EGOSECURE
A MATRIX42 COMPANY

EgoSecure Full Disk Encryption

Release Notes

Version 15.2.945.3

20/07/2020

Contents

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	▸ 500 MB Partition size ▸ File system of internal hard disk: NTFS ▸ 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) ▸ Sector size: 4 Kbyte (AF) or 512 Byte
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 **link.**
Touchscreen	▸ Surface Pro 3 ▸ Devices with eGalaxTouch EXC3188 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.

Software Requirements

Operating systems	Firmware
▸ Windows XP 32-bit (Professional or Home Editions) with Service Pack 2 or higher ▸ Windows XP 64-bit Professional with Service Pack 3 ▸ Windows Vista 32-bit with Service Pack 2 ▸ Windows Vista64-bit with Service Pack 2 ▸ Windows 7 32-bit/64-bit. ▸ Windows 8 32-bit/64-bit ▸ Windows 8.1 32-bit/64-bit ▸ Windows 10 32-bit/64-bit	▸ 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. ▸ UEFI (only x64)

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

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

15.2.945.3

PBA

Fixed

▶ Fixed a bug when a password entry dialog appeared atop of the dialog about shut down in the graphical Simple PBA mode.

FDE

New

▶ The **Use alternate loader** option was added to the FDE initialization policy of the Policy Builder.

Fixed

▶ An issue where after an update from 15.1.945.3 to 15.2.945.1 via the command line additional hard disks/partitions were no longer readable and could not be decrypted via the Console.

15.2.945.2

PBA

New

▶ Added support for German keyboard layot in graphical Simple PBA (UEFI) and text-based Simple PBA (UEFI).

▶ Added a smart card support for graphical Simple PBA.

▶ Implemented additional validation when adding new PBA users.

Modified

▶ Added helpdesk in text-based Simple PBA when the system drive is locked.

▶ Improved readability during helpdesk text-based Simple PBA response.

Fixed

▶ An issue where Friendly Network didn't work after update to 15.1.943.3 on Fujitsu Esprimo P557

▶ A bug where the enabled option "new user has admin rights" was disabled after reopening PBA administration.

▶ An issue where PBA users, which were added or removed, were visible only after reopening PBA administration.

FDE

Fixed

▸ An issue where after a Microsoft Windows function update from April 2020 the encrypted notebook did not boot into Windows.

▸ An issue where hard disk encryption was impossible.

15.1.943.6

PBA

▸ An issue with dmi.ini where after the PBA initialization Windows didn't start on legacy BIOS systems.

▸ An issue where Friendly Network didn't work on Fujitsu esprimo p557.

15.1.943.3

FDE

Fixed

▸ An issue where Friendly Network could not be managed via the Policy Builder Scripts.

▸ An error where FDE and PBA configuration policies didn't start.

PBA

New

▸ Added the support of touchpads of Fujitsu U748 and Fujitsu U749 during the PBA phase.

Modified

▸ Now the Graphical Simple PBA is available for selection in Policy Builder on BIOS systems, but the Graphical Simple PBA itself works as before only on UEFI systems.

▸ New Linux kernel 5.5.7.

Fixed

▸ A bug when mouse pointer was extremely slow in the Graphical Simple PBA mode.

15.1.943.1

FDE

Modified

▸ Now the FDE installation is not allowed if NAC partition already exists on the system drive.

▸ Added a check for RAID and AHCI before encryption. If it is a BIOS system drive, FDE installation fails. If it is not a system drive, FDE will work. On UEFI systems, FDE will work in all scenarios with RAID.

Fixed

▸ A bug when systems froze after the disk encryption (only on Windows 7 x86 systems with enabled Windows Defender).

▸ Now it is possible to use keyboard in the FDE Control Center.

▸ A bug when FDE initialization policy is created instead of a configuration or deinitialization policy.

▸ A problem when the wrong FDE version displayed on Windows startup.

▸ Error when executing the scripts for PBA initialization or for encryption.

▸ A bug where there was incorrect elapsed time after completed encryption.

▸ A bug when there was no feedback when trying to start the disk encryption module in case the encryption was in progress.

▸ Policy Builder script executed although the password was wrong.

PBA

New

▸ Added helpdesk to text-based Simple PBA.

▸ The **Power off pba after number of seconds** option was added to the text-based and graphical Simple PBA. In 2 minutes the computer shuts down. It works only on UEFI systems.

Fixed

▸ A bug where a computer was booting very long after hibernation and with enabled fast boot option.

▸ A problem where touchpad didn't work in the PBA phase on Fujitsu Lifebook.

▸ An issue when Friendly Network was not supported on computers with Thunderbolt 3 docking station.

▸ An issue when the font size in the PBA boot menu was too small.

▸ A bug when it was not possible to reboot after PBA initialization/deinitialization.

▸ An issue where it was possible to initialize PBA if Windows is launched directly without the FDE loader.

▸ A problem in WinPE where it was not possible to decrypt a drive with encryption key without ERI.

▸ An issue when PBA initialization was incorrect in the ACHI boot mode.

▸ A problem with the **User capturing enabled** option was fixed.

▸ A bug within the Policy Builder when the checkbox "no automatic confirmation" was not configurable.

▸ A bug where in recovery information it was impossible to confirm password for ERI because of the wrong focus.

UI

Modified

▸ New GUI style for the WinPE application.

14.4.941.3

FDE

Fixed

▶ A bug where an incorrect FDE status was displayed after encryption / decryption.

▶ An issue that returned an error when trying to update DEK protection settings during FDE initialization.

PBA

Modified

▶ Added Helpdesk support in Graphical Simple PBA.

Fixed

▶ An issue where using the virtual keyboard during the Helpdesk procedure did not work.

▶ An issue where PBA initialization failed on HP Elitebooks if an USB drive was connected.

▶ An issue causing problems with PBA login after switching from a local user to a Microsoft account.

UI

Modified

▶ The Helpdesk button is now hidden if no Helpdesk key has been imported.

Fixed

▶ A bug where an incorrect amount of elapsed time was displayed after disk encryption.

▶

14.4.941.1

FDE

Fixed

▶ A bug where an incorrect FDE status was displayed after encryption / decryption.

▶ An issue that returned an error when trying to update DEK protection settings during FDE initialization.

PBA

Modified

▶ Added Helpdesk support in Graphical Simple PBA.

Fixed

▶ An issue where using the virtual keyboard during the Helpdesk procedure did not work.

▶ An issue where PBA initialization failed on HP Elitebooks if an USB drive was connected.

▶ An issue causing problems with PBA login after switching from a local user to a Microsoft account.

UI

Modified

▶ The Helpdesk button is now hidden if no Helpdesk key has been imported.

Fixed

▶ A bug where an incorrect amount of elapsed time was displayed after disk encryption.

14.4.941.0

FDE

New

▶ Implemented FDE encryption for large drives with a size of more than 2 TB.

Modified

▶ Redesigned the FDE UEFI Boot Manager.

Fixed

▶ Several problems relating to the FDE UEFI Boot Manager on HP laptops.

▶ An issue where FDE could not be uninstalled via the EgoSecure Console.

▶ A bug where the NAC partition was not removed after FDE deinstallation on UEFI devices.

▶ An issue where the fde.init module sometimes closed during initialization.

▶ An issue that caused an error when performing FDE initialization both locally and via the Console.

▶ A bug that caused an error on disk encryption with the Blowfish algorithm.

▶ A bug where an incorrect version number was displayed after an FDE update.

▶ An issue that caused an exception when the computer was shut down during disk decryption.

PBA

New

▶ Added USB support to Ethernet devices for Thunderbolt docking stations.

Fixed

▶ An issue that caused a bluescreen after PBA login when the computer ran out of power during hibernation.

▶ An issue where the PBA protection key was not deleted during FDE deinitialization.

▶ An issue where it wasn't possible to deactivate locking in the PBA Administration settings.

▶ An issue that caused the computer to enter recovery mode when restarting after changing the PBA mode.

▶ An issue where PBA users could not be updated manually in the PBA Administration settings.

▶ A bug where the option to show the last username on login did not function correctly in Simple PBA and Graphical Simple PBA modes.

▶ An issue where Friendly Network could not be activated in the EgoSecure Console.

▶ An issue where Linux-based PBA did not work on a Surface Go tablet.

▶ A problem where it was possible to initialize PBA after loading Windows directly without the FDE loader.

▶ A bug where different request values were generated when moving back and forth within the HelpDesk dialog.

▶ A bug where the boot menu appeared after the HelpDesk in Simple PBA instead of the Windows login dialog.

▶ An issue where Single Sign-On did not work on some computers.

UI

Modified

▶ Adjusted the dialog to adapt FDE logfile size in the Policy Builder.

Fixed

▶ A bug where info about FDE was displayed twice in the Control Panel after an update.

▶ A bug where an incorrect progress bar was displayed after attempting to deinitialize FDE.

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.

▶ Addded 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 passsword.

▶ 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 Hibernate 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 froze 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-Sing-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 initialization in encryption driver nbfdenc.sys to prevent issues.

▸ Text changes in 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 NVM 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 synchronization 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 deinitialization.

▸ 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 initialization of smartcard etoken.

▸ Rare problem where the computer was not booting after PBA initialization.

▸ 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 l540 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 initialized 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 linkux 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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