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TECHNOLOGIES

How to update the DALI Control 64 Gateway

These instructions describe how to update the firmware, KNX application and DCA (Device Configuration App) from version 1.x to version 4.x of the **SCN-DA641.04** and **SCN-DA642.04**.

Versions used in this document:
Firmware: [1]4.3
KNX Application: 4.0
DCA: 4.0.0.0

The update requires the use of all components in version 4.x, there is no downward compatibility between firmware, KNX application programme and DCA in version 1.x!
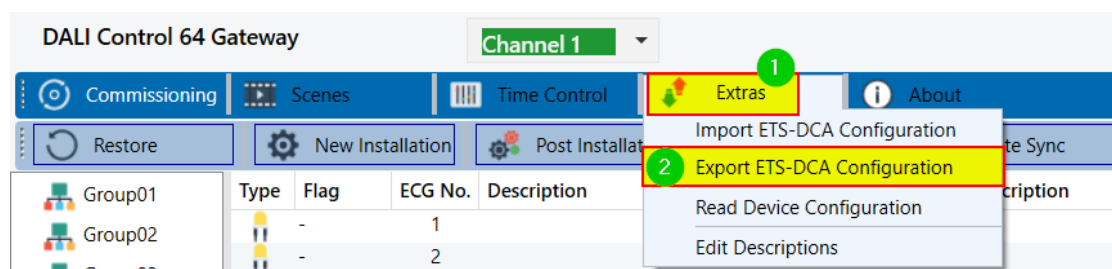
Important note:
The firmware update is "unconditional", i.e. all settings stored in the firmware are irrevocably deleted and the physical address of the unit is reset to 15.15.255. It is essential to follow the order of these instructions for a successful transfer of parameters.

Step 1 - Backup the current ETS project

It is advisable to make a backup copy of the ETS project before automatically updating a database.

Step 2 - Export the DCA configuration

All data stored in the DCA and the gateway must be exported **before** the firmware update. The following function is used for this.

An .xml file is created with all DCA and device information.

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Step 3 - Updating the Firmware

The update can only be installed using a FAT32 formatted microSD memory card (11x15mm).
Use a memory card with a minimum capacity of 1GB and a maximum capacity of 64GB.

Preparation

First download the correct update for your DALI Control 64 gateway from www.mdt.de and unzip it. The zip archive contains a .bin file corresponding to the gateway used:

D1_xxxx.bin --> SCN-DA641.04
D2_xxxx.bin --> SCN-DA642.04

Now copy the .bin file to the root directory of the microSD card.

Update

The microSD card slot is covered with a sticker on delivery. It is located to the right of the 230 V connection terminals. Remove the sticker for the update process and then close the slot again.
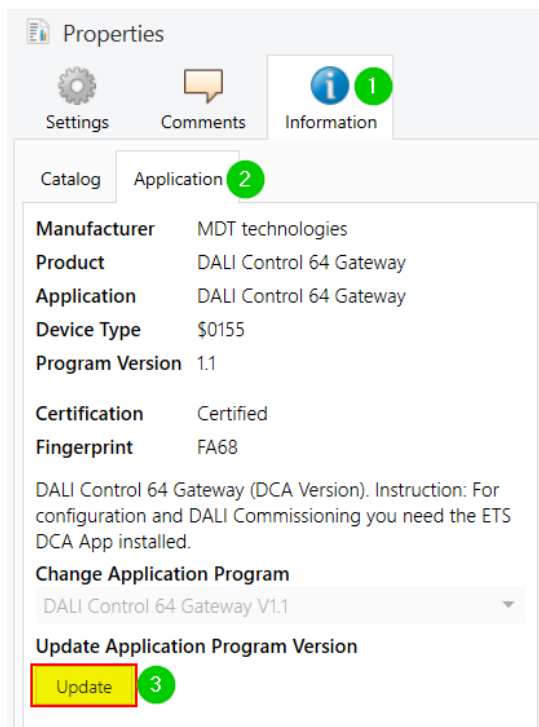
Step 1:	Disconnect the 230 V mains voltage.
Step 2:	Insert the microSD card as illustrated.
Step 3:	Press and hold the programming button.
Step 4:	Switch the 230 V mains supply back on. (Keep button pressed!)
Step 5:	The programming LED will start to flash. Release the programming button and wait a further 5 seconds.
Step 6:	Turn off the power. Remove the microSD card from the slot.
Step 7:	The update is now complete. Switch the 230 V mains voltage back on and commission the gateway via the ETS.

The updated firmware version can be checked via the device information in the ETS.

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Step 4 - Update the application

To update the "old" application within the project, the new version of the application is required in the project. To do this, load the new application V4.x from the ETS online catalogue or from www.mdt.de and place it as a dummy anywhere in the project. Then select the device to be updated in the ETS and open the properties using the key combination "alt + enter". Via the "Properties" tab **(1)** --> "Application **(2)** --> click on "Update" **(3)**.
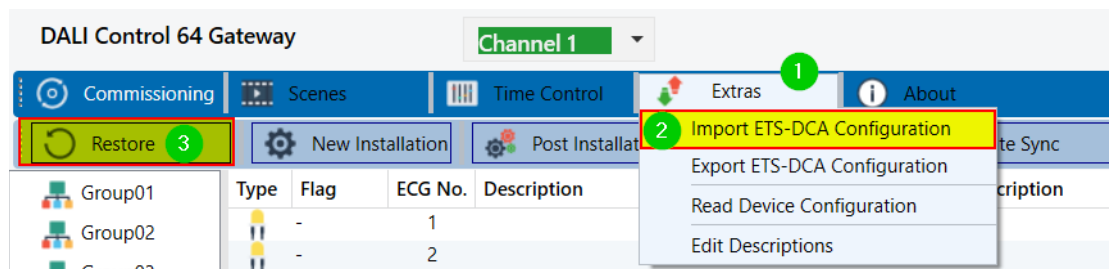Do **not** change the application via the drop-down menu! The settings will be lost!

Check the settings for the updated application and group addresses, and then program them into the updated gateway along with the physical address. The additional application loaded for the update can now be deleted.

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Step 5 - Updating the DCA and importing the settings

Download the DCA version 4.x from www.mdt.de or the KNX Association online shop and install it in the ETS. Then use the following function to import the .xml file saved in step 2 into the DCA.

Important:

The imported settings must then be loaded into the device using the 'Restore' function **(3)**. After the automatic restart of the DALI Gateway, all settings have been transferred and the update to version 4 is complete.