ScanlabClassChecker.cmd

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Summary

ScanlabClassChecker.cmd does not need to be executed on brand new PCs where an RTC board driver never has been installed.

ScanlabClassChecker.cmd is provided for Windows systems where at least one of the drivers mentioned in the following table
– is currently installed, or
– was installed and has been removed, or
– you are not sure in this regard,
and
– a latest driver for your RTC board (these are always WDF technology drivers) shall be installed (see section **Typical Use Cases** on the following page).

SCANLAB Controller	Driver Version (*)	Driver Date (*)
RTC3	2.0.1.0	22-Jun-2011 or earlier
RTC4	2.0.1.0	22-Jun-2011 or earlier
SCANalone	2.60.0.0	30-Nov-2011 or earlier
RTC5	2.0.6.0	8-Nov-2010

(*) To identify the driver version in the Device Manager (Windows 7 or Windows 10): press Windows key + r, enter *mmc devmgmt.msc*, and click **OK**. Then double-click the RTC board in the structure tree. Driver version and driver date are shown on the 'Driver' tab. The drivers denoted in the table are legacy drivers based on WDM technology.

Typical Use Cases

- You want to switch from an RTC4 board having an RTC4 driver V 2.0.1.0 installed to an RTC6 board (drivers for RTC6 boards always are WDF drivers).
- You have the RTC5 driver V 2.0.6.0 installed and you want to update it to the latest Version (downloadable from the SCANLAB Homepage).

Procedure

1. Install the latest driver for your RTC board (this is a WDF driver).
2. Right-click *ScanlabClassChecker.cmd* and choose 'Run as Administrator' from the appearing list.
   Note, *ScanlabClassChecker.cmd* does not change anything on your system unless one of the above drivers is currently installed or, was installed and has been removed in the meantime.

Background Information

All latest SCANLAB drivers for the RTC boards (RTC3, RTC4, RTC SCANalone, RTC5, RTC6) conform to the strict security rules specified for WDF drivers. These security rules specify that the built-in user group has granted access to the RTC board. This is only possible if a certain security entry in the Windows Registry is present.

During installation of one of the latest SCANLAB RTC board drivers on a brand new PC, this entry is automatically added to the Windows Registry (in order that the built-in user group has immediate access to the RTC board). It is important to know that this only happens on Windows systems which fulfill the following conditions: none of the legacy SCANLAB RTC drivers (WDM technology, see table above) is currently installed or, any of them was previously installed and has been later removed.

Unfortunately, if on the given Windows system there is already a legacy SCANLAB RTC driver (WDM technology, see table above) installed (also: or was installed and has been removed) the installation of the latest RTC board driver (WDF technology) is granting access rights for administrators only, but not for the built-in user group. Reason: the installation process is not able to modify any security setting of an already existing device class in the Windows Registry.

Therefore, SCANLAB provides the script *ScanlabClassChecker.cmd*. It is designed to add the security entry (only when missing) which makes in turn the RTC boards accessible to the built-in user group.

As already mentioned *ScanlabClassChecker.cmd* needs only to be executed, if there is a legacy RTC WDM driver for an RTC3, RTC4, RTC5 or SCANalone board already installed (also: was installed and has been removed).

To execute: right-click *ScanlabClassChecker.cmd* and choose "Run as Administrator" from the appearing list. Upon execution, *ScanlabClassChecker.cmd* checks the Windows Registry on the required security entry. *ScanlabClassChecker.cmd* actually changes the Windows Registry only, if the required security entry does not already exist. Only then the entry is added and users are asked to reboot the system in order for the change to take effect.