

Software Updates


Release 09.2025

Software Updates

TRACE32 Online Help

TRACE32 Directory

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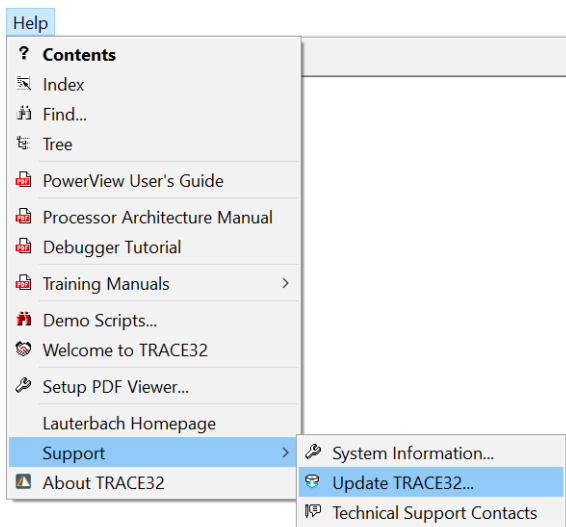
History

26-Aug-2020 Mayor rework on manual.

About this Document

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The TRACE32 Software Updater automatically determines if the selected TRACE32 installation is outdated, and installs the latest release for all installed architectures.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 https://www.lauterbach.com/download_trace32.html or by submitting a support ticket at support.lauterbach.com/new-ticket to request an update.

The detailed steps are described in “[Manual Installation of Software Updates](#)”, page 10.

Do You Have a Valid Software License Key?

The latest update of the TRACE32 software can only be used if at least one of the following conditions is met:

- The software warranty for TRACE32 is still valid (the warranty lasts for one year after the system is purchased).
- A valid software maintenance contract exists for the TRACE32 system.

If none of these conditions are fulfilled, the new software version will only run in a time-limited demo mode.

You can check the status of TRACE32 in the **VERSION** window, accessible via the menu **Help > About TRACE32**, or by entering the command **LICENSE.state** in the TRACE32 command line.

For more information about TRACE32 serial numbers, please refer to the chapter “**Serial Numbers**”, page 13.

Temporary License Keys

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

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

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

Programming the License

To activate a temporary license, proceed as follows:

Using the **LICENSE.UPDATE** command

- Start a TRACE32 PowerView instance connected to your debug probe.
- Run the following command on the TRACE32 command line:

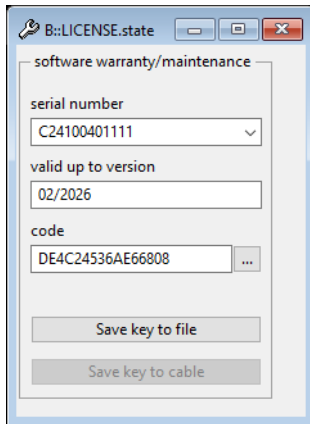
```
LICENSE.UPDATE <serial_number> <expiration_date> <license_key_code>
```

- *<serial_number>*: The serial number of your debug probe.
- *<expiration_date>*: The end date of the temporary licence period.
- *<license_key_code>*: The license key provided.

Using the **LICENSE.state** window: you can activate the licence using the graphical interface

- Open the window by running the following command on TRACE32 command line

```
LICENSE.state
```



- Enter the expiry date in the 'valid until version' field.
- Enter the licence key in the 'code' field.
- Click on 'Save key to file' to save the licence.

NOTE: The licence **is not stored on the debug probe itself**. It is stored in the `license.t32` file within the TRACE32 system directory

For more details on licensing commands, refer to **“LICENSE”** in PowerView Command Reference, page 210 (`ide_ref.pdf`)

TRACE32 Software Updater

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 awarenences, peripheral files, menu files, and demo scripts.

Prerequisites

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.
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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.
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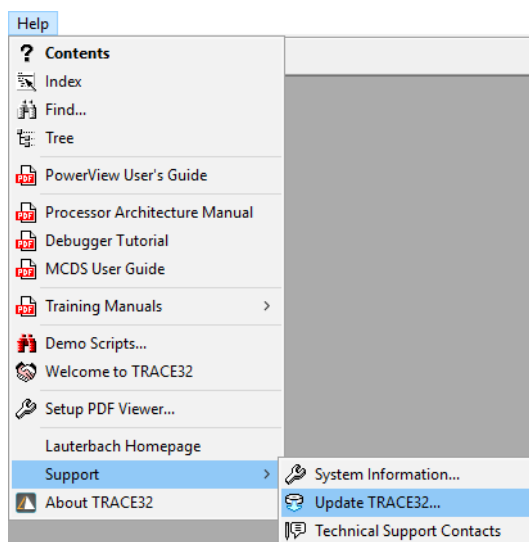
Supported Operating Systems

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
```

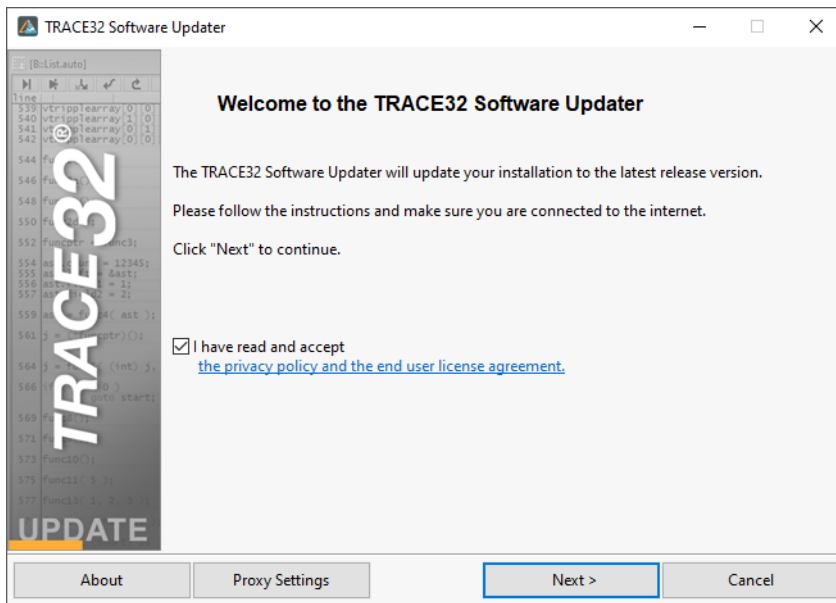
The TRACE32 Software Updater can also be downloaded from the following link:

https://www.lauterbach.com/download_trace32.html

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

Update Process

After starting please follow the instructions of the wizard.



Command Line Parameters

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

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

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

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

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

For any support request, please submit a ticket at support.lauterbach.com/new-ticket and include your log file as an attachment.

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

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.

NOTE:	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 you 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

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.

NOTE:	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

USB Interface

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

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

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.