Hardlock Release 03/2002

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Por favor visite nuestro homepage
Ud. podrá bajar los últimos releases de éstas páginas

http://www.hardlock.com.ar

ftp://ftp.aladdin.de

Las Novedades en el Release 03/2002

Por favor también lea el Agregado al manual de Hardlock en el directorio \MANUALS dentro del CD para obtener información detallada.

Placa Crypto Programadora para slot PCI

Desde la versión 10/2001 la Placa Crypto Programadora está disponible para slots PCI. Ud. requiere la **por lo menos** la versión de drivers que aparece a continuación (10/2001) para hacer uso de la placa PCI:

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

Utilice los programas de instalación del CD 03/2002 para instalar normalmente los drivers de Hardlock. Los archivos adicionales requeridos por el **Nuevo Wizard de Hardware** luego de la instalación del hardware (AKSCPC.SYS y AKSCPC.INF) se encuentran en el directorio ..\Hardlock\CPCPCI.

Ud. Requiere alguna de las siguientes versiones para poder programar un Hardlock con la placa PCI:

- Bistro 2.4 o posterior
- CP32.EXE 1.22 rev.1.35
- HLPROG 2.03

Hardlock LiMaS

El Producto Hardlock LiMaS está compuesto por las siguientes 2 partes:

HL-RUS

Sistema de Sublicenciamiento y Actualización Remota de Hardlock. Hardlock RUS le brinda la posibilidad de utilizar esquemas de licenciamiento, como fechas de expiración, contadores de ejecuciones y sublicenciamiento para las llaves Hardlock con memoria. Hardlock RUS puede ser implementado para uso local o remoto vía llamadas a las APIs o HL-Crypt. El Sistema Hardlock RUS solo se encuentra disponible para los sistemas operativos Win 32 y Linux (a través de API). Para mayor información por favor refiérase a la documentación de Hardlock.

Ahora es posible acceder por completo a la interfase del Hardlock Bistro y al HL-Crypt (rojo) para 32 bits con una conexión remota teniendo conectado otro Hardlock HL-Crypt (rojo).

HL-DB

Hardlock Database se utiliza para realizar el seguimiento de toda la información de las llaves Hardlock programadas y las actualizaciones RUS. HL-DB además incluye una completa base de datos de clientes con la posibilidad de realizar llamadas utilizando filtros y exportar datos a formatos estándares de bases de datos.

Nota

Ud. necesitará comprar Hardlock LiMaS en forma separada si desea utilizarlo. Puede testear la funcionalidad completa utilizando un Hardlock demo con módulo address 29809 con algunas limitaciones. (Ej. Solo 10 clientes en HL-DB, sin soporte para RUS excepto para módulos demo). Hardlock LiMaS tiene soporte y es vendido solo en Europa. Para más información contacte a su representante local.

Hardlock Bistro 2

Hardlock Bistro 2 es la Interface Gráfica del Usuario de Hardlock. Hardlock Bistro le permite codificar sus Hardlocks, proteger sus aplicaciones, realizar un seguimiento de sus actualizaciones y llaves, así como testear las APIs de Hardlock.

Vea la sección "Bug fixes & Release History" al final del Documento para una lista completa de los problemas resueltos. Para información detallada sobre las nuevas características refiérase a la ayuda en línea del Hardlock Bistro.

Nuevo en versión 2.5

Mejoras en los Reportes de errores cuando se conectan bases de datos de clientes con HLDB.INI: Errores en el SQL SELECT statement se reportan con referencia al campo. Errores en las variables SORT son manejados y reportados.

Información sincronizada de versiones de ejecutables y librerías dinámicas.

Limitaciones conocidas en esta versión

Filtros en **Gazzetta**:

Si se crea un filtro tanto con el campo Hardlock y con el campo Cliente, y las líneas de por lo menos un campo de Hardlock y de cliente están conectadas con "o", la vista filtrada no mostrará clientes sin Hardlock. Ejemplo:

- Agregue criterio "código postal mayor que 5000"
- Agregue criterio "Número de Serie menor que 500"
- Conecte éstos con "o"

Resultado: Clientes sin Hardlocks no serán mostrados aunque tengan un código postal mayor que 5000.

Nota Bistro versión < 2.x:

Gran parte de Hardlock Bistro ha cambiado para hacer uso de las funciones de Hardlock RUS y Hardlock DB. Por eso, los viejos proyectos creados con versiones Bistro < 2.x no son compatibles con Bistro2. La utilización del sublicenciamiento local, las fechas de expiración y los contadores de

ejecuciones son sustituidos por el nuevo sistema HL-RUS. Si Ud. necesita mantener la compatibilidad para viejos proyectos, tiene que utilizar Hardlock Bistro Versión 1.3 (ubicado en ..\HARDLOCK\BISTRO\ en su CD de Hardlock)

Aladdin Monitor

Aladdin Monitor, Versión 1.2

La aplicación se presenta con un setup de Interface Gráfica de Usuario de libre redistribución ubicado en el directorio REDIST y Setup.

El programa permite a los usuarios finales:

- Chequear todos los HL-Servers en una red,
- Acceder a un servicio local bajo NT, 2000 o XP,
- Realizar actualizaciones de licencias (HL-LiMaS).

Para más detalles por favor vea el archivo de ayuda en línea.

Nuevo en la versión 1.2

Soporte para HASP License Manager. Pequeñas correcciones internas, por favor lea "Bug fixes & Release History" al final del documento.

Limitaciones conocidas en esta versión:

Los seteos de contadores globales de HL-LiMaS no son transferidos al Monitor de la Interface Gráfica del Usuario.

Aladdin Diagnostic para Win32

Aladdin Diagnostic, Versión 9.10

El utilitario de Diagnostico de Aladdin le permite analizar toda la información relacionada con las llaves de protección de software Hardlock y HASP de su sistema. Además, Ud. puede crear un reporte que contenga información de los dispositivos, los números de versiones de drivers y otras informaciones relevantes de su sistema operativo utilizando esta herramienta.

La aplicación se presenta en un setup de libre redistribución que contiene una Interface Gráfica de Usuario ubicada en el directorio REDIST y Setup.

Para más detalles por favor vea el archivo de ayuda en línea.

Nuevo en la versión 9.10

Se ha agregado el HELP en Alemán al Aladdin Diagnostic. Si los Seteos Regionales están seteados para algún dialecto de alemán, los Diálogos serán desplegados en Alemán.

Hardlock Device Driver

Los Drivers son necesarios para acceder al hardware de Hardlock bajo los distintos sistemas operativos. Se requieren drivers para todos los sistemas operativos Windows si Ud. quiere acceder a un Hardlock.

Versiones de Driver

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

API de instalación de Drivers

hinstd.dll	**4.70**

Nuevo en esta versión

El driver **aksusb.sys** ha pasado el testeo del "**W**indows **H**ardware **Q**uality **L**abs (WHQL)" exitosamente. La firma de driver aksusb.sys para Windows XP se ha agregado al instalador 4.70

La versión del instalador de Driver 4.70 incluye el nuevo driver akscpcard.sys para el **Hardlock PCMCIA**" que será instalado la primera vez que se instale un Hardlock PCMCIA en la Notebook. El nuevo driver evita los problemas previos cuando se removía una PCMCIA. El driver ha pasado exitosamente los testeos del WHQL y la firma se provee en el archivo akscpcard.cat, los viejos archivos aks_mf.inf y hlntcard.inf no serán instalados más y serán deleteados automáticamente por el instalador de los drivers versión 4.70.

Nota para Windows NT 3.51

La instalación de drivers no soporta Windows NT 3.51. Por favor contacte a nuestro soporte técnico en caso que necesite soporte para Windows NT 3.51.

Hardlock API

Las APIs de Hardlock le proveen objetos, librerías, y ejemplos de aplicaciones para mostrarle como implementar manualmente las llamadas en su código fuente. Por favor, compile el ejemplo apropiado antes de implementar llamadas a las API´s de Hardlock en su aplicación. Observe el simple conjunto de archivos de ejemplos para obtener información sobre las librerías y como utilizarlas. Todas las funciones pueden ser testeadas con el Latteccino (que es parte del Hardlock Bistro)

Funciones API de RUS (solo para Win32/Linux):

Por favor, vea el directorio ..\hardlock\rus\ de su CD para obtener ejemplos de las correspondientes implementaciones.

Actualmente están disponibles a través de las API solo utilizando las siguientes librerías:

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

Implementaciones y ejemplos adicionales estarán disponibles bajo pedido.

Nota: Si Ud. utiliza la nueva librería Win32, las aplicaciones que corran bajo Win32 (en Win3.x) no son actualmente soportadas. Si necesita mantener compatibilidad utilice los archivos objetos anteriores o contacte a nuestro soporte técnico.

Nuevos Ejemplos de API:

- Nuevos Ejemplos para Java con soporte para Hardlock Server y Hardlock LiMaS
- Ejemplos para la plataforma **.NET** de **C#** para Hardlock y Hardlock LiMaS

Hardlock para Linux

Hardlock ofrece soporte completo de API´s para Linux, incluyendo acceso a las llaves Hardlock de puertos paralelo y para puerto USB y acceso al Hardlock HL-Server utilizando TCP/IP e IPX.

Nuevo en esta versión

HL-Server para Linux, puede ser ejecutado como un daemon o como una aplicación. Vea la sección Hardlock HL-Server para detalles adicionales.

Nueva versión 1.04

Nuevo driver, soporte para los más recientes Kernels de Linux hasta la versión 2.4.18

Por favor consulte nuestro servidor ftp en ftp://ftp.aladdin.de/pub/hardlock/linux para obtener los drivers con las últimas versiones de Kernel soportadas.

HL-Crypt

HL-Crypt encripta su ejecutable (.EXE, .DLL, .COM, OCX) ya compilado y linkeado e implementa la protección automática de Hardlock en su aplicación. Además, el HL-Crypt provee la capacidad de protección de datos **on-the-fly** (al vuelo) inclusive en Windows XP. HL-Crypt es el backend funcional del Hardlock Espresso (parte del Hardlock Bistro)

Nueva versión

HL-Crypt for Win32   2.23

Nuevo en versión 2.23

La nueva versión del HL-Crypt soporta el encriptado automático de datos bajo el nuevo Sistema Operativo Windows XP.

Los siguientes switches han sido implementados:

-drvwait Permite incrementar los intervalos de tiempo para buscar el driver de Hardlock.

-quiz Especifica la frecuencia con que los datos son encriptados y desencriptados al azar usando la llave Hardlock.

Tenga en cuenta que estas opciones no están todavía contenidas en la interface Espresso, pero pueden ser seteadas usando "Espresso Option box". "Additional Switch" o "Parámetros Adicionales"

Por favor, vea el agregado al manual de Hardlock en el directorio MANUALS en el CD para información más detallada.

Hardlock Server

HL-Server provee acceso al Hardlock utilizando una red.

Nuevo en esta versión

- HL-Server para Linux, puede ser ejecutado como daemon o como aplicación o servicio
- Totalmente compatible con versiones Win32/NLM
- Soporte IP (UDP)
- Sin soporte para LiMaS

Nuevas versiones

HL-Server Service para NT/2000   4.32
HL-Server Aplicación para Win9x/ME   4.32
HL-Server Daemon/Aplicación para Linux   4.46

Vea al final del documento la sección "Bug Fixes & Release History".

Hardlock SE

Nuevo en esta versión

- Ahora la API HL-SE soporta todas las plataformas de Win32.

Notas sobre Windows XP

El Release completo de Hardlock fue testeado bajo Windows XP. No se encontraron problemas, pero hay algunas restricciones con respecto a la utilización del Hardlock.

- Se requiere de **por lo menos** las siguientes versiones de driver para utilizar al sistema Hardlock bajo Windows XP.

HLDINST	4.55
HARDLOCK.SYS	2.80
AKSCPC.SYS con AKSCPC.INF (para PCI)	1.0
HLVDD.DLL	2.15

- Si Ud. desea usar encriptado de datos cuando protege sus programas automáticamente con el HL-CRYPT o Espresso, debe repetir la implementación automática usando las versiones actuales de los programas (contenidos en el CD).

El comportamiento de Hardlock bajo Windows XP es similar al comportamiento bajo Windows 2000.

Notas sobre Windows ME

Windows ME es tratado como Windows 98.- El Release completo de Hardlock fue testeado bajo Windows ME. No se encontraron problemas. No hay restricciones con relación a la utilización de cualquier tipo de Hardlock.

Notas sobre Windows 2000

El Release completo de Hardlock fue testeado bajo Windows 2000. No se encontraron problemas, pero hay algunas restricciones con respecto a la utilización del Hardlock.

- Las aplicaciones de Hardlock linkeadas con API < 3.20 (anteriores al Release de Hardlock de Junio 1994) no corren bajo Windows 2000 por default.

- Las Placas Cripto Programadoras de Hardlock y los Hardlock Internos (versión ISA) no pueden ser utilizados bajo Windows 2000 si está configurado en el puerto 0x278, debido a la implementación que tiene Windows 2000 (el puerto 279 es utilizado normalmente por Windows 2000 ISAPNP Read Data Port driver). Por lo que se recomienda setear el jumper contenido en la Placa Crypto Programadora para que funcione en el slot 3BC

Si Ud. tiene problemas bajo con Windows 2000 accediendo una llave Hardlock local, le sugerimos que configure el puerto paralelo de su sistema al 0x278.

Al configurar el puerto paralelo en 0x278 (setup de su PC), el puerto no es más utilizado por el driver de Windows 2000 ISAPNP Read Data Port driver.

Por cualquier duda, consulte a nuestro soporte técnico.

Estructura de Directorio del CD de Hardlock

Dependiendo de las opciones de software que Ud. instale, la siguiente estructura de directorio será creada por el programa de instalación. Por favor, tenga en cuenta que su aplicación ejemplo podría acceder archivos de diferentes directorios (por ejemplo API/SRC) para compilar/correr correctamente.

```
\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:
---
 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 HLVDD.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:
-------------
      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 McAffee.
      - 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:
-------------
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:
-----------
1.28  - Driver signed by Microsoft.
1.25  - Small bug fixes.
1.22  - Some adaptions for Microsoft driver signing.
1.20  - Fixed: No message box after removal of Hardlock USB on
         Windows 2000
1.14  - Some adaptions 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:
-------------
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
-------------
1.01  - Initial release. New driver for improved PCCard support, signed by
         Microsoft.


Linux:
------
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):

  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-Crpyt for Win32 can protect "already protected"
          executables. (that is, programs already processed with HL-Crpyt
          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 HLWCRYPT.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 (HLWCRYPT):
  ------------------------------
    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\beta.
    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:
----------

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:
      ----------------
      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 handeled
                   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 scroll-
  bar 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 unamed 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 akspccard.sys for XP/2000 -> see section for
          akscpcard.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:
-----------
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):
-------------------------------------------------
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:
-------------------
 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:
----------------------
 1.00   - initial release
```

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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
----------
 1.00  - Initial release


AKSCPC.INF
----------
 1.00..- Initial release


--------------------------------------------------------------------


Please note that changes/fixes made for the API may also affect the other
products since they are also based on the Hardlock API.
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Munich, Marzo 2002