DaliControl e64 Update Tool – Firmwareupdate 3.1 Release 0 Application Note

Topic

KNX-DALI gateways from the DaliControl e64 product range offer the possibility of an easy firmware update without having to demount the device. The update is performed via an integrated IP interface. New developments or any amendments that may be required can be easily imported via the IP connection.

This application note describes the process for updating a device to firmware version 3.x.x by means of the DaliControl e64 Update Tool.

General information about firmware 3.x.x

Firmware 3.x.x is a new generation of the operating software for DaliControl e64 devices. It replaces the previously used firmware versions 1.x.x. Some major enhancements and addititions have been made compared to versions 1.x.x. The main changes are:

- Possibility to control DT-8 colour control devices via KNX communications objects (only for DALI groups)
- Enhanced possibilities to use DT-8 devices in scenes.
- Enhanced scene assignment (Mapping of 64 KNX scenes into 16 DALI scenes)
- Use of DT-8 devices in effects
- Control of DT-8 devices via Broadcast
- Additional objects to control the ECG power supply via actuators (Energy Saving Mode, only for DALI groups)
- New data point types for DT-1 emergency test lights (optional use)
- Enhanced IP security (Digest)
- Support of KNX long frame telegrams reduces download times

In addition, numerous small changes and bug fixes have been integrated into the firmware. Please refer to the application program description for these.

As the changes have had an impact on the object and memory structure, firmware 3.x.x. can only be used with the corresponding application program DaliControl e64-01-0310. In addition to the application program, the DCA is also needed for the DALI configuration.
The old application DaliControl e64-01-0110 with Plug-In cannot be used with firmware 3.x.x!

If a DaliControl e64 is updated from firmware version 1.x.x to 3.x.x, you have to carry out an “Undonditional“ update. A partial update is only possible when another version 3.x.x is already loaded on the device, e.g. from update 3.0.0 to 3.3.1.
All configuration data is lost with an “Unconditonal“ update. If any ECGs were previously programmed and configured, they need to be re-programmed after the update.

Requirements for the firmware update

The firmware is updated via IP. The device therefore needs to be integrated into an IP network. Once the power supply is connected, the gateway is assigned an IP address either via DHCP or via manual address assignment in the ETS. To see the IP address, go to menu item “network” on the device display. You will need the IP address for the subsequent update process. The actual update is performed via a PC that is connected to the network.

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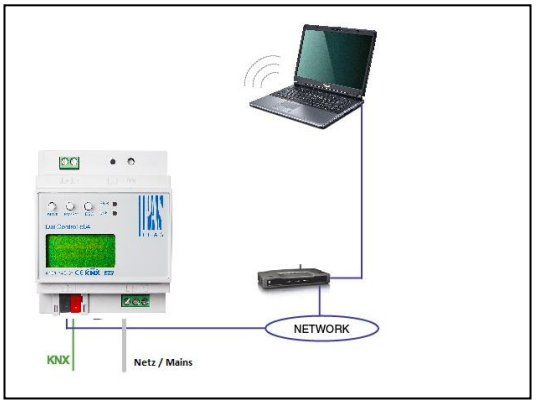
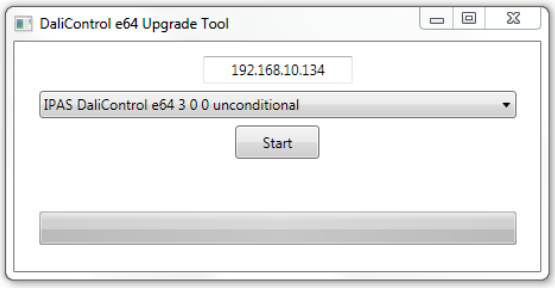


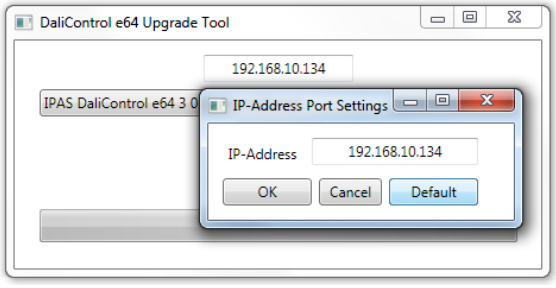
Update procedure

For an update to version 3.x.x, please unpack the zip archive " Manufacturer_e64_upgradeTool_V3_x_x.zip“ depending on the device type. The archive, which is provided with this application note, contains a detailed file "Manufacturer_e64_upgradeTool_V3_x_x.exe“ which can be started straight away after unpacking

After the programme has been started, the following window appears:



To start the update, enter the IP address of the device that you would like to update. Double-click on the displayed IP address (here 192.168.10.134) to open the entry field.



You can now edit the IP address and ensure it is correctly set to the required value. After pressing the OK button, the address is shown in the main window. Before you start the update, please select the required update type from the pull-down menu. The following types are usually available:

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- DaliControl_e64_Version_unconditional
- DaliControl_e64_Version_partial

If you select "unconditional", all data (ETS parameters, DALI configuration data, scenes, effects, etc.) that may already be stored on the device are deleted and the physical address is re-set to 15.15.255 .

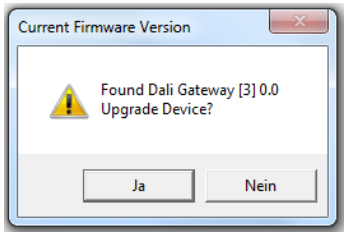
If you select "partial" update, the configuration data is preserved and the device does not have to be re-loaded with the ETS and no new DALI configuration is required.

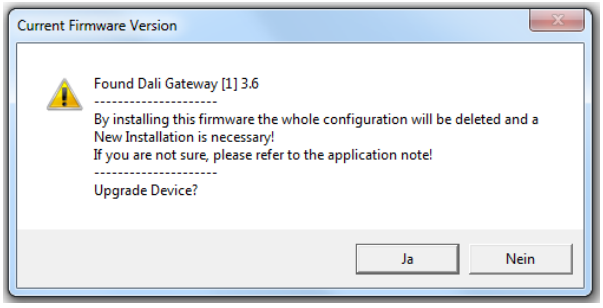
If a device is updated from firmware version 1.x.x to 3.x.x, please remember that you have to carry out an "Undonditional" update.

After you have selected the required type, press the start button to begin the update process

The update tool first checks the current firmware version of the Dali gateway and informs the user via an information window of the version that has been used up to now.

If you select "Unconditional" update, a further message appears in the window warning the user that the configuration data will be deleted.

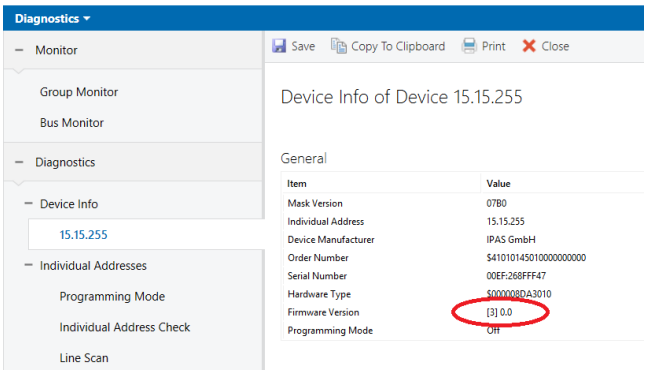




After an acknowledgement, the firmware data will be transferred to the device memory via FTP. A progress indicator informs about the current status of the transfer. Once the update files have been successfully transferred, the device is automatically re-set.

After the reset the device starts with the new firmware version.

The device display only shows the first two parts of the version (not the revision), e.g. Vers. 3.0. The full firmware version is available via the device info in the ETS.



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Alternatively, you can also check the current firmware version on the device website. The text box at the bottom of the ECG field displays the current firmware version in addition to the MAC address and the physical address of the device:

Revision tracking

Firmware Version 3.0.0 released 19/12/2018 Delivered with pilot series

Firmware Version 3.0.1 released 11/02/2019 Changes

- Error: Operating hours are not displayed on the website → corrected

Firmware Version 3.1.0 released 27/02/2019 Changes

- Optimisation: In connection with the new DCA, the KNX scenes 1 – 64 can be assigned to the DALI scenes 1 to 16.