Instructions

State 03/2025 - Version 1.0

MDT Firmware Update App

MDT technologies GmbH · Papiermühle 1 · 51766 Engelskirchen · Germany
Telephone: +49 (0) 2263 880 · knx@mdt.de · www.mdt.de

1 Content

2 General

An ETS app extends the functionality of ETS 5 or ETS 6. To use this extension, the corresponding program file (“FileName.etsapp”) and the associated license must be installed in the ETS 5/6.

Note: Also free ETS apps must be purchased from the KNX Association’s MyKNX shop.

2.1 Functional description

Continuous updates optimize and improve the functionality of the KNX devices.
With the ETS app “MDT Firmware Update”, it is possible to update the operating systems of various MDT components to the latest version without replacing any device.

3 Installation

This app can be started from both, ETS 5 and ETS 6. The “MDT Firmware Update App” is available free of charge from the KNX Association online shop. It only needs to be licensed with the existing ETS license in order to use it.

3.1 Download of program file

Important: To order an app from the KNX Association, you must have an account with a KNX ID.

The program file can only be downloaded from the KNX Association shop.

On the my.KNX.org website (see QR code in Figure 1), a list of all apps can be found under the menu item “ ´See all apps”. When using the search filter “ETS App Developer” → “MDT technologies GmbH”, only the apps from MDT technologies GmbH are displayed, making it easy to find the app you are looking for.

The order process is started via the “Buy” button.

After a successful order process, the app is available for download on the logged-in user’s my.KNX.org website under “Account” → “Products”.

Now the file (appname.etsapp) and the license can be downloaded and saved local in a suitable location.

Note: Free apps also have to be “purchased” from the store. The only difference is that no invoice is issued.

Figure 1: QR-Code – Link to download page

3.2 Installation and licensing

3.2.1 ETS 5

The access to the menu item “Apps” is located in the lower status bar on the right side of the “ETS 5” home screen (Figure 2– marked in red).
Selecting the “+” in the “Apps” window opens a window in which the “AppName.etsapp” file to be installed can be selected and installed.

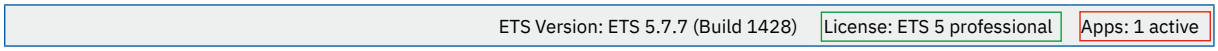

Figure 2: Status bar of the ETS 5

3.2.1.1 ETS 5 – Licensing

In the “ETS 5” home screen, access to the “License” menu, located in the lower status bar in the second position from the right (Figure 2 – marked in green).
Selecting the “+” in the “Licenses” window opens a window in which the “LicenseNumber.license” file to be installed can be selected and installed.

After installation and licensing, the ETS 5 must be restarted.

3.2.2 ETS 6

To install the app, go to the “Settings” → “ETS Apps” menu and select the “+ Install App form file” menu item.
A window will open in which you can select the “AppName.etsapp” file to be installed.

3.2.2.1 ETS 6 – Licensing of a cloud-based license

To license the app with a cloud-based license, the following steps must be followed:

- Open the “Settings” menu.
- Open the “Licensing” window.
- Select the cloud license in which you want to save the app license.
- “Add a license” opens the selection window of available licenses.
- Selecting the APP license.
- Finally, confirm the license by selecting the “Activate” menu item. The ETS 6 checks the validity of the license online.

3.2.2.2 ETS 6 – Licensing of a dongle-based license

To license the app using a dongle-based license, the following steps must be followed:

- Open the “Settings” menu.
- Open the “Licensing” window.
- Select the dongle-license in which you want to save the app license.
- Click the “Add a license” button to enable selection. The ETS 6 connects online to the specified MyKNX account to retrieve all available ETS 6 app licenses.
- Finally, confirm the license by selecting the “Activate” menu item. The ETS 6 checks the validity of the license online and stores it for the dongle.

4 Using the “MDT Firmware Update” app

The app is used in the same way in both, ETS 5 and ETS 6. There may be differences in appearance depending on the ETS version and parameter settings.

4.1 Start the app

After starting the ETS, the app must be started separately within the ETS.

4.1.1 ETS 5

The app is started in the ETS 5 with an opened project via the “Apps” tab.
All the MDT apps that have already been installed appear under the “MDT technologies GmbH” menu item in the drop-down menu.

4.1.2 ETS 6

In ETS 6, apps are started via the “Panel” tab when the project is opened.
Under the menu item “Apps” → “MDT technologies GmbH” in the drop-down menu, all MDT apps that have already been installed by MDT will appear.

4.2 Structure and operation

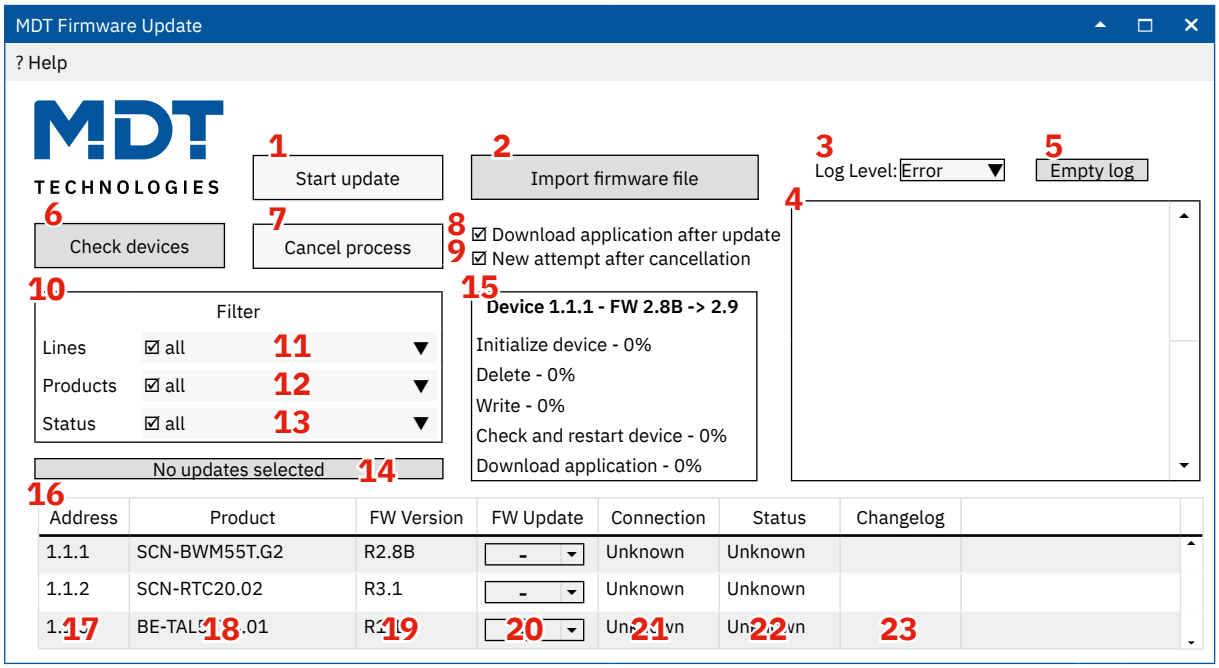

Figure 3: Controls in the app

No.	Name	Description
1	Start update	Starts the automatic update process.
2	Import firmware file	Add firmware files to the local database. The latest firmware version can be found in our download area.
3	Log Level	Affects the messages displayed in the log protocol (4). The following options are available: • **Error:** Only error messages are displayed in the log. • **Warn:** Warning and error messages are displayed in the log. • **Info:** Information, warning and error messages are displayed in the log. • **Debug:** All messages are displayed in the log.
4	Log-protocol	Displays the logged messages based on the log level set in step 3.
5	Empty log	Delete all entries shown in the log protocol (4).
6	Check devices	Checks the firmware version installed on the devices available on the bus, in accordance with the filter settings (11-13).
7	Cancel process	Cancels the batch processing of the selected firmware updates. The firmware update for the current device cannot be cancelled and will be completed.
8	Download application after update	Affects whether the application is loaded in the ETS assigned to the device after a successful firmware update.

No.	Name	Description
9	New attempt after cancellation	Restart the firmware update process if an update attempt has failed. After three failed update attempts, the update process for this device is set to “failed” and the next device is updated.
10	Filter table	This is where you can specify which devices in the project are displayed and updated.
11	Filter – Lines	Displays the lines present in the active project.
12	Filter – Products	Displays the article number of the devices available in the active project.
13	Filter – Status	Displays the last known status of the devices. If a device search has not yet been carried out, using “Check devices”, the status of all devices is displayed as “unknown”.
14	Status bar	Display the status of the function currently running.
15	Status field actual Update	Displays the status when the firmware update is active. **This field is only visible when updates are running.**
16	Device table	The available data of the devices in the current project are displayed here using the selected filter.
17	Device table – Address	Physical address of the device in the KNX bus.
18	Device table – Product	Article number of the device.
19	Device table – FW Version	The firmware version on the device as read.
20	Device table – FW Update	Select one of the local firmware versions. Both firmware upgrades (increasing version number) and firmware downgrades (lower firmware version number) are supported. Selecting “-” will result in this device being skipped.
21	Device table – Connection	• **Unknown:** No device check has been carried out yet. • **Error:** The device present in the project was not found during the device test. • **OK:** A connection to the device could be established and the firmware version on the device was read out.
22	Device table – Status	• **Unknown:** No device check has been carried out yet. • **Not updateable:** The device is not updateable. • **Selected for update:** The device has been selected, and waiting for the update. • **Up to date:** Firmware update successful, the FW version of the device matches the selected version. • **Update failed:** The firmware update was not successful.
23	Device table – Changelog	The changelog for the selected firmware version is displayed here.

Table 1: Controls and functions of the firmware update app

4.3 Automatic firmware update procedure

After the app has been started, all firmware versions which have been stored locally in the app will be read into the app. The status of this read-in process is indicated by the status bar (14).
The topological structure (areas / lines) and the device information are read out of the current project and entered in the “Address” (17) and “Product” (18) columns of the device list.

The “Check devices” function (5) can then be used to read the status of the existing devices and their firmware versions.

The selected connection information is displayed in the “Connection” column (21) and the firmware versions in the “FW Version” column (19).

The required firmware version for each device can be selected from those available in the app locally using the “FW Update” table field (20). If the required firmware file is not yet stored locally, it can be added to the app using the “Import firmware file” function (2).
Selecting “-” allows the current device to be excluded from the update.

The automatic update process for all selected devices that are updateable is carried out by clicking the “Start update” button (1).

Note: The “Cancel process” function (7) is used to cancel the batch processing of the selected firmware updates. The firmware update in progress for the current device will be completed.

Warning: Aborting the firmware update, whether by disconnecting the device from the bus or by exiting the ETS software, can cause serious damage to the device and possibly make it unusable.

5 Appendix

5.1 Disclaimer

Please note that discrepancies may occur despite careful checking for compliance with hardware and software. No liability can be accepted in this regard.

Any necessary corrections will be included in future versions of this document.

Technical modifications and errors remain reserved.

5.2 History

V 1.0	First version of instructions manual	APP V 1.2.0.0	03/2025