



Manual



USB-DRIVE-SETUP & RECOVERY-PE
USBi-DRIVE-SETUP & RECOVERY-PE
USB-DRIVE-BACKUP & RECOVERY-PE
USBi-DRIVE-BACKUP & RECOVERY-PE



THE STRONGEST LINK.

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1 Introduction

The delivery of our devices includes a USB stick with an image according to your licence for the recovery of the operating system.

The following four options are available:

- USB-Drive-32-GB-Setup&Recovery-PE:
Non-Ex USB stick with Recovery-PE-Lite software
- USBi-Drive-32-GB-Setup&Recovery-PE:
intrinsically safe USB stick with Recovery-PE-Lite software
- USB-Drive-32-GB-Backup&Recovery-PE:
Non-Ex USB stick with Recovery PE software
- USBi-Drive-32-GB-Backup&Recovery-PE:
intrinsically safe USB stick with Recovery PE software

The Recovery-PE software can be used for image recovery as well as for the creation of individual backup images.

This manual describes how to restore a system image using Recovery-PE-Lite, and the creation of a backup image with Recovery-PE.

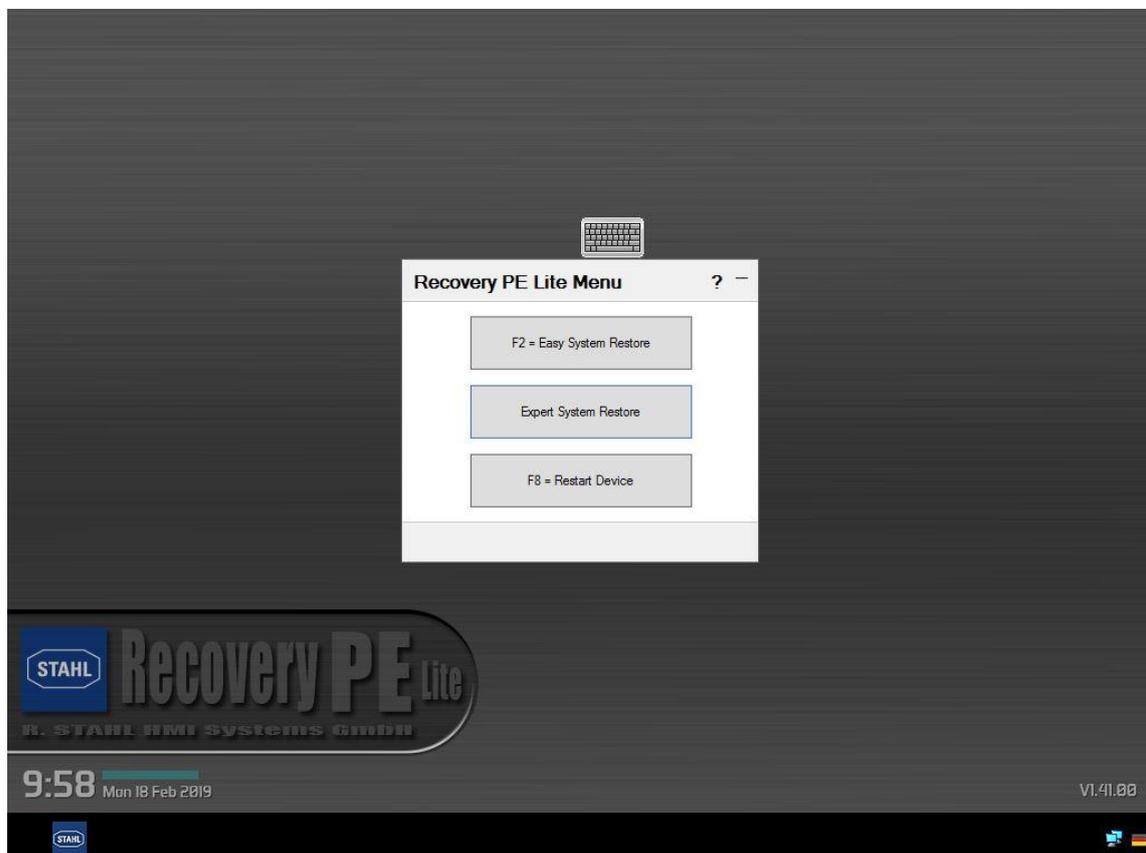


Only use intrinsically safe USB sticks in hazardous areas !
Always refer to the relevant information contained in the Operating Instructions for the HMI device.

2 Recovery PE Lite

Connect the USB drive / USBi drive with the HMI and restart the HMI.

The device will boot from the USB drive/USBi drive. Once the system has booted, the following window appears:



A small dialogue at the upper edge of the screen contains information on the status of the initialisation. Wait until all items have been ticked off.



If you are using the USB drive / USBi drive for the first time with a device, the calibration process will begin once you touch the screen.

2.1 Touch Calibration



A sequence of crosses will appear at different positions on the screen.

- Touch each cross in its centre.
- The cross will be replaced by a tick ✓, signalling the successful completion of the calibration step.
- Repeat for the next three crosses.

The following message will then pop up:

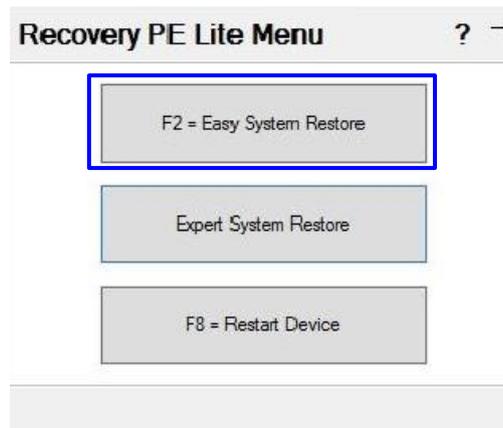


**Please press the button above
to confirm correct calibration.**

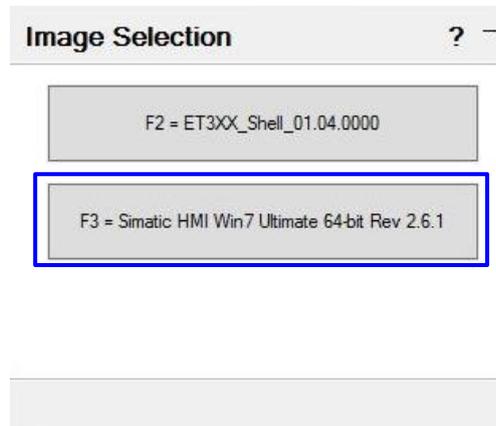
**If you are unable to hit the button due
to a bad calibration, it will restart
automatically after 10 seconds!**

Confirm the completion of the calibration process by clicking on the "Confirm" button. You may now start restoring the system. There are two options to do this: Easy System Restore and Expert System Restore.

2.2 Easy System Restore



Select "F2 = Easy System Restore" from the Recovery-PE-Lite Menu for easy restoring of the system image. If more than one image is stored on the stick, the following window (images are examples) will pop up for the selection of an image:



Select the image you need. The following window will pop up:



Confirm that you want to start the process with "F2 = Start Restore".

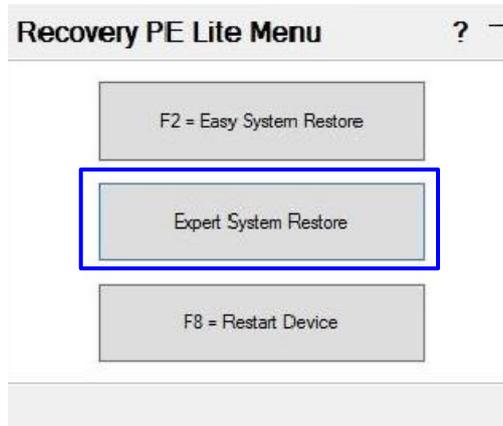
Once the image has been successfully restored, remove the USB-Drive / USBi-Drive from the HMI and restart the device.

At the end, you need to define out the Windows settings (language, time zone, time,...).

2.3 Expert System Restore

2.3.1 Start

Select "Expert System Restore" in the Recovery-PE-Lite menu.



2.3.2 Restoring Image

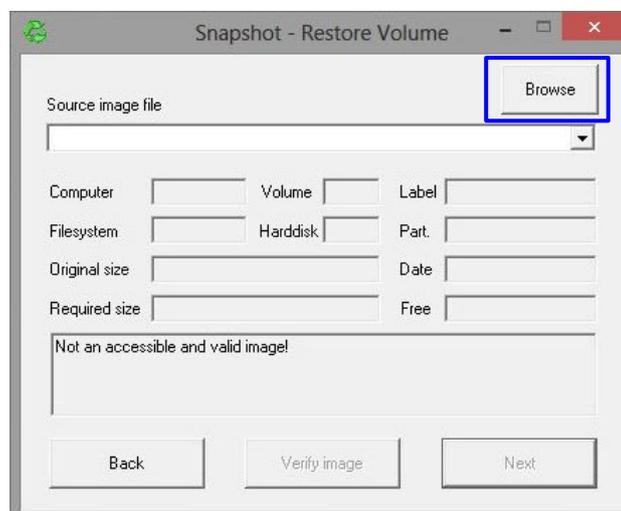
The "Snapshot Main Menu" will pop up.



In the Snapshot main menu, click on the "Restore" button.

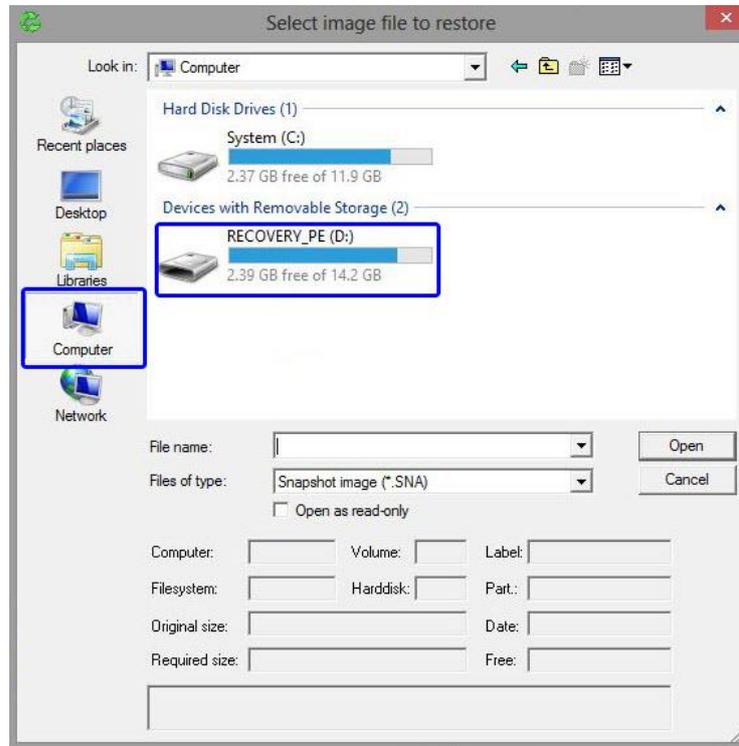
2.3.3 Selecting Image

The "Snapshot - Restore Volume" dialogue will pop up.

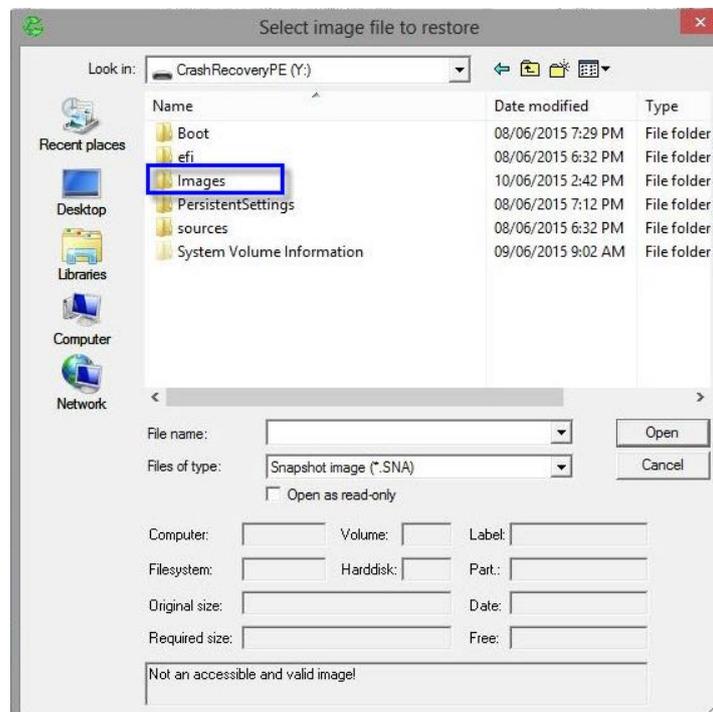


Click on the "Browse" button.

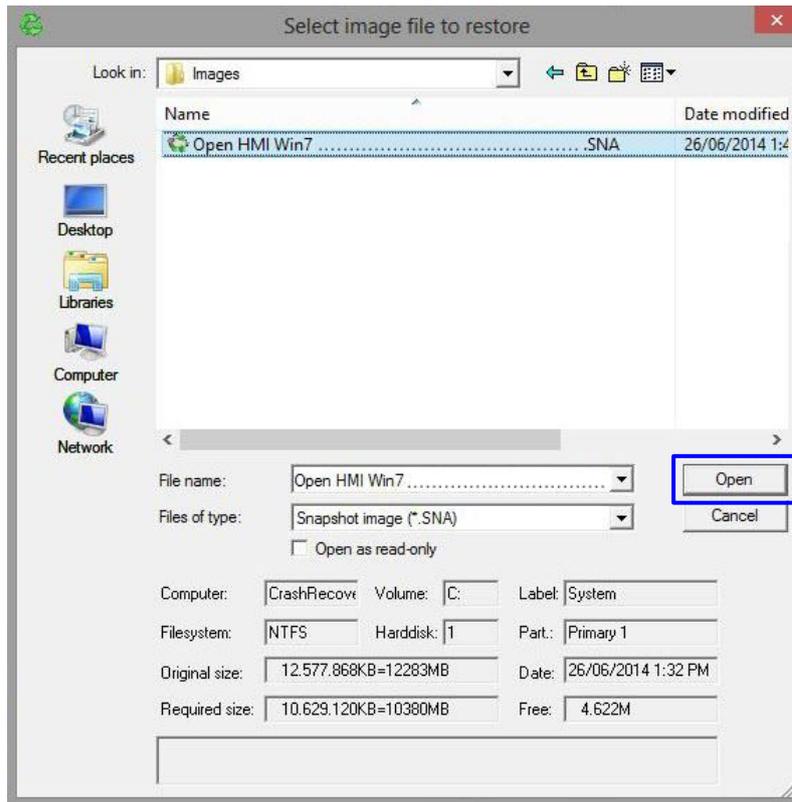
The "Select image file to restore" dialogue will pop up:



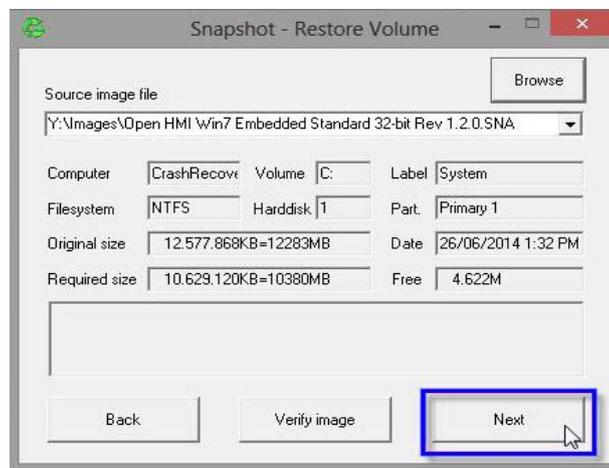
As the source area, select "Computer". Now click on the source directory "Recovery_PE". The dialogue will be replaced by the directory window.



Open the "Images" directory with a click of the left mouse key. Depending on which Windows version and revision you are using, the name of the image may vary.



Click on "Open" to confirm your selection.
The file selection window will close and the system will return to the "Snapshot - Restore Volume" dialogue.

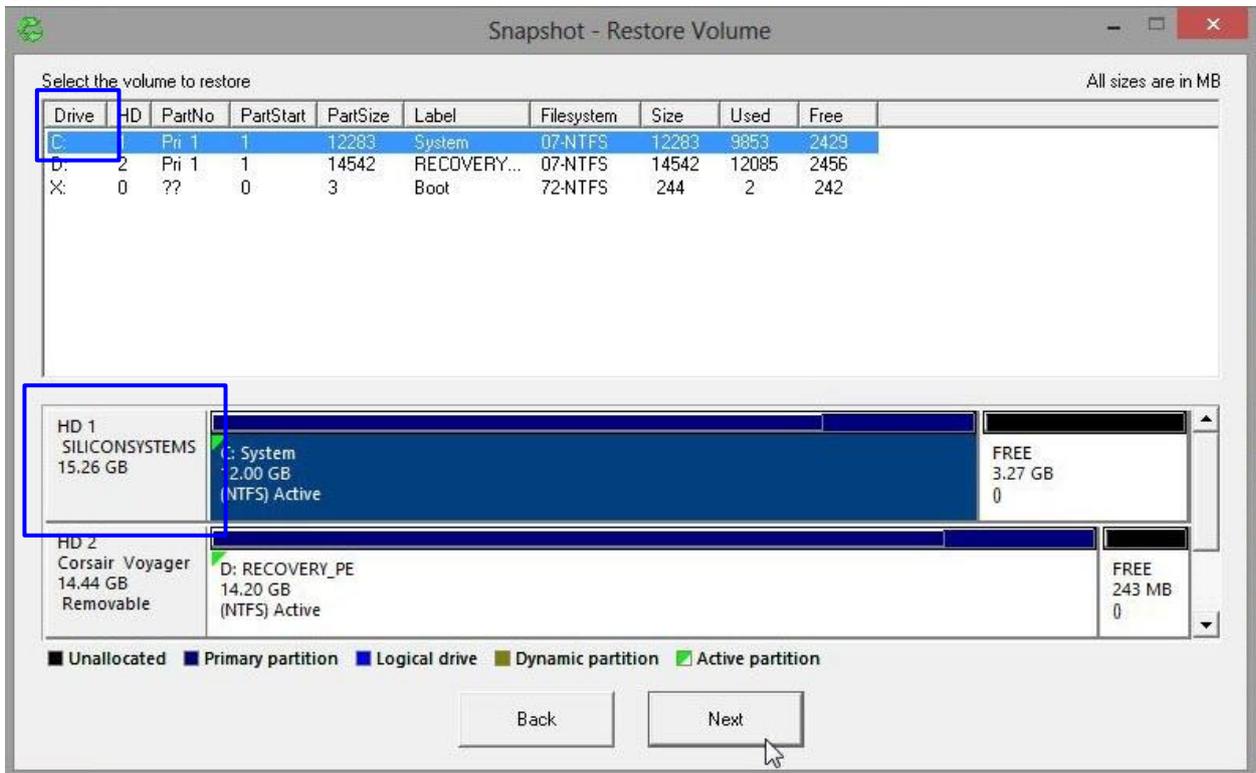


Click on "Next" to continue.

2.3.4 Getting a drive ready for booting

The dialogue for the selection of the target drive will pop up:

Selection



Proceed with the "Restore Master Boot Record" as follows:

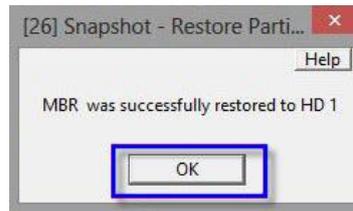
- For Drive, click on "C:"
- In the target directory field (grey box HD1), open the context menu with a right mouse click



In the context menu, click on "Restore Master Boot Record". The following warning will pop up:

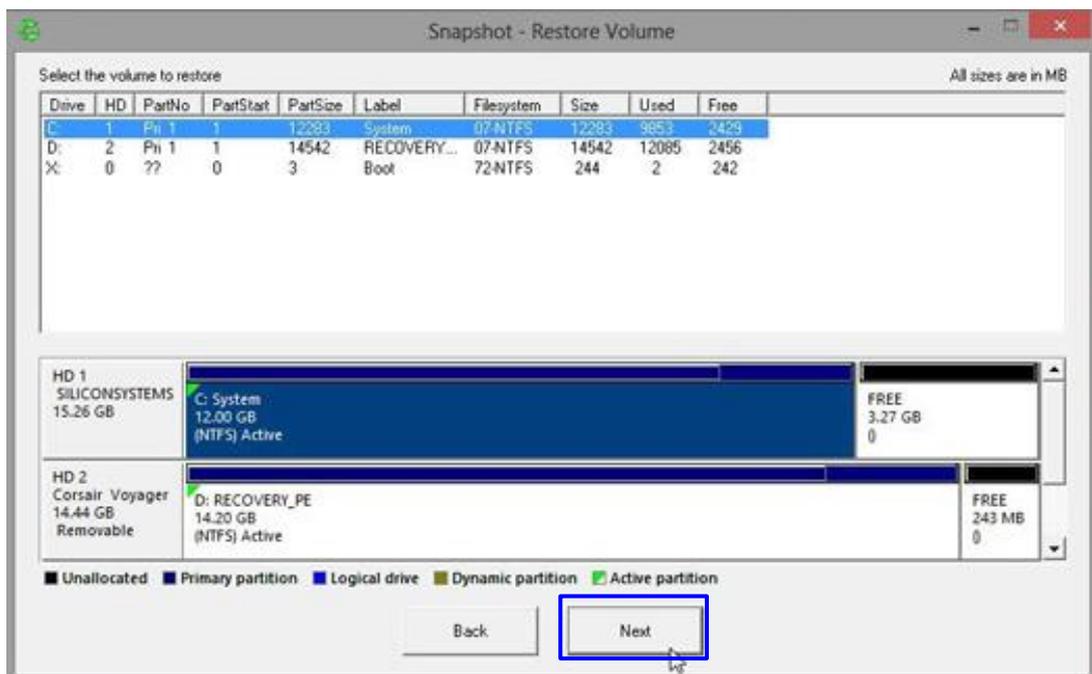


Click on "Yes". Once the "Restore Master Boot Record" has been completed successfully, you will see the following message:

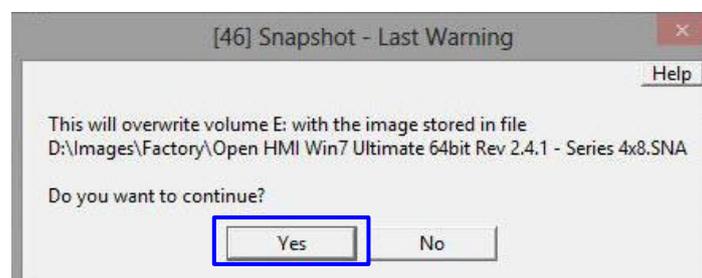


Confirm by clicking on "OK". The "Snapshot Main Menu" dialogue will pop up.

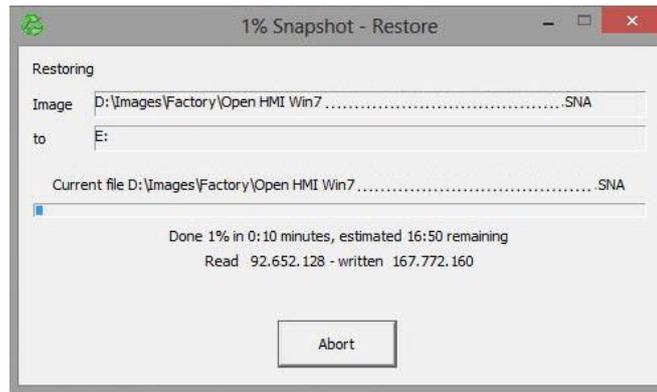
2.3.5 Installing Image



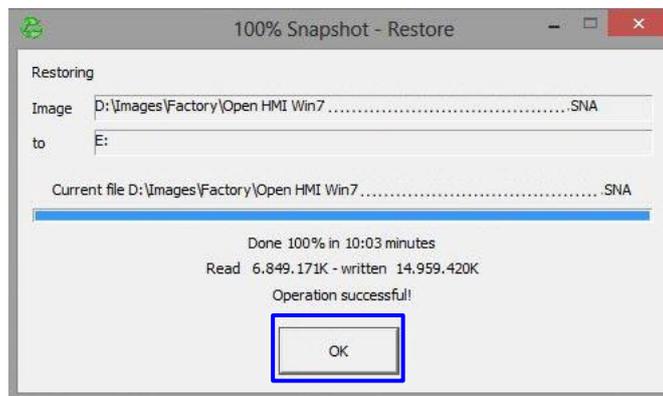
Continue the "Snapshot - Restore Volume" dialogue by clicking on "Next". The following warning will pop up:



Confirm with "Yes". The image will now be loaded onto your device.



Once the image has been successfully installed, the following message will pop up:



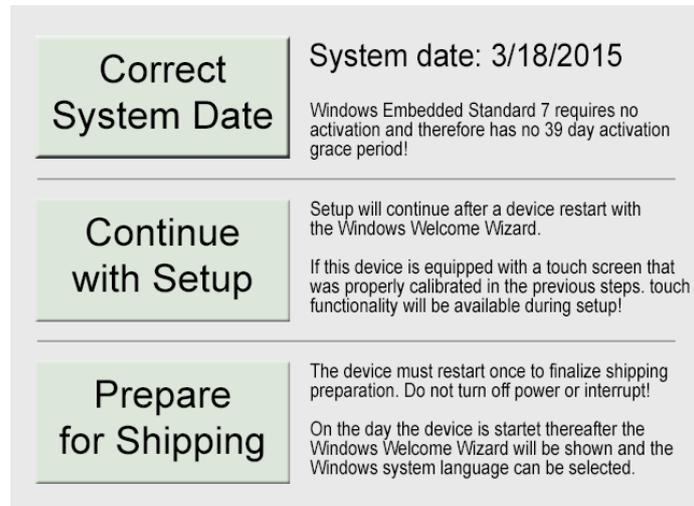
Confirm the message "operation successful" by clicking on "OK". Once the image has been successfully restored, remove the USB drive / USBi drive from the HMI and restart the device.

2.3.6 Restarting the device

After re-starting, the device will first install the system data. After that, the window for the touch calibration will open (see chapter 2.1 Touch Calibration).

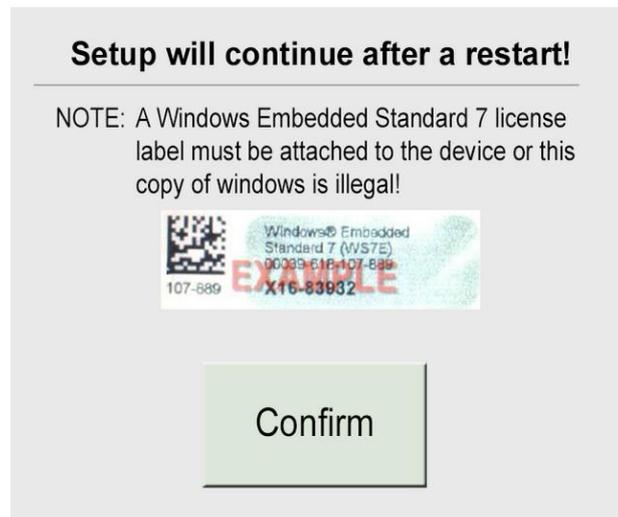
2.3.7 Checking System Date

The following window will pop up after a restart:



- Check the system date
- If necessary, correct this by clicking on "Correct System Date"
- Continue by clicking on "Continue with Setup"

Your device will now be set up for your first operation.



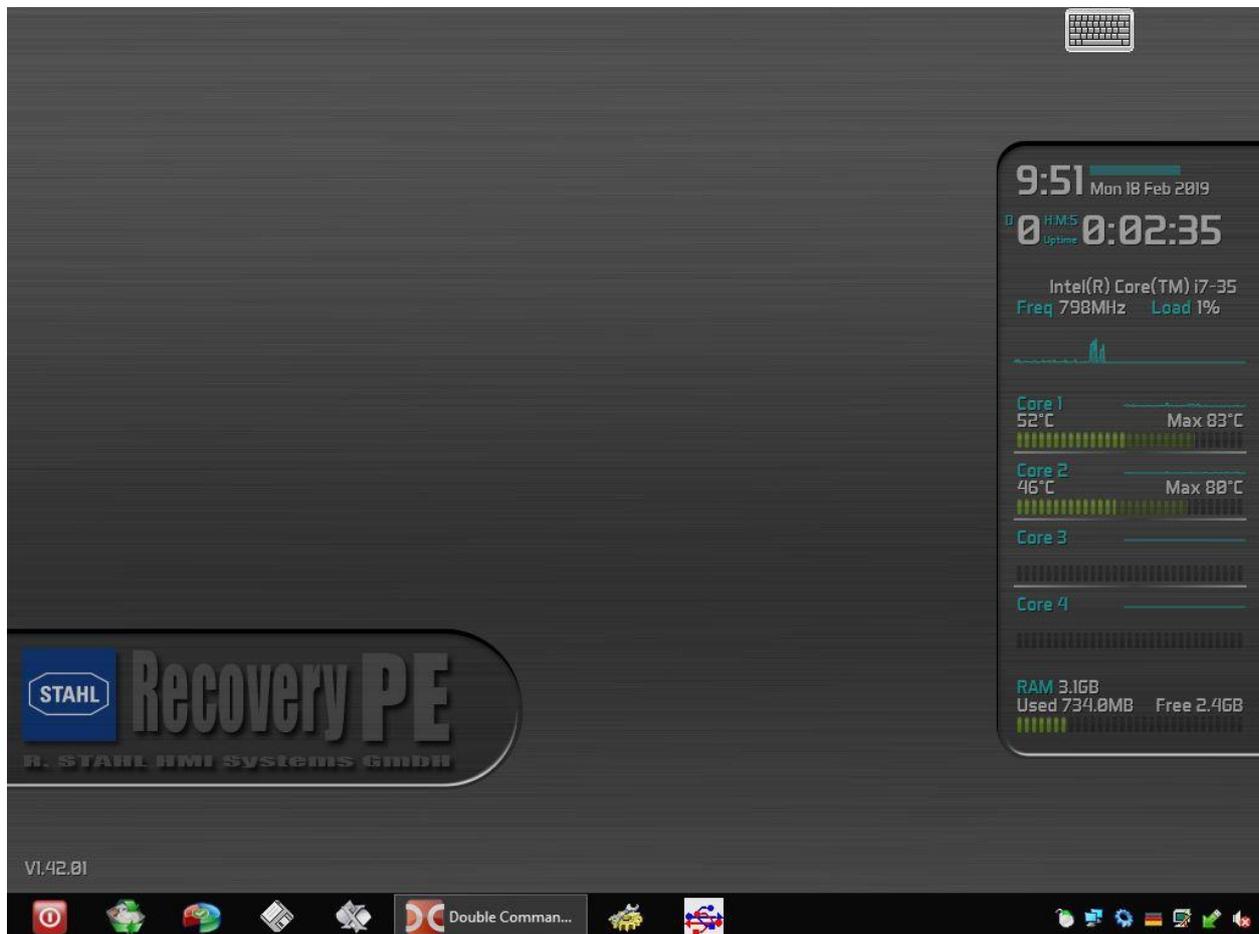
Confirm that the device has a Windows Embedded Label. In the case of a device running Windows 7, click on "Confirm". The settings are now accepted by your device and your device is started up. The following message will pop up:

Setup is applying system settings

Finally, you will have to select a language and time zone. After that you need to make the required Windows settings.

3 Recovery PE

Connect the USB drive/USBi drive with the HMI and restart the device. The application will start up:



A small dialogue at the upper edge of the screen contains information on the status of the initialisation. Wait until all items have been ticked off.

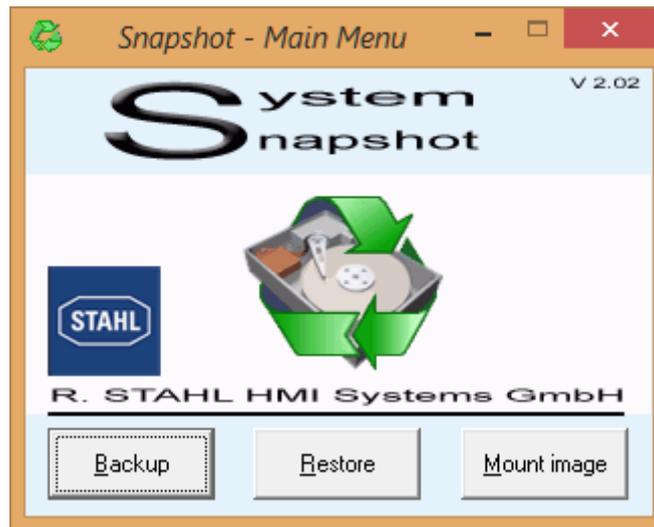


If you are using the USB drive / USBi drive for the first time with a device, the calibration process will begin once you touch the screen (see chapter 2.1 Touch Calibration).

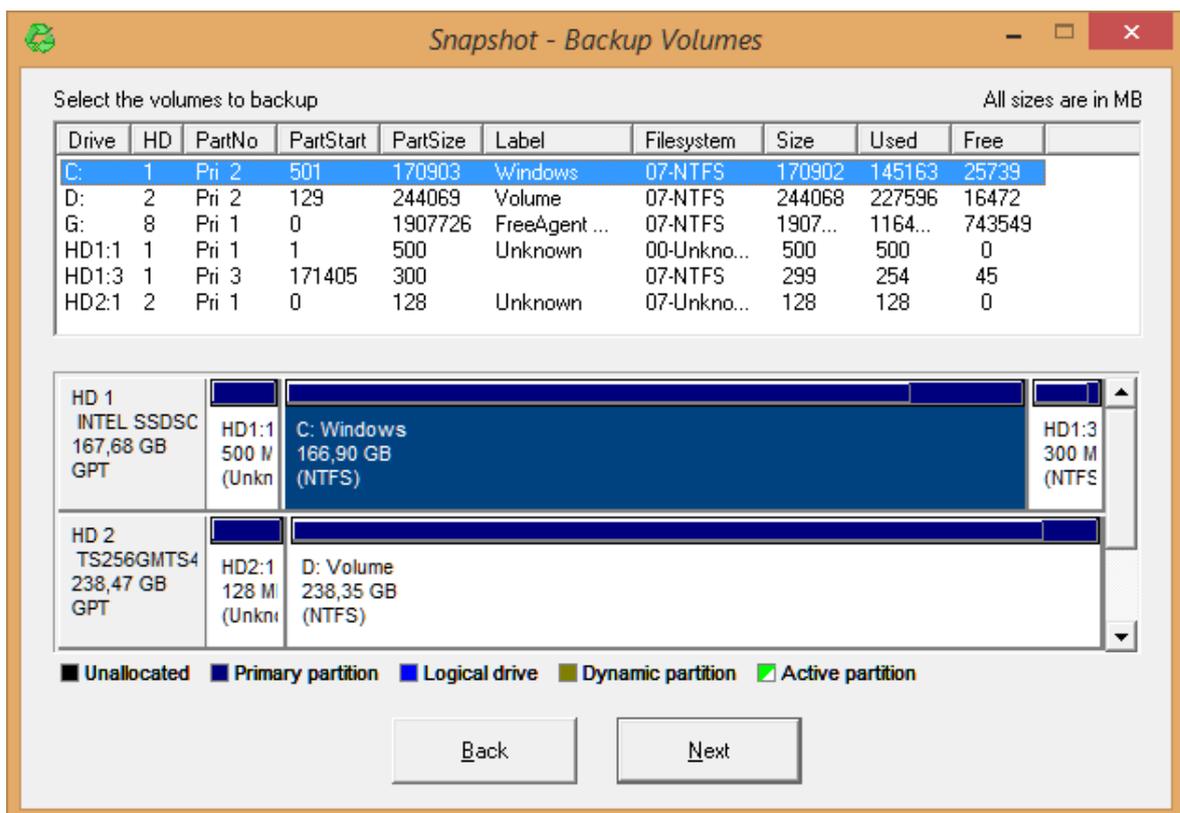
Open the Snapshot Main Menu by clicking on  at the bottom left. The "Snapshot Main Menu" will pop up. With this recovery software version the system recovery will proceed as with the Recovery-PE-Lite version (see chapter 2.3.2 Restore Image).

In addition, you can use this software to create your own backup image.

3.1 Creating a backup



In the Snapshot main menu, click on the "Backup" button. The window for the volume / image selection will pop up.



Select the image you wish to copy (C:) and click on "Next". The target directory selection image will pop up.

Snapshot - Backup of C:

Destination image file

G:_Images_etc\Backup_of_HMI\Win10_IoT_with_Client_application_Vei

Create differential image

Select hash file of full image (full image itself is not required)

Free space on target drive: 743549 + In use by existing image file: 0 = Total available space in MB: 743549

Recycle bin: 0 bytes in 0 files

Always empty recycle bin

Image comment

Image encryption

Password

Verify password

You need to make sure that the target directory has sufficient memory capacity. Click on "Start Backup" to create the image. Once the process is complete, you need to store the new image (*.SNA file) to the "Images" directory on the USB stick, from where you can restore it when the need arises.

4 Release notes

The chapter entitled "Release Notes" contains all the changes made in every version of the Instructions.

Version 01.00.00

- First edition

Version 01.00.01

- Formal changes

Version 01.00.02

- Changing text according to "Image installation"
- Formal changes

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