



SoftControl

DeCrypt 1.0.79

User guide

Dear user!

Safe'N'Sec Corporation thanks you for choosing SoftControl DeCrypt. Specialists of the company do their best to make sure our software both meets the highest requirements in a field of information protection and is easy use. We hope you find SoftControl DeCrypt helpful.

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Safe'N'Sec Corporation, 2018

Postal address:

127106 Russia, Moscow

Altufyevskoe shosse, 5/2

Safe'N'Sec Corporation

Tel:

+7 (495) 967-14-51

Fax:

+ 7 (495) 967-14-52

E-mails:

Customer service: support@safensoft.com

Sales team: sales@safensoft.com

Website: <http://www.safensoft.com>

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1. Introduction

1.1 Purpose

SoftControl DeCrypt encryption software is designed to encrypt the hard disks of Microsoft® Windows®-controlled self-service devices. SoftControl DeCrypt provides protection from the following types of attacks.

1. The violator steals the hard disk of a self-service device. The violator reverse engineers the contents of the disk in a lab, finds software vulnerabilities and subsequently carries out an attack on the self-service device.
2. The violator bypasses BIOS protection, loads the self-service device from an external drive and reverse engineers the contents of the hard disk.

When the encryption process runs, SoftControl DeCrypt reads out the parameters of all the devices connected to the computer. When the computer loads next time and no critical changes in the configuration are detected, the OS loads with the use of the device parameters. A change in computer configuration is considered critical if three or more devices have been modified or removed. Changing one or two devices is possible and is implemented with the help of [Shamir's secret sharing](#) algorithm.

If there is a critical change in the computer configuration, SoftControl DeCrypt prompts the user to enter the password he/she specified during disk encryption, to load the OS.

SoftControl DeCrypt is a client component and can operate both in stand-alone mode and in conjunction with SoftControl Service Center. For SoftControl DeCrypt to work with SoftControl Service Center, the SoftControl SysWatch client component should be installed on the computer along with SoftControl DeCrypt. SoftControl SysWatch transfers the encryption events to SoftControl Server.

For details on how to view SoftControl DeCrypt logs, see 'SoftControl Service Center administrator's guide'.

1.2 Notational conventions and terms

1.2.1 Notational conventions

Table 1 lists notational conventions used in this document.

Table 1. Notational conventions

Notation example	Description
i	An important information, a note.
<u>Condition</u>	An execution condition, a note, or an example.
Update	– headers and acronyms; – names of buttons, links, menu items, and other program interface elements.
<i>Control policy</i>	– terms (definitions); – names of files and other objects; – messages displayed to user.
C:\Program Files\SoftControl	Paths to directories, files, or registry keys.
%windir%\system32\msiexec.exe /i	Source code, command and configuration file fragments.
<SoftControl DeCrypt installation directory>	Fields with specific names to be replaced with actual values.
Appendix ⁵	Links to internal resources (document sections) with a specific page number, or links to external resources (URL).

1.2.2 List of acronyms

This documents uses the following acronyms:

- ❖ **OS** – operating system;
- ❖ **GUI** – graphical user interface.

1.2.3 Glossary

Table 2. Glossary

Term	Description
Client host	A computer (a workstation, a server, a self-service terminal) with the installed SoftControl DeCrypt.
Boot loader	A component of the SoftControl DeCrypt encryption system. It loads the OS with the use of the device parameters, or with the use of the password (if loading with the device parameters failed).

2. Hardware and software requirements

2.1 SoftControl DeCrypt system requirements

Table 3. Minimal system requirements

OS	HDD free space
▪ Microsoft® Windows® 7 (64-bit) ▪ Microsoft® Windows® 8 (32-bit/64-bit) ▪ Microsoft® Windows® 8.1 (32-bit/64-bit) ▪ Microsoft® Windows® Server 2003 (64-bit) ▪ Microsoft® Windows® Server 2008 64-bit) ▪ Microsoft® Windows® Server 2008 R2 ▪ Microsoft® Windows® Server 2012 (32-bit/64-bit) ▪ Microsoft® Windows® Server 2012 R2 (32-bit/64-bit) ▪ Microsoft® Windows® 10 (32-bit/64-bit) ▪ Microsoft® Windows® Server 2016 (32-bit/64-bit)	100MB + extra 10MB in the UEFI partition

Additional requirements:

- BIOS type: UEFI. We recommend that you disable the **SecureBoot** option.
- The hard disk should use GPT (GUID Partition Table). Unallocated space should be available in the beginning sector (at least 32KB). See also information in [Appendix](#)³⁵.

3. Installing SoftControl DeCrypt

You can install SoftControl DeCrypt in the following ways:

- [standard mode \(via GUI\)](#)⁽⁷⁾;
- [silent mode](#)⁽⁹⁾.

3.1 Installing in standard mode

- 1) Run the *SoftControl DeCrypt Setup 1.0.79 .exe* installation package.
- 2) If you accept the terms, select **I accept the license** and click **Next** (fig. [License agreement](#)⁽⁷⁾).

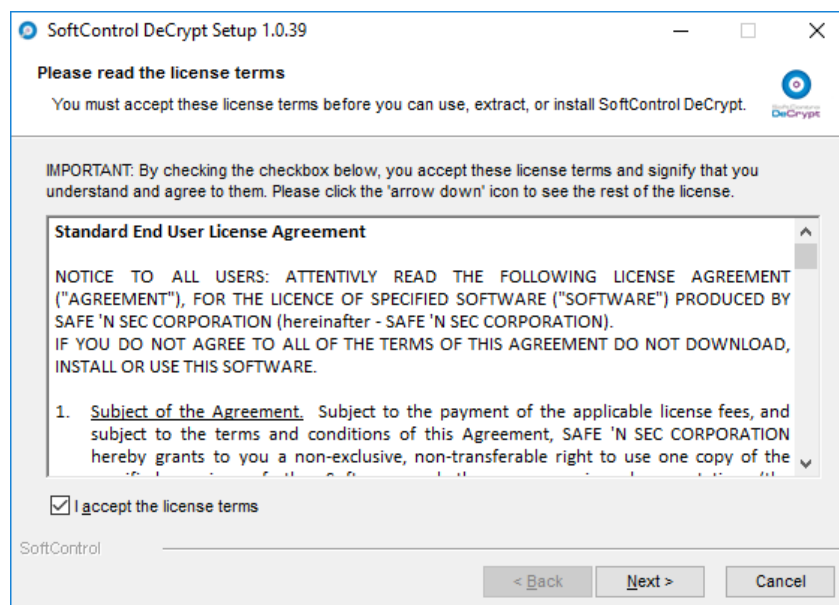


Figure 1. License agreement

- 3) Select the required option in the **Wizard Mode** window and click **Next** (fig. [Selecting the installation option](#)⁽⁷⁾).

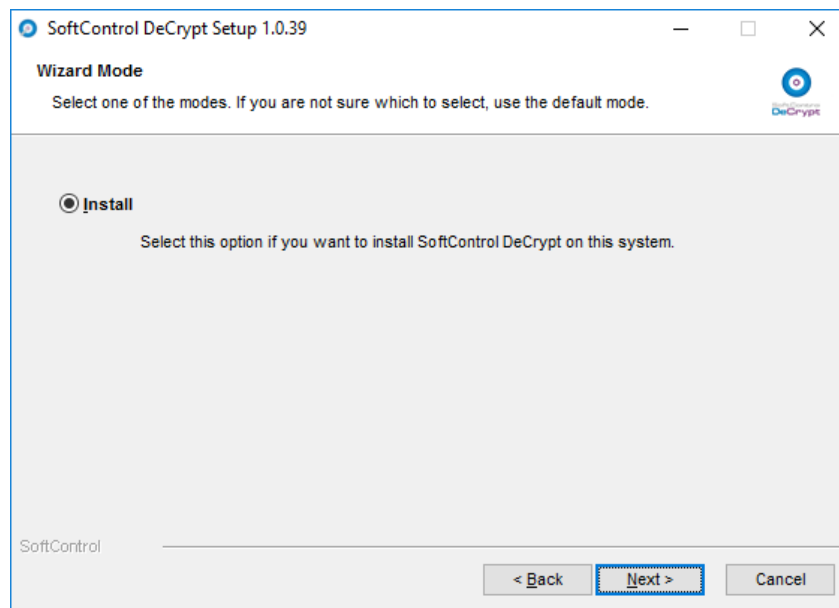


Figure 2. Selecting the installation option

- 4) Select a directory to install SoftControl DeCrypt to (with the help of the **Browse** button) and click **Next** (fig. [Installation path](#)⁸).

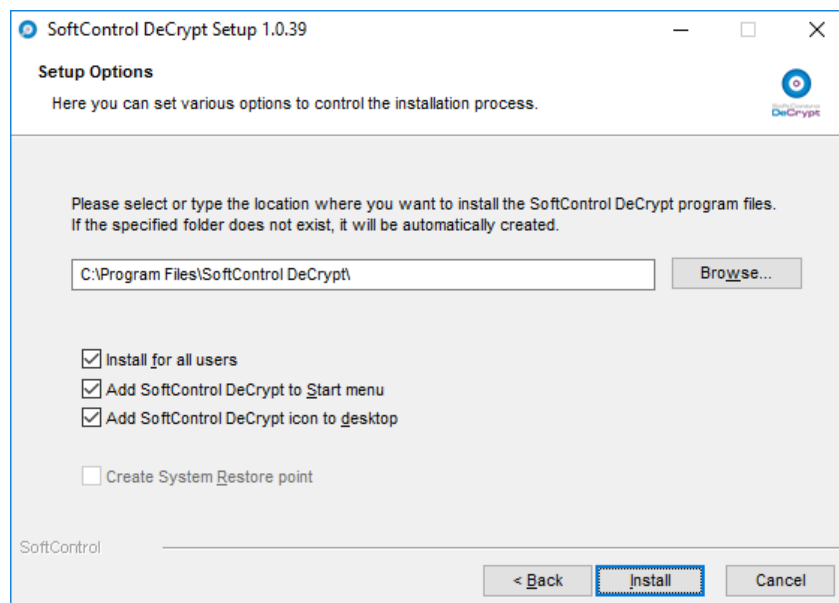


Figure 3. Installation path

- 5) Wait until installation completes (fig. [Installation progress](#)⁸).

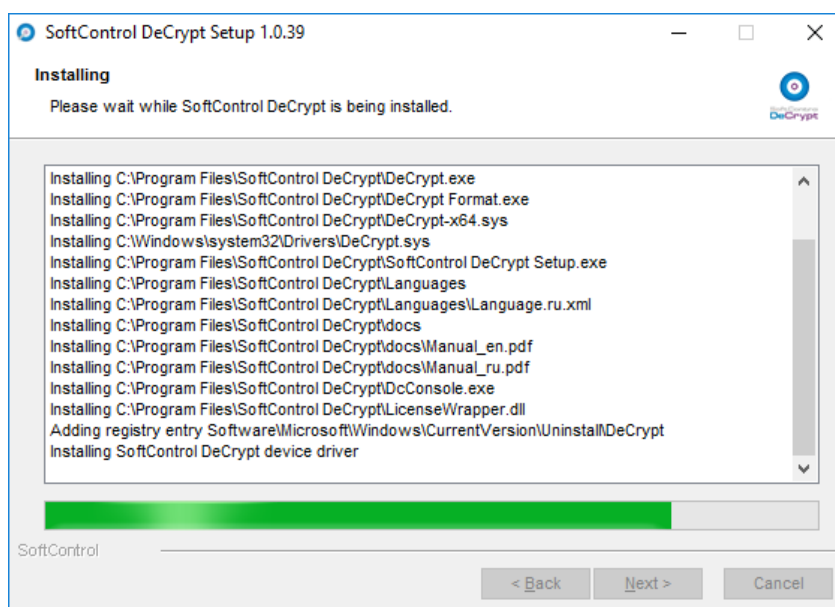


Figure 4. Installation progress

6) After the **SoftControl DeCrypt has been successfully installed** message is displayed, click **Finish** (fig. [Installation completes](#) ⁹).

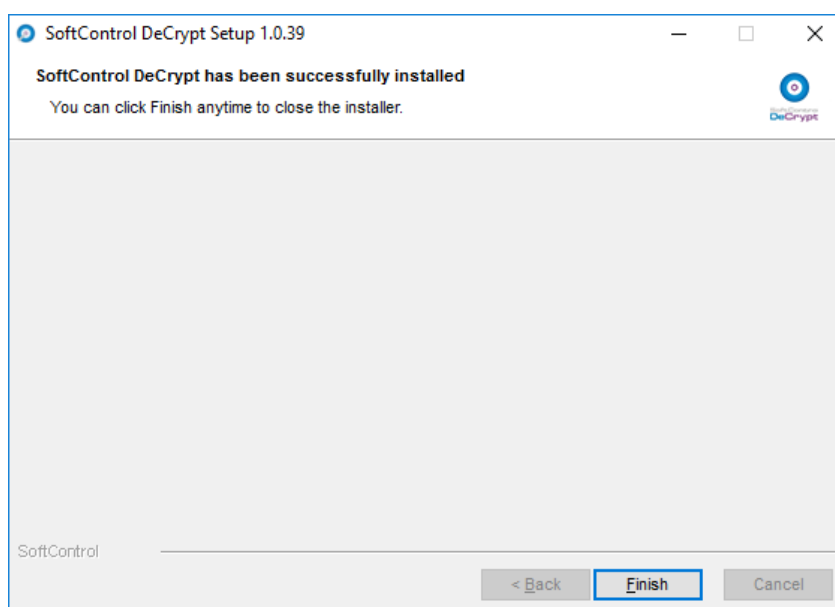


Figure 5. Installation completes

3.2 Installing in silent mode

Important: All steps require administrator privileges.

- 1) Copy the *SoftControl DeCrypt Setup 1.0.79 .exe* installation package to a folder on the client host.
- 2) Run Windows command prompt and enter the following command:

```
"<folder with the installation package>\SoftControl DeCrypt Setup 1.0.79 .exe" /q [/folder  
"<installation folder>"]
```

If the optional `/folder` parameter is not used, the default installation folder for SoftControl DeCrypt is `C:\Program Files\SoftControl DeCrypt`.

4. Working with SoftControl DeCrypt

This section contains instructions on how to work with the main SoftControl DeCrypt functions.

SoftControl DeCrypt GUI is shown in fig. [Elements of the program GUI](#)⁽¹¹⁾.

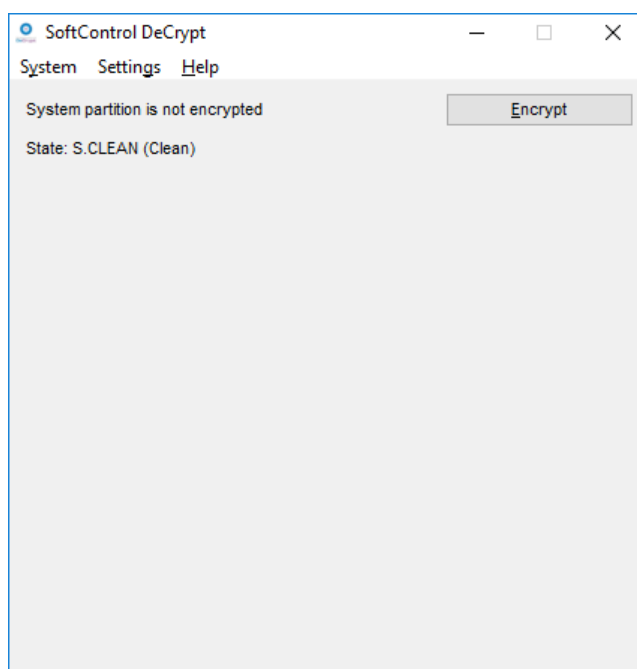


Figure 6. Elements of the program GUI

Table 4 lists the menu commands.

Table 4. SoftControl DeCrypt menu commands

Command	Action
Encrypt system partition/drive...	Run the encryption of the hard disk or system volume.
Decrypt system partition/drive	Run the decryption of the hard disk or system volume.
Resume interrupted process	Resume the interrupted encryption or decryption process.
Remove boot loader	Remove the encryption system loader without removing SoftControl DeCrypt (system reboot is required).
Change password...	Change the password that is used to load the system in case there are critical changes in the set of devices.
Update devices...	Add new devices to the set of devices.
Language...	Change GUI language.
User's Guide	Invoke user guide.

Table 5 lists the system statuses.

Table 5. SoftControl DeCrypt statuses

State	Description
S.CLEAN (Clean)	SoftControl DeCrypt is installed on the client host but the disk does not contain the boot loader.
S.INST (Installed)	The boot loader is installed but have not run yet (the client host has not rebooted).
S.MNT (Mounted)	The boot loader is installed, the client host has rebooted, but disk encryption has not yet run.
S.PART_ENC (Partially encrypted)	Disk encryption or decryption is in progress.
S.FULL_ENC (Fully encrypted)	Disk is encrypted.

4.1 Encrypting system volume

Click **Encrypt** in the main SoftControl DeCrypt window (fig. [Elements of the program GUI](#)⁽¹¹⁾).

In the displayed window, select **Encryption algorithm** and **Hash algorithm** from the drop-down lists and click **Next** (fig. [Encryption options](#)⁽¹²⁾).

**Figure 7. Encryption options**

Set the **Password** and confirm it (fig. [Specifying the password](#)⁽¹²⁾).



Figure 8. Specifying the password

In the next window, SoftControl DeCrypt collects random data from the mouse movements. Move your mouse within the window. We recommend that you do so until the progress bar turns green; then click **Next** (fig. [Collecting random data](#)⁽¹³⁾).



Figure 9. Collecting random data

To view the keys in the next window (fig. [Generated keys](#)⁽¹³⁾), tick off **Display generated keys (their portions)**.



Figure 10. Generated keys

Select the **Wipe mode** from the drop-down list (fig. [Selecting wipe mode](#)⁽¹⁴⁾).



Figure 11. Selecting wipe mode



Enabling the wipe mode increases the disk encryption time significantly.

After you click **Next** in the **Wipe mode** window (see [above](#)⁽¹⁴⁾), SoftControl DeCrypt suggests running a pretest to make sure the system is ready for encryption. The SoftControl DeCrypt boot loader is installed during pretest (fig. [Running the pretest](#)⁽¹⁴⁾).



Figure 12. Running the pretest

Click **Yes** in the window that asks you to turn off the client host. To run the pretest, you need to boot the computer manually (fig. [Turning off the computer](#)⁽¹⁵⁾).

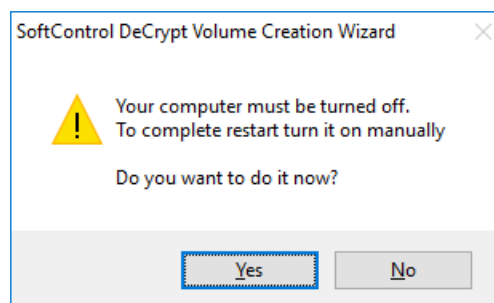


Figure 13. Turning off the computer

After the client host reboots, SoftControl DeCrypt displays a message that the pretest has completed (fig. [Pretest completed](#)⁽¹⁵⁾).

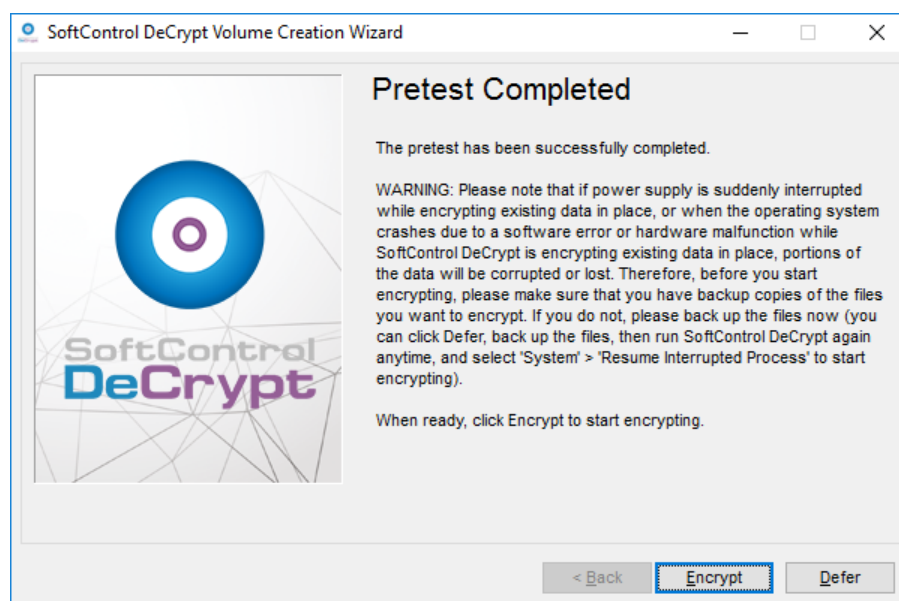


Figure 14. Pretest completed

Click **Encrypt** to run disk encryption. The **Encryption** window displays the progress bar and the remaining time (fig. [Disk encryption](#)⁽¹⁶⁾).

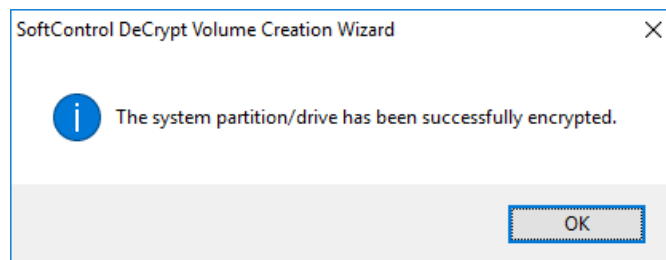
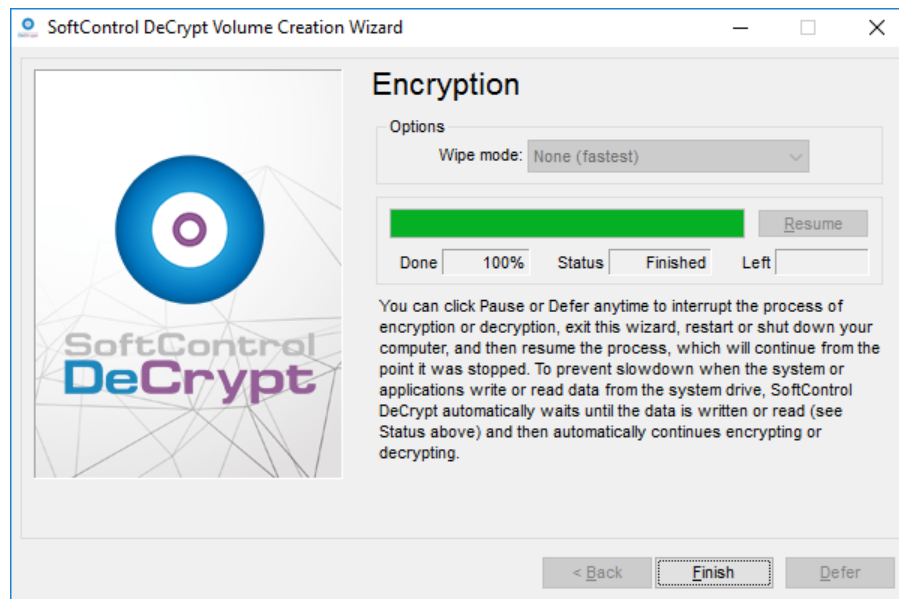


Figure 15. Disk encryption

You can interrupt the encryption process if necessary by clicking **Pause**, and run it again later by clicking **Resume**.

To run the encryption process later, click **Defer**. To resume the process, select **Resume interrupted process** in the main SoftControl DeCrypt window (table [SoftControl DeCrypt menu commands](#)⁽¹¹⁾).

Click **OK** in the displayed window then click **Finish** to complete the process (fig. [Disk is encrypted](#)⁽¹⁷⁾).

**Figure 16. Encryption completed****Figure 17. Disk is encrypted**

When you run SoftControl DeCrypt next time, the main window displays the encryption parameters (fig. [Encryption parameters](#)⁽¹⁷⁾).

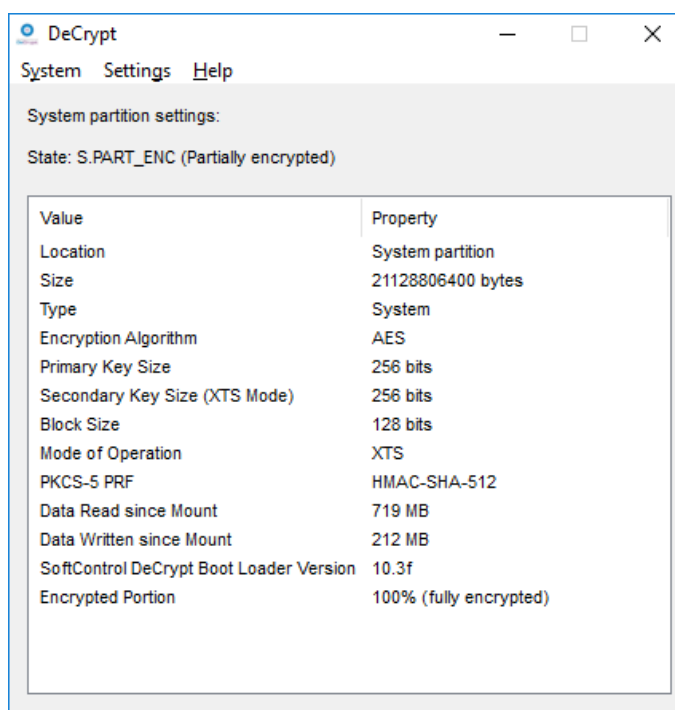


Figure 18. Encryption parameters

4.2 Modifying the set of connected devices

When the encryption process runs, SoftControl DeCrypt reads out the parameters of the following devices:

- MAC addresses of the network cards;
- VID, PID and serial numbers of USB drives;
- BIOS (information about the processor in the motherboard).

The minimum number of devices that SoftControl DeCrypt supports is two (the client host should have network cards or USB drives connected to it). The list of devices that SoftControl DeCrypt has read out is logged to the event log.

When a device has been changed (removed), SoftControl DeCrypt allows the encrypted disk to load. The corresponding message is added to the event log. When any two devices from the set has been changed (removed), SoftControl DeCrypt allows the encrypted disk to load as well. The message about a critical change in the set of devices is added to the event log.

If more than two devices has been changed (removed), SoftControl DeCrypt prompts you to enter the password specified during disk encryption, to load the client host (fig. [Requesting the password when loading the client host](#)⁽¹⁸⁾).

```

PlatformInfo create Unsupported
00:0C:29:3A:51:95
DcsInt: Got 4 USB handles
DCApplyBinding: enter
DecryptBlob: good magic - 4B534344
DecryptBlob: good magic - 4B534344
DecryptBlob: good magic - 4B534344
DecryptBlob: good magic - 4B534344
DecryptBlob: good magic - 4B534344
DecryptMaster: decrypted 6 shares
DecryptMaster: recoveredShares = 6, recoveredKey[0..3] = 8B DC 1C E0
DecryptMaster: MasterBlob was not decrypted correctly
DCApplyBinding: leave
DcsInt: after ApplyBinding
Enter Password: _

```

Figure 19. Requesting the password when loading the client host



When you run disk encryption, SoftControl DeCrypt reads out the parameters of the devices detected during client host loading. If the critical number of devices has been disconnected after the encryption, the client host continues to work. After reboot, however, SoftControl DeCrypt asks for the password to load the client host.

4.3 Decrypting system volume

In the main SoftControl DeCrypt window, select the **Decrypt system partition/drive** command from the **System** menu (table [SoftControl DeCrypt menu commands](#)⁽¹¹⁾). Select **Yes** in the message with the warning (fig. [Confirming disk decryption](#)⁽¹⁹⁾) and wait till the process completes (fig. [The disk is decrypted](#)⁽²⁰⁾).

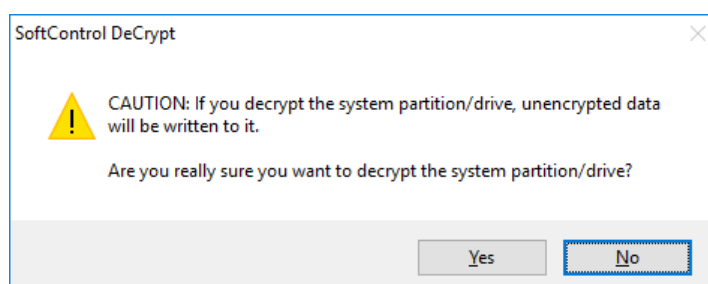
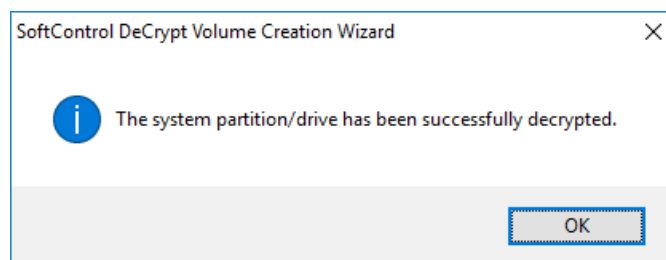
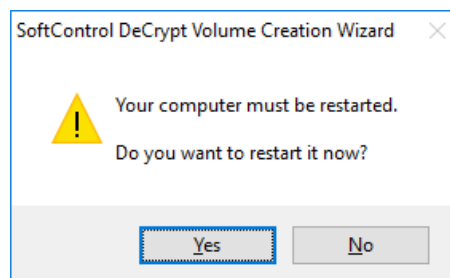


Figure 20. Confirming disk decryption

As with the encryption (see section [Encrypting system volume](#)⁽¹⁶⁾), you can interrupt or postpone the process by clicking **Pause** or **Defer** (fig. [Decrypting the disk](#)⁽¹⁹⁾).

**Figure 21. Decrypting the disk****Figure 22. The disk is decrypted**

Click **Yes** in the dialog box that suggests system reboot. The client host then reboots to complete the process (fig. [Requesting system reboot](#)⁽²⁰⁾).

**Figure 23. Requesting system reboot**

4.4 Changing the password

To change the password you specified when you ran encryption, select **Change password...** from the **System** menu (fig. [Changing the password](#)⁽²¹⁾).

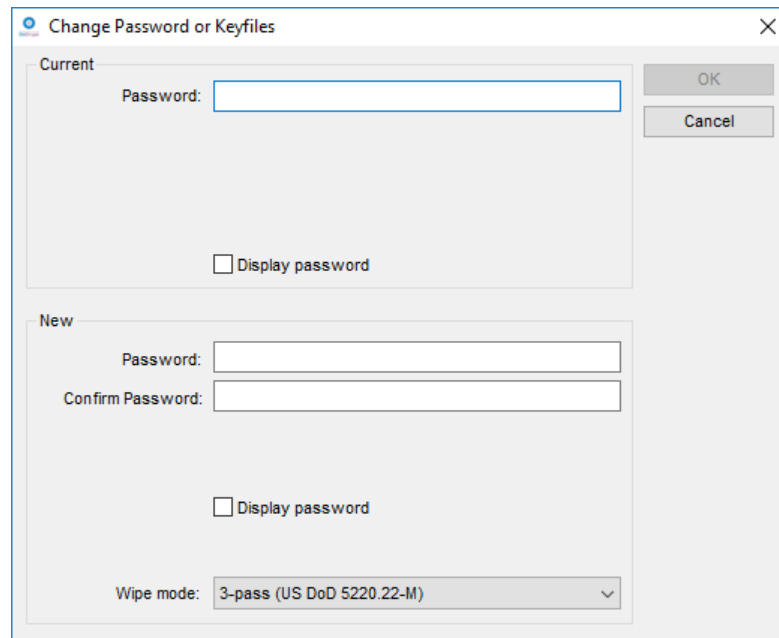


Figure 24. Changing the password

Enter the current password, enter a new password, confirm it, and click **OK**. In the **Random pool enrichment** window, move your mouse to collect random data (fig. [Collecting random data to change the password](#)⁽²¹⁾), just as you did to generate keys for encryption (see fig. [Collecting random data](#)⁽¹³⁾).

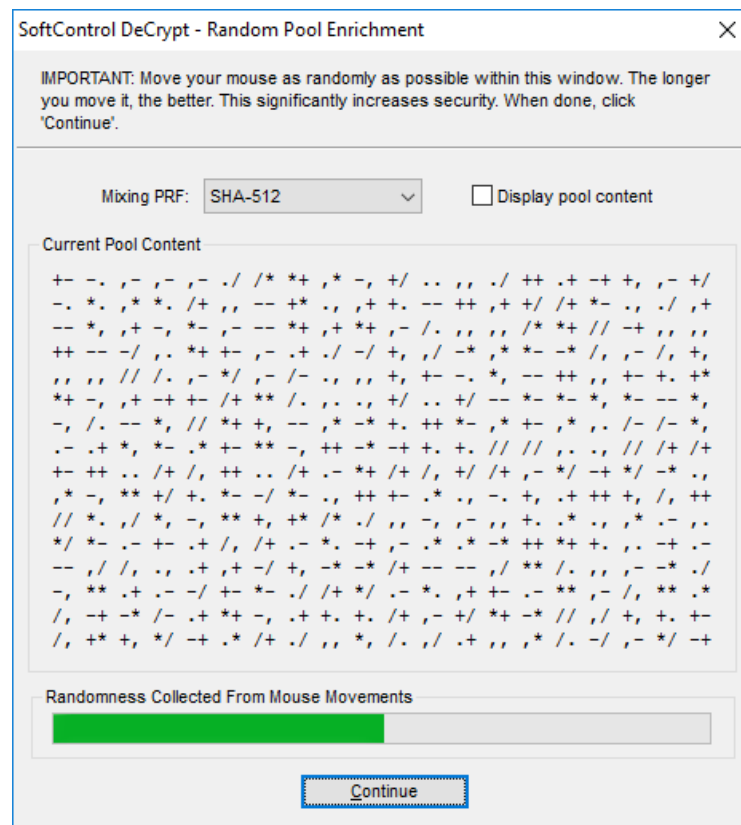


Figure 25. Collecting random data to change the password

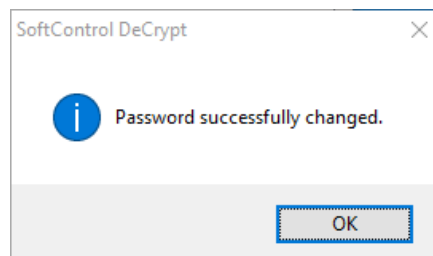


Figure 26. Password has been changed

To complete the process, click **Continue** (see [above](#)⁽²¹⁾) and **OK** (fig. [Password has been changed](#)⁽²²⁾).

4.5 Updating the list of devices

You can modify the device list created during disk encryption, without decrypting the disk. To do so, change the required devices, select **Update devices...** in the **System** menu, and enter the password (fig. [Entering the password to change the connected devices](#)⁽²³⁾).

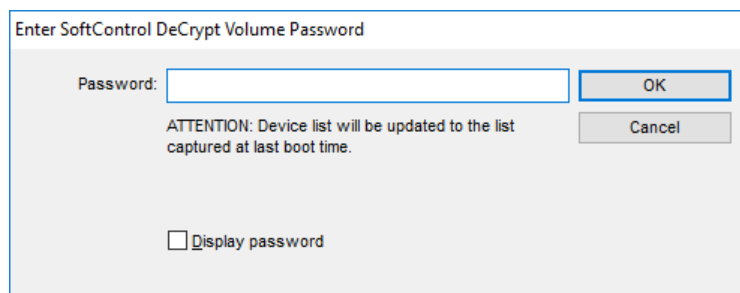


Figure 27. Entering the password to change the connected devices

SoftControl DeCrypt searches for all supported devices detected during OS loading, reads out their parameters and displays a message that the process has completed (fig. [The list of devices is updated](#)⁽²³⁾).

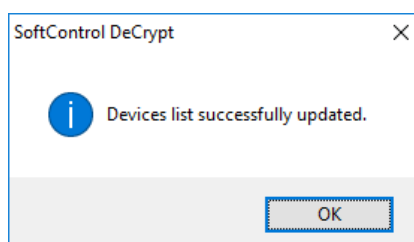


Figure 28. The list of devices is updated

4.6 Using Command Prompt

You can perform all operations described in sections above from the Windows Command Prompt as follows.

```
"<SoftControl DeCrypt installation folder>\DcConsole.exe" /<command> [<parameters>]
```

Table 6 lists available commands and their parameters.

Important: all steps require administrator privileges.

Table 6. SoftControl DeCrypt command line parameters

Command/Parameter	Action/Possible values
<code>/boot-prepare /newpass password [/ha 1 2 3 4 5] [/ea 1 2 3 4 5 6 7 8 9 10]</code>	Install the boot loader. If hash algorithm and encryption algorithm are not specified, the default values from GUI are used (see above ⁽¹²⁾). The values for hash algorithm (the /ha parameter): 1 – SHA-512 2 – Whirlpool 3 – SHA-256 4 – RIPEMD-160 5 – Streebog The values for encryption algorithm (the /ea parameter): 1 – AES 2 – Serpent 3 – Twofish 4 – Camellia 5 – Kuznyechik 6 – Twofish+AES 7 – Serpent+Twofish+AES 8 – AES+Serpent 9 – AES+Twofish+Serpent 10 – Serpent+Twofish
<code>/disk-enc</code>	Start or resume disk/partition encryption.
<code>/disk-dec</code>	Start or resume disk/partition decryption.
<code>/lic-set license_key</code>	Activate the license key you obtained when you purchased SoftControl DeCrypt.
<code>/pw-change /oldpass old_password /newpass new_password</code>	Change the password that is used to load the system if there is a critical change in the set of devices.
<code>/dev-change /oldpass password</code>	Create a new list of devices that are used for system loading.
<code>/state</code>	Display current SoftControl DeCrypt status.
<code>/dev-get /currpass password</code>	Load information about the connected devices to the event log.
<code>/boot-clear</code>	Remove the boot loader from the client host.

Example: You can run complete SoftControl DeCrypt installation procedure with the help of the following installation scripts (.cmd or .bat files).

To install SoftControl DeCrypt and the boot loader:

```
"<folder with the installation package>\SoftControl DeCrypt Setup 1.0.79 .exe" /q [/folder
"<installation folder>"]
"<SoftControl DeCrypt installation folder>\DcConsole.exe" /boot-prepare /newpass <пароль>
```

To check system status and run the encryption (after the client host reboots):

```
"<SoftControl DeCrypt installation folder>\DcConsole.exe" /state
"<SoftControl DeCrypt installation folder>\DcConsole.exe" /disk-enc
```



The `/disk-enc` command runs (i.e. the encryption process starts) only if the `/state` command

in the script above has returned `S.MNT` (Mounted). Otherwise, the script displays an error.

You can check the status of the encryption process with the help of the `/state` command. (When the encryption completes, the command returns `S.FULL_ENC` (Fully encrypted).)

4.7 Reports

SoftControl DeCrypt enables logging the events and the program status and generating the reports. A standard report contains the list of devices and notifications about the following events:

- **A change in the set of devices.** A device has not been detected.
- **A critical change in the set of devices.** Two devices have not been detected.
- **System loading with the password.**
- **Main system functions are performed:** disk/partition is encrypted or decrypted, the boot loader is installed or removed, the password is changed, or the set of devices is modified.

The standard log file is available at

`C:\Windows\DecryptLog.log`

Detailed information about the encryption system events and the reasons of operation failures is provided in the detailed event log available at

`C:\ProgramData\DeCrypt\DeCrypt.log`

For both types of reports, SoftControl DeCrypt supports log rotation, which allows managing the size of the log files. Rotation allows the logs to be automatically divided into parts of the following type (all parts have identical parameters):

- *DeCryptLog(rotated dd.mm.yyyy).log* for standard log files, where dd.mm.yyyy is the date of the log rotation;
- *DeCrypt.log_old1*, *DeCrypt.log_old2*, etc. for detailed log files.

The log file is rotated after its size exceeds 100MB.

Note. Duplicated USB drives are only specified in the `DecryptLog.log` standard log file once. However, if two USB drives have the same VID and PID parameters, and one of the drives has a serial number while the other does not have it, then both devices are specified in the log file (the entries are duplicated).

4.8 Black list of devices and delayed start

If the client host has devices that take a lot of time to initialize, there are two ways to improve the client host's performance:

- A. Delay the boot loader start (specify a delay during OS loading). Total time required to load the client host increases in this case.
- B. Exclude the devices from the list of devices to be checked, i.e. blacklist the devices. In this case, the loading time decreases; however, the blacklisted devices are not used to decrypt the disk.

To add USB drive to the black list, perform the following operations:

- 1) Find the identifier of the device you do not want to check, in the DeCryptLog.log log file (the path is C:\Windows\DeCryptLog.log). USB drives are listed in the log file as VID_PID_SERIALNUMBER.

Important: The entry is only available in the log in the device has been detected during client host loading.

- 2) Run Windows Command Prompt with the administrator privileges. Mount the EFI partition to the disk with the help of the following command:

```
mountvol u: /s
```

where u: is the name of the disk to mount to.

- 3) Open the settings file in Notepad with the following command:

```
notepad.exe u:\EFI\DeCrypt\DcsProp
```

- 4) Change the string

```
<config key="BlacklistDevices"></config>
```

to

```
<config key="BlacklistDevices">device1;device2;...;deviceN</config>
```

where deviceN is the full device identifier (as specified in the log file), or the beginning of the identifier and the * mask (Latin letters, figures and underline).

Example:

```
<config key="BlacklistDevices">13FE_4200_P16019100703681B1EDD8A13;0E0F_*</config>
```

- 5) Update the list of devices with the following command:

```
"<SoftControl DeCrypt installation folder>\DcConsole.exe" /dev-change /oldpass password
```

To specify a delay during OS loading, perform the following operations:

- 1) Open the settings file with the following command:

```
notepad.exe u:\EFI\DeCrypt\DcsProp
```

2) Set the required delay value (in seconds) for the `UsbInitDelay` parameter.

5. Updating SoftControl DeCrypt

This section describes operations that are required to update SoftControl DeCrypt:

- in [standard mode](#)⁽²⁸⁾;
- in [silent mode](#)⁽³¹⁾.



You can update SoftControl DeCrypt without decrypting the disk.

5.1 Updating in standard mode

- 1) Run the *SoftControl DeCrypt Setup <product version>* installation package of the version you want to update to.
- 2) If you accept the terms, select **I accept the license terms** and click **Next** (fig. [License agreement](#)⁽²⁸⁾).

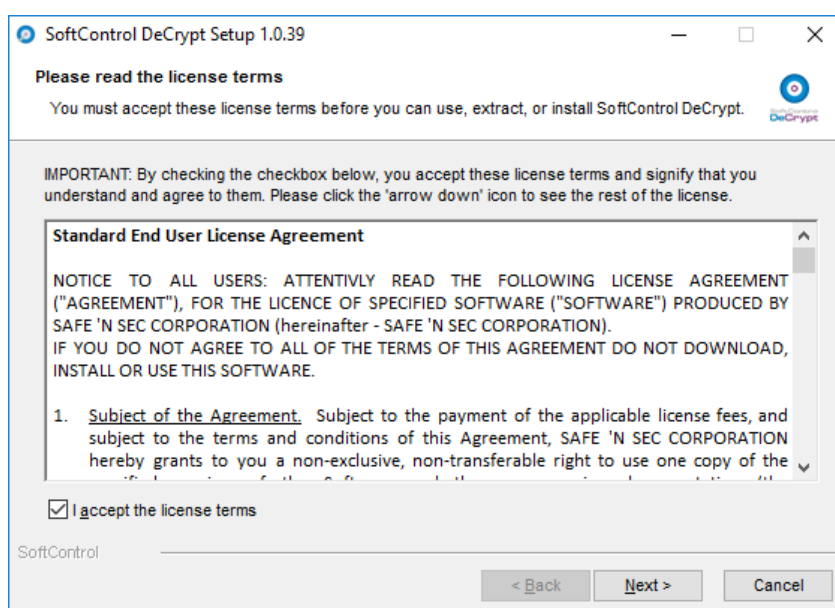


Figure 29. License agreement

- 3) Select the required option in the **Wizard Mode** window and click **Next** (fig. [Selecting the update option](#)⁽²⁸⁾).

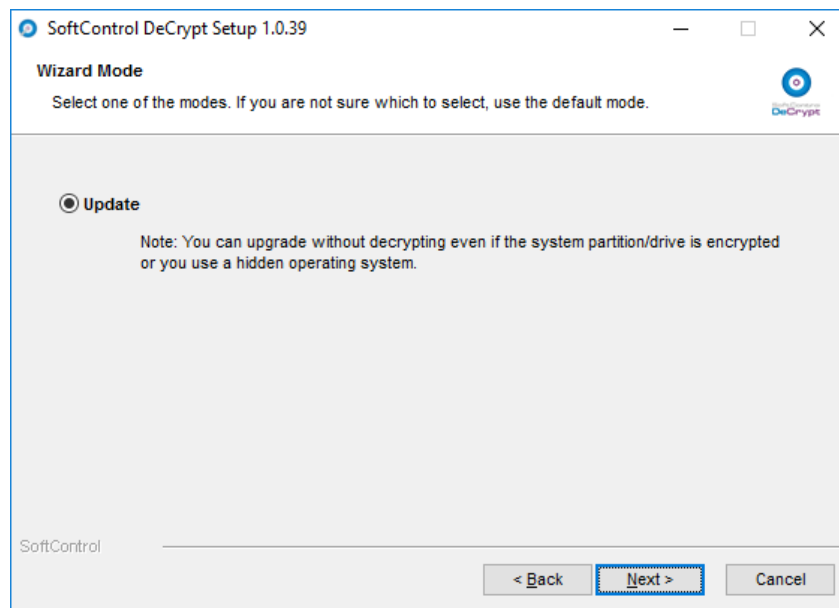


Figure 30. Selecting the update option

- 4) Select the required options in the **Setup options** window and click **Update** (fig. [Selecting setup options](#)⁽²⁹⁾).

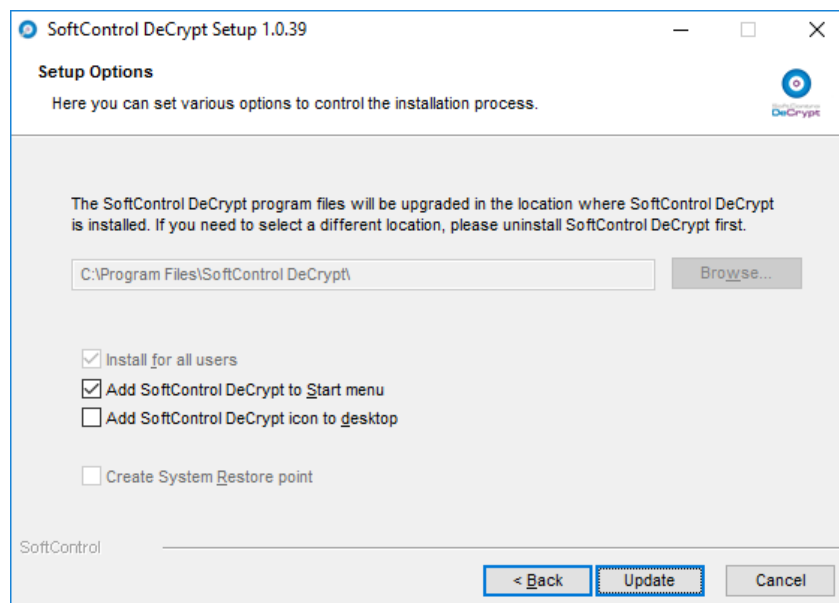


Figure 31. Selecting setup options

- 5) Wait until the update completes (fig. [Update progress](#)⁽²⁹⁾).

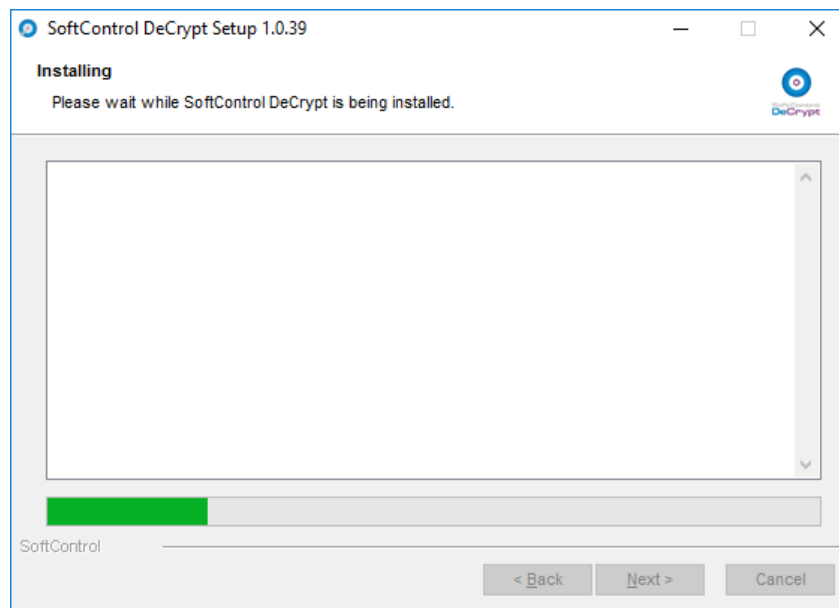


Figure 32. Update progress

- 6) After the **SoftControl DeCrypt has been successfully upgraded** message is displayed, click **Finish** (fig. [Update completes](#)⁽³⁰⁾).

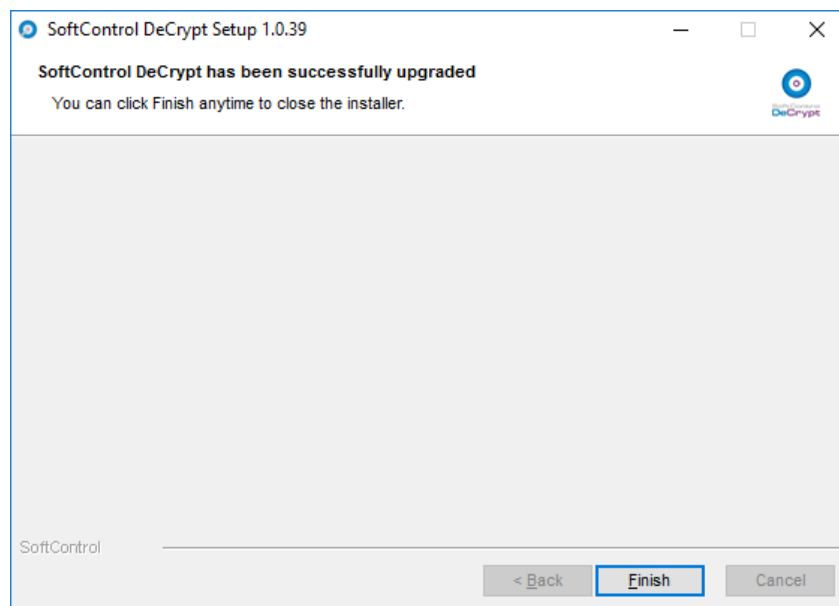


Figure 33. Update completes

- 7) Select **Yes** in the dialog box that suggests system reboot. The system is then restarted to complete the updates (fig. [Requesting system reboot](#)⁽³⁰⁾).

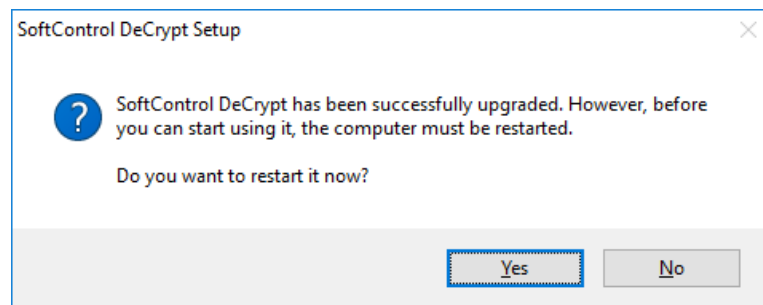


Figure 34. Requesting system reboot

5.2 Updating in silent mode

Important: all steps require administrator privileges.

- 1) Copy the *SoftControl DeCrypt Setup <product version>.exe* installation package of the version you want to update to, to a directory on the client host.
- 2) Run Windows command prompt and enter the following command:

```
"<folder with the installation package>\SoftControl DeCrypt Setup <product version>.exe" /q
```

6. Removing SoftControl DeCrypt

This section describes how to uninstall SoftControl DeCrypt:

- in [standard mode \(via GUI\)](#)⁽³²⁾;
- in [silent mode](#)⁽³³⁾.



You need to decrypt the disk before you uninstall SoftControl DeCrypt.

6.1 Removing in standard mode

- 1) For Microsoft® Windows® Server 2003: go to Windows Control Panel → **Add or Remove Programs** → **Change or Remove Programs**, select *SoftControl DeCrypt* and click **Remove**. For Microsoft® Windows® 7, Microsoft® Windows® Server 2008, Microsoft® Windows® 8, Microsoft® Windows® Server 2012, Microsoft® Windows® 10, Microsoft® Windows® Server 2016: go to Windows Control Panel → **Programs** → **Uninstall program**, select *SoftControl DeCrypt* and click **Uninstall**.
- 1) In the displayed window, click **Remove** (fig. [Confirming deinstallation](#)⁽³²⁾).

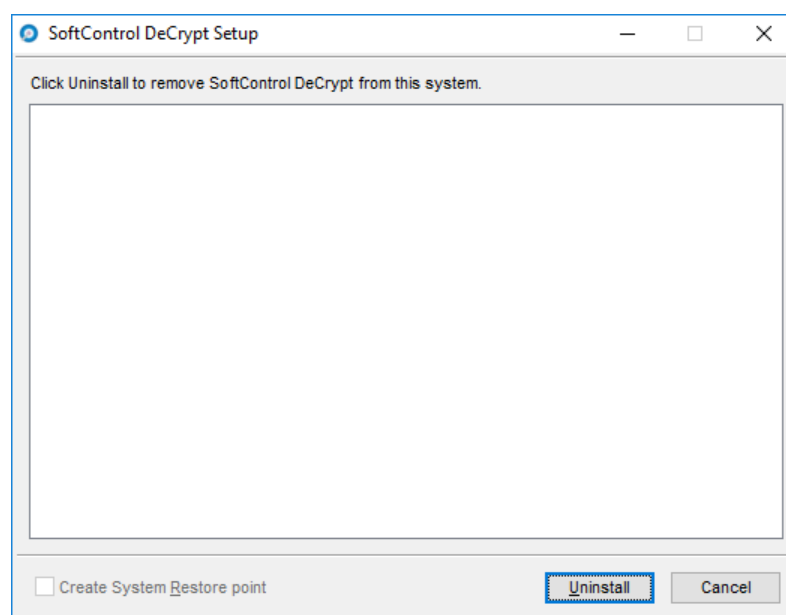


Figure 35. Confirming deinstallation

Note. If you added any files to the SoftControl DeCrypt installation folder, the installation wizard does not remove the folder.

Click **Finish** to complete the process (fig. [Deinstallation completes](#)⁽³²⁾).

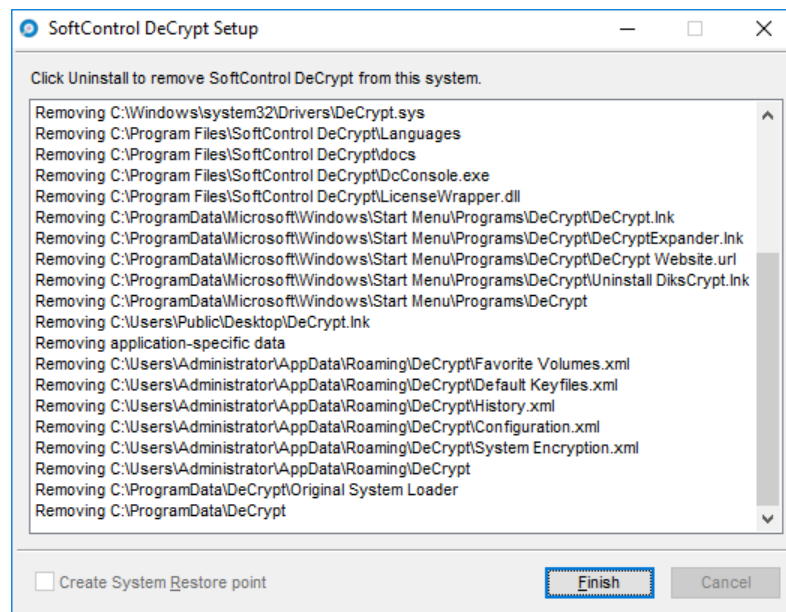


Figure 36. Deinstallation completes

6.2 Removing in silent mode

Important: all steps require administrator privileges.

Run Windows command prompt and enter the following command:

```
"<SoftControl DeCrypt installation folder>\SoftControl DeCrypt Setup.exe" /q /u
```

7. Customer support

If you have any questions concerning the installation, setting up and operation of SoftControl DeCrypt, please contact our customer support by e-mail support@safensoft.com.

8. Appendix

8.1 Setting up the disk partition

This section contains general information on how to prepare the first volume of the system disk to install SoftControl DeCrypt. The information provided is a recommendation only and can be used if errors occur during SoftControl DeCrypt installation.

If the SoftControl DeCrypt installer displays an error that there is not enough space on the disk, you can perform the following operations.

Important: all steps require administrator privileges.

Usually, the first volume on the disk is reserved by Windows for system recovery and is not used during normal system operation. You can delete this volume. To do so, run Windows Command Prompt with the following command:

```
compmgmt.msc
```

In the displayed **Computer management** snap-in, select **Disk management**. Right-click the first volume and select **Delete volume....** Follow the instructions in the displayed window to remove the volume.



You can only perform this operation if you are sure the first volume does not contain important data.

If you need to retain the information, use one of the disk management software to decrease the volume and move it away from the beginning of the disk, so that free space becomes available for SoftControl DeCrypt installation.

Note. If the first volume is not visible in the **Computer management** snap-in in your OS, you can use the `diskpart.exe` command line utility.