KNX Technical Reference Manual

ABB i-bus® KNX

ETS-App "KNX Bus Update"

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1 Product description

The ETS app „KNX Bus Update" serves for the updating of devices (and their firmware) directly via the ETS (Engineering Tool Software).

The app works both with ETS 4 as well as ETS 5.

2 Download

1. Log yourself in at website "https://my.knx.org/shop".
2. Search for the app „KNX Bus Update". in product category "ETS apps".
3. Place the app into the shopping trolley.
4. Enter your invoice data.
5. Open the "My products" section.
6. Add your own dongle ID.
7. Save the license file (.zip) on your PC.

3 Installation

1. Unzip the license file. Save it as app file type (.etsapp).
2. Open the ETS.
3. Select "Settings" -> "ETS apps".
4. Select "Licensing" -> "Add".
5. Select the unzipped license file.
6. Click on "Install" and select file type 'etsapp'.
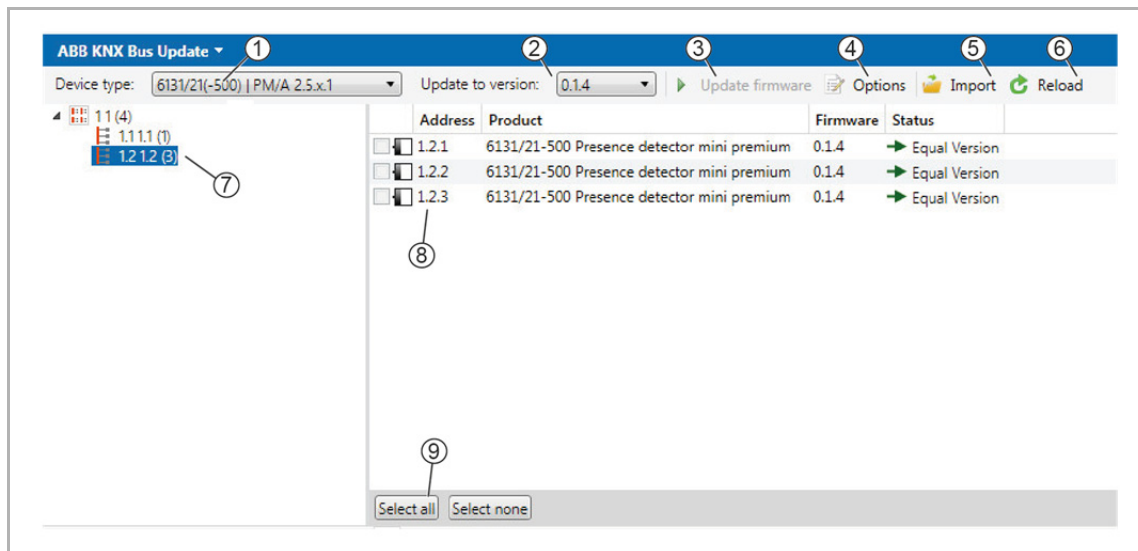
4 App operation

4.1 User interface

Fig. 1:   User interface "KNX Bus Update"

[1] **"Device type"**

Select the device type to be updated. After the selection, all devices of this type will be listed in the project according to the topology.

[2] **"Update to version"**

Select the version of the update file you wish to use. The latest version is always listed here as standard.

[3] **"Update firmware"**

Button to start the update process.

[4] **"Options"**

This button offers the option of performing settings, see chapter 4.2 "Options" window on page 5.

[5] **"Import"**

This button allows update files to be added manually. The update files can be downloaded from the manufacturer's site.

[6] **"Reload"**

Changes to the project (number of devices, topology) while the update app is open, must be actuated with this button to make the changes visible also in the app.

[7] In this section all areas / lines are displayed in which devices of the selected type are located. When a line is selected, all devices of the selected type in this line are displayed in the middle section (see item 8).

[8] In this section all devices of a line which can be updated with the selected firmware are displayed. The devices for the update can be selected by activating the checkbox.

[9] **"Select all"**

All "relevant" devices of a line are selected for the update with a press of the button.
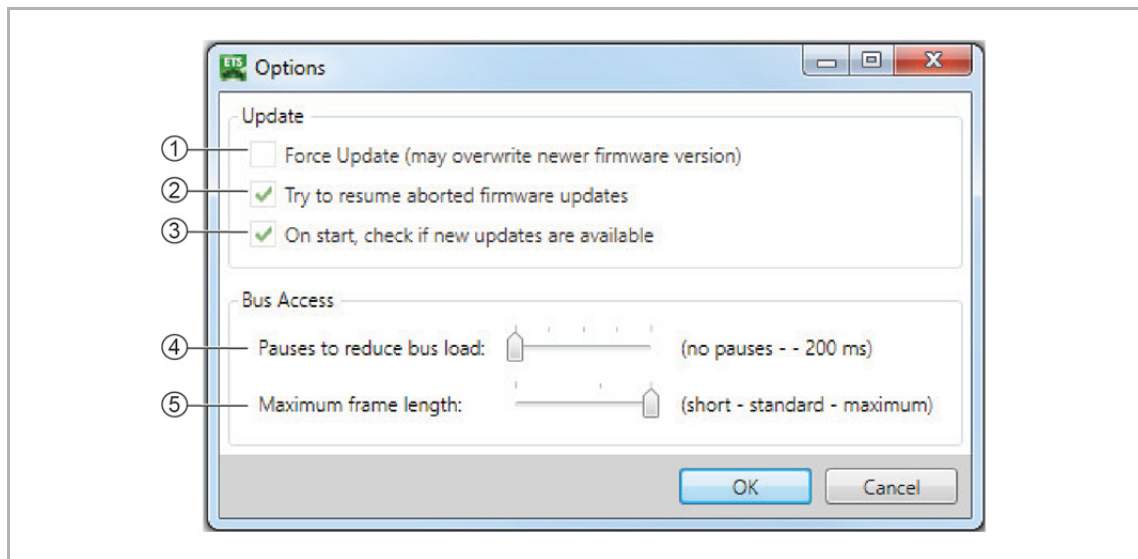
4.2 "Options" window

Fig. 2: "Options" window

[1] **"Force Update"**

The firmware update is also carried out when there is the same or a later version on the device.

[2] **"Trying to resume aborted firmware updates"**

If a device is to be updated with a new firmware whose update failed during a previous try (with the same version), the update is continued from the point it was aborted.

[3] **"On start, check if new updates are available"**

If the computer is connected with the Internet and this option is activated, at the start of the program it will be checked whether new update files are available on the update server. These files will then be downloaded automatically. There is the additional option of downloading firmware files manually and to integrate them via the "Import" button.

[4] **"Pauses, to reduce the bus load"**

To prevent impairment of the KNX system during the update it may be necessary to reduce the bus load caused by the update. This is made possible with the enforcement of pauses between the update telegrams.

[5] **"Maximum frame length"**

The attempt to carry out the update communication with the maximum length supported by the device and the system interface to minimize the duration of the update, is standard procedure.

General information

The duration of the update can vary greatly depending on the KNX interface used. Recommended interfaces are:
– 6149/21 in connection with 6120/12-101,
– 6186/USB,
– KNX.Net/IP interface,
– Interfaces which support long frames.

The duration of the update can be greatly reduced with the use of an interface with a long-frames function.

It is recommended to always carry out the update from the line in which the devices are located, to prevent the influence on the duration of the update from other system components such as line couplers.

A member of the ABB Group

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