |---POWER                          ;Power Basic sample
|   +---VISUAL                         ;Visual Basic sample
|---BISTRO2                           ;Hardlock Bistro2 executables
|---BPASCAL                           ;Borland Pascal DOS & Win samples
|   |---DELPHI                         ;Borland Delphi 16/32bit samples
|   +---OS2                            ;Borland Pascal OS/2 sample
|---C                                  ;C samples
|   |---DOS                            ;DOS C sample
|   |---NLM                            ;Netware NLM sample
|   |---OS2                            ;OS/2 C sample
|   |---WIN                            ;Win16 C sample
|   |   +---EXTENDER                   ;Watcom 32bit Extender sample
|   +---WIN32                          ;Generic Win32 C sample
|       +---MSSTUDIO                   ;Project for MS Visual Studio
|       +---BCB3                       ;Sample for for Borland C Builder
|---CLIPPER                           ;Clipper sample
|---COBOL
|   |---REALIA                         ;Realia Cobol DOS sample
|   |   +---OS2                        ;Realia Cobol OS/2 sample
|   |---RMCOBOL                       ;Ryan MacFarland Cobol sample
|   +---VISUAL                         ;Visual Cobol sample
|---CSHARP                            ;Microsoft C# sample for .NET
|---CP                                ;Crypto Programmer Software API & Tools
```



```

| +---DOS ;Crypto Programmer Software DOS
| +---WIN32 ;Crypto Programmer Software WIN32
| +---SAMPLES ;Watcom 32bit Extender sample
| |---C ;CP API sample for C
| |---DELPHI ;CP API sample for Delphi
| +---VB ;CP API sample for Visual Basic
|---CPCPCI ;Crypto-Programmer Card PCI driver
|---DECALPHA ;Windows NT DEC Alpha drivers
|---DOC ;Readme files & Documentations
|---DRIVER ;Driver files for Windows
| |---API ;Device Driver Installation API
| +---OLDINST ;Old install executables
| +---SAMPLES ;Device Driver Install API samples
| +---CMDLINE ;comandline sample written in C
| +---VB ;sample for 32 bit Visual Basic
| |---WIN3X ;Device drivers for Windows 3.x
| |---WIN95 ;Device drivers for Windows 95
| |---WIN98 ;Device drivers for Windows 98/ME
| |---WINNT ;Device drivers for Windows NT4
| |---WINXP ;Device drivers for Windows XP/2000
|---FORTRAN
| |---DIGITAL ;DIGITAL sample
| |---LAHEY ;Layhey90 Fortran sample
| |---LAHEY95 ;Layhey95 Fortran sample
| |---POW-FOR ;MS Power Fortran DOS sample
| | +---NT ;MS Power Fortran Win32 sample
| |---RM ;Ryan Macfarland Fortran DOS sample
| |---SALFTN ;Salford Fortran sample
| | +---NT ;Salford Fortran Win32 sample
| +---WATCOM ;Watcom Fortran DOS,WIN32,OS/2
|---FOXPRO ;Foxpro sample
|---HL-CRYPT ;HL-Crypt for DOS, Win16 & Win32
|---HL-TOOLS ;Some Hardlock tools
|---HLSERVER ;Hardlock Server
| |---DOS ;Server for DOS (TSR)
| |---NLM ;Server for Netware (NLM)
| |---LINUX ;Server für Linux (daemon and application)
| +---WIN32 ;Win9x/98 (Win32) and NT/2000 (service)
| +---INSTALL ;HL-Server Install API
| +---SAMPLES ;HL-Server Install API samples
| +---CMDLINE ;command line sample written in C
|---HL-WEB ;Hardlock WEB proxy and setup
|---JAVA ;Java implementation for Hardlock
|---LABWIN ;Windows DLL for LabWindows/CVI
|---LINUX ;Linux Driver, Tools & Sample
| |---HLSERVER ;HL-Server for Linux (daemon and application)
|---MACRO ;WinWord & Excel sample
|---MODULA
| |---JPI-MOD2 ;JPI Modula sample
| +---LOG-MOD2 ;Logitech Modula sample

```

```
|---MSACCESS           ;MS Access
|---PCICARD            ;Drivers for Aladdin PCI cards
|---PCMCIA             ;Hardlock PCMCIA DOS utilities
|---RUS                ;Hardlock RUS samples
|  |---DELPHI          ;Hardlock Delphi Win32 sample
|  |---VB              ;Hardlock Visual Basic Win32 sample
|  |---BC              ;Hardlock Borland C Win32 sample
|  |---CSHARP          ;Hardlock Microsoft C#-Sample for .NET
|  |---GCC             ;Hardlock GNU C Win32 sample
|  +---MSC             ;Hardlock Microsoft C Win32 sample
|---SCO                ;SCO PC Unix implementation
|---SERIAL             ;Hardlock SE
|  |---C               ;Hardlock SE C DOS sample
|  |  +---WIN          ;Hardlock SE C Windows sample
|  |---DOC             ;Hardlock SE documentation as PDF files
|  +---CLIPPER         ;Hardlock SE Clipper sample
+---SOLARIS            ;Solaris x86 Hardlock driver
+---XBASE              ;Alaska Xbase Win32 sample
```

## Bug fixes & Release History

API:

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- 3.78 - \*\*\*Included in hlvdd.dll 2.15 and in Win32 libraries\*\*\*
  - Bug fix: HLM\_CHECK\_COUNTER 16-bit overflow fixed.
- 3.77 - Some return code clean ups for the LiMaS/RUS system.
  - Bug fix: Xbase sample return codes on Win9x fixed.
  - Changed HL\_SEARCH handlig, USB keyword supported.
- 3.76 - Enhanced security for Win32 applications.
- 3.75 - Bug fix: on some circumstances the RUS variable information block was destroyed during update.
  - New API functions: HLM\_LOGOUT (same as HL\_LOGOUT), HLM\_CHECKSLOT (retrieve RUS slot information in one call), HL\_ERRMSG (display Hardlock API error message by API return code).
  - Bug fix: local only compiled LIB (hlw32lmc.lib) did not support key attached to the serial port.
  - Bug fix: hlw32\_mc.lib/hlw32lmc.lib used default lib "LIBC" and conflicts with use of other libs.
- 3.72 - Bug fix RUS only: fixed a problem in date fake recognition
  - Bug fix RUS libs and HLVDD.DLL only: unexpected results when calling HL\_CODE on HL-Server with more than 22 blocks.
  - Added RUS Visual Basic Win32 sample.
  - Added RUS Delphi Win32 sample.
- 3.70 - Added demo for Alaska XBase (Win32)
  - Added demo for Lahey Fortran95 (Win32)
  - Linux API now supports network access to HL-Server via IP and IPX.
  - Hardlock RUS support for Linux
  - API detects and prohibits local key access under Citrix Winframe/MS Terminal Server.
- 3.68 - New HighAPI function: HL\_READID
  - The function can be used to retrieve the unique serial number of your Hardlock USB.
  - Added sample implementation for DIGITAL Fortran.
- 3.65 - Added api\win32\msc\hlw32\_mc.lib and hlw32lmc.lib. Microsoft style libs, so the single Hardlock objects don't have to be linked separately.
  - Bug fix: Added a pragma pack for Watcom 11/32 bit DOS in FASTAPI.H
  - Added support for Linux x86.
- 3.63 - On some serial interfaces not compliant to the standard, the memory contents of Hardlock Twin got lost. To avoid this the search for the key is no longer performed with 115k baud.
  - Win16 applications using HL-Server over IPX, small bug in socket handling was fixed, should only have been seen on Win95.
  - HLAPI\_FP.PLB: crashed on Foxpro 2.x for DOS: fixed.
  - HLAPIVFP.FLL: now also works in VFP 5.
  - Modified Visual Basic demo for better work with VB 5.
- 3.60 - Added support for License Management (HL\_LMLOGIN function).
  - Prepared API for HL-LiMaS.

- Bug fix: Handle problem with Foxpro FLLs and PLBs.  
Foxpro crashes after a Hardlock function (HL\_CODE, HL\_WRITEBL) is called 1024 times.
- Added support for SUN Solaris x86.
- With new HLVD.DLL programs running under Windows NT 4.0 linked with API versions lower 3.20 can now access Hardlock On Card or Hardlock attached to the Crypto Programmer Board.
- Windows NT/Windows 95/Windows 3.1 Drivers: you need to update the drivers to use it with the new API. Old programs will work also with the new drivers.
- Fixed a problem with MS-Access called from Visual Basic under Windows NT.
- Fixed a problem with Client (16bit Windows, TCP/IP) only running for a limited time. After this the server will not be found anymore  
and/or a message box "bind error" (or similar) pops up.
- Added 16 bit DLL for LabWindows/CVI.
- Added batches for Watcom 11 C support. Watcom changed the object format for Win32 programs.
- 3.53 - Added Hardlock VxD Support for Windows 3.x
- Search string also supported for SCO Unix.
- 3.52 - Added demo for Delphi 2
- Added TCP/IP support for Win16 & Win32 programs for use with HLS32
- Support for DEC-Alpha running Windows NT
- 3.50 - Added support for Hardlock II, Twin Protection.
- HL\_SEARCH=xxxs (xxx = serial port address) is now supported.
- Added demo for Visual Basic 4
- Added demo for Fortran PowerStation 4
- Added demo for Delphi 1
- Added demo for Visual FoxPro
- 3.25 - Bug fix: API returned 7 (NO\_DONGLE) on a full HL-Server licensed to one. Now 256 (TOO\_MANY\_USERS) is returned correctly.
- Support for remote access to HL-Server from Win32 programs.
- ECP port, Japanese NEC and Compaq Contura Docking Base support added  
(please refer to SEARCH.\* text file for detailed description).
- Bug fix for IBM PS/2 not longer statically compiled in the API, but selectable thru the search string.
- Search string also supported for Salford C/Fortran.
- 3.23 - Search string feature added to API.
- Network support for DOS/Win16 programs running under Windows NT.
- SCO Driver: you need to update the driver to use it with new API (changed some internal structures).  
Old programs will work also with the new driver.
- NT Driver: you need to update the driver to use it with new API (prepared internal structures for remote Hardlock use).  
Old programs will work also with the new driver.
- 3.22 - Watcom: Solved Stack problem for Watcom Windows Extender.
- Symantec C++: Added objects for Symantec Win32 applications  
(in directory \API\NT\_W32S\SYMANTEC)

- Symantec C++: DOS Extender problems are no longer existent (with our current Beta Version of Symantec C++ 7.0 Beta 4 executables are NOT yet running under NT even without Hardlock).
- Borland C++ 4.02 Power Pack DOS Extender: This DOS Extender produces WIN32 files, consequently our API\_3NLM.OBJ must be linked.
- Ryan McFarland Fortran now supported.
- 3.21 - Bug fix for access to HL-Server 2.20 or earlier
- Bug fix: NT HLVDD.DLL works only on port \$378 while intercepting I/O of old application.
- Bug fix: NT HARDLOCK.SYS works only with 0 (=autodetect) API setting for port search,
- Bug fix: Windows 3.20 DLL has different ordinal numbers than versions < 3.20. Version 3.21 now has the same numbers as the older versions. Sorry.
- 3.20 - Full Windows NT/Win32s Support added (NT programs, Win16 Box, DOS Box)
- Directory structure of API/implementations changed
- New implementations for
  - Power Basic 3.x
  - mbp Visual Cobol
  - SCO Unix
- 3.18 - SAP routines for OS/2 implemented.
- The OS/2 DLLs now also work with OS/2 1.3

#### HARDLOCK.SYS:

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- 2.90 - Solves TWIN-problem after hibernate. After hibernate, the TWIN dongle could not be found at first login attempt.
- 2.80 - Extensive Windows XP support
  - Support for automatic data protection under Windows XP
  - Bug fix: "Cannot start automatic data protection" on systems with NTFS file system only fixed
- 2.65 - Support for Hardlock Crypto-Programmer Card PCI added.
- 2.50 - First internal: preparations for XP.
- 2.45 - Bug fix: an invalid port was accessed.
  - Added PCI Card support. Driver asks system for port list.
- 2.35 - Added enhanced security for Win32 applications.
  - Bug fix: USB key not found if machines has no parallel port.
  - Bug fix: application crashed on huge file encryption under Windows 2000.
  - Serial key was not recognized on some Windows 2000 installations.
  - Solved problem with the sharing flag, data file handling sometimes did not work correctly.
  - Bug fix: encoding with many files failed with an error.
- 2.32 - On some machines, the parallel key was not recognized after Windows 2000 Hibernation.
- 2.31 - Driver could not be loaded on NT using different HAL than Microsoft Hal.

- 2.28 - Bug fix: return code was not updated properly after HL\_WRITE and HL\_WRITEBL performed on a USB key.
- Automatic protection: support for exe files with more overlay types
- Some smaller bug fixes.
- Bug fix for accessing Hardlock Internal and CP-Card.
- Adapted driver for Windows 2000
- Windows 2000: bug fix for the case the PCMCIA is plugged before installing the driver.
- 2.25 - Added Hardlock RUS support.
- Includes workarounds to resolve compatibility problems of AntiVirus scanners like Norton and McAfee.
- Bug fix: PortAllocFunctionality did not work correctly.
- 2.20 - ECP support: added ECPRetry, PortAllocFunctionality and PortAllocCount values.
- Added PCMCIA support under Windows 2000 (beta).
- 2.17 - ECP enhancements.
- some small bug fixes for Data loader support.
- 2.13 - Bug fix: problems while running data loader & anti virus software (NAV, Sophos).
- 2.10 - Added support for data loader for Win 16 programs running under Windows NT.
- 2.00 - Full support for Win32 programs protected with HLCWin32 using our on the fly data encryption (data loader).
- 1.93 - Fixed: driver hangs on Cyrix 6x86 machines. (these processors identify themselves as Pentium, but they're not 100% compatible...)

#### HARDLOCK.VXD:

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- 2.90 - Small insignificant changes
- 2.70 - Support for Hardlock Crypto-Programmer Card PCI added.
- 2.50 - Bug fix: system crashing if no key was connected at driver load.
- 2.45 - Bug fix: an invalid port was accessed.
- Added PCI Card support. Driver asks system for port list.
- Bug fix: Hardlock Twin was not recognized on serial port on some Win9x/ME systems.
- 2.35 - Added enhanced security for Win32 applications.
- 2.30 - Bug fix: return code was not updated properly after HL\_WRITE and HL\_WRITEBL performed on a USB key.
- Bug fix: USB requests may have caused port access to 0xf000 by mistake
- 2.14 - Added Hardlock RUS support.
- 2.12 - ECP support: added ECPRetry value.
- Bug fix: Data loader running on Win9x using Netware Client32 creates huge files.
- Bug fix: Old revisions of CP Card not found on Win9x
- 2.10 - ECP enhancements.
- Speed enhancements under Win 9x using -sec:6 encryption level (only in combination with latest HL-Crypt Win32).
- 2.08 - Added USB Support.

- 2.05 - Fixed: the driver hanged the system on some Japanese Win95 installations if online data encryption was used.
- Bug fix: Hardlock PCMCIA not found on TI PCCard controller under Win95 (e.g. HP Omnibook 800CT).
- 2.00 - Automatically detect systems containing the buggy TI PCMCIA controller PC1130. The controller has a bug in hardware that unfortunately is not fixed by the controller driver coming with Win95/98. Our VxD detects this controller and configures it to solve this bug.
- Driver now survives being installed several times in system.ini under Win 3.1x.
- Fully compatible with Windows 98 Beta 2. Old versions did not work under Win 98 if HLWCrypt protected applications were used!
- Full support for Win32 programs protected with HLCWin32 using the on the fly data encryption (data loader).
- 1.46 - Fixed: driver hangs on Cyrix 6x86 machines.

#### AKSUSB.SYS:

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- 1.28 - Driver signed by Microsoft.
- 1.25 - Small bug fixes.
- 1.22 - Some adaptations for Microsoft driver signing.
- 1.20 - Fixed: No message box after removal of Hardlock USB on Windows 2000
- 1.14 - Some adaptations for Win2000 support.
- Miscellaneous small bug fixes.
- 1.10 - Corrected some minor PnP flaws.
- 1.06 - Fixed a problem on key removal under Win2000, build 2031.
- 1.05 - Fixed a problem under Win2000, build 1496.
- 1.02 - Initial release.

#### AKSUSB95.SYS:

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- 1.25 - Small bug fixes.
- 1.14 - Miscellaneous small bug fixes.
- 1.10 - Minor cleanups.
- 1.06 - Minor cleanups.
- 1.05 - Minor cleanups.
- 1.02 - Initial release.

#### AKSPCCARD.SYS

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- 1.01 - Initial release. New driver for improved PCCard support, signed by Microsoft.

#### Linux:

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- 1.04 - Supports latest kernel versions up to 2.4.18.
- 1.03 - Minor bug fixes.
- 1.01 - Hardlock USB keys are now supported.

- Adapted to new daemon architecture.
- 1.00 - Since the kernel mode driver now also supports the HASP key, its name has been renamed from hardlock.o to aksparlnx.o. The entry in /dev is still /dev/Hardlock, since this affects existing applications.
- Kernel driver now uses parport method to share parallel port with other drivers. Printing and Hardlock access shouldn't disturb each other any more.
- Bug fixes: for API bug fixes please refer to version 3.76 of the API history section.

#### HL-Crypt for Win32 (HLCWIN32):

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- 2.23 - Automatic data encryption functionality on Windows XP. Needs latest HARDLOCK.SYS.
  - Support for HL-Magic keys added. (the patchers can be run using the remote HL-Magic)
  - New switch -drvwait:x allows protected programs to wait x seconds for the driver at startup.
  - New switch -quiz:x adds random HardlAlock accesses increasing the security against port emulators.
  - Bug fix: defect Expiration Date module that resulted in program crash fixed.
  - Bug fix: fixed incomplete parsing of the -rus switch (illegal combinations such as -rus:S1S2 refused)
  - 2.21 - New switch -nots, disable Terminal Server Detection. Switch needs to be enabled in Espresso "Option" box.
  - New switch -hlsvers:X restrict access to HL-Server versions X and upper, where 223 for instance means V2.23. Switch needs to be enabled in Espresso "Option" box.
  - Bug fix: when connecting to LiMaS Server, perform OCCUPY\_SLOT even if MaxUsers == CurrentUsers (might work, if the singularity flag is set)
  - Bug fix: when displaying Warning for Expiration Date, show the smaller from Slot & Global expiration dates.
  - Bug fix: Setting a timeout for HL-Server was not transferred correctly.
  - 2.20 - Added scalable security, new switch -enclevel.
  - Enhanced security for Win32 applications.
  - New switch -console, reroute error messages to STDOUT.
  - The Win32 HL-Crypt engine is now a Win32 console application (was DOS before).
  - Bug fix: Authorware applications could not be protected correctly.
  - Bug fix: protected Win16/Win32 applications could not be started on Terminal server.
  - Bug fix: Visual Basic 6 exe caused application error.
  - Bug fix: wrong warning message for the last execution before dead counter limit reached.
  - Bug fix: encoding of many files caused an error.
  - Bug fix: protected DLL did not destroy WaitBox window.
  - 2.18 - Improved background checks for RUS licenses



- Enhanced debugger detection, new switch -y
  - Increased overall security by internal restructuring
  - Enhanced overlay handling (-dlx)
- 2.15 - New: Added interface to the new HL-RUS functionality.  
 Several new command line switches added for this.  
 See the manual for details about HL-RUS.  
 Bug fix: some EXE files from the MS-Office 2000 Suite weren't handled correctly due to an error in their EXE file structure (declared size bigger than actual size).
- 2.13 - Added optional startup message feature (command line switch -waitbox).  
 - Added new error message for the special case when a combination of automatic data encryption and a connection to a HLServer is not allowed under Win9x.  
 - Speeded up automatic data encryption under Win9x in some circumstances through a smarter buffering. The efficiency depends on the -sec level of the data encryption (most noticeable for -sec:6) and on the overall performance of the system. It needs the latest HARDLOCK.VXD to be effective.  
 - Bug fix: some EXE files generated by MSVC 6.0 were not handled correctly. (known as the "big uninitialized section" problem).  
 - Bug fix: some EXE files were not running under Win9x. Typical cases are multithreaded EXEs compiled with Delphi.
- 2.11 - Minor bug fix in the expiration date feature. Year 2000 was not considered as a leap year, so on 29'th February 2000 the programs protected with expiration date wouldn't have worked...  
 - Bug fix: Using automatic data encryption on a Win NT 4.0 with an Antivirus program (Norton v2.00 and Sophos encountered) would crash the system. The problem is actually solved installing the latest HARDLOCK.SYS (v2.13)  
 - Enhancement: a lot of development tools leave their debugging info even in the retail versions of the executable files. This information was usually the reason for an annoying warning "executable contains unknown extender data" during the protection process. The latest version of HLCWin32 is able now to recognize some of these data and to avoid thus the message.  
 - Bug fix: HL-Crypt for Win32 can protect "already protected" executables. (that is, programs already processed with HL-Crypt for Win32). The bug occurs if the same program is several times protected using more than once the automatic data encryption functionality. In this case the program would crash if run. The fix consists in refusing the protection with automatic data encryption if the program to be processed is already HL-Crypt-ed.  
 - Debug info in exe file detection now automatic.
- 2.10 - Fixed: under some circumstances, protected DLLs couldn't be loaded  
 - in Win95 or Win32S.  
 - Support for Hardlock background check for Win32 console applications.  
 - Allowed manual and automatic protection of the same program for Win32S. (under NT and Win95 there is no problems with it)  
 - Added support for new encryption level (-sec:6).  
 - Using -sec:6 encryption level, online data encryption under Win95 can be also performed using a remote Hardlock (HLServer).  
 - Support for extender/interpreter Win32 Executables (-dlx). NT and Win95 supported. Needs HARDLOCK.SYS v2.10 or newer.

See HL-CRYPT\READ\_W32.TXT for details.

- 2.00 - Complete new design: new scalable technology in security and functionality
  - On-the-fly data encryption for Win32 applications, the first in the world. Running under Windows 95 AND Windows NT.
  - Strong improved security using new randomly chosen anti debug modules.
  - Highly improved automatic recognition of many file types.
  - First automatic protection for ActiveX DLLs.
- 1.31 - Several bug fixes related to protecting MSVC 5.0 files. Improved background check functionality.
- 1.20 - The automatic data encryption feature is partially supported for Win32 programs running under Windows 95. Please check the READ\_W32.TXT in HL-CRYPT directory for details.
- 1.14 - Added definition file support with -def:fname.  
A sample file HLWCRIPT.DEF can be found in the HL-Crypt directory.
  - HLCWin32 now supports the execution counter feature. Use:
    - cnt:times :number of possible starts
    - cntwarn:times :display a warning if only <times> executions left.

You need a Hardlock with memory option to use this option.

  - Support for Sublicensing. Use:
    - sle:SLOTID :slot number to check for licenses

You need a Hardlock with memory option to use this option.  
A special license memory image is needed in the Hardlock memory.  
Please use the new Hardlock Bistro environment to create an image.
- 1.13 - Fixed: some executables generated with Borland C++ v5.00 could not be encrypted.
- 1.10 - Added support for Hardlock II Twin Protection.
  - Expiration date support added.
  - Great speed improvement.
- 1.03 - Support for new PE structure in Windows 3.51 OS files.
- 1.00 - First automatic implementation for Win32 applications

HL-Crypt for Win16 (HLWCRIPT):

- 
- 4.55 - Bug fix: protected Win16/Win32 applications could not be started on Terminal server.
    - New: includes support for protecting self-loading applications.
    - Bug fix: Programs with online data encryption running under NT crashed in certain conditions upon program termination.
  - 4.53 (beta)
    - Added support for protecting self-loading applications. This special type of Win16 EXE files were not supported until now because of their peculiar structure and special handling. This part is in a beta-test status.  
You will find the beta version on your Hardlock CD under \hardlock\hl-crypt\betaa.
  - 4.52 - Minor bug fix in the expiration date feature. Year 2000 was not considered as a leap year, so on 29'th February 2000 the programs

- protected with expiration date wouldn't have worked...
- Bug fix : HLWcrypt protected programs didn't run under Thai version of Windows 95. Fixed.
  - 4.50 - Online data encryption support under NT. World's Premiere. Needs HLVDD.DLL v2.00 and HARDLOCK.SYS 2.10 or newer. See HL-CRYPT\READ\_HLW.TXT for details.
  - Added support for new encryption level (-sec:6).
  - 4.17 - Fixed: HLWCrypt hangs on Cyrix x86 machines.
  - Windows 16 programs using the data loader feature are not supported to run under Windows NT in the moment.
  - 4.14 - Added definition file support with -def:fname. A sample file HLWCrypt.DEF can be found in the HL-Crypt directory.
  - HLWCrypt now supports the execution counter feature. Use:
    - cnt:times :number of possible starts
    - cntwarn:times :display a warning if only <times> executions left.
 You need a Hardlock with memory option to use this option.
  - Support for Sublicensing. Use:
    - sle:SLOTID :slot number to check for licenses
 You need a Hardlock with memory option to use this option. A special license memory image is needed in the Hardlock memory. Please use the new Hardlock Bistro environment to create an image.
  - 4.13 - Patched applications can now be executed under Windows NT.
 

NOTE: Online data encryption is NOT available under Windows NT. Programs protected with dataloader (/d and /de switches) cannot be executed under Windows NT.
  - Fixed: online encrypted data files located on Novell networks could not be accessed from machines running Win95 and having the Client32 Netware from Novell installed.
  - 4.10 - Improved loading speed
  - Added support for Hardlock II Twin Protection.
  - Invented -sec:<LEVEL> instead of -ln: and -le:
  - 4.00 - Scalable security.
  - Adapted for Win16 programs running under Windows 95 (build 950).
  - Support for long filenames in Windows 95 environment.
  - 3.04 - Adapted for Win16 programs running under Windows 95 beta (October 1994).
  - Support for expiration date.
  - 3.03 - Fixed problems with Compaq Deskpro XL.
  - 3.02 - Adapted for Win16 programs running under OS/2 Warp.
  - Protected Visual Basic programs are stopped correctly if no Hardlock is present at startup.
  - 3.01 - Bug fix: problems while patching if SHARE is not loaded.
  - 3.00 - Data loader added.

#### HL-Crypt for DOS (HL-CRYPT):

- 
- 5.75 - Minor bug fix in the expiration date feature. Year 2000 was not considered as a leap year, so on 29'th February 2000 the programs

- protected with expiration date wouldn't have worked...
- Bug fix in sec:6, decryption failed if a program reads over his root code to read parts of its overlay.
- 5.74 - Added support for new encryption level (-sec:6).
- 5.73 - If the new def file was used and the normal loader was patched (-n) the message section in the def file was ignored! - fixed.
- W95 long filenames are no longer hooked, as W95 has no backward compatibility fallback, on some strange configurations the DOS box hang. - fixed.
- 5.72 - Fixed: HL-Crypt may hang during encryption if program to protect has PLINK style overlays (e.g. CLIPPER applications).
- Fixed: Error while encrypting if -def:<def file> is used with more than 10 message sections.
  - Fixed: Protected programs hang on Cyrix x86 machines.
- 5.71 - Added definition file support with -def:fname.
- A sample file HL-CRYPT.DEF can be found in the HL-Crypt directory.
- HL-Crypt now supports the execution counter feature. Use:
    - cnt:times :number of possible starts
    - cntwarn:times :display a warning if only <times> executions left.
 You need a Hardlock with memory option to use this option.
  - Support for Sublicensing. Use:
    - sle:SLOTID :slot number to check for licenses
 You need a Hardlock with memory option to use this option.  
 A special license memory image is needed in the Hardlock memory.  
 Please use the new Hardlock Bistro environment to create an image.
- 5.70 - Added Hardlock VxD Support for Windows 3.x
- 5.68 - Internal changes
- Security improvements
  - Changed option display from [? \*] to [-?]
- 5.66 - Added support for Hardlock II Twin Protection.
- Invented -sec:<LEVEL> instead of -ln: and -le:
  - Bug fix: wrong display of expiration date message
- 5.65 - Bug fix: crash during patchtime if -y used
- 5.64 - Bug fix: bug in Normalloader & MS-Overlays patch.
- Bug fix: bug in patch if EXE-Header > 64k
  - Command line parser added.
- 5.63 - Support for expiration date.
- 5.62 - Programs protected with HL-CRYPT are now running on Pentium machines, too.
- HL-Crypt runs in NT DOS-Box.

HL-Server:

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Aladdin Monitor:

- 1.20 - HASP support
- Bug fix: RUS entries could be deleted without selecting slot 0.
  - Smaller bug fixes

- 1.10 - Bug fix: helper DLL shlwapi.dll was not part of setup.
- Bug fix: Delete login with a HL-LiMaS Hardlock does not work directly after selecting the dialog.
- Bug fix: Setup did not default to English on non German systems.
- Bug fix: fixed a problem with slot deletion.
- 1.00 - Initial release. Substitutes the HLSAdmin tool.

#### HL-Server for Linux:

- 4.46 - Initial Release (Version number reflects HL-Server core version)

#### HL-Server Win32:

- 4.32 - Accelerated Hardlock background check.
- 4.30 - Bug fix: problems accessing PCI card under Win9x/ME
- 4.25 - Bug fix: applications have been logged out by mistake from a slot, if singularity flag was used.
- Bug fix: hls32 displayed "noback" in Taskbar
- Bug fix: HL-Server setup (hlsw32.exe) created wrong shortcut
- Added support for Hardlock Server Internal PCI
- 4.22 - Support for some Aladdin Monitor functions.
- 4.11 - Bug fix: timed out logins are deleted (as before) by default. Zombie mode must be enabled explicitly by hls32cmd or command line parameter. Hls32: new command line parameter "-zombie", hls32svc: "UseZombie" written to/read from registry, hls32cmd: "enable zombie"/"disable zombie".
- Support for remote calling HLM\_CHECKALLSLOTS().
- Bug fix: key was found when not in search string but was not recognized as RUS key.
- 4.03 - Implemented full Hardlock RUS support.
- 4.00 \*\*\* BETA VERSION \*\*\*
- Added Hardlock RUS functionality.
- 3.30 - Automatic addition of requested Hardlocks:  
The manual registration of Hardlocks via HLSAdmin, HLS32CMD add, or via command line is not longer necessary. Unknown Hardlocks requested by a client application are added automatically, if available.
- Up to ten Hardlocks: the maximum number of Hardlocks to be served was increased from 3 to 10.
- API\_READ\_ID function supported.
- 3.20 - Duplicated counters problem fixed
- NetBIOS enabled by default, switchable by HLSADMIN
- 3.10 - logins: can be specified in RAM area
- Timeout can be set down to 1 minute
- Service did not start on systems only having NetBEUI - fixed
- 3.07 - Added Netbios support.
- Bug fix: "Page fault" when terminating HLS32.EXE on Windows 95 during client access.
- 3.06 - initial public release

#### HL-Server NLM:

- 2.00 - Added Novell IP support

- Supports AutoAdd feature: the server may be started without any module address specified. Whenever a client application requests an unknown Hardlock, it will be automatically added, if available.
- up to 10 Hardlocks supported
- changed screen layout
- F8 key invokes packet trace mode
- ADD/REMOVE Hardlocks from server screen
- option -comm:ipx selects IPX only
- API\_READ\_ID function supported

#### 2.00b \*\*\* BETA VERSION \*\*\*

- (located in the \BETA\HLSERVER\NLM\ directory)
- TCP/IP support
- Hardlock can be added/removed while NLM is running via HLSADMIN
- Functionally equal to HLS32 V3.20
- 1.28 - Minor changes  
Functionality equal HL-Server/DOS V2.62
- 1.25 - internal changes  
Functionality equal HL-Server/DOS V2.55
- 1.22 - Bug fixing  
Functionality equal HL-Server/DOS V2.54
- 1.20 - Hardlock search order can be specified:  
i.e. SEARCH:278,3BC
- all command line parameters can be placed in the file SYS:SYSTEM/HLSERVER.CFG. Every parameter can be placed in a separate line. Take a look at our example file.  
Functionality equal HL-Server/DOS V2.53
- 1.12 - better monochrome monitor support, added FORCEMONO and FORCECOLOR switches.  
Functionality equal HL-Server/DOS V2.53

#### HL-Server TSR:

- 2.74 - Duplicated counters problem fixed
- 2.72 - Support for NETBIOS over TCP/IP
- 2.62 - Can be installed in Windows NT DOS box
- 2.55 - prepared for release
- 2.54 - internal changes
- 2.53 - 5 user license Hardlock support added
- 2.52 - changes in HL-Server user interface
- 2.51 - internal changes
- 2.50 - better multiple DOS-box support on client side.

#### Hardlock Bistro:

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#### General changes:

- 2.50 - Improved error reporting for HLDB.INI.
- Compiled with new version number.
- Click on Aladdin logo always lead to german web site.

- Some regions have "," instead of "." as floating number divider. This caused a crash in HLDB version check.
- Uses HLPROG.DLL 2.03.
- 2.40 - New graphics
  - Compiled with new version number.
- 2.30 - Compiled with new version number.
- 2.20 - Redesigned the Bistro entry screen (the old one was too overloaded)
  - Bug fix: by default Bistro was installed in German. Now the installation takes the language settings into consideration.
  - Bug fix: added RunTimeDir to the settings dialog.
  - Bug fix: the query for needed DB version was not handled correctly (if installed version was higher than the needed version).
  - Bug fix: wrong messages in the message boxes, if required DLL version was not found.
  - Bug fix: DB fields of type "Date" had "01.01.1899" instead of NULL value.
- 2.10 - Common settings dialog which can be accessed from each Bistro2 application.
  - Implemented ADOX database access.
  - New customizable fields in Database
  - HLTOOLS.DLL no longer needed.
  - Extendable using language DLL's.
  - Full English version.
- 2.00 - Added Hardlock RUS support. Added Gazzetta to Hardlock Bistro.
- 1.30 - Many bug fixes and enhancements. Please refer to the PDF file in your Bistro directory for details.
- 1.20 - Added support for Hardlock USB
- 1.10 - Added support for new encryption level (-sec:6).
  - Hardlock Bistro now needs the new version of Microsoft Common Control DLL (comctrl32.dll). The dll will be updated automatically during installation of Hardlock Bistro. Since this version you cannot run Bistro on Windows NT 3.51 anymore.
- 1.01 - Name change into Hardlock Bistro!
  - Corrected program windows size and default positions if used with large fonts.
  - Complete support for English language (including help files!).
  - Software supports Spanish and Italian language (not including help files!).
- 1.00 - initial public release

#### Espresso:

- 2.50 - Deleting an item in the tree refreshes program/data list dialog now. And the data is shown correctly when displaying the view the first time.
- 2.40 - Espresso can access red HL-Crypt module remotely when protecting W32 applications.
  - Bug fix: Encryption key can be shorter than 8 characters in GUI.
  - Bug fix: Background check interval 1..86400 instead of 1..60 sec.
- 2.30 - Some GUI enhancements.

- qslren option removed from the GUI.
- Bug fix: handling for unknown file types enhanced.
- Bug fix: switch -y was not transferred correctly to patcher engine.
- Bug fix: some error numbers from Win32 engine are unknown to Espresso GUI.
- Bug fix: range checking for RUS options corrected.
- Bug fix: more than 8 file masks for data protection not allowed.
- 2.20 - Small GUI enhancements & bug fixes
  - Win16 "selfloading" applications could not be protected with Espresso.
  - Bug fix: temporary HL\$ file was not deleted after protection.
  - Bug fix: now the used HL-Crypt versions can be displayed in from the about box. (F2 = HL-Crypt for Win32, F3 = HL-Crypt for Win16, F4 = HL-Crypt for DOS)
- 2.10 - Complete rewrite of Espresso, adapted the Bistro2 look & feel.
  - Added file type associations (es2)
- 2.00 - Added Hardlock RUS support. Old projects are not compatible!
- 1.30 - Many bug fixes and enhancements. Please refer to the PDF file in your Bistro directory for details.
- 1.20 - Bug fix: Espresso was crashing when opening a old project that uses date settings.
  - Bug fix: Problem with protecting executable in root dir.
  - Bug fix: corrected some spelling errors.
- 1.10 - Bug fix: There was a program crash when changing the expiration date in Espresso manually.
  - Bug fix: The last parameter in the extended option menu was ignored.
  - Bug fix: Display of sublicensing slots corrected.
  - The default timeout for HL-Server is now set to 12 minutes.
- 1.01 - Checks if the HL-crypt Hardlock (red) is not connected to the CP-Card, if the program tries to encode a new Hardlock. User can not destroy their HL-Crypt Hardlocks anymore.
  - When the wizard has finished a new dialog box is displayed and you can directly test (launch) your protected application.
  - If source- and destination file name (with path) are the same, the destination file name automatically gets an 'c' at the beginning e.g.: test01.txt -> ctext01.txt
  - 'Date Picker Control' for better expiration date input in 'Hardlock Options'.
  - Double click and ALT-key shows advanced command line edit control on item properties.
  - The setting with the scroll bar for the background checks was vice versa. Now the value will be generated correctly.
  - Fixed: Protecting a 32bit EXE under Win NT does not generate a 'File protected....' entry in the LOG file/window (Problem does not exist under Win95!).
  - Fixed: GPF when closing print preview window with close button (only if preview windows is maximized).
  - Fixed: Drive selection and displayed icons are not correct if you



have 'no support for shell interface' and German version installed.

1.00 - initial public release

#### Latteccino:

- 2.50 - Divider position cannot be corrupted anymore.
  - Missing help topic for settings dialog is found now.
  - "Latteccino 2.2" caption was shown for German language.
- 2.40 - Minor bug fixes.
- 2.30 - Minor bug fixes.
- 2.20 - Added new API functions to the GUI (HLM\_LOGIN, HL\_ERRMSG, HLM\_CHECKALLSLOTS).
  - Bug fix: wrong description in the online help file for HL\_CODE()
  - Bug fix: some typing errors in the source generation fixed.
  - Bug fix: fixed a problem in the source code generation of RUS functions.
- 2.10 - Added source code generation.
- 2.00 - Added Hardlock RUS support. Complete rewrite of application.
- 1.30 - Many bug fixes and enhancements. Please refer to the PDF file in your Bistro directory for details.
- 1.20 - Implemented HL\_READID function.
- 1.10 - Internal changes.
- 1.01 - HL\_LOGIN() OK then HL\_LOGOUT() now returns correct value STATUS\_OK.
- 1.00 - initial public release

#### Cappuccino:

- 2.50 - Doesn't crash anymore when entering settings/CPC dialog and PCI CPC specified in Bistro.ini does not exist (Win9.x only).
  - Error message "CPC cannot be found" is not displayed multiple times now.
  - Startup error message "CPC cannot be found" is not displayed when "Encode on USB" is selected.
  - No error occurred when trying to burn a Hardlock Server USB.
  - Doesn't crash when no driver is installed.
  - Crash in Vendor Key Manager fixed.
- 2.40 - Support for Crypto-Programmer Card PCI.
  - Option for writing date to Hardlock during encoding added.
  - Bug fix: correct new slot number when first slot is not equal 1
  - Bug fix: Updating stock item via email doesn't use %c1 - %c3 contents anymore
- 2.30 - Bug fix: some controls have not been resized correctly.
  - Bug fix: loading info from Hardlock or CTV does not use mechanism for converted VendorKey.
  - Bug fix: database update failed on MDAC 2.6.
  - Bug fix: EPP DLL could not find include files.
  - Bug fix: Problem with context menu "Update all customers".
  - Bug fix: sending update using email failed with a crash.
- 2.20 - New features: memory content generation through DLL interface, a box for notes, new grids for slot editing and other GUI enhancements.

- Bug fix: when changing the number of licenses for a slot in the order list and saving the resulting order list (before burning or changing dialog-focus) the changes are lost when loading the order-list again
- Bug fix: when entering A:\ as ALF file directory, the application was crashing.
- Bug fix: relation in CA2 file and DB got lost.
- Bug fix: the combo box for vendor keys was not update correctly after creation of new key.
- Bug fix: After coding Hardlock with more than 5 slots the scrollbar in the license information does not work
- 2.10 - Added SMTP support
  - Added file type associations (ctv, ca2)
  - Variable parser for default strings
  - Improved handling of warnings and errors
- 2.00 - Added Hardlock RUS support. Old projects are not compatible! Complete rewrite of application.
- 1.30 - Many bug fixes and enhancements. Please refer to the PDF file in your Bistro directory for details.
- 1.20 - Added crypto programming support for Hardlock USB.
- 1.10 - Internal changes.
- 1.01 - Auto detection of port address used by CP-Card.
  - Startup warning if CP-Card is NOT connected to the actual system.
  - The EEP file name is added into LOG file if EEP file was used for encoding a new Hardlock.
- 1.00 - initial public release

#### Gazzetta:

- 2.50 - No changes
- 2.40 - Bug fix: Closing filter manager after adding an unnamed filter does not crash anymore
  - Bug fix: Slots are always shown in correct order when HLDB.MDB is in Access97 format
- 2.30 - Bug fix: database update failed on MDAC 2.6.
  - Bug fix: sometimes a wrong filter was applied from menu.
- 2.20 - Small GUI enhancements & bug fixes.
  - Now up to twenty user defined filters are supported (10 before).
  - Bug fix: Setting filters with Slot expiry dates in the past also showed up local Hardlocks (they don't have a slot expiration date)
  - Bug fix: Right mouse-Paste in Compare Value of Filter grid did not enable save button.
  - Bug fix: In Hardlock properties, the "Show memory" button was always enabled (even on keys without memory). Pressing the button leaded to a crash.
  - Bug fix: choosing Excel export format will now disable "overwrite existing tables" checkbox. It is not support by OLE DB provider.
  - Bug fix: fixed a crash when changing customer data which is currently the sorting criteria.

- 2.10 - Release of full English version
  - Added customizable reserved fields
  - Enhanced filter capabilities.
- 2.00 - Initial Release. Gazzetta is the interface for the Hardlock customer & license database.

PCMCIA:

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DOS:

- HLPCMCIA.COM - 1.04
  - Supports Databook PCMCIA controller.
  - option -q for quiet execution added.

Windows 95/98/ME:

- Added HARDLOCK.INF installation script for plug & play installation for Hardlock PCMCIA.
- Automatically detect systems containing the buggy TI PCMCIA controller PC1130. The controller has a bug in hardware that unfortunately is not fixed by the controller driver coming with Win95/98. Our VxD detects this controller and configures it to solve this bug.

Windows 2000/XP:

- New PCCard driver aksppcard.sys for XP/2000 -> see section for aksppcard.sys above.

Windows NT

- Added support for Hardlock PCMCIA for Windows NT 4.
  - HLINST.EXE automatically installs the needed settings.
- If PCMCIA device can not be found, HLINST now issues a warning but continues with install.

AKS/HLDiag:

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- 9.10 - Added german resources, UI language will be shown according to selected regional settings.
- 9.02 - Support for Win ME and XP.
  - HL\_LICENSEDIR is written to report.
  - complete registry hive for Hardlock drivers and HL-Server is written to report.
  - Win 9x only: list of parallel ports is written to report.
  - smaller enhancements: current result table of checked Hardlock is attached to created report
- 9.01 - Bug fix: Hardlock.VxD version was retrieved incorrect (fix in ndiag32.exe).
  - Bug fix: Setup prompted for language selection on non German systems. Now installation always defaults to English if language setting is non German.
  - Bug fix: some Shortcuts did not work correctly.
- 9.00 - HLDiag was completely rewritten and is now substituted by

AKS Diagnostic. It is now a common HASP/Hardlock application that does not have the limitations of the previous versions (e.g. now works also under Windows 2000). The new version number is based on the fact that the old HASP Diagnostic application was version 8.0. For information about AKSDIAG usage, please refer to the online help file.

- 1.03 - Selecting the LAN- or Network-page many times could lead to a general protection fault under Win95. This was due to a resource leak in the initialization of this page.
  - Retrieval of IP address (especially when using DHCP) resulted in 0.0.0.0
  - Win98 was reported as Win95.
  - Win2000 is not supported (at the moment).
- 1.02 - The "Check Module Address Dialog" now always uses the last entered module address.  
The version Tab now also displays status and version of HL-Server.
- 1.01 - Added API return code to login history list.
  - Bug fix: HLDIAG crashes if a none English version of network protocol drivers is installed.
  - Bug fix: if no printer driver is installed, HLDIAG displays garbage on printer property page.
  - Bug fix: sharing violation when trying to save report as ndiag32.txt
- 1.00 - New in this release: Diagnostic tool to make life easier for support. Analyses available network protocols, OS, HL driver....  
Generates detailed report of machine and installed network SW

Crypto programming software (command line tools):

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#### CP32.EXE

- 1.22 (Rev. 1.35) - Support for Crypto-Programmer Card PCI added.
  - New option: -L List of CP Cards and parallel ports.
  - Auto-detection of USB-Master-Hardlock
  - Smaller bug fixes.
- 1.21 - Does not search for CPC card if you want to program USB keys.
- 1.03 - CP for Win32, first public release.  
Please check HARDLOCK\README32.TXT for detailed information.

#### CP.EXE

- 5.1 - Due to a bug in the runtime library older CP versions cannot be executed on machines as fast as a Pentium II 200MHz - fixed.
  - Check for Hardlock programmed with a signature of serial number below 2000 has been fixed. On some machines the test failed, even programming was OK.

#### CP-LUNA.EXE

- 1.20 - Now also supports crypto programmer card on I/O address 0x3bc.  
And provides appropriate return codes.

#### HLPROG.DLL

- 2.03 - "PPF\_BURNALL"-Flag in parameter structure "prog\_param" for function "HLProg" is now working correctly.
- "MAXSUBCODE" definition in hlprog.h fixed.
- hlprog.dll contains now relocation info (avoids conflicts when relocating hlprog.dll)
- 2.02 - Complete redesign
- Enhanced interface (new encoding function, new functions for retrieving information about CP Card and parallel ports)
- Enhanced speed
- Support for Crypto-Programmer Card PCI
- 1.66 - Bug fix: enhancing timing under NT4, coding could fail.
- 1.65 - Bug fix: some rare serial numbers produced a mismatch in parallel and USB key coding.
- Bug fix: under certain conditions, USB keys could not be reprogrammed.
- 1.62 - Updated hlprog.lib IMPLIB.
- Internal changes for use with Hardlock Bistro.
- 1.61 - Using the HLPROG.DLL (version 1.60) from the 07/98 release it was not possible to debug a application using the DLL in Visual C or Delphi. HLPROG.DLL 1.61 fixes this problem.

#### Driver Install API:

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- 4.70 - Solves update problems on WinXP/2K when during update of the usbdriver the USB key was unplugged. The USB key couldn't be accessed anymore until a remove/insert USB key was done.
- 4.55 - Included Systems 10/2001 device drivers.
- 4.25 - Included Cebit 03/2001 device drivers.
- PCMCIA (PC-Card) Hibernation for Windows 2000 is now correctly handled during install.
- 4.12 - Included Systems 10/2000 device drivers.
- 4.05 - HDDGetClientProcessSize() now returns HI\_FAIL = -1 under Win9x instead of 0.
- 3.97 - Check file versions and don't try to stop the driver if installed are newer or same.
- 3.85 - Added automatic PCMCIA Install for Win9x and Win2000.
- Added HI\_REMOVE\_HARDLOCK flag to HDDRemove() function.
- 3.65 - initial release

#### HL-Server Install API:

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- 1.00 - initial release

Hardlock WEB:

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HL-WEB Proxy:

1.12 - Added German version including German help file

1.10 - Initial public release

HLWEBENC:

1.12 - support for stdin/stdout

Bug fix: output file names have been always in uppercase

Bug fix: Hardlock Magic key license was not accessed correctly

1.10 - Initial public release

AKSCPC.SYS

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1.00 - Initial release

AKSCPC.INF

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1.00..- Initial release

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Please note that changes/fixes made for the API may also affect the other products since they are also based on the Hardlock API.

Munich, March 2002