

MDT Solution Proposal

Update of MDT products via DCA App

(Update Tool)

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Which devices can be updated via DCA App?

The following devices are currently updateable (state 11/2020):

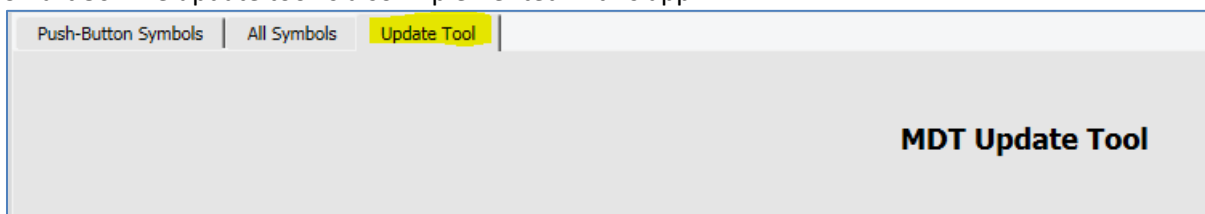
Glass Push Button II Smart (BE-GT2xx.01)	from R3.0
Push Button Smart 86 (BE-TAS86/T.01)	from R2.0
Glass Push Button Light (BE-GTLxxx.x1)	from R1.1
Push Button Light 55/63 (BE-TAL55/63xx.x1)	from R1.1
LED-Controller (AKD-0x24V.02/AKD-0424R.02)	from R3.0
Dimming Actuator (AKD-0x01.02)	from R5.0
Logic Module (SCN-LOG1.02)	from R4.0
Safety Module (SCN-SAFE.01)	from R1.0
Presence Detector MR16 (SCN-P360E3.03)	from R4.0
Presence Detector (SCN-x360xx.03)	from R4.0
Motion Detector 55 (SCN-BWM55x.x2)	from R2.0
Switch Actuator AKI (AKI-xx16.04)	from R6.0
RTC Smart 55/63 (SCN-RTx55/63S.02)	from R1.0
RTC/Humidity Sensor (SCN-TFS55/63.02)	from R1.0
RTC/Object Controller 55/63 (SCN-RTR55/63O.02)	from R1.0

In the course of further technical development there will be more devices in the future. Please check the download/product databases. If a device can be updated, the DCA App is offered in the line below the product database. Here the example of the switch actuator AKI, series .04:

Download MDT product data							
Product data Switch Actuators:	Series	Date*	Version	ETS 3	ETS 4	ETS 5	History
MDT Switch Actuator AKI from ETS 5.7.x	.04	09/20	V3.0	--	--	prod	pdf
MDT DCA App for device update Switch Actuator AKI		09/20	3.9	--	--	etsapp	pdf

Which DCA App is required?

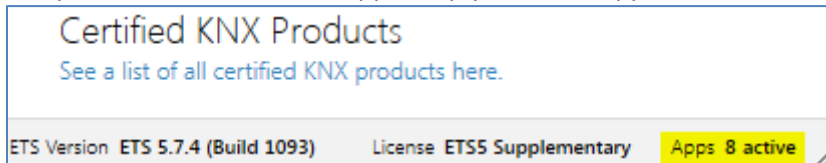
The app for loading the symbols is required for the Glass Push Button II Smart and the Push Button Smart 86. The update tool is also implemented in this app:



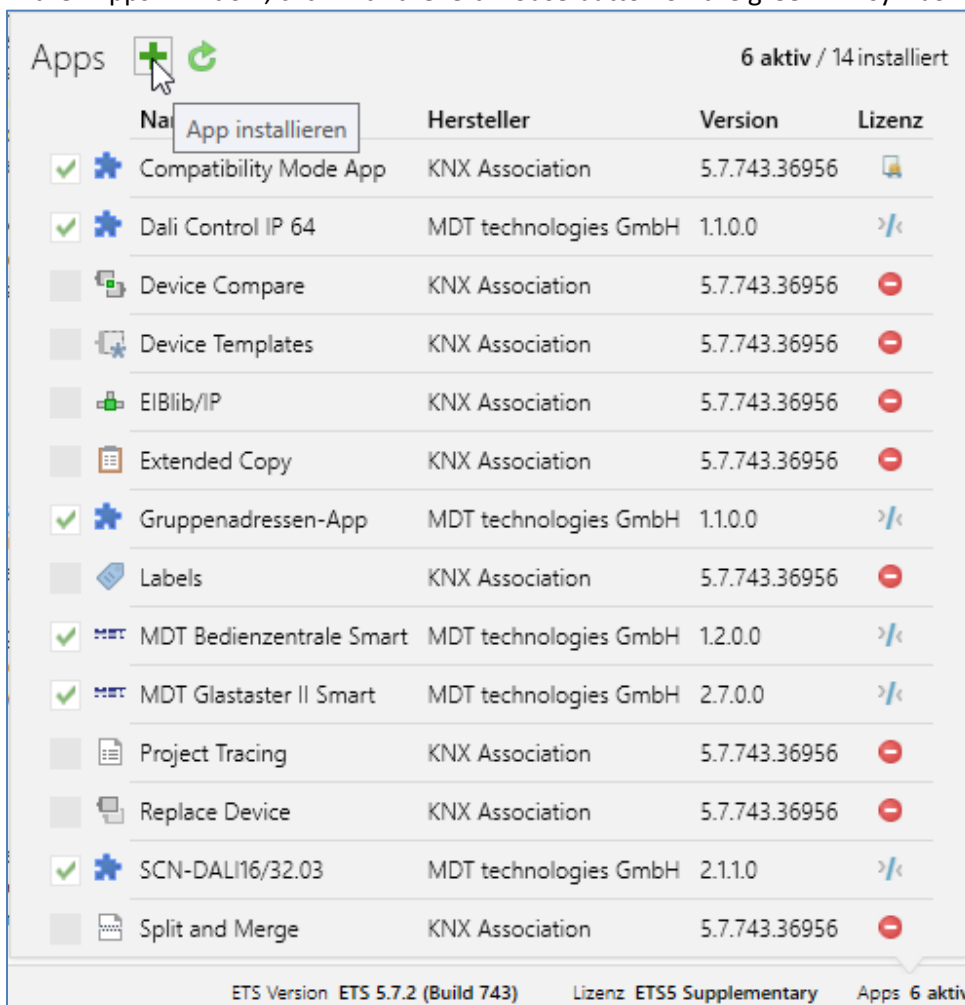
For all other devices, the "DCA App for device update" is required. All apps can be found on the KNX.org homepage or directly on the MDT homepage in the download area under: https://www.mdt.de/EN_Downloads_Productdata.html

How is the DCA App integrated into the ETS?

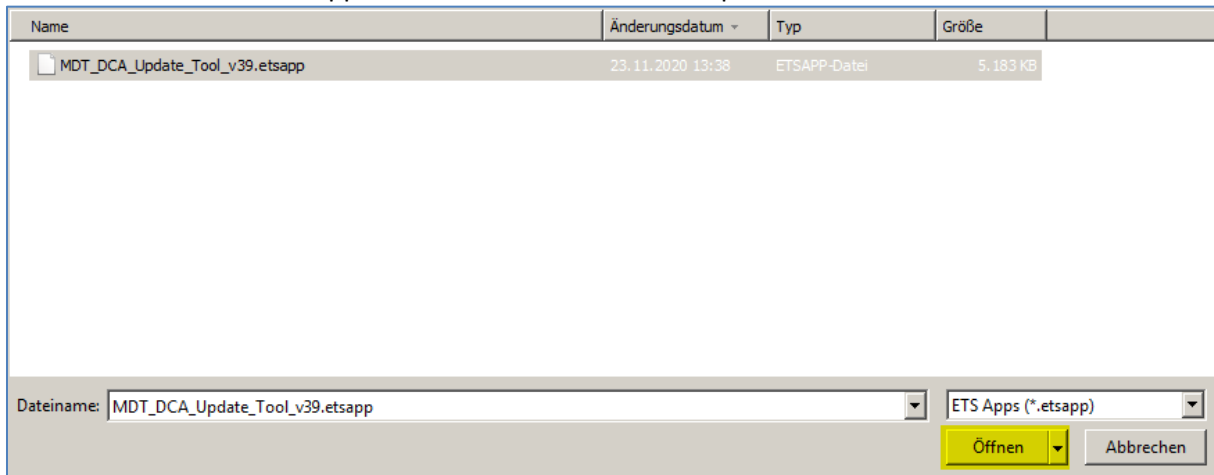
After downloading the DCA app, it can be added in ETS5 under the item "Apps".
To open the window for the apps simply click on "Apps" with the left mouse button.



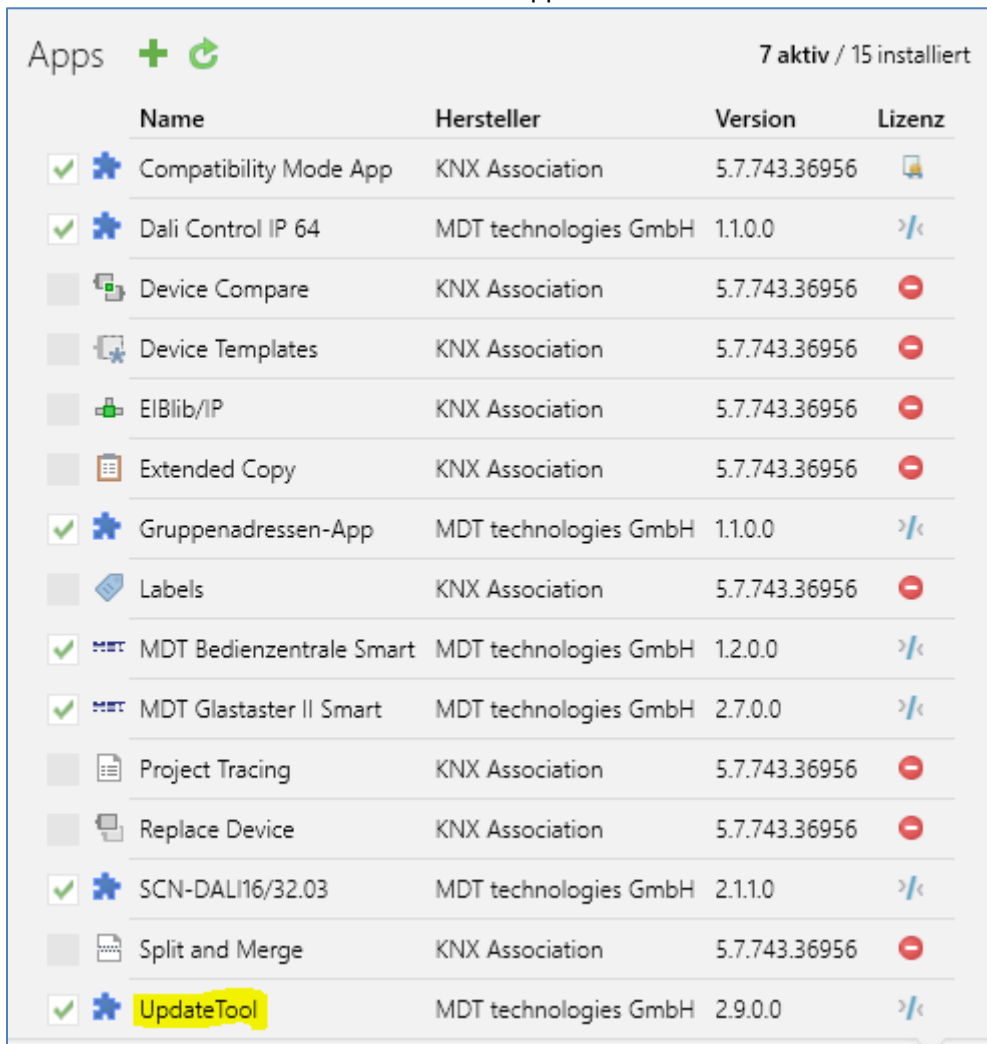
In the "Apps" window, click with the left mouse button on the green "+" symbol.



Then select the file of the app to be installed and click on "Open":



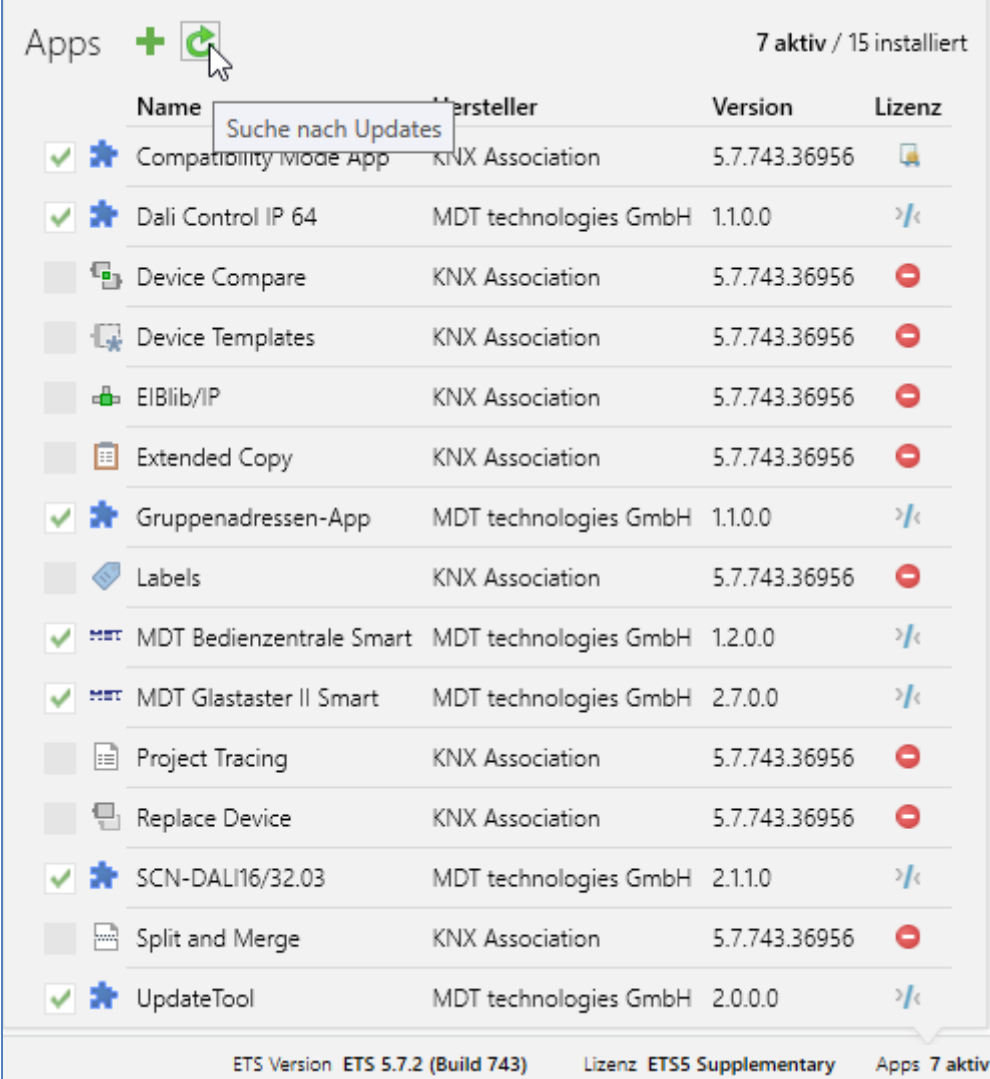
The APPS window now shows the installed app:



How is the DCA App updated?

The DCA App can be updated directly in the ETS.

In the "Apps" window click with the left mouse button on the green "circle with arrow" symbol:





Apps 7 aktiv / 15 installiert

	Name	Hersteller	Version	Lizenz
<input checked="" type="checkbox"/>	Compatibility Mode App	KNX Association	5.7.743.36956	
<input checked="" type="checkbox"/>	Dali Control IP 64	MDT technologies GmbH	1.1.0.0	>/<
<input type="checkbox"/>	Device Compare	KNX Association	5.7.743.36956	⊖
<input type="checkbox"/>	Device Templates	KNX Association	5.7.743.36956	⊖
<input type="checkbox"/>	EIBlib/IP	KNX Association	5.7.743.36956	⊖
<input type="checkbox"/>	Extended Copy	KNX Association	5.7.743.36956	⊖
<input checked="" type="checkbox"/>	Gruppenadressen-App	MDT technologies GmbH	1.1.0.0	>/<
<input type="checkbox"/>	Labels	KNX Association	5.7.743.36956	⊖
<input checked="" type="checkbox"/>	MDT Bedienzentrale Smart	MDT technologies GmbH	1.2.0.0	>/<
<input checked="" type="checkbox"/>	MDT Glastaster II Smart	MDT technologies GmbH	2.7.0.0	>/<
<input type="checkbox"/>	Project Tracing	KNX Association	5.7.743.36956	⊖
<input type="checkbox"/>	Replace Device	KNX Association	5.7.743.36956	⊖
<input checked="" type="checkbox"/>	SCN-DALI16/32.03	MDT technologies GmbH	2.1.1.0	>/<
<input type="checkbox"/>	Split and Merge	KNX Association	5.7.743.36956	⊖
<input checked="" type="checkbox"/>	UpdateTool	MDT technologies GmbH	2.0.0.0	>/<































ETS Version ETS 5.7.2 (Build 743) Lizenz ET55 Supplementary Apps 7 aktiv

If updates are found they can be installed directly. Press the “Install now” button:

Apps   7 aktiv / 15 installiert



Updates sind für eine oder mehrere Apps verfügbar. Zur Installation der Updates muss die ETS5 neu gestartet werden.

[Jetzt installieren](#)

	Name	Hersteller	Version	Lizenz
<input checked="" type="checkbox"/>	 Compatibility Mode App	KNX Association	5.7.743.36956	
<input checked="" type="checkbox"/>	 Dali Control IP 64	MDT technologies GmbH	1.1.0.0	
<input type="checkbox"/>	 Device Compare	KNX Association	5.7.743.36956	
<input type="checkbox"/>	 Device Templates	KNX Association	5.7.743.36956	
<input type="checkbox"/>	 EIBlib/IP	KNX Association	5.7.743.36956	
<input type="checkbox"/>	 Extended Copy	KNX Association	5.7.743.36956	
<input checked="" type="checkbox"/>	 Gruppenadressen-App	MDT technologies GmbH	1.1.0.0	
<input type="checkbox"/>	 Labels	KNX Association	5.7.743.36956	
<input checked="" type="checkbox"/>	 MDT Bedienzentrale Smart	MDT technologies GmbH	1.2.0.0	
<input checked="" type="checkbox"/>	 MDT Glastaster II Smart	MDT technologies GmbH	2.7.0.0	
<input type="checkbox"/>	 Project Tracing	KNX Association	5.7.743.36956	
<input type="checkbox"/>	 Replace Device	KNX Association	5.7.743.36956	
<input checked="" type="checkbox"/>	 SCN-DALI16/32.03	MDT technologies GmbH	2.1.1.0	
<input type="checkbox"/>	 Split and Merge	KNX Association	5.7.743.36956	
<input checked="" type="checkbox"/>	 UpdateTool	MDT technologies GmbH	Update verfügbar	

ETS Version **ETS 5.7.2 (Build 743)** Lizenz **ETSS Supplementary** Apps **7 aktiv**

The new version is displayed after the update.

<input checked="" type="checkbox"/>	 UpdateTool	MDT technologies GmbH	2.9.0.0	
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How to update a device?

In the DCA App the current firmware of the device is first read out and compared to see if there is a more recent firmware.

If there is a newer firmware available it can be installed simply by clicking on "Update Device".

Please note that during the update process do not leave the DCA Tool. The update may otherwise be aborted!

The screenshot displays the 'MDT Update Tool' interface. At the top right, it shows 'App Version: 3.9'. The main area contains the following information:

Firmware version of the device	4.3
Newest version of Firmware	4.7

Below this, it states 'Update available!' and features an 'Update Device' button. To the right of this button is a checked checkbox labeled 'Download application-program after update process.'.

At the bottom of the main area, there is a red warning: 'Attention: Do not leave the DCA during the update process.' To the left of this warning is a 'History' button, and to the right is a 'Select alternative firmware' button.

Below the warning, the following text is displayed:

R313/R47/R55
Datum: 04.09.2020
Bugfix: TW2 sporadic error on HCL/lock, switch-on value after bus voltage recovery
Improvement: save scenes, HCL without time (only R5.x)

At the very bottom of the interface, there is a navigation bar with three tabs: 'Parameters', 'Group Objects', and 'DCA'.

Update failed (Bootloader Mode)

If the update is aborted, the device starts in bootloader mode.

The physical address remains the same.

In this case it should be possible to restart the update, if necessary restart the ETS once and trigger the version check of the device again.

Then the device should report with the bootloader version 0.1/0.2 or 0.3.

In no case the device will write itself out of order, but remains stuck in bootloader mode.

Here it makes no sense to try to assign a new physical address.

Updates can fail if the DCA app is left during the update, the bus traffic is too high or there are problems with the interface.