

# Software Updates

Release 02.2024

MANUAL

# Software Updates

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## History

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26-Aug-2020 Mayor rework on manual.

## About this Document

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This document describes how to update the TRACE32 software installation. There are two methods to make a TRACE32 software update:

**1. Using the TRACE32 Software Updater:**

The TRACE32 Software Updater automatically determines if the selected TRACE32 installation is outdated, and installs the latest release for all installed architectures. This can be used if the installed TRACE32 version is newer than “August 2012”.

**2. Make an update manually:**

This can be done by downloading an update package from [http://www.lauterbach.com/download\\_trace32.html](http://www.lauterbach.com/download_trace32.html) or requesting an update from [support@lauterbach.com](mailto:support@lauterbach.com). The detailed steps are described in “[Manual Installation of Software Updates](#)”, page 9.

# Do you have a valid Software License Key?

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The most current update of the TRACE32 software can only be used if at least one of the following requirements is fulfilled:

- The software guarantee for the development system is still valid. A software guarantee exists for 1 year after the purchase of the system.
- A valid software warranty contract exists for the TRACE32 system.

If none of these requirements is fulfilled, the new software version can only be used in a time limited demo mode.

You can check the status of your maintenance contracts in the **VERSION** window which can be opened from the menu **Help > About TRACE32** or by typing the command **LICENSE.state** in the TRACE32 **command line**.

Please refer to the chapter “**Serial Numbers**”, page 12 and <http://www.lauterbach.com/update.html> for more information.

## Temporary License Keys

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To test the most current TRACE32 software, you can get a temporary license key valid for 1 month from:

<http://www.lauterbach.com/register.html>

Please use the license serial number displayed in the **LICENSE.state** window to get the temporary key.

# TRACE32 Software Updater

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The TRACE32 Software Updater performs an update of one TRACE32 system directory to the latest release version.

After a successful update made by the TRACE32 Software Updater, the installation will contain all the latest files, including binaries, flash algorithms, kernel awarenesses, peripheral files, menu files, and demo scripts.

## Prerequisites

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The following prerequisites must be met to use the TRACE32 Software Updater:

- A TRACE32 installation from release R.2012.08 or newer.
- Disc space around 3 times the size of the installation to be updated.
- Write access to all files in the TRACE32 installation.
- Internet access during the whole update process.

A proxy setup might be required if you are working with a proxy.

**NOTE:** Make sure to keep all files from the TRACE32 system directory closed during the update process.

**NOTE:** If you have an installation containing non used files, it is highly recommended that you make a cleanup before performing the update in order to reduce the update time, and the used disc space.

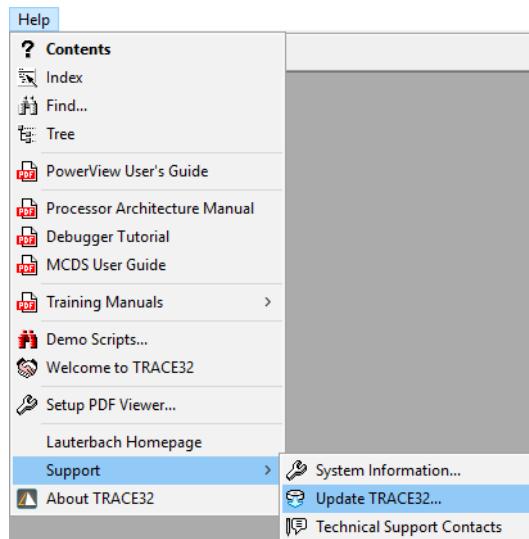
# Supported Operating Systems

The TRACE32 Software Updater supports the following operating systems:

Operating System	Requirement
Microsoft Windows	Windows 7 or newer
Linux	GTK+ 2.6 or higher
MacOS	OS X 10.5 or higher

## How to Start the TRACE32 Software Updater

The TRACE32 Software Updater can be started using the menu Help:



It is also possible to start the TRACE32 Software Updater application directly. The client can be found at  
<TRACE32\_install\_path>/bin/<os>/t32update[.exe]

Example:

```
C:\T32\bin\windows64\t32update.exe
```

The TRACE32 Software Updater can also be downloaded from the following link:

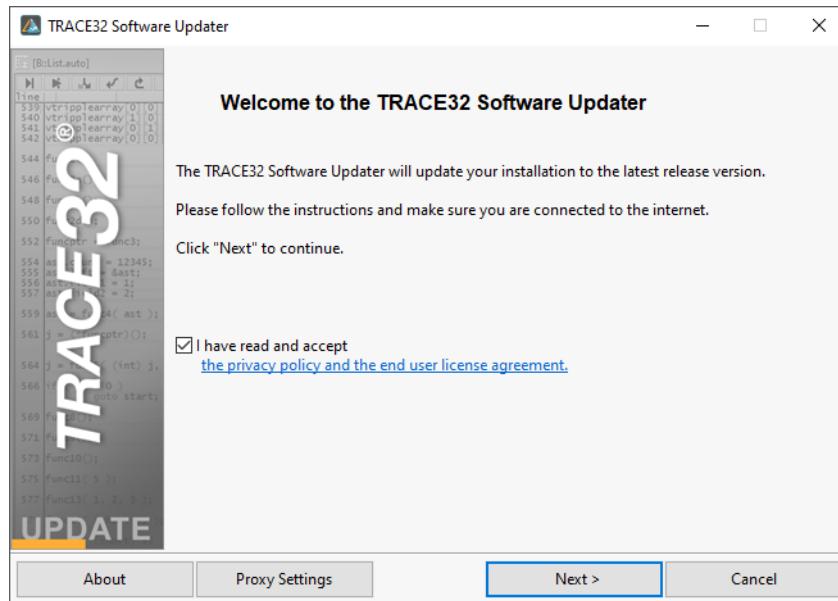
[http://www.lauterbach.com/download\\_trace32.html](http://www.lauterbach.com/download_trace32.html)

The TRACE32 Software Updater will automatically update itself to the latest version if this is required.

## Update Process

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After starting please follow the instructions of the wizard.



## Command Line Parameters

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The TRACE32 Software Updater accepts the following command line parameters:

- `--t32sys="<path>"`: defines the TRACE32 directory to be updated

Example:

```
t32update.exe --t32sys="C:\T32"
```

This parameter may be passed only once, since the update can be done on a unique TRACE32 system directory.

- `--help`: shows the help message

## Downgrade Possibility

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The TRACE32 Software Updater will show a warning about files that will be downgraded during the update process. This is the case, if the installation contains files newer than the official release, e.g. from an interim software update package received per e-mail.

The user can choose to cancel or continue the update process.

## License Check

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The TRACE32 Software Updater will check the validity of the maintenance license if it started from the TRACE32 menu, in this case, if the new release is not valid for your license key, there will be a warning.

The license detection is based on the connected debugger, so it is possible that the TRACE32 Software Updater does not detect all the expired maintenance licenses compared to the latest TRACE32 release.

## Backup

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The TRACE32 Software Updater creates a backup directory containing all replaced files.

The path of this backup directory will be shown in the update process, as well as in the log file.

Note that there is no automatic roll back of the backup.

## Log File

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A log file containing information about the whole update process is created in your temporary directory.

A link referring to this log file will be shown when the update ends.

## Contacting Support

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For any support request, please attach your log file and send an e-mail to [support@lauterbach.com](mailto:support@lauterbach.com).

It is also recommended to include detailed system information about your TRACE32 configuration using the TRACE32 menu **Help > Support > System Information...**

# Manual Installation of Software Updates

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The minimum required TRACE32 version for using the TRACE32 Software Updater is R.2012.08. Older TRACE32 installations have to be updated manually.

Moreover, updating TRACE32 to an interim version (e-mail based updates) has to be performed manually.

<b>NOTE:</b>	Software update packages are not full installations. By unpacking the update archive the most important TRACE32 system files are overwritten.
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## To manually install a software update:

1. Backup your existing TRACE32 installation
2. Close all TRACE32 instances
3. Unpack the update archive into the TRACE32 installation directory (e.g. C:\T32) overwriting existing files
4. Start TRACE32 as usual and verify if the new software version has been installed correctly by checking the version information from the TRACE32 menu **Help > About TRACE32...**

A conflict with regards to the software version might occur, if the TRACE32 software is installed for more than one processor architecture under the same TRACE32 system directory. Since a software update overwrites all files that are used from all processor architectures in common, it is recommended to perform a software update for all architectures. Otherwise the start of the software for a not-updated processor architecture might result in a version conflict, since the used TRACE32 files do not match. Please be aware, that in this case a valid software guarantee/software warranty contract is needed for all used TRACE32 systems.

## Subdirectory Structure

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The internal subdirectory structure of the TRACE32 software update packages has been changed since software version November 2010. Starting from this version, the TRACE32 executables are located inside a subdirectory `bin\<operating_systemtype>`, e.g. `bin\windows64`.

For older installations the executable must be moved manually to the TRACE32 system directory e.g. `C:\T32` or the shortcut property must be corrected.

<b>NOTE:</b>	We recommend to modify the shortcut property, due to the fact that this kind of subdirectory structure will be used from the installer in the future, too.
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# Update of the Host Driver Software

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## USB Interface

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If the most current TRACE32 software asks you to update the USB driver proceed as follows:

1. Go to **Control Panel -> System -> Device Manager -> TRACE32 Devices**
2. Select **Lauterbach PODBUS USB Controller**
3. In the **Lauterbach PODBUS USB Controller Properties** window select **Driver**
4. Click **Update Driver..**

# Firmware Update

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Files for updating the firmware of the TRACE32 modules are available in the TRACE32 installation directory under `~/demo/etc/firmware/`

The script `icd_fire_firmwareupdate.cmm` should be used for updating the firmware of a PowerDebug module.

```
DO icd_fire_firmwareupdate.cmm
```

# Serial Numbers

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Please check the field ***license serial number*** in the **LICENSE.state** window.

The serial number consists of the device identifier

Device Identifier	
C	TRACE32-ICD
M	ROM Monitors for serial access licensed via the ethernet address of the host.
D	ROM Monitors for serial access licensed via a USB dongle
T	Temporary license for all TRACE32 tools
L	Floating license for software only products

plus an 11 digit number.

For TRACE32-ICD, the expiration date of the software guarantee is also implicitly part of the serial number. The first 6 digits after the letters C, T or L represent the delivery date.

**Example:** if the serial number is C19020012345 (<year><month>00), then the TRACE32-ICD system was delivered in February 2019 so the software guarantee is valid until February 2020.

If the field ***valid until end*** is empty when you enter the **LICENSE.state** command use also these first 6 digits of the license serial number to find out when your software guarantee will expire.

For device identifiers other than C, T and L, the only way to see the expiration date of the software guarantee/software warranty and the license serial number is to use the **LICENSE.state** command.