narda Safety Test Solutions
an L3 Technologies Company

SignalShark - System Update ReadMe

SignalShark

Real-Time Handheld Analyzer

System Update V2.0.6

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1 Introduction

There are two main steps to keep the device and its functionality up-to-date:

1.1 Firmware Update

A firmware update can be done with a simple installer program on the device or remotely. It will update all firmware functionality and also all documentation like the online help.

1.2 System Update

The SignalShark is based on an X86 processor architecture running the Windows 10 operating system. Due to security reasons, regular Windows updates should be done. Additionally, some special driver updates are necessary from time to time.

To make this update process comfortable and keep the system stable, Narda delivers so-called system images. These files contain an updated and preconfigured operating system as well as the newest firmware installer.

Attention:

If you restore your device from a system image, it is a complete restoration of the system partition (c:\). All actual system settings, files that has been stored on the system partition and additionally installed applications including software options will be lost.

Measurement data is stored on the data partition (d:\) and will be not affected by this process. Although the Windows license is still valid after the restore process, but you may want to activate Windows.

2 Applying a system update

2.1 Prior to installation

2.1.1 Download of the SignalShark system image

You can download the actual SignalShark system image file (SYSTEM.wim) from the Narda website:

https://www.narda-sts.com/en/service-and-support/software-updates-and-firmware/SignalShark/

2.1.2 USB flash drive preparation

Copy the downloaded system image file to the root directory of a USB flash drive.

USB stick minimum requirements:

- USB type: USB 3.0
- Size: > 8 GB
- Files System: exFAT or NTFS

2.1.3 USB Stick: Software and Manuals, ordered Options

If you have purchased any options, you have received an USB stick containing the option installer. Please keep this option USB stick ready to install your purchased options after the system update.

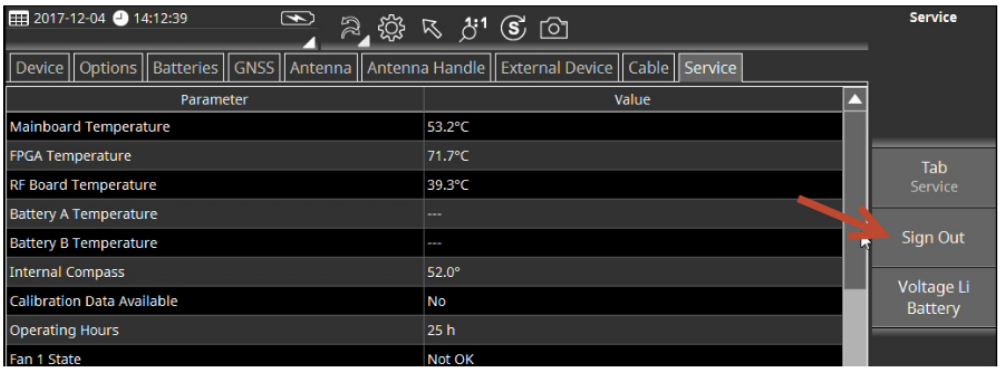
2.2 System image installation

2.2.1 Administrator log-in

Please log-in as administrator to install the system image.

1) Tap on the System information area to open the system information details view

2) Select the tab “Service” and tap on the “Sign Out” button



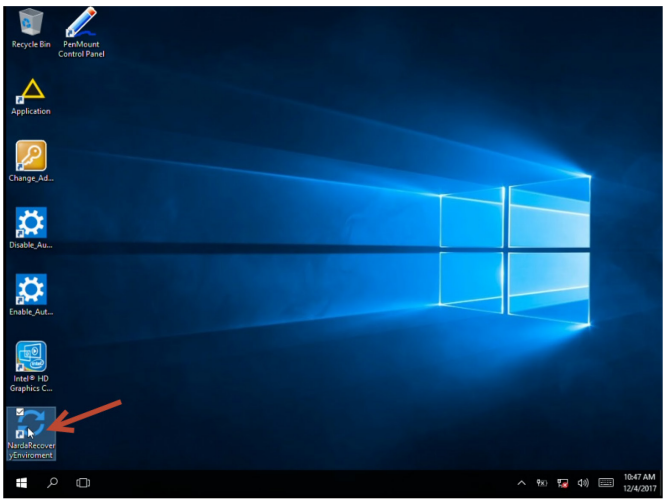
3) Select the user “Admin” and enter the administration password (default password is “changeme”)

2.2.2 Applying system image by use of Narda Recovery Environment

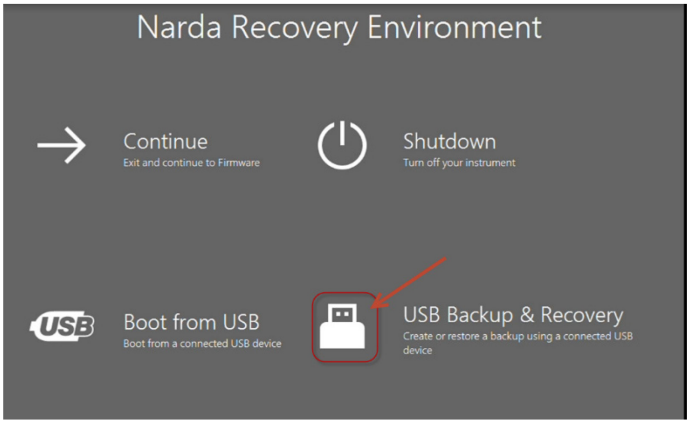
1) Insert the prepared USB Stick containing the new system image into the upper USB-Port (USB 3.0)

2) Tap on the Narda Recovery Environment icon on the desktop

→ Windows will shutdown within 10 seconds and start the Narda Recovery Environment

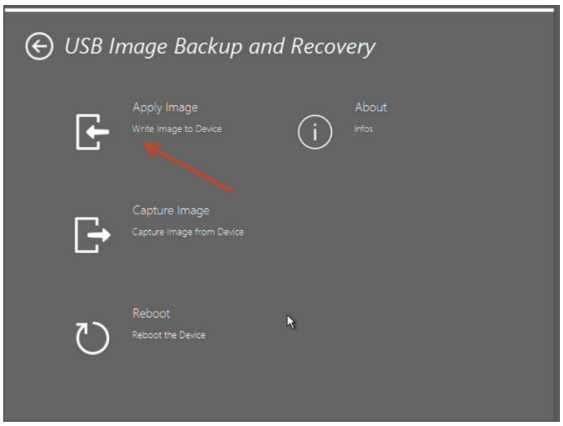


3) Tap on the USB Backup and Recovery symbol (tapping on the text will have no effect).



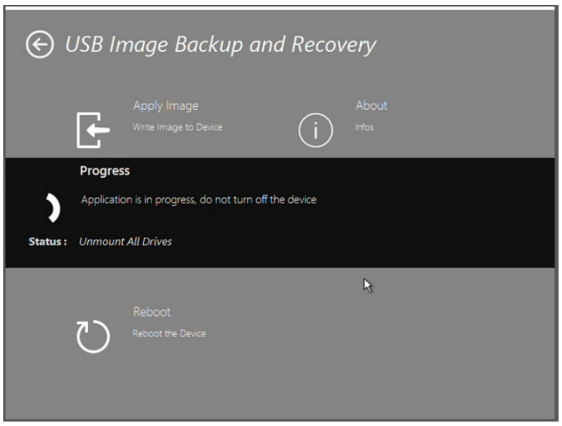
The USB Backup & Recovery tool will take about 10 to 15 seconds to fully start-up.

4) Tap on Apply Image.



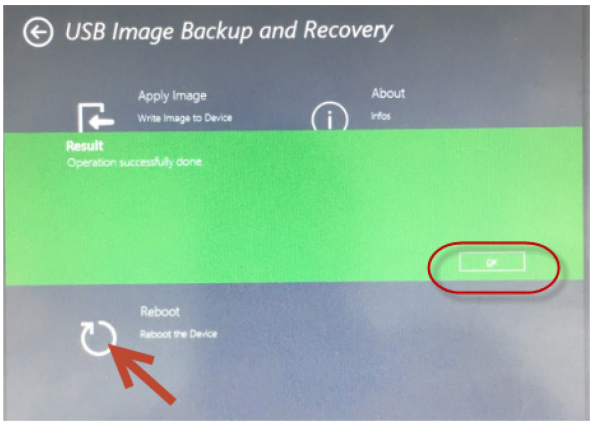
5) If you have saved the system image file directly to the root directory of the USB stick, you can simply tap Ok

If you have saved the system image file into a subdirectory of the USB stick, you must tap the open button and select the file (SYSTEM.wim). Then tap Ok.



The system image recovery process will take about 15 minutes.

6) When the image is recovered, tap OK, and then tap Reboot.



3 Applying a firmware update

1) Start firmware installation process

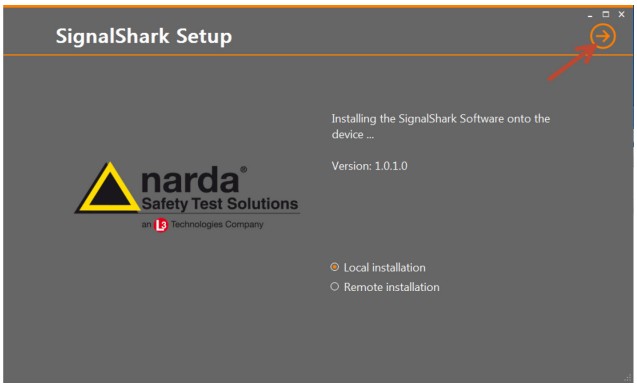
If you have updated your system image as described above, the firmware installation will start automatically on the first system startup.

> *If automatic firmware installation failed, you can manually restart the installation process. The firmware installer file is located at "C:\temp\"*

You can start the installation process manually by double tap on a firmware installer file. The actual SignalShark firmware installer is available for download on the Narda website.
https://www.narda-sts.com/en/service-and-support/software-updates-and-firmware/SignalShark/

2) Enter the Admin password (the default password is "changeme")

3) Select Local installation (default) and click the arrow on the upper right corner to proceed



4) Accept the Software License Agreement

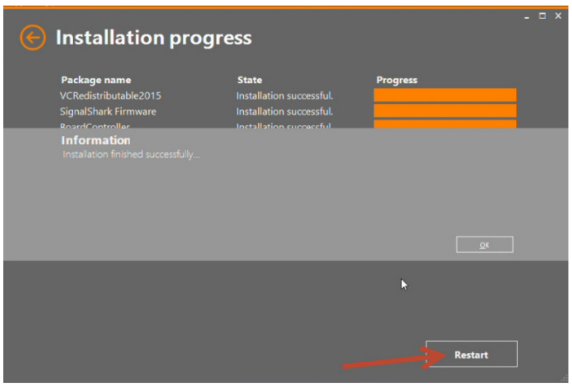
5) Read carefully and follow the important information about power connection and shutdown

6) Check "I have read" and click the arrow to proceed

7) Select/deselect options if required and click the arrow to proceed

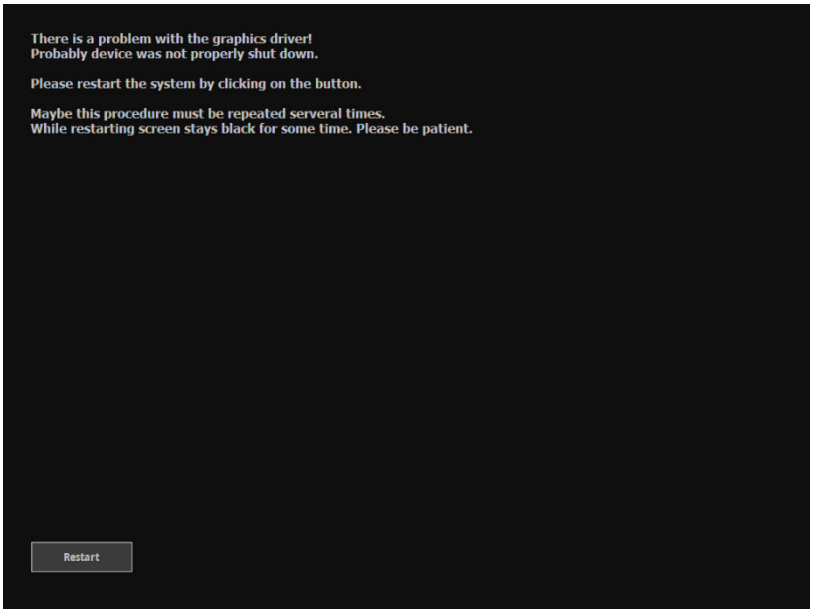
8) Click Install

9) Click OK to accept the "successful installation information" and click Restart



3.1 Possible system message

In rare cases it could happen, that an error message appears after firmware installation. The system will reboot several times and the error will be fixed automatically by the system.



3.2 Re-installing purchased options

After a system update, all purchased options must be re-installed.

3.2.1 Follow these steps to install options

Please log-in as administrator to install options (see 2.2.1Administrator log-in).

1) Plug-in your option USB stick and double click the option installer from the windows explorer.

2) Select Local installation (default) and click the arrow on the upper right corner to proceed.

3) Accept the Software License Agreement.

4) Select/deselect options if required and click the arrow to proceed.

5) Click Install.
→The selected options will be installed

6) Click OK to accept the successful installation information.

7) Click Restart to restart the system.

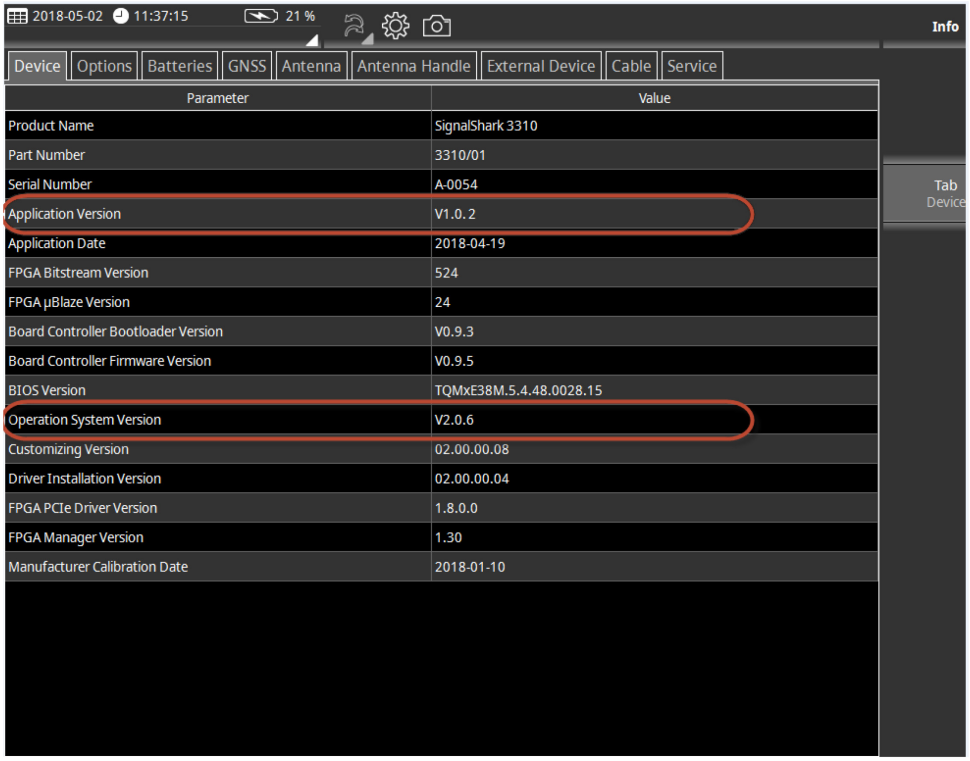
3.2.2 Checking installed options

1) Tap the system information area
→The system information menu opens.

2) Tap the Options tab.
→The installed options are displayed.

3.3 After successful installation

Please check the installed operating system version and application version.



Parameter	Value
Product Name	SignalShark 3310
Part Number	3310/01
Serial Number	A-0054
Application Version	V1.0. 2
Application Date	2018-04-19
FPGA Bitstream Version	524
FPGA µBlaze Version	24
Board Controller Bootloader Version	V0.9.3
Board Controller Firmware Version	V0.9.5
BIOS Version	TQMxE38M.5.4.48.0028.15
Operation System Version	V2.0.6
Customizing Version	02.00.00.08
Driver Installation Version	02.00.00.04
FPGA PCIe Driver Version	1.8.0.0
FPGA Manager Version	1.30
Manufacturer Calibration Date	2018-01-10

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