



# EgoSecure Full Disk Encryption Release Notes

Version 14.3.937.1

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## Introduction

EgoSecure Full Disk Encryption provides strong authentication and protection for standard hard disks via sector-based Full Disk Encryption (FDE) and Pre-Boot Authentication (PBA). This provides perfect ‘turn-off-protection’, which means that the implemented security mechanisms provide the highest security for the operating system, as well as for the data – provided the computer is turned off at the time of theft. The optional use of a security token or smart card at pre-boot is the high-end solution for secure key management in conjunction with two-factor authentication.

## System Requirements

To use EgoSecure Full Disk Encryption, your system must meet the following system requirements.

### Hardware Requirements

Component	Requirements
Hard disk	<ul style="list-style-type: none"> <li>▶ 500 MB Partition size</li> <li>▶ File system of internal hard disk: NTFS</li> <li>▶ Computer bus to hard disk: P-ATA (standard hard disks only), S-ATA (standard, SSD and SED are supported), PCI Express (NVMe SSD for UEFI devices)</li> <li>▶ Sector size: 4 Kbyte (AF) or 512 Byte</li> </ul>
Card reader	EgoSecure FDE uses CCID middleware to access a smart card using SCard API (PC/SC). That is a common driver standard and used by a wide range of smartcards. To see if your hardware is supported, follow this <a href="#">link</a> .
Touchscreen	<ul style="list-style-type: none"> <li>▶ Surface Pro 3</li> <li>▶ Devices with eGalaxTouch EXC3188</li> </ul> <p>Currently touchscreen support during Pre-Boot Authentication (PBA) is very limited. If your device is not in the list of supported ones, we recommend to test the compatibility by installing FDE and performing the PBA.</p>

### Software Requirements

Operating systems	Firmware
<ul style="list-style-type: none"> <li>▶ Windows XP 32-bit (Professional or Home Editions) with Service Pack 2 or higher</li> <li>▶ Windows XP 64-bit Professional with Service Pack 3</li> <li>▶ Windows Vista 32-bit with Service Pack 2</li> <li>▶ Windows Vista64-bit with Service Pack 2</li> <li>▶ Windows 7 32-bit/64-bit.</li> <li>▶ Windows 8 32-bit/64-bit</li> <li>▶ Windows 8.1 32-bit/64-bit</li> <li>▶ Windows 10 32-bit/64-bit</li> </ul>	<ul style="list-style-type: none"> <li>▶ BIOS Note: The system with MBR may have 4 primary partitions at most. EgoSecure Full Disk Encryption needs one entry in the primary partition table.</li> <li>▶ UEFI (only x64)</li> </ul>

# Installation & Usage

## Setup

For an initial installation of EgoSecure Full Disk Encryption, please find a detailed description in the EgoSecure FDE - Installation and Troubleshooting Guide:

[Download EgoSecure FDE - Installation and Troubleshooting Guide \(PDF, EN\)](#)

## Administration

For details about deployment and configuration see the Administration & Usage Guide:

[Download EgoSecure FDE - Administration & Usage Guide \(PDF, EN\)](#)

# Support

## Hotline

Before you contact the Support team, please check the following article about how to get help for technical issues:

[Getting help for technical issues](#)

## Phone and Mail Support:

+49 (0)69 - 667 738 222

[helpdesk@matrix42.de](mailto:helpdesk@matrix42.de)

## Online Resources

English Knowledge Base:

<https://help.matrix42.com/>

German Knowledge Base:

<https://help.matrix42.de/>

## Documentation

Download the latest product documentation and datasheets:

[English](#)

[German](#)

## Release Notes

### 14.3.937.1

#### FDE

##### *New*

- ▶ Implemented BitLocker compatibility: Encrypting a disk with FDE is now possible even if another (but not the same) disk has been encrypted by BitLocker.
- ▶ FDE now checks the BitLocker encryption status of a system drive before initialization to prevent the same drive from being encrypted by both FDE and BitLocker.

##### *Modified*

- ▶ Added an option to repair the UEFI boot order via emergency recovery application.
- ▶ Added an option to disable the check for correct boot order via emergency recovery application.
- ▶ Added an option to EgoSecure Console to hide the FDE Tray for the Agent.
- ▶ Improved display of information about last performed operation in the FDE Tray.

##### *Fixed*

- ▶ A bug where an incorrect error message was shown when FDE initialization failed due to lack of free disk space.
- ▶ A bug where disk decryption started automatically after system reboot.
- ▶ A bug where an incorrect encryption status was displayed in the FDE tray.
- ▶ An issue where FDE update could be interrupted by closing the FDE initialization dialog.
- ▶ An issue where the FDE initialization dialog didn't close if other modules were called during the initialization process.
- ▶ A bug where no tabs could be opened after the disk encryption.
- ▶ A bug where FDE failed to reboot automatically after initialization.
- ▶ A bug where the administration password dialog mistakenly closed when pressing ENTER.
- ▶ A bug where Encryption scripts were not deleted after successful encryption process.
- ▶ An issue where the FDE initialization crashed on Windows 10 UEFI x64 systems.
- ▶ A bug where FDE recovery caused FDE deinitialization to fail.
- ▶ An issue that prevented the FDE recovery service to be removed.

#### PBA

##### *New*

- ▶ Implemented an option to specify the screen resolution via dmiconfig.
- ▶ Added the option to choose a default PBA mode during PBA initialization.
- ▶ Added a graphical user interface to Simple PBA for UEFI.

#### *Modified*

- ▶ Modified dmiconfig boot parameters.

#### *Fixed*

- ▶ A bug where an error message about inactive user capture was displayed incorrectly.
- ▶ A bug in recovery information that made it impossible to save an ERI file without a password.
- ▶ A bug where PBA initialization with default settings didn't work.
- ▶ An issue where the PBA initialization dialog didn't close automatically.
- ▶ A bug where the PBA configuration policy failed to deploy.
- ▶ A bug where the boot loader didn't update correctly after a version upgrade.

### **UI**

#### *Modified*

- ▶ Redesigned information dialogs and error messages.

#### *Fixed*

- ▶ A bug where the default log file path was not displayed in the FDE initialization screen.
- ▶ A bug where selection boxes in the Policy Builder appeared empty.
- ▶ A bug where the FDE version number was displayed incorrectly in the Console.

## **14.2.935.2**

### **FDE**

#### *New*

- ▶ Added the possibility to hide FDE tray.
- ▶ Now if PBA or FDE initialization/deinitialization is running, a computer shutdown and restart is prevented.

#### *Fixed*

- ▶ A bug where fdeinit.exe was identified as threat during a scan by EgoSecure Anivirus.
- ▶ A bug where it wasn't possible to edit an unencrypted copy of FDE policy.
- ▶ An issue where updating DEK protection setting failed.
- ▶ An issue where incorrect data verification interfered hardware key encryption.
- ▶ A bug that made it impossible to start more than one encryption process.
- ▶ A bug where administration password dialog and dialog that FDE encryption is already running appeared at the same time.

### **PBA**

#### *New*

- ▶ Added new keyboard mode "Mod" for adding special characters during PBA login.

- ▶ Implemented possibility to apply dmi.ini settings during PBA initialization or update.

*Fixed*

- ▶ An error where PBA administration crashed.
- ▶ A problem where Password users could not be added.
- ▶ An error when clicking ESC during PBA initialization.

**UI**

*Modified*

- ▶ Added new icons to FDE console.

*Fixed*

- ▶ Some UI bugs regarding encryption progress bar, checkboxes and other elements.
- ▶ Different small UI bugs in PBA administration.

## 14.1.933.0

**FDE**

*New*

- ▶ Now it is possible to protect encryption keys with an additional hardware-based key.

*Fixed*

- ▶ Accelerated encryption process.
- ▶ A problem with FDE initialization when audit java archives launch was enabled.
- ▶ Systemcheck.exe helpdesk application updated.

**PBA**

*Modified*

- ▶ New Linux kernel 4.19.20

**UI**

*Modified*

- ▶ Improved UI for PBA and FDE.

## 13.2.920.0

**Agent**

*New*

- ▶ Added a validation during installation if Secure Boot is enabled on the target system.

*Fixed*

- ▶ An issue where repairing of an encrypted disk was started, once a computer woke up from hibernation.
- ▶ A problem where the storage location of the FDE application wasn't displayed in the Inventory panel.
- ▶ A bug where FDE couldn't be installed on Windows XP.

## FDE

### *New*

- ▶ Added support of primary partition decryption with ERI-file, when FDE partition has been deleted.

### *Modified*

- ▶ Now an error message appears if the password for ERI file couldn't be changed.

### *Fixed*

- ▶ An issue which caused BSOD after FDE uninstall and reinstall without a reboot.
- ▶ A problem where the Eri file was generated only after the whole disk encryption.
- ▶ An issue where a BSOD occurred during FDE installation on a Silicon Power 128 SSD.
- ▶ An issue where a partition was converted into raw format after encryption.
- ▶ Changed determination method for partition type (primary or logical) on MBR-drives. The wrong determination of partition type leads to starting problem or broken partition data.
- ▶ A problem where FDE initialization via MSI parameters didn't work with UEFI.
- ▶ A black screen error appeared when restarting the computer after FDE initialization.
- ▶ A bug that prevented drive encryption on Win XP.

## PBA

### *New*

- ▶ Added support for changing PBA screen resolution in PBA Administration >> Pre-Boot Options.
- ▶ Added new entries in the PBA menu: 1) BIOS → Full Disk Encryption PBA (ACPI, KICKSTART=BIOS) low resolution 2) UEFI → Full Disk Encryption PBA (KICKSTART=BIOS) low resolution

### *Fixed*

- ▶ An issue where incorrect notifications were displayed during a PBA logon.
- ▶ A problem where self-initialization didn't work.
- ▶ An error message appeared after typing the right password in Simple PBA when a wrong password was entered before.
- ▶ An issue where Single Sign On (SSO) didn't work
  - when Windows logon was configured to use a smart card
  - when Secure boot was enabled
  - after Hibernation mode.



## Default

### *New*

- ▶ Now the EgoSecure icon appears in the notification area of the Windows taskbar once the encryption of a disk is started locally by a user or remotely by an administrator. When clicking this icon, the **EgoSecure FDE** dialog appears, where the encryption progress is shown.

## 12.3.907.10

## FDE

### *Fixed*

- ▶ An issue where a partition was converted into raw format after encryption.
- ▶ Changed determination method for partition type (primary or logical) on MBR-drives. The wrong determination of partition type leads to starting problem or broken partition data.

## PBA

### *New*

- ▶ Added support for Elo Touch Screens during PBA.

### *Fixed*

- ▶ A problem on SurfacePro devices where the touch screen was not working during PBA.

## 12.3.907.8

## Agent

### *Fixed*

- ▶ A problem where the storage location of the FDE application wasn't displayed in the Inventory panel.
- ▶ A problem where drivers were not updated during an FDE update.

## FDE

### *Fixed*

- ▶ An issue which caused BSOD after FDE uninstall and reinstall without a reboot.
- ▶ An issue where Windows could not start when AES-128 encryption algorithm was used on an UEFI system.
- ▶ A problem where the Eri file was generated only after the whole disk encryption.
- ▶ A problem where logical partitions on the system disk couldn't be encrypted.
- ▶ A problem with Windows Fast startup where Windows started to scan and repair an encrypted drive after shutdown or Windows freezed after hibernate.
- ▶ A problem where FDE could not be uninstalled.

- ▶ An issue where a BSOD occurred during FDE installation on a Silicon Power 128 SSD.

## PBA

### *New*

- ▶ Added Secure Boot Support for UEFI x64 systems.
  - ▶ Added new entries in the PBA menu:
    - 1) BIOS → Full Disk Encryption PBA (ACPI, KICKSTART=BIOS) low resolution
    - 2) UEFI → Full Disk Encryption PBA (KICKSTART=BIOS) low resolution

## 12.3.907.1

## Agent

### *New*

- ▶ Added a validation during installation if Secure Boot is enabled on the target system.

### *Fixed*

- ▶ An issue where repairing of an encrypted disk was started, once a computer woke up from hibernation.

## FDE

### *New*

- ▶ Multidisk support for encrypting all available drives has been enhanced.

### *Fixed*

- ▶ An issue where a computer froze during disk encryption.
- ▶ An issue with displaying the list of logical drives in WinPE.
- ▶ An issue where it was not possible to boot Windows after disk reencryption (Windows 10, UEFI).
- ▶ An issue which caused BSOD after FDE uninstall and reinstall without a reboot.
- ▶ A problem where Windows was not able to start after deinstallation of FDE (Error during boot: missing NAC partition).

## PBA

### *New*

- ▶ Added Surface Pro 5 type cover support.
- ▶ Added cryptovision PKCS#11 provider.

### *Modified*

- ▶ Added support for changing PBA screen resolution in **PBA Administration » Pre-Boot Options**.

### *Fixed*

- ▶ An issue where Single-Sign-On (SSO) did not work if Windows logon was configured to use a smart card.
- ▶ An issue where incorrect notifications were displayed during a PBA logon.
- ▶ An issue where single sign-on didn't work after the latest windows 10 update.
- ▶ An issue where user capturing failed during PBA on Lenovo Yoga 370.

## UI

- ▶ General text and UI changes.

## 12.2.896.1

### Agent

#### *Fixed*

- ▶ An issue where it was not possible to copy an ERI-file from Console.

### FDE

#### *Modified*

- ▶ Now two or more system drives are supported in the system. The target hard disk can be installed as any disk number in the computer.
- ▶ Disk layer encryption initialisation in encryption driver nbfdenc.sys to prevent issues.
- ▶ Text changes in the the commandline utility tcosconfig.exe.

#### *Fixed*

- ▶ A bug caused the Emergency Recovery Password that was provided in a configuration profile to not be written into the ERI-file. To use the ERI-file, the previously used password was required.
- ▶ An issue where entering the encryption key manually in WinPE wasn't available.
- ▶ An issue with the drive encryption (error code -1).
- ▶ An issue during start up, if the computer has been shut down during encryption or decryption process.
- ▶ A problem during encryption on Windows XP SP3 x32 system.
- ▶ A problem which results in "unmountable boot volume"-error after Windows Anniversary update when the drive was encrypted.

### PBA

#### *New*

- ▶ Added a driver specially developed for Emirates Java Card to enhance smart card support. Name in the list of PKSC#11 providers: Emirates eID.
- ▶ Added cryptovision PKCS#11 provider.
- ▶ Added support for friendly network during PBA.

- ▶ Added an option in expert mode to disable Adaptive Boot Mode (ABM).

*Modified*

- ▶ Now you can press 'g' key or press 'Ctrl' + 'g' combination to launch grub menu.

*Fixed*

- ▶ An issue with login into the log viewer in the PBA UI.
- ▶ A problem with smartcard Aladdin Etoken in PBA.

## 12.1.888.3

### FDE

*Fixed*

- ▶ Problem during start up, if the computer has been shut down beforehand during encryption or decryption process.
- ▶ Bug while copying ERI file from console.

## 12.1.888.0

### Agent

*Fixed*

- ▶ Problem where it was not possible to save an ERI-file without a password.
- ▶ Problem where Windows was not able to start after deinstallation of FDE (Error during boot: missing NAC partition).

### FDE

*New*

- ▶ Added option in expert mode to disable Adaptive Boot Mode (ABM).

*Modified*

- ▶ Now FDE can be installed on the 2nd physical drive in the system (if it's "System drive").

*Fixed*

- ▶ Bug where it was not possible to decrypt with the ERI-file via WinPe if two or more volumes are present.
- ▶ Bug where it is not possible to boot up from hibernate if the drive was encrypted.

### PBA

*New*

- ▶ Added NVMe express (NVMe) support for BIOS devices.
- ▶ Added module "simple PBA" for GRUB (for BIOS and UEFI).

- ▶ Added network stack to PBA.
- ▶ Added provider for Emirates Java Card to enhance smart card support.
- ▶ Added support for friendly network during PBA.
- ▶ Implemented Adaptive Boot Mode (ABM) for PBA.

#### *Modified*

- ▶ Added extended NVMe driver to PBA.
- ▶ Updated pcsc-lite to version 1.8.20 and ccid to version 1.4.26 to enhance hardware support.

#### *Fixed*

- ▶ Problem which results in "Unknown file system" error in Grub-menu after Windows Anniversary update when the drive was encrypted.
- ▶ Problem with logging into the log viewer in the PBA UI.

#### **UI**

- ▶ Removed external Media Encryption from local FDE console.

#### **General**

- ▶ Disabled hardware encryption for Seagate Momentus drives due to incompatibility.

## **11.2.879.13**

#### **Agent**

##### *Fixed*

- ▶ Rare problem during installation which caused the installation to fail.

#### **FDE**

##### *Fixed*

- ▶ Problem with nbfdenc driver update.
- ▶ Problem with decryption via WinPE in UEFI-mode.
- ▶ Improved encryption logic for "used sector"-encryption to prevent errors.
- ▶ Problem with LowerFilter driver order sequence which caused BSOD on Windows startup after Windows upgrade.

#### **PBA**

##### *Fixed*

- ▶ Problem with Single Sign-on (SSO) on Windows 7, BIOS.
- ▶ Incorrect PBA-login UI on SurfacePro 3.
- ▶ Problem with PBA deinitialization on Windows 7, UEFI.

## 11.2.879.8

### Agent

#### *Modified*

- ▶ Media Encryption is discontinued and has been removed from FDE.

#### *Fixed*

- ▶ Problem while upgrading FDE (error status: 1603).
- ▶ When uninstalling FDE on Windows 10 drivers were not removed from the system in rare cases.

### FDE

#### *Modified*

- ▶ Problem related to Windows shutting down while encrypting.
- ▶ Modified synchronisation of all encryption threads to prevent problems during encryption/decryption.
- ▶ Older FDE versions can now be upgraded as long as they were not initiated.

#### *Fixed*

- ▶ Problem where Windows was not able to start after encrypting drive C:\ on Windows 10 x64, UEFI-Mode.
- ▶ Problem with raising privileges (error 0x183) while deinitialisation.
- ▶ Rare bluescreen (BSOD) after encryption of drive C:\ on Windows XP.
- ▶ Rare problem which could occur when a drive is encrypted, decrypted and re-encrypted.
- ▶ Boot security could not be installed on Windows 8, UEFI-Mode.
- ▶ Error while Creating NAC Partition (error code -280).
- ▶ In rare cases when locking the PC via "Windows + L", the password would already be entered when unlocking the PC.
- ▶ Problem with the drive encryption (error code -1).
- ▶ Rare bluescreen caused by encrypting drive C:\.
- ▶ Some minor fixes for FDE UEFI driver and error handling.
- ▶ Problem with decryption via WinPE in UEFI-mode.

### PBA

#### *New*

- ▶ Added PBA boot menu for UEFI mode.
- ▶ WINDOWS\NAC\snbreportapicp.dll and WINDOWS\NAC\SBS\dmiconfig.exe have been added to the installer.

#### *Modified*

- ▶ Removed option BootChain > Repair BootChain from PE\_ERD\_W32.exe.

*Fixed*

- ▶ Single-sign-on (SSO) not working on Windows 7 (UEFI).
- ▶ Problem with SSO where Windows Logon Screen was shown even after successful authentication during PBA.
- ▶ Problem with single-sign-on (SSO) that Windows Logon Screen was shown even after successful authentication during PBA.
- ▶ Added kickstart mode "PBA (KICKSTART=BIOS) without DRM" to the GRUB menu to be able to boot without Kernel mode settings (KMS) for direct rendering manager (DRM). This addresses an issue where the graphics-card is not compatible with the kernel.
- ▶ Added support for Windows 10 anniversary update while the system drive is encrypted.
- ▶ Problem that made it impossible to deinitialise PBA.
- ▶ Problem with the first initialisation of smartcard etoken.
- ▶ Rare problem where the computer was not booting after PBA initialisation.
- ▶ Uninstalling the FDE while PBA is active will no longer cause bluescreens when booting the PC.
- ▶ Incorrect PBA-login on Surface Pro 3.
- ▶ Problem with SSO on Lenovo I540 ThinkPad (Windows 7, BIOS).

## 11.1.869.4

### FDE

*Modified*

- ▶ Removed all encryption algorithms except AES in UEFI-Mode.

*Fixed*

- ▶ Bug in encryption driver if verifier was set up for all FDE drivers.
- ▶ Problem with the PBA Helpdesk feature which could lead to a bluescreen (BSOD) while using challenge response grace login.
- ▶ Rare bluescreen (BSOD) after encryption of drive C:\.
- ▶ Rare error during disc encryption that could lead to an unbootable computer.
- ▶ New smart-card user can't be initialised during PBA in UEFI-Mode.

### PBA

*New*

- ▶ Added Aladdin Safenet token support for PBA.
- ▶ Added SmartCard reader support for Broadcom Corp 5880.
- ▶ Added on-screen touch keyboard support for SurfacePro 3 devices in PBA.
- ▶ Added support for changing on screen keyboard layout on the fly by using Advanced PBA configuration (Ctrl + F11).
- ▶ Preparation for on-screen touch keyboard support for SurfacePro 3 devices in PBA.

#### *Modified*

- ▶ Added new optional parameter (PBA\_ENCRYPTION\_TIMEOUT) for KICKSTART=BIOS mode to dmi.ini config file (use Dmiconfig utility). Minimum value is 30 seconds, maximum is 300 seconds.
- ▶ Modified shortcut for opening GRUB menu during boot phase to 'ctrl+g'.
- ▶ Syntax of the dmi.ini config file:

```
1. [default]
2. KICKSTART=BIOS
3. PBA_ENCRYPTION_TIMEOUT=60
```

#### *Fixed*

- ▶ "Kernel panic" problem by adding a new method in the EFI module to locate the PBA partition.
- ▶ Problem where PBA would not work in UEFI mode.
- ▶ Problem causing PBA to not function.
- ▶ Problem with input devices in PBA.
- ▶ Removed option "reset PIN (PUK unknown)" from PBA GUI.

## **10.3.859.1**

### **FDE**

#### *Fixed*

- ▶ Bug in encryption driver nbfdenc.sys that could cause a bluescreen (BSOD).
- ▶ Problem that the drive could not be encrypted (Error status = -217).
- ▶ Problem that the drive cannot be encrypted (Error status = -217).
- ▶ Installation was not possible under a certain condition due to a bug in the registry.

### **PBA**

#### *New*

- ▶ Added FDE recovery for 64-bit platform.

#### *Modified*

- ▶ Updated KICKSTART parameter "KEXEC" to improve compatibility with more hardware models.
- ▶ Added support for the DRM driver in the ACPI Kernel in case the generic VESA video driver is not working (can be enabled in dmi.ini by using parameter "KERNEL=/boot/bzImage-acpi" or on-the-fly via GRUB menu using "Ctrl + g" during startup).

#### *Fixed*

- ▶ UEFI boot manager containing two records of 'Windows Boot Manager (Backup)'.



## 10.1.843.6

### Agent

#### *Fixed*

- ▶ A rare crash of the FDE administration UI.

### FDE

#### *Fixed*

- ▶ A rare bluescreen (BSOD) after encrypting disk C:\.

### PBA

#### *New*

- ▶ Added GRUB menu to change the KICKSTART option on the fly (accessible via ESC during boot phase).
- ▶ Added Microsoft SurfacePro3 typed cover support.
- ▶ Added Yubico Yubikey NEO OTP+U2F+CCID support.
- ▶ Added Aladdin e-Token PRO 64k support.
- ▶ Added Omnikey CardMan driver to support the following devices:
  - OMNIKEY 1021 USB
  - OMNIKEY 3121 USB
  - OMNIKEY 3621 USB
  - OMNIKEY 3821 USB
  - OMNIKEY 6121 USB
  - OMNIKEY 4321 USB

#### *Modified*

- ▶ Removed all obsolete entries from default.dmi.ini.

#### *Fixed*

- ▶ Problem with initialisation of PBA because SBS image could not be written.
- ▶ Added support for the DRM driver in the Kernel and disabled GFX in GRUB menu in case the generic VESA video driver is not working.
- ▶ Single-sign-on (SSO) not always working.

## 10.2.2

### Agent

#### *Fixed*

- ▶ Rare problem while allocating a new partition during installation.

## FDE

### *Modified*

- ▶ Increased FDE partition size to about 500 MB (update from earlier versions is not possible).

## PBA

### *New*

- ▶ Added FDE und PBA support in UEFI-Mode.
- ▶ Added UEFI boot manager record: "Windows Boot Manager (backup)" for emergencies.

## 10.1.1

## Agent

### *Fixed*

- ▶ Problem where it was not possible to change PBA settings.
- ▶ Problem that made it impossible to change PBA settings.
- ▶ A rare crash of the PBA administration UI.
- ▶ Added verification during FDE upgrade if versions are compatible.

## FDE

### *Fixed*

- ▶ Problem during encryption which could lead to the drive being in RAW-format.
- ▶ Problem in driver nbfdenc.sys which could lead to a bluescreen (BSOD) after installation and restart.
- ▶ Problem in driver nbfdenc.sys which could lead to a bluescreen (BSOD) while connecting a USB 3.0 drive.
- ▶ Problem that the automatic reboot has not been performed before encrypting.
- ▶ Drive C:\ can not be encrypted (Error 0x80004005).

## PBA

### *New*

- ▶ Added optional GRUB menu to switch KICKSTART and kernel parameters on the fly (can be opened with <Esc> during boot phase).
- ▶ Updated Linux Kernel to 3.15 to enhance hardware compatibility.

### *Modified*

- ▶ Added Omnikey CardMan driver to linux kernel for enhanced hardware support.
- ▶ Added the option to the GRUB menu to boot from Windows partition if PBA fails to initialize (can be opened with <Esc> during boot phase).
- ▶ Changed default KICKSTART mode in dmi.default.ini to BIOS.

*Fixed*

- ▶ Problem when Windows was not able to start after PBA initialisation.
- ▶ Problem with user self-initialisation not working.
- ▶ Disabled the utilization of all unknown Opal SEDs (hardware encryption) to avoid problems.
- ▶ Problem that the PBA is not starting after initialization.
- ▶ Problem when logs can not be saved onto a flash drive using "Ctrl+F1".
- ▶ Problem with single-sign-on (SSO) because of wrong conversion of user name and domain name.
- ▶ Certificates on Aladdin eTokens couldn't be accessed

## Imprint

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