

OCTOBER 2020

ABB RoomTouch® KNX and DALI Light Control

Online Learning Session – Competence Center Europe – Smart Buildings

Thorsten Reibel, Jürgen Schilder, Stefan Grosse, Martin Wichary & Olaf Stutzenberger

Webinar – Competence Center Europe - Smart Buildings

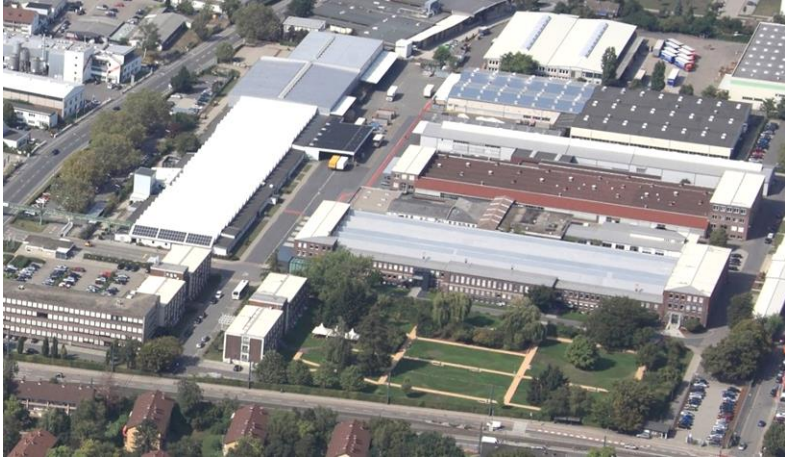
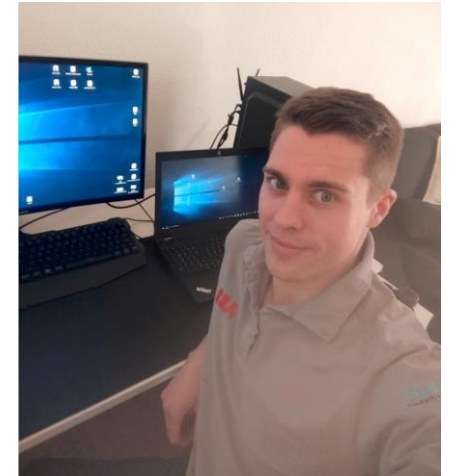


ABB STOTZ-KONTAKT GmbH
Heidelberg / Germany

From home office to home office



ABB Busch-Jaeger
Luedenscheid /
Germany



Agenda

ABB RoomTouch®

Introduction

Control element “RGBW Control – RGB”

Control element “RGBW Control – WW/CW”



ABB RoomTouch® KNX and DALI Light Control

Introduction

ABB RoomTouch® KNX and DALI Light Control

Introduction

ABB RoomTouch® KNX

Easy operation, easy commissioning, easy installation according to customer desire, regardless of private home, meeting room or hotel

- Small touch displays to control rooms are upcoming
- A touch panel is more flexible than a static push-button
- Lots of functions on a small space
- High quality of material:
 - Glass
 - Metal
- Known smartphone control concept by wiping up/down left/right



ABB RoomTouch® KNX and DALI Light Control

Introduction

ABB RoomTouch® KNX

- ABB RoomTouch® will expand our range by an additional high-quality KNX Touch panel
- One device and two colors (black and white)
- One Panel that can be mounted portrait and landscape
- New operating concept for quick operation of your lights, blinds, temperature, scenes and audio
- Flat, good looking device with enough functions for a room and for the right price
- Integrated temperature sensor
- Proximity sensor will switch on the device when I am near to it
- Quick switch off when the room is dark (bedroom application)
- Commission via ETS and DCA

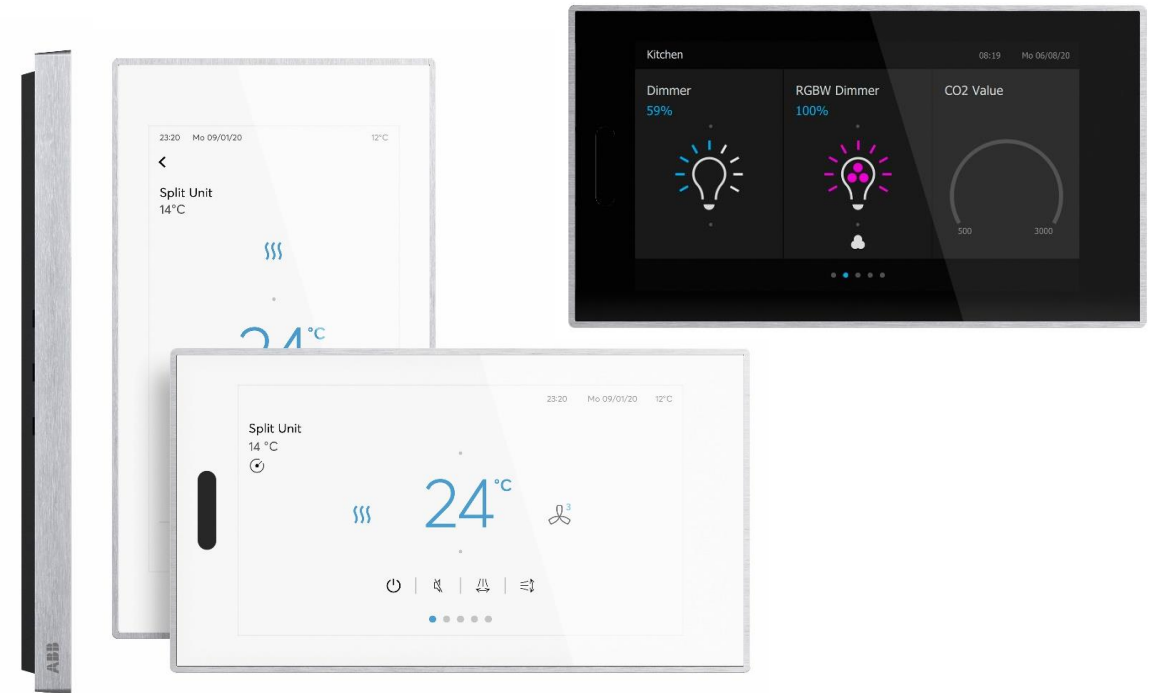


ABB RoomTouch® KNX and DALI Light Control

Several units in one room, e.g. lighting, dimming, shutters, air conditioning, audio/video, ...



Source: Internet

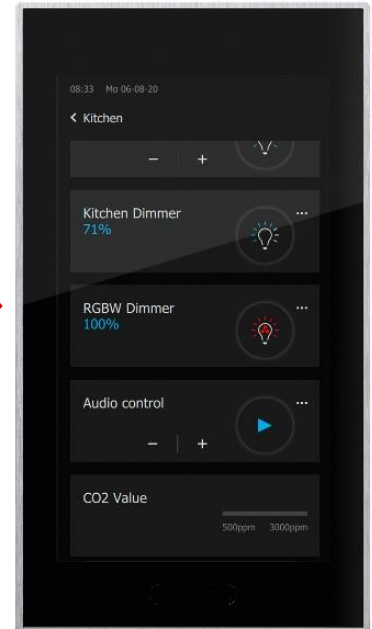
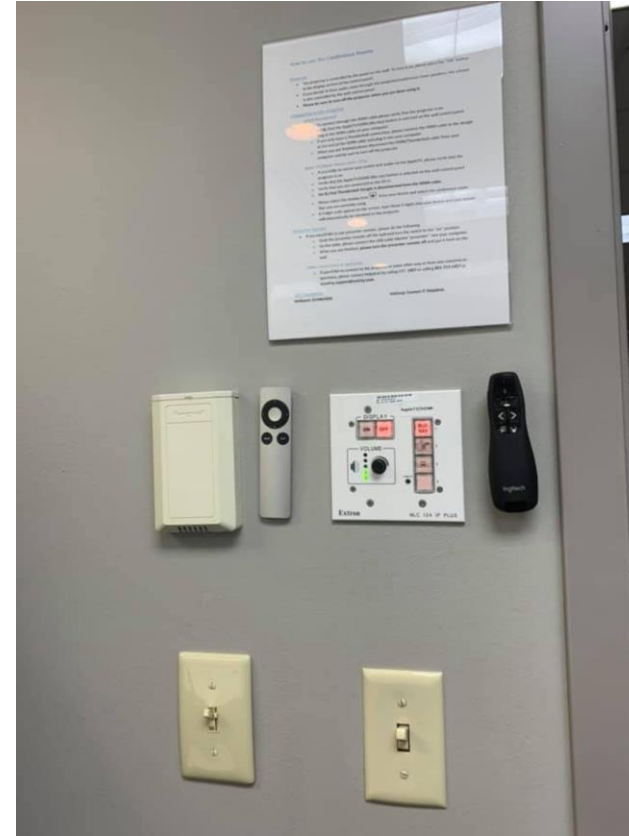


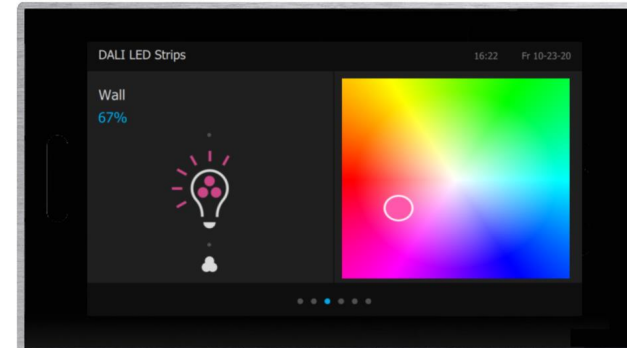
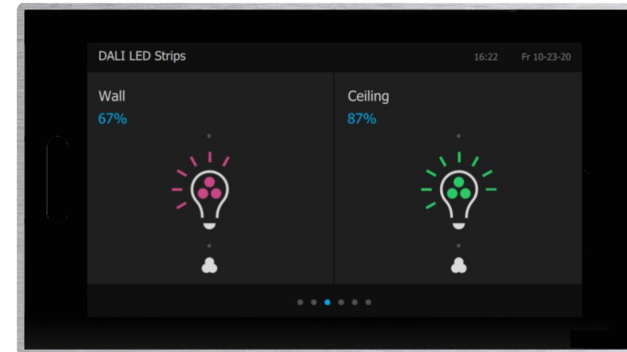
ABB RoomTouch® KNX and DALI Light Control

Introduction

ABB RoomTouch® KNX

Maximum of 30 control elements

- Switch
- Dimmer (4-bit and 8-bit)
- Shutter
- RTC
- Scene
- Value
- Display element
- Audio control
- Split unit control
- Fan speed control
- **RGB(W) / White colour control (WW/CW)**
- ...



Control element: RGB



Control element:
WW/CW

ABB RoomTouch® KNX and DALI Light Control

Introduction

ABB RoomTouch® KNX

Webinar about installation, operating concept, commissioning with DCA, ... (Sept. 2020)

- Presentation → [Link](#)
- Video recording → [Link](#)

Homepage

- www.abb.com/knx → Visualisation, Display and Signalling
 - Product Manual
 - Installation and Operating Instructions
 - ETS Application (*.knxprod)
 - ETS App ABB Touch DCA (*.etsapp)
 - ...

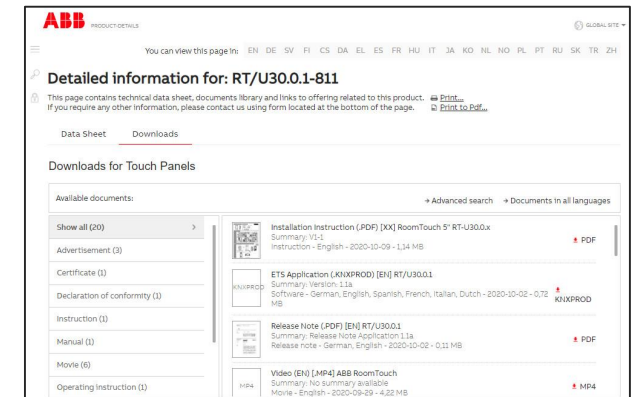


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Overview DALI Light Control with KNX DALI Gateway Premium DG/S x.64.5.1

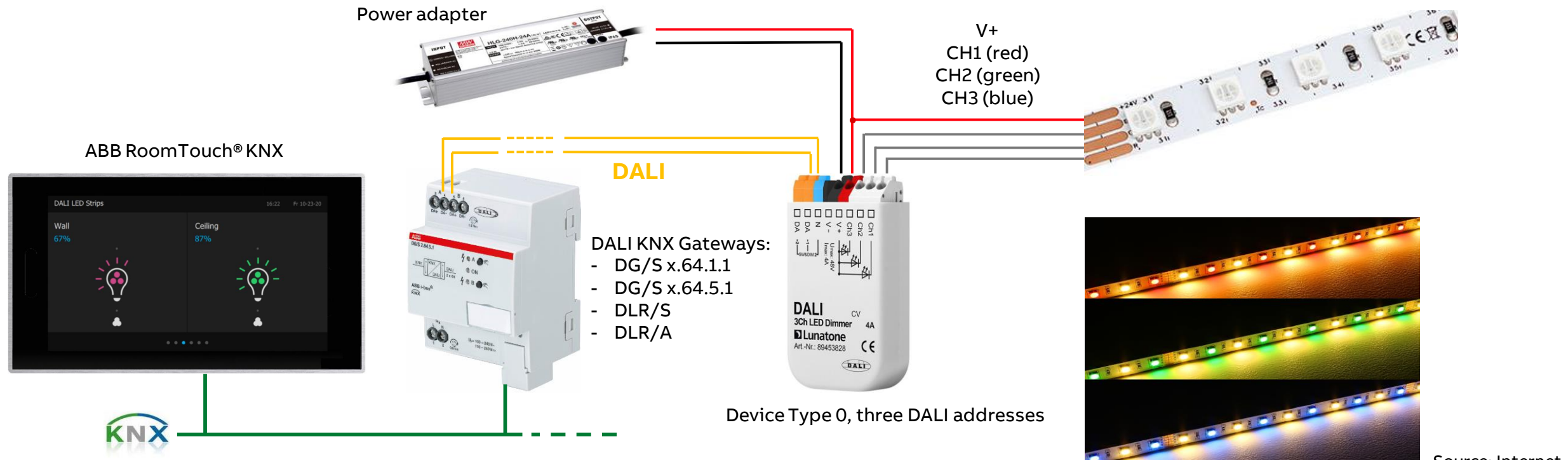


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Overview KNX DALI Gateways DG/S x.64.x.1

KNX DALI Gateways Basic DG/S x.64.1.1 (one or two channels)

- Flexible combination of DALI groups or single control
- ABB i-bus® tool support
- Emergency Lighting
- Templates

KNX DALI Gateways Premium DG/S x.64.5.1 (one or two channels)

- All Functions of DG/S x.64.1.1 Basic plus
- **Tunable White (device type 8)**
- Human Centric Lighting
- Dim2Warm
- Standby Shutdown
- ... and more



DG/S 1.64.1.1



DG/S 2.64.1.1



DG/S 1.64.5.1



DG/S 2.64.5.1

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

KNX DALI Gateways DG/S x.64.x.1

Webinars and Online Learning Sessions (dim2warm, HCL, emergency lighting, ...)

– Training & Qualification Database: Webinar slides and videos

- <https://go.abb/ba-training>
- www.abb.com/knx (→ Services & Tools → Training and Qualification → Training Database)
- YouTube Channel “ABB Home and Building Automation”
<https://www.youtube.com/user/ABBibusKNX>

Homepage

- www.abb.com/knx → Lighting Control → DALI Gateways
- Product Manual
- ETS Application (*.knxprod)
- ...

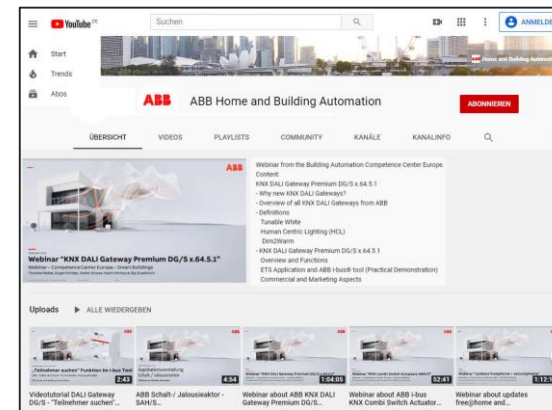
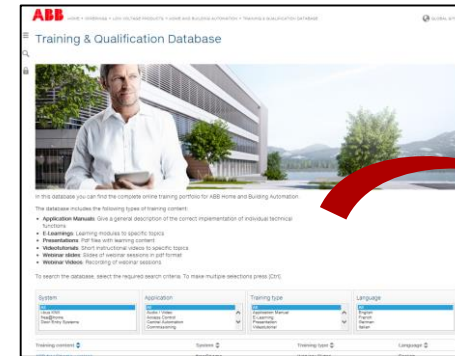


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Commissioning with the ETS

- The ABB RoomTouch® is parameterized with the “ABB Touch DCA” (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view

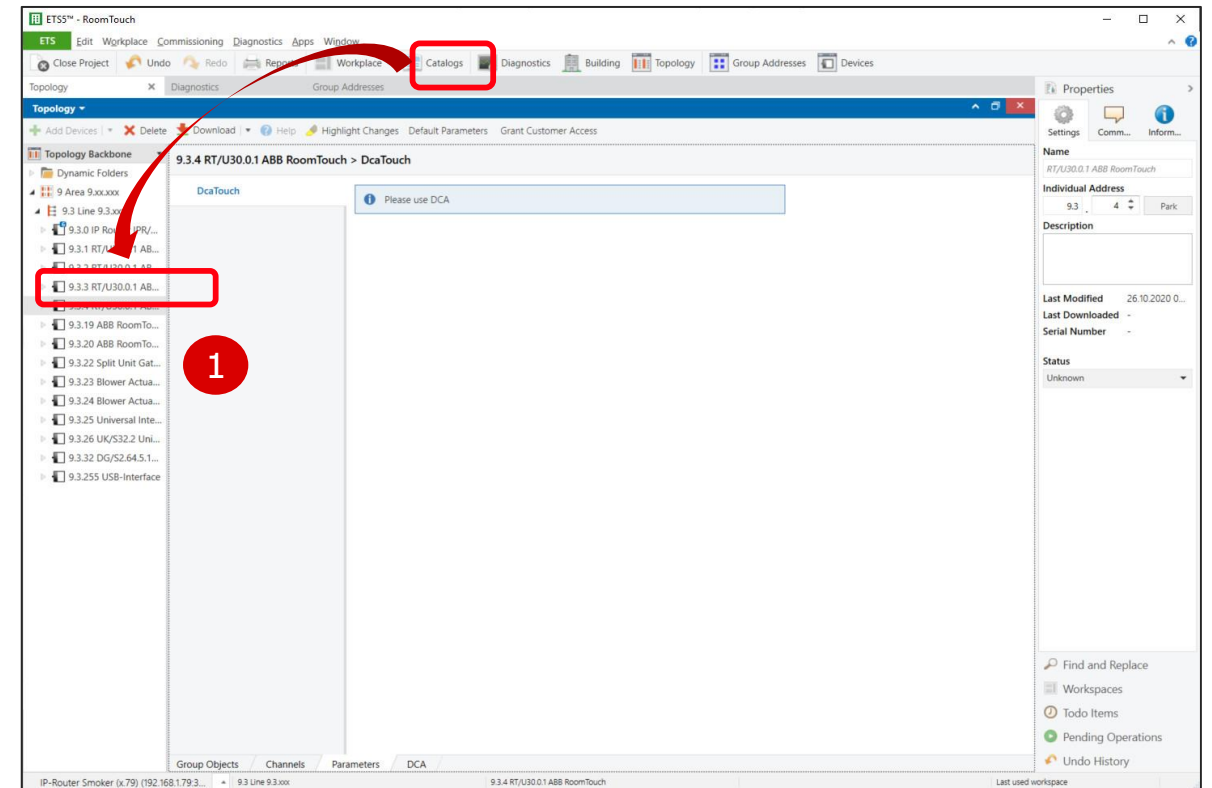


ABB RoomTouch® KNX and DALI Light Control

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- Click on the “DCA” tab and start the commissioning

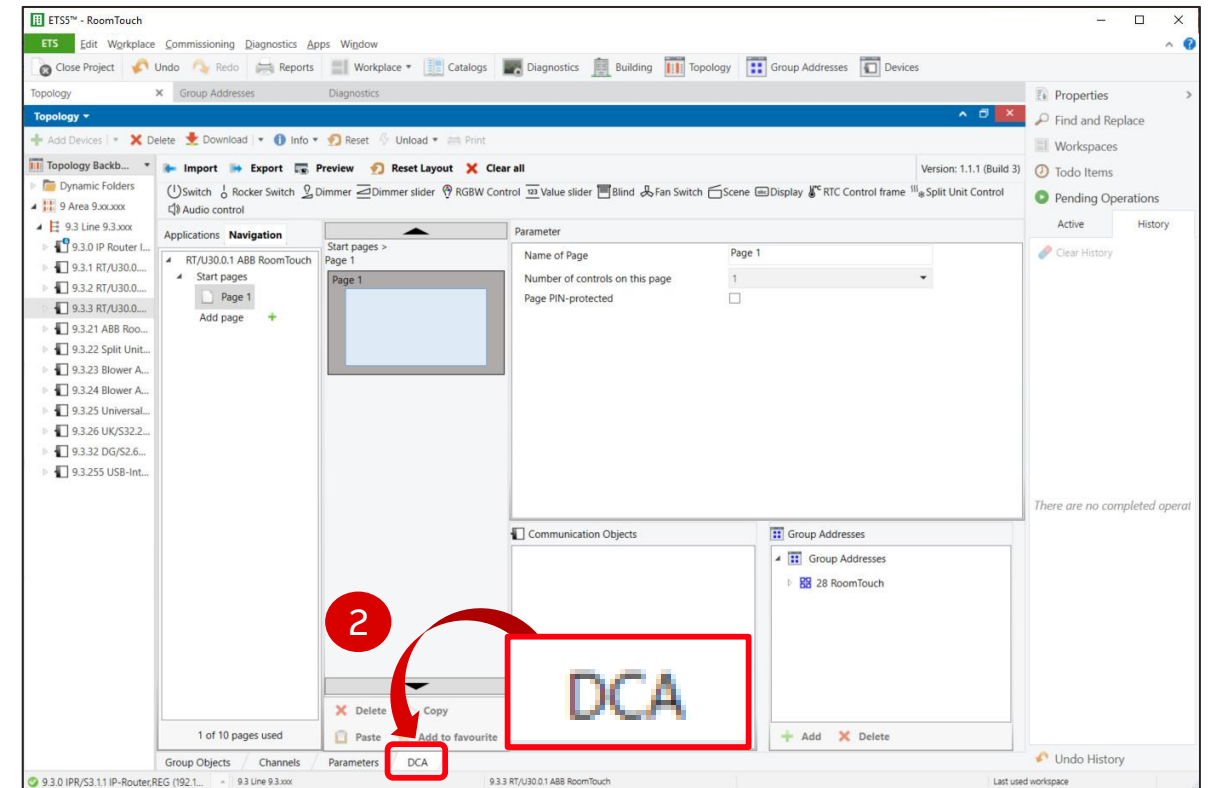


ABB RoomTouch® KNX and DALI Light Control

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- Add ABB RoomTouch to the building or topology view
- Click on the “DCA” tab and start the commissioning
 - Drag the control element “RGBW Control” from the task bar to the field of the page

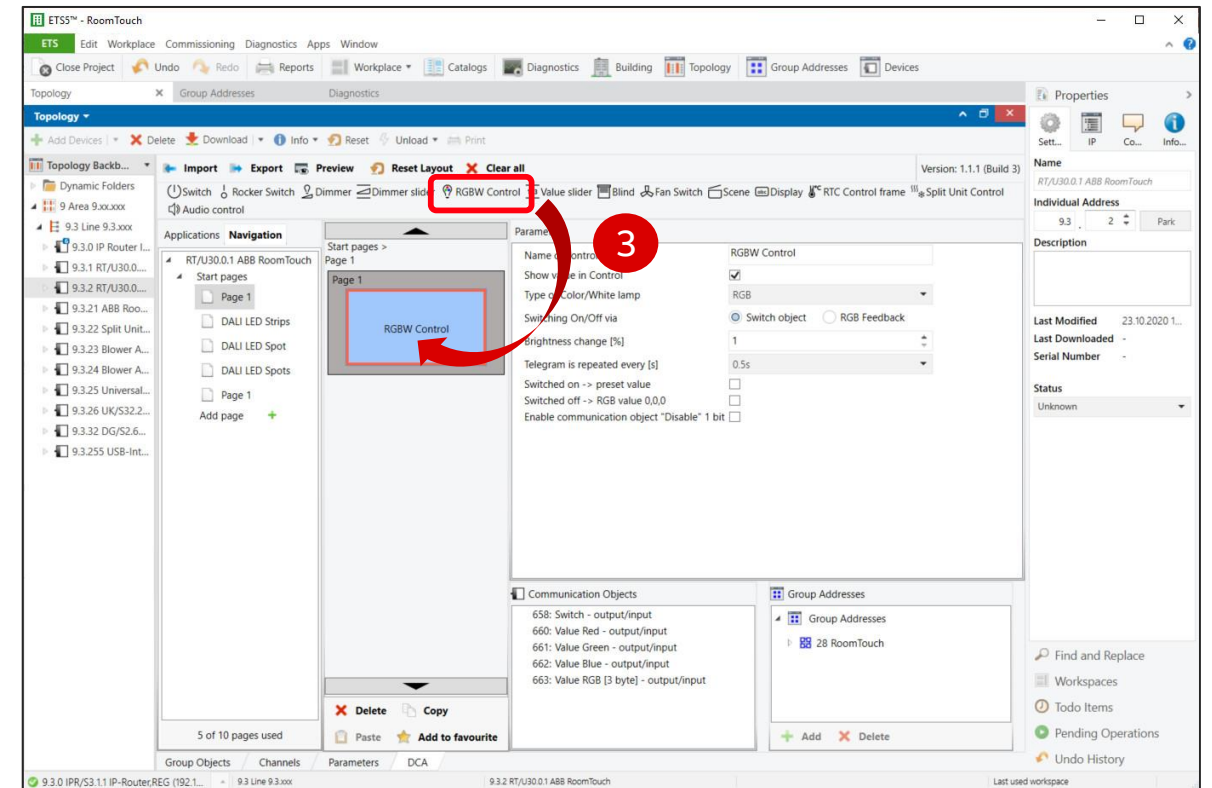


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

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- Add ABB RoomTouch to the building or topology view
- Click on the “DCA” tab and start the commissioning
 - Drag the control element “RGBW Control” from the task bar to the field of the page
 - Set the parameters

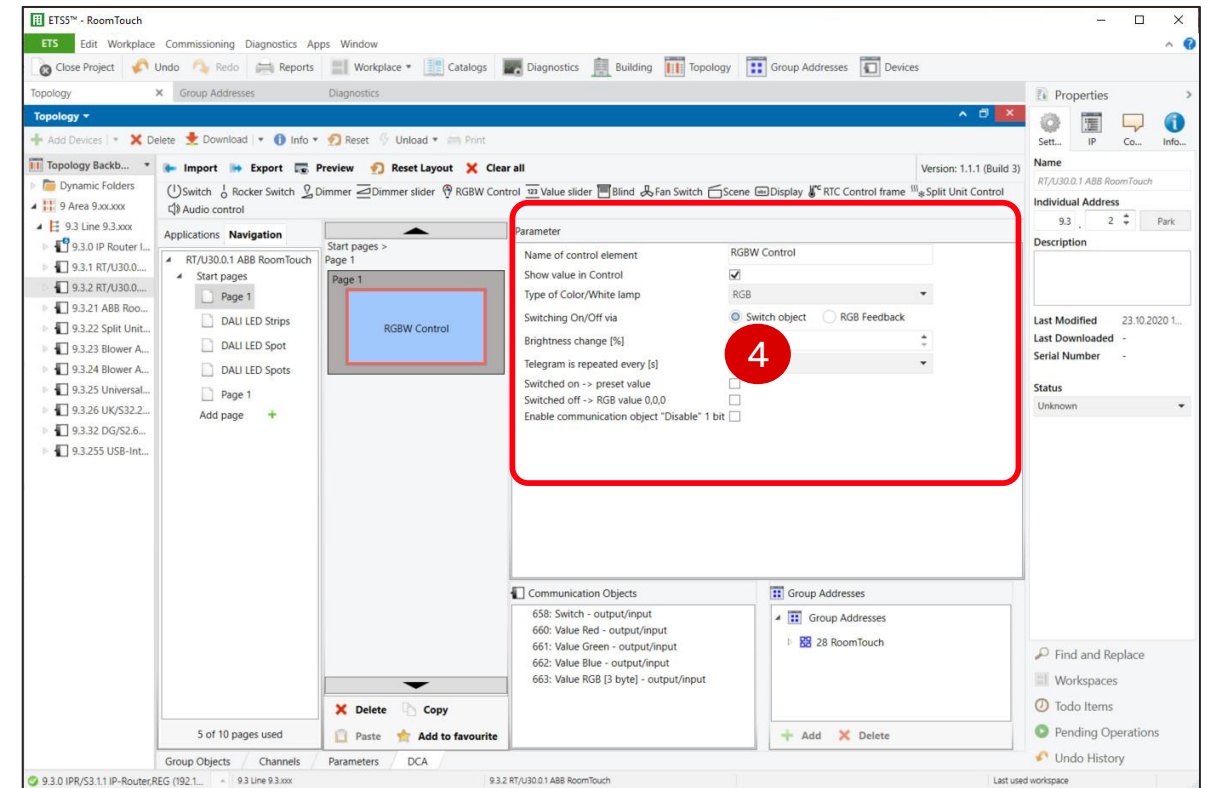


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Commissioning with the ETS

- The ABB RoomTouch® is parameterized with the “ABB Touch DCA” (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the “DCA” tab and start the commissioning
 - Drag the control element “RGBW Control” from the task bar to the field of the page
 - Set the parameters
 - Link group addresses
 - Download individual address and application
 - ...

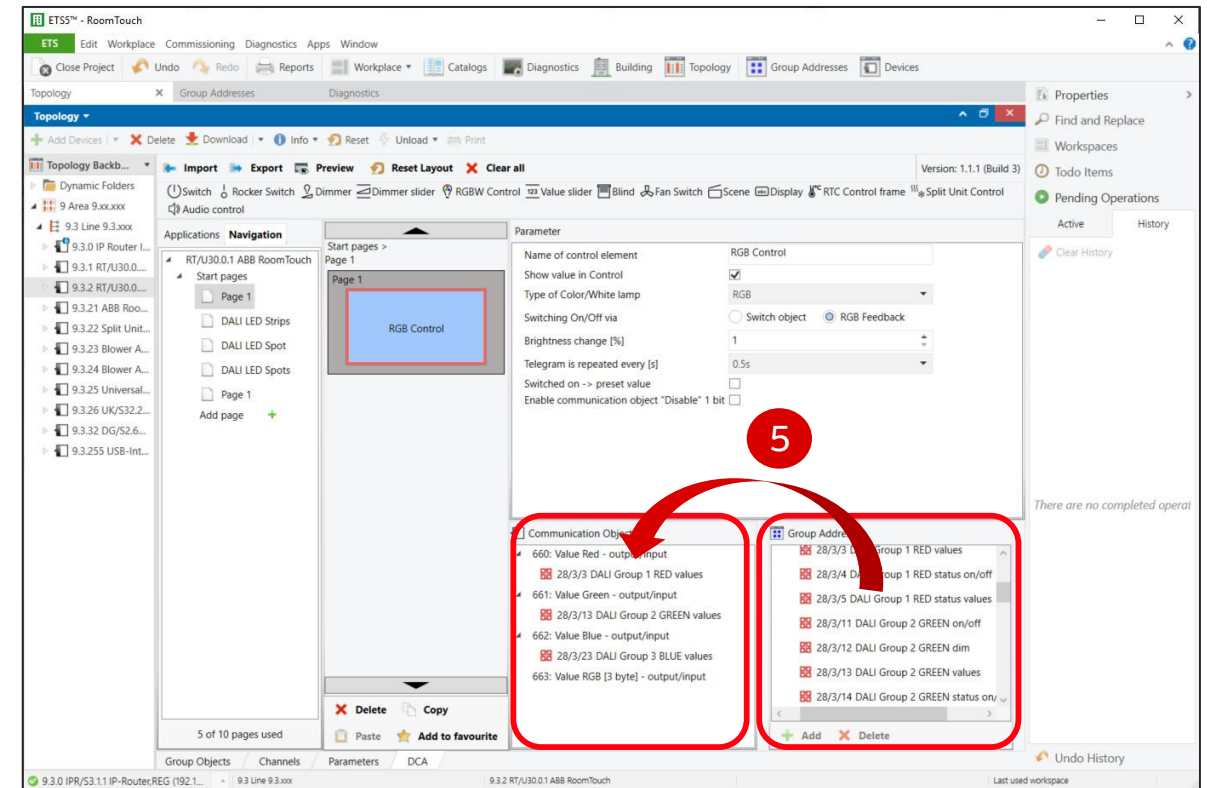


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameters 1/2

- Name of the control element
- Show value in control (RGB brightness value)
- Type of colour/white lamp:
 - **RGB**
 - RGB+W
 - RGB+WW/CW
 - WW/CW
- Switching On/Off via:
 - Switch object (additional 1 bit group object)
 - **RGB feedback**

Parameter	
Name of control element	RGB Control
Show value in Control	<input checked="" type="checkbox"/>
Type of Color/White lamp	RGB
Switching On/Off via	<input type="radio"/> Switch object <input checked="" type="radio"/> RGB Feedback
Brightness change [%]	1
Telegram is repeated every [s]	0.5s
Switched on -> preset value	<input type="checkbox"/>
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameters 2/2

- Brightness change [%]
- Telegram is repeated every [sec.]
- Switched On → preset value
- Enable communication object “Disable”

Parameter	
Name of control element	RGB Control
Show value in Control	<input checked="" type="checkbox"/>
Type of Color/White lamp	RGB
Switching On/Off via	<input type="radio"/> Switch object <input checked="" type="radio"/> RGB Feedback
Brightness change [%]	1
Telegram is repeated every [s]	0.5s
Switched on -> preset value	<input type="checkbox"/>
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameter “Switched On → preset value”

- The stored preset value is sent when the lamp is switched on
- The preset value is saved directly on the ABB RoomTouch® KNX
 - Set the desired RGB colour and brightness
 - Press and hold your finger on the light icon → A blue bar runs on the upper screen
 - A check mark indicates that the new preset value has been saved

Parameter	
Name of control element	DALI RGB Control
Telegram is repeated every [s]	0.5s
Switched on -> preset value	<input checked="" type="checkbox"/>
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

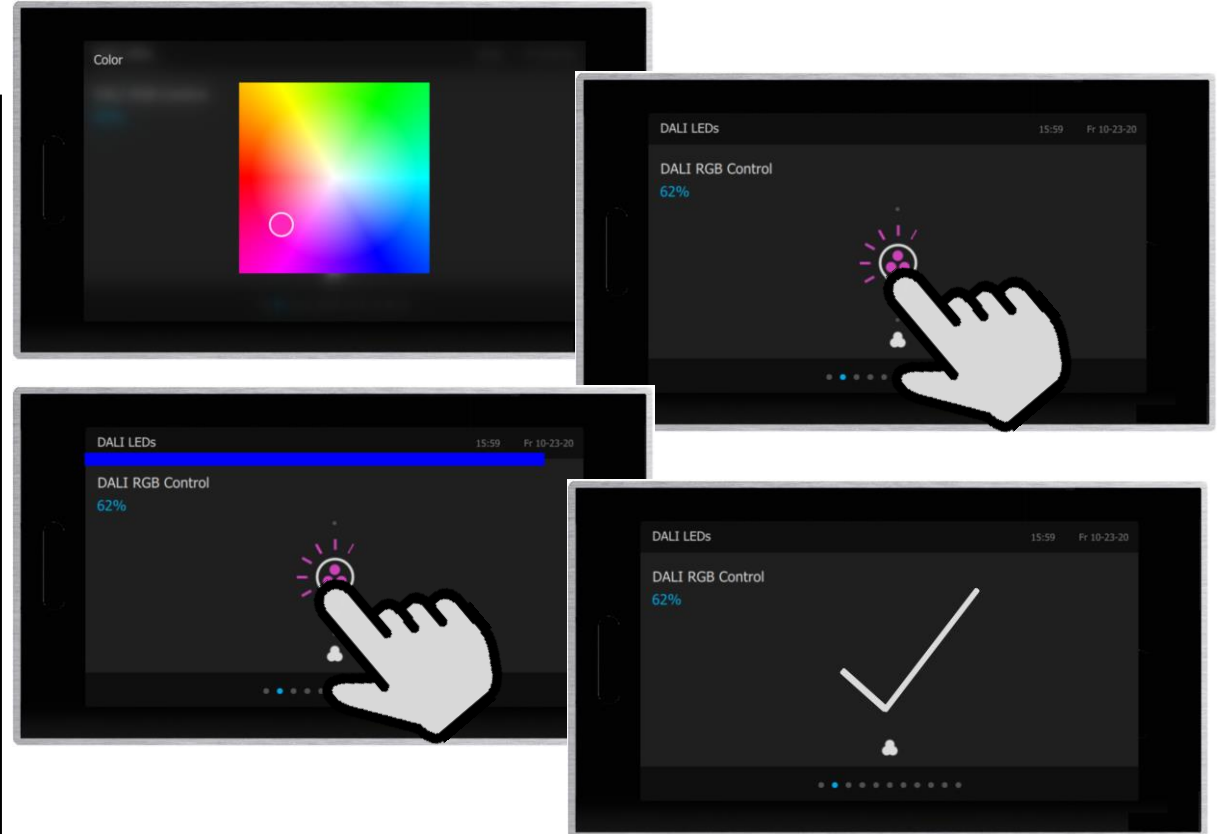


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameters – Example RGB: Assignment of Group Addresses

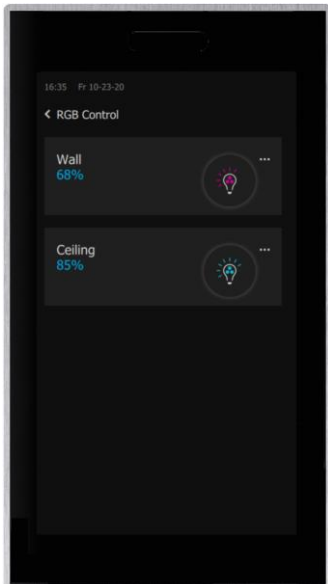


ABB RoomTouch	RGBW Control	RGB	...
			Value Red (1 byte output/input)
			Value Green (1 byte output/input)
			Value Blue (1 byte output/input)
			Value RGB (3 byte output/input)
			...

...	Ballast / group X	DALI Gateway
Group 1 – Brightness value		
Group 2 – Brightness value		
Group 3 – Brightness value		
...		

Group 1: RED
Group 2: GREEN
Group 3: BLUE



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameters – Example RGB: Assignment of Group Addresses

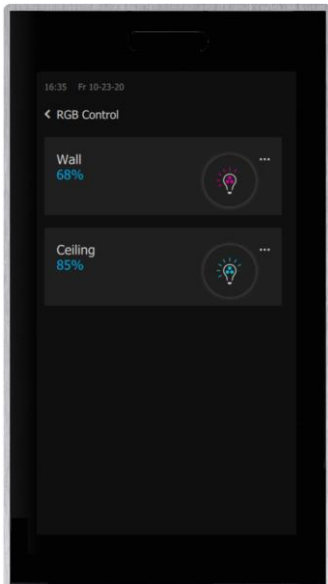


ABB RoomTouch	RGBW Control	RGB	...
			Value Red (1 byte output/input)
			Value Green (1 byte output/input)
			Value Blue (1 byte output/input)
			Value RGB (3 byte output/input)
			...



...	Ballast / group X	DALI Gateway
Group 1 – Brightness value		
Group 2 – Brightness value		
Group 3 – Brightness value		
...		
...		

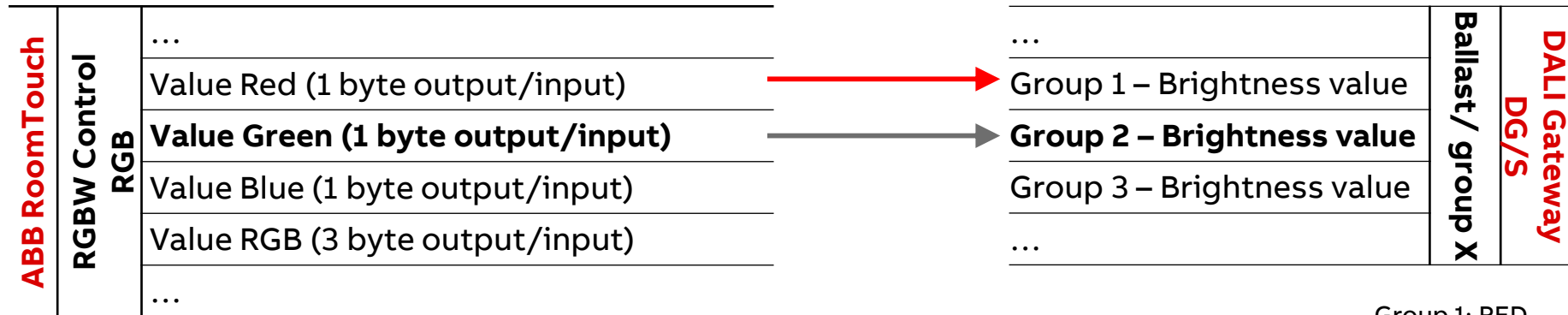
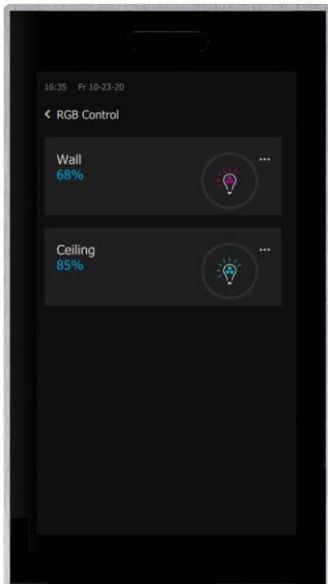
Group 1: RED
Group 2: GREEN
Group 3: BLUE



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameters – Example RGB: Assignment of Group Addresses



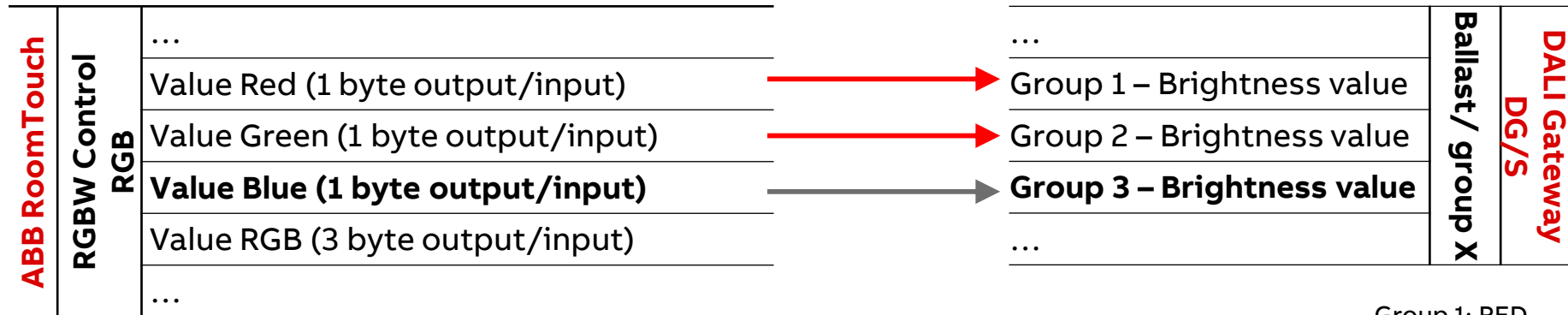
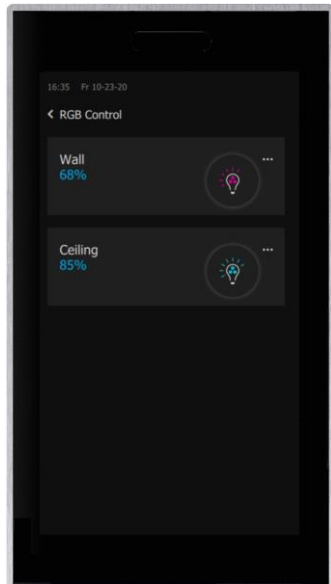
Group 1: RED
Group 2: GREEN
Group 3: BLUE



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameters – Example RGB: Assignment of Group Addresses



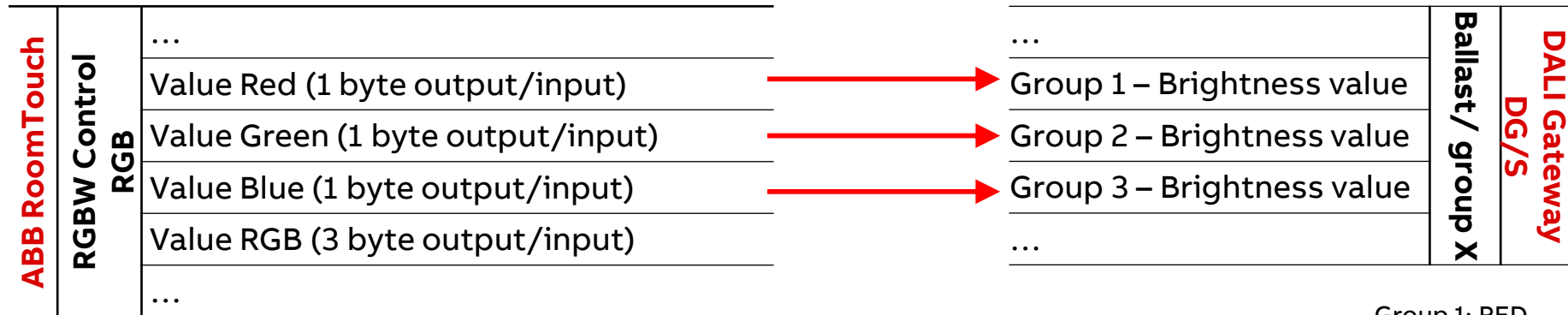
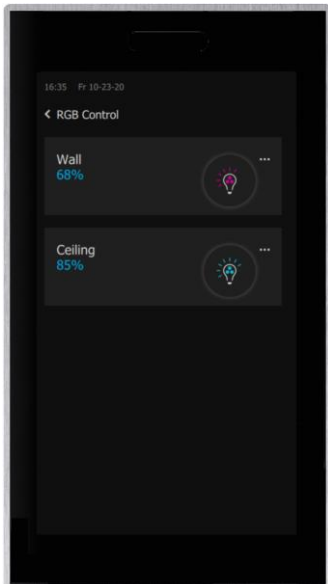
Group 1: RED
Group 2: GREEN
Group 3: BLUE



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Parameters – Example RGB: Assignment of Group Addresses



Ballast / group X
DG/S
DALI Gateway



Group 1: RED
Group 2: GREEN
Group 3: BLUE

#	*	Time	Se	Fla	Pri	Source	Source Name	Destinat	Destination Name	Type	DPT	Info
1		23.10.2020 15:32:08,518	fr...	L...	9.3.21	ABB RoomTouch RT/U30.0.1	28/3/3	DALI Group 1 RED values	GroupValueWrite	5.001 perce...\$A8	66 %	
2		23.10.2020 15:32:08,568	fr...	L...	9.3.21	ABB RoomTouch RT/U30.0.1	28/3/13	DALI Group 2 GREEN values	GroupValueWrite	5.001 perce...\$25	15 %	
3		23.10.2020 15:32:08,618	fr...	L...	9.3.21	ABB RoomTouch RT/U30.0.1	28/3/23	DALI Group 3 BLUE values	GroupValueWrite	5.001 perce...\$0C	5 %	
4		23.10.2020 15:32:14,085	fr...	L...	9.3.21	ABB RoomTouch RT/U30.0.1	28/3/3	DALI Group 1 RED values	GroupValueWrite	5.001 perce...\$00	0 %	
5		23.10.2020 15:32:14,134	fr...	L...	9.3.21	ABB RoomTouch RT/U30.0.1	28/3/13	DALI Group 2 GREEN values	GroupValueWrite	5.001 perce...\$00	0 %	
6		23.10.2020 15:32:14,185	fr...	L...	9.3.21	ABB RoomTouch RT/U30.0.1	28/3/23	DALI Group 3 BLUE values	GroupValueWrite	5.001 perce...\$00	0 %	

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Operation and view

The diagram illustrates the operation and view of the ABB RoomTouch RGBW Control interface. It shows three screens:

- Screen 1 (Left):** Shows a list of control elements. The top element is "Wall" with a brightness of 68%. The bottom element is "Ceiling" with a brightness of 85%. Each element has a lightbulb icon and a menu icon (three dots).
- Screen 2 (Middle):** Shows the "Wall" control element selected. It displays a color selection wheel with a white circle indicating the current color. Below the wheel is a brightness slider.
- Screen 3 (Right):** Shows the "DALI LED Strips" page. It displays two control elements: "Wall" with a brightness of 67% and "Ceiling" with a brightness of 87%. Each element has a lightbulb icon with colored dots inside, representing the current color.

Labels and annotations:

- Name of page:** Points to the title "DALI LED Strips" at the top of the right screen.
- Name of control element:** Points to the "Wall" label on the left side of the right screen.
- Brightness status:** Points to the "67%" value below the "Wall" label on the right screen.
- Status colour:** Points to the colored dots inside the lightbulb icon for the "Ceiling" element on the right screen.

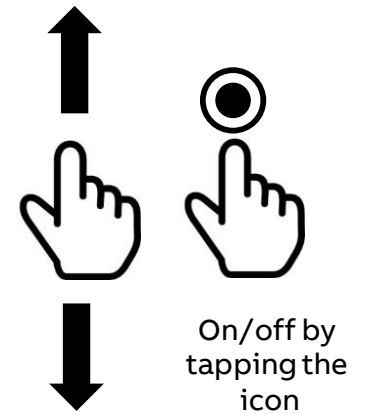
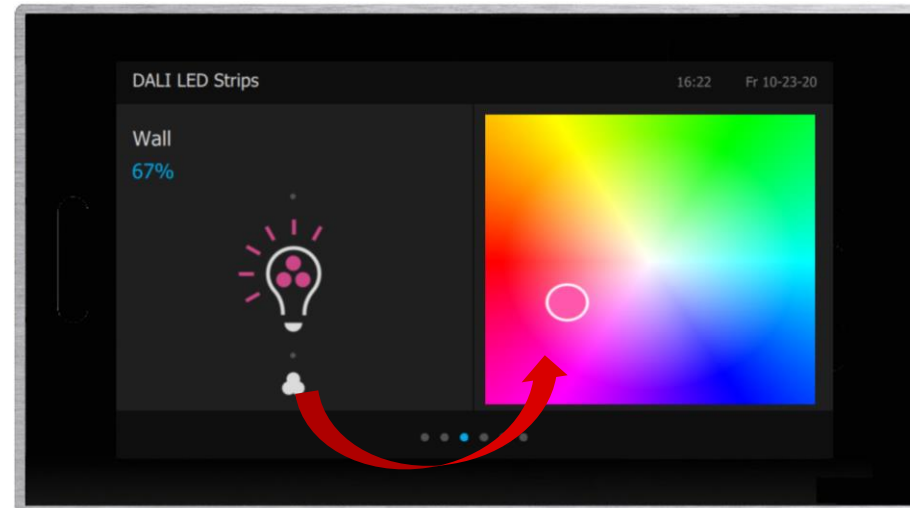
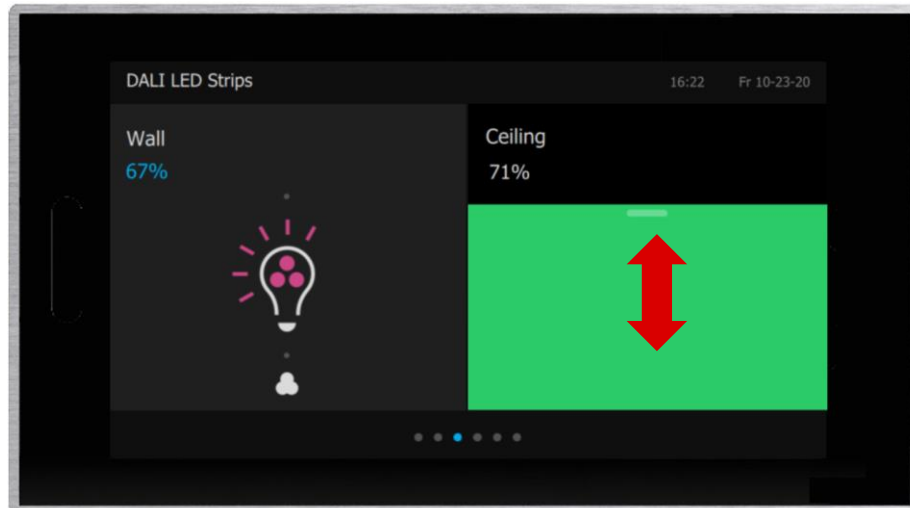
Interaction icons:

- Change brightness or colour level by swiping:** Indicated by a vertical double-headed arrow next to a hand icon.
- On/off by tapping the icon:** Indicated by a hand icon tapping a lightbulb icon.

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – RGB”

Operation and view



Change brightness or colour level by swiping

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Overview DALI Light Control with KNX DALI Gateway Premium DG/S x.64.5.1

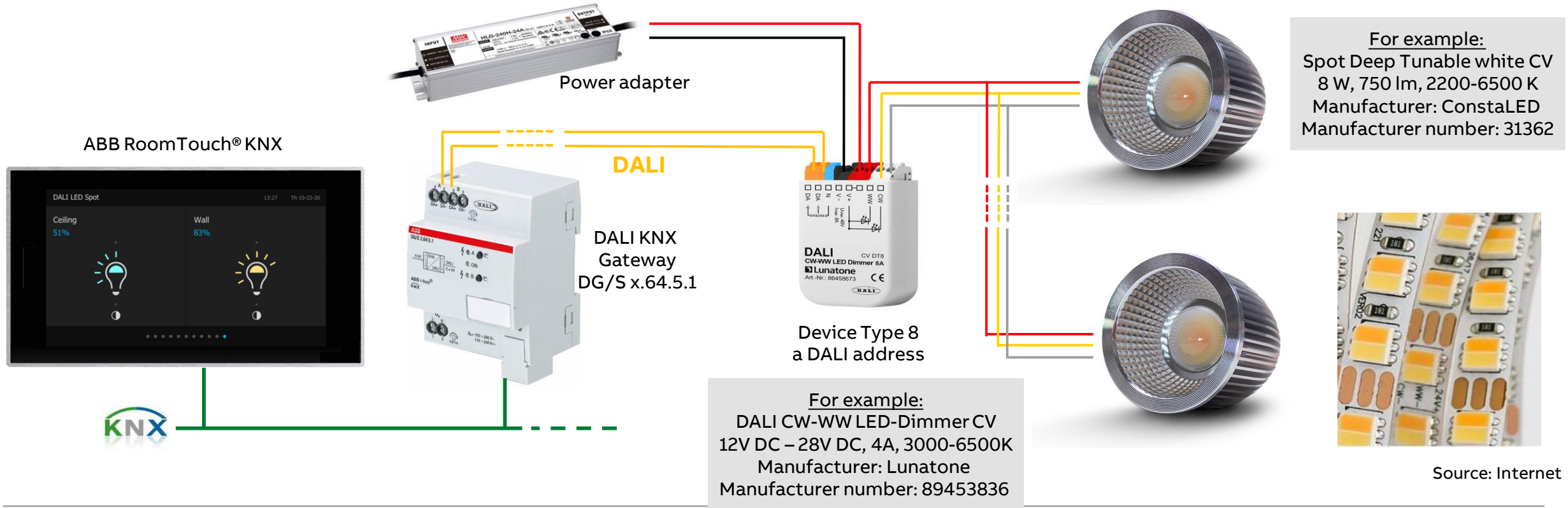


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Overview KNX DALI Gateway Premium DG/S x.64.5.1

Two devices

- DG/S 1.64.5.1 (one channel, 64 ballasts)
- DG/S 2.64.5.1 (two independent channels, 2 x 64 ballasts)
 - Flexible combination of DALI groups or single control
 - ABB i-bus® tool support
 - Emergency Lighting
 - Templates
 - **Tunable White (device type 8)**
 - Human Centric Lighting
 - Dim2Warm
 - Standby Shutdown
 - ... and more



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Commissioning with the ETS

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- Add ABB RoomTouch to the building or topology view

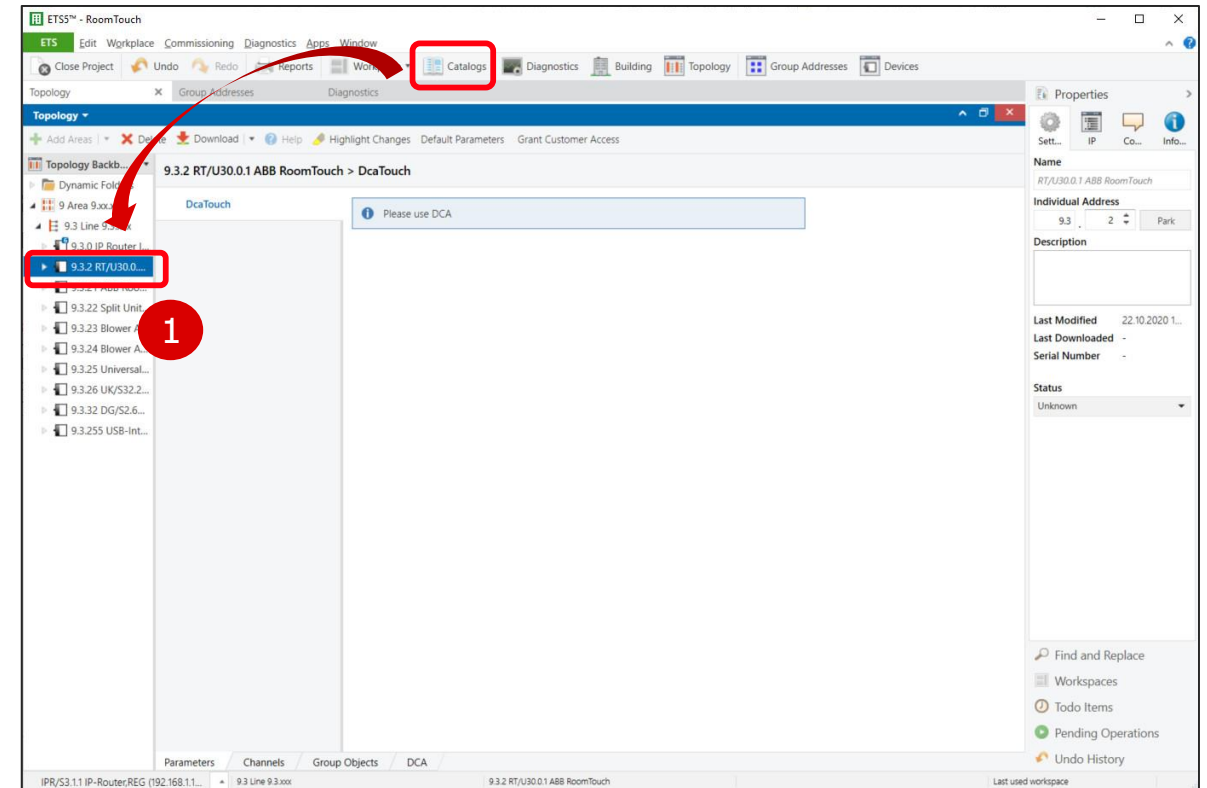


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Commissioning with the ETS

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- Add ABB RoomTouch to the building or topology view
- Click on the “DCA” tab and start the commissioning

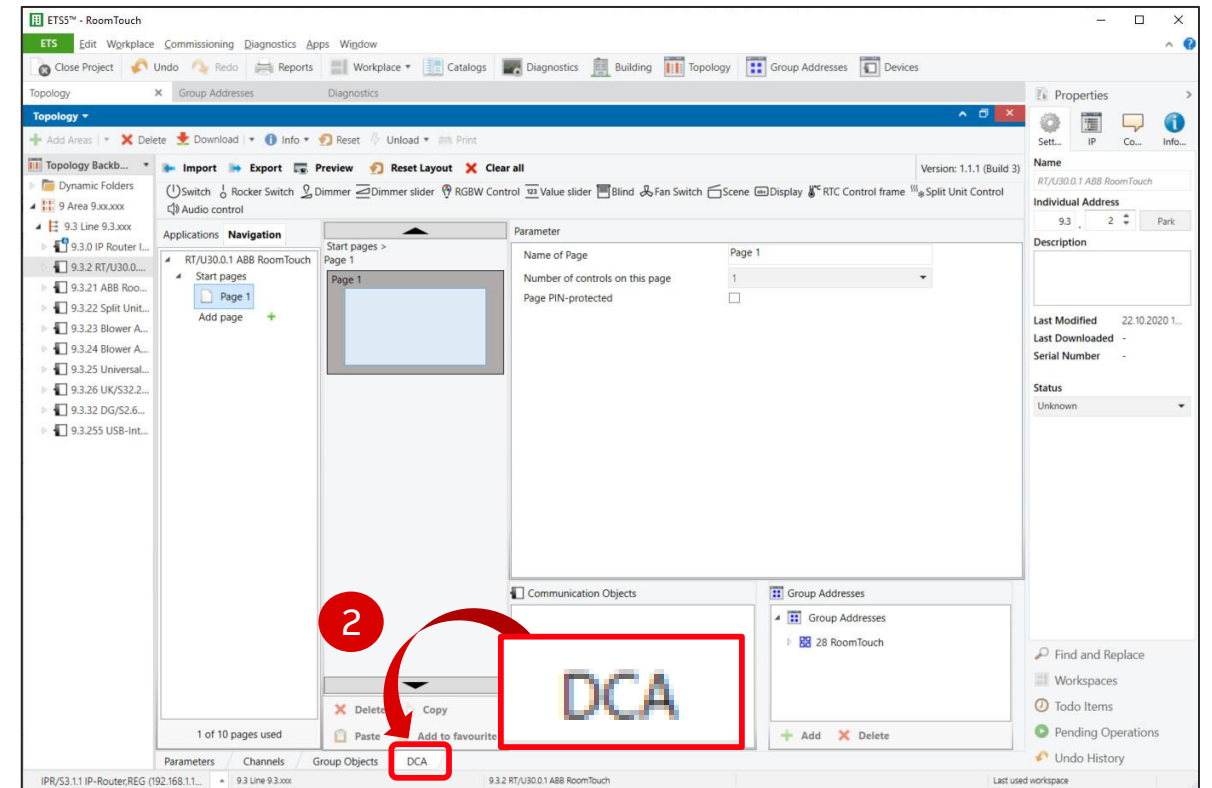


ABB RoomTouch® KNX and DALI Light Control

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 - Drag the control element “RGBW Control” from the task bar to the field of the page

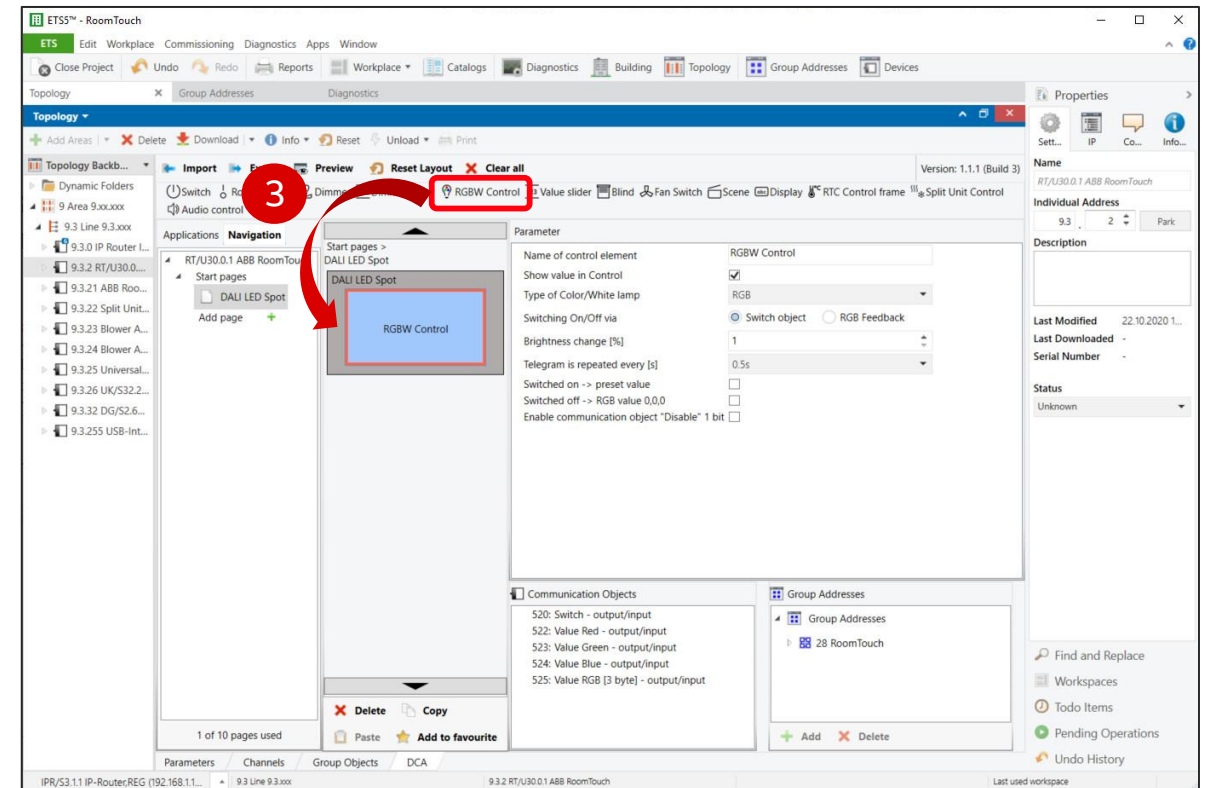


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 - Set the parameters

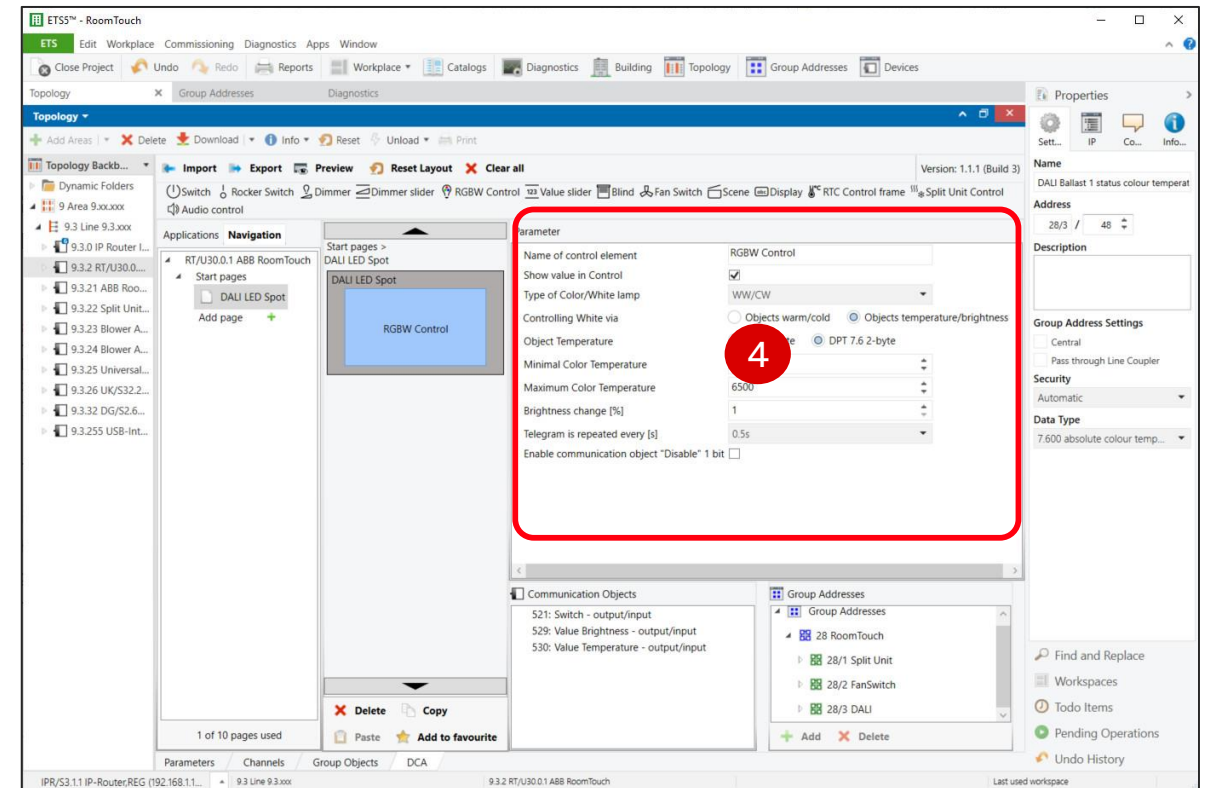


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 - Set the parameters
 - Link group addresses
 - Download individual address and application
 - ...

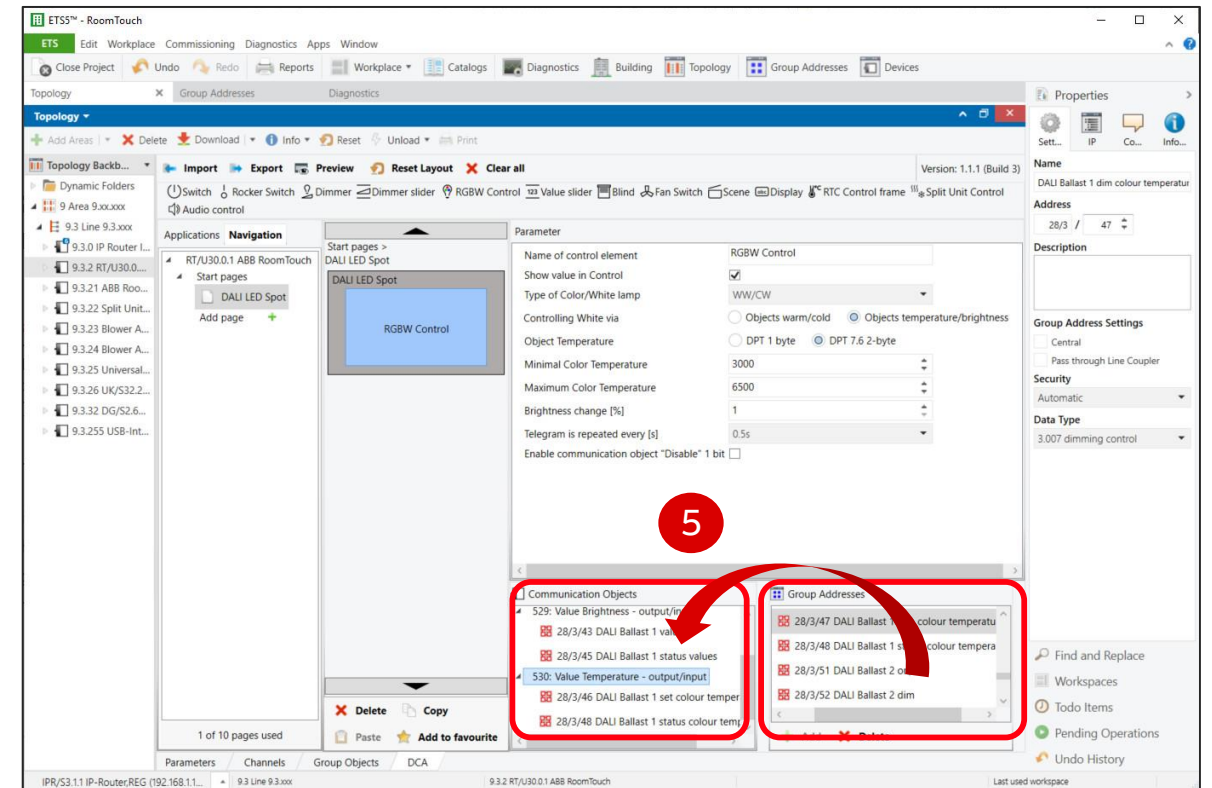


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters 1/2

- Name of the control element (max. 36 characters)
- Show value in control (RGBW brightness value)
- Type of colour/white lamp: WW/CW
- Controlling white via:
 - “Objects warm/cold”
1 byte group objects “value warm white” and “value cold white”
 - “Objects temperature/brightness” – “DPT 1 byte”
1 byte group objects “value brightness” and “value temperature”
 - **“Objects temperature/brightness” – “DPT 7.600 2 byte”**
1 byte group object “value brightness” and 2 byte “value temperature”
DPT 7.600 “Absolute Colour Temperature” contains the absolute colour temperature (K)
→ preferred!

Parameter	
Name of control element	Tunable white (WW/CW)
Show value in Control	<input checked="" type="checkbox"/>
Type of Color/White lamp	WW/CW
Controlling White via	<input type="radio"/> Objects warm/cold <input checked="" type="radio"/> Objects temperature/brightness
Object Temperature	<input type="radio"/> DPT 1 byte <input checked="" type="radio"/> DPT 7.6 2-byte
Minimal Color Temperature	3000
Maximum Color Temperature	6500
Brightness change [%]	1
Telegram is repeated every [s]	0.5s
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters 2/2

- Minimum colour temperature*
- Maximum colour temperature*
- Brightness change [%]
- Telegram is repeated every [sec.]
- Enable communication object “Disable”

* Note the data sheet for the DALI driver and LEDs

Parameter	
Name of control element	Tunable white (WW/CW)
Show value in Control	<input checked="" type="checkbox"/>
Type of Color/White lamp	WW/CW
Controlling White via	<input type="radio"/> Objects warm/cold <input checked="" type="radio"/> Objects temperature/brightness
Object Temperature	<input type="radio"/> DPT 1 byte <input checked="" type="radio"/> DPT 7.6 2-byte
Minimal Color Temperature	3000
Maximum Color Temperature	6500
Brightness change [%]	1
Telegram is repeated every [s]	0.5s
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters: Objects temperature/brightness – “DPT 7.600 2 byte” – Example: Assignment of Group Addresses

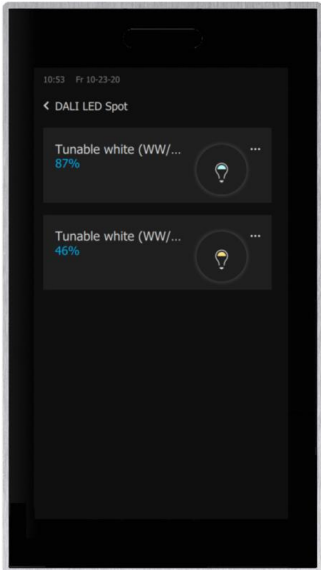


ABB RoomTouch	RGBW Control WW/CW	...
		Switch (1 bit output/input)
		Value brightness (1 byte out/input)
		Value Temperature (2 byte out/input)
		Disable input (1 bit input)
		...

...	Ballast/ group X	DALI Gateway Premium DG/S x.64.5.1
Switch (1 bit)		
Status switch (1 bit)		
Brightness value (1 byte)		
Status Bright. value (1 byte)		
Set colour temperature (K)		
Status colour temperature (K)		
...		

Keycard reader, time switch ,...



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters: Objects temperature/brightness – “DPT 7.600 2 byte” – Example: Assignment of Group Addresses

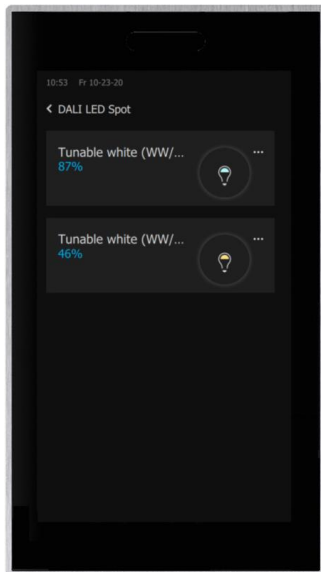


ABB RoomTouch	RGBW Control WW/CW	...
		Switch (1 bit output/input)
		Value brightness (1 byte out/input)
		Value Temperature (2 byte out/input)
		Disable input (1 bit input)
		...

...	Ballast/ group X	DALI Gateway Premium DG/S x.64.5.1
Switch (1 bit)		
Status switch (1 bit)		
Brightness value (1 byte)		
Status Bright. value (1 byte)		
Set colour temperature (K)		
Status colour temperature (K)		
...		

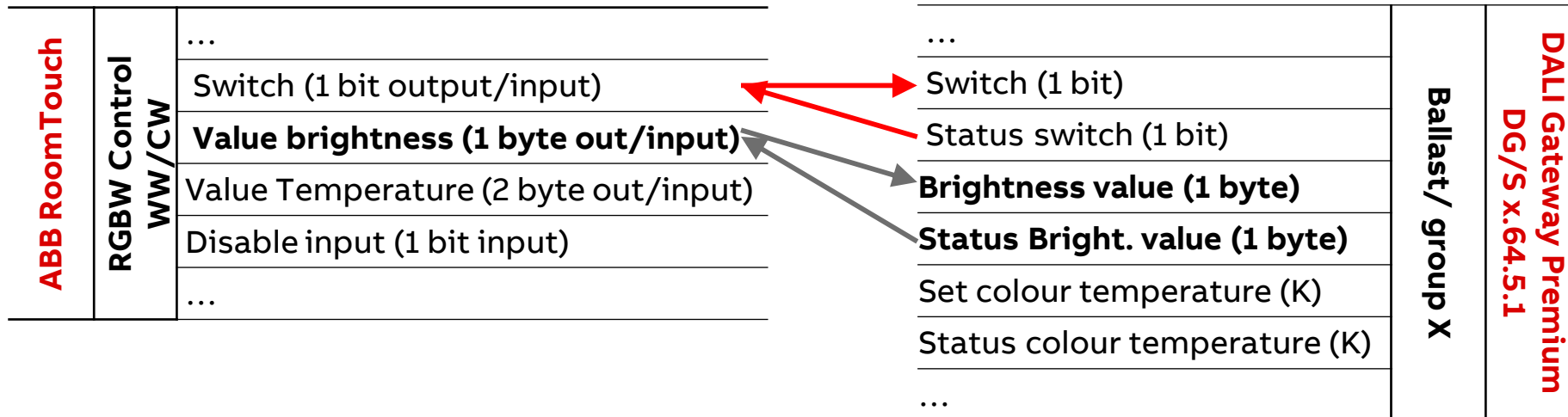
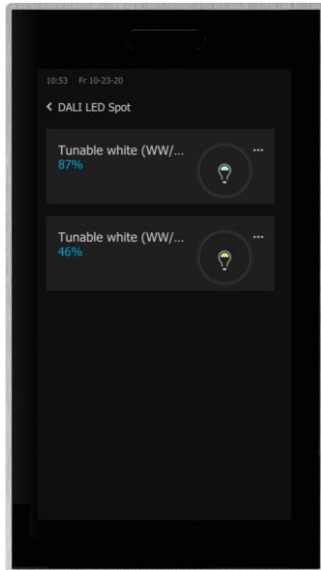
Keycard reader, time switch ,...



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters: Objects temperature/brightness – “DPT 7.600 2 byte” – Example: Assignment of Group Addresses

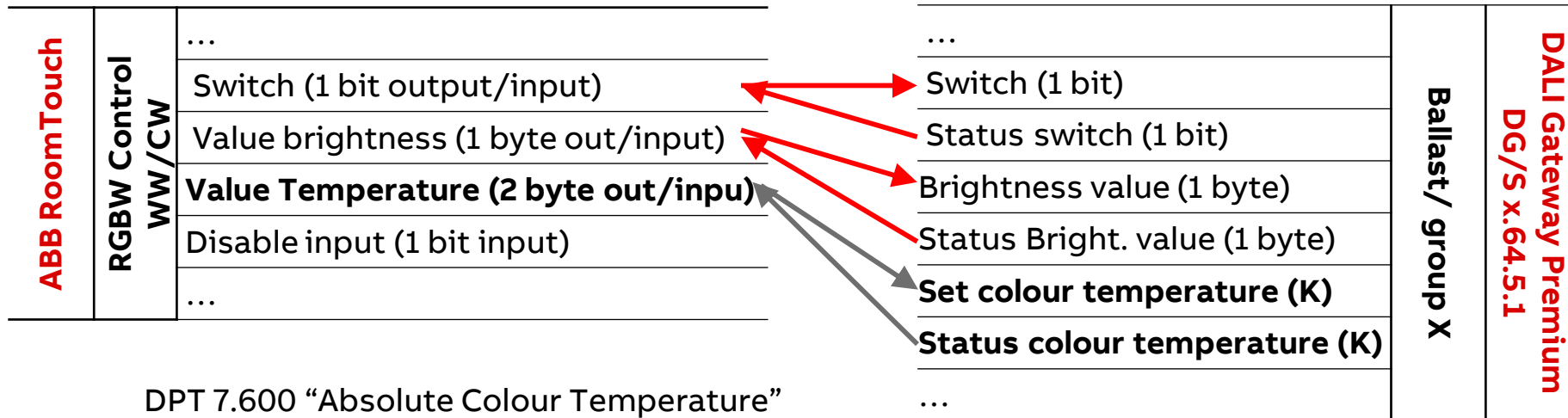
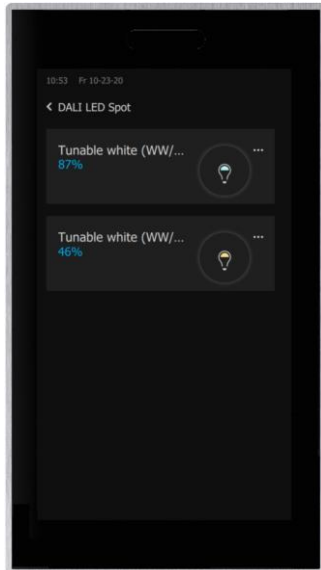


Keycard reader, time switch ,...

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters: Objects temperature/brightness – “DPT 7.600 2 byte” – Example: Assignment of Group Addresses



DPT 7.600 “Absolute Colour Temperature” contains the absolute colour temperature (K)

Keycard reader, time switch ,...



ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters: Objects temperature/brightness – “DPT 7.600 2 byte” – Example: Assignment of Group Addresses

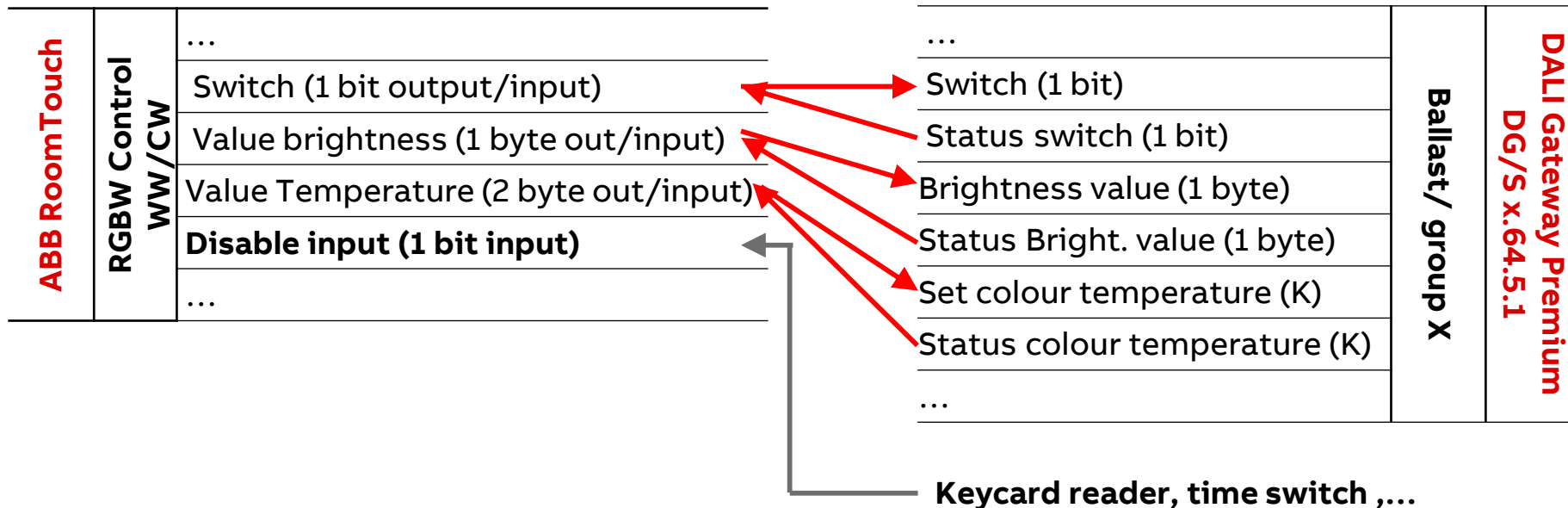
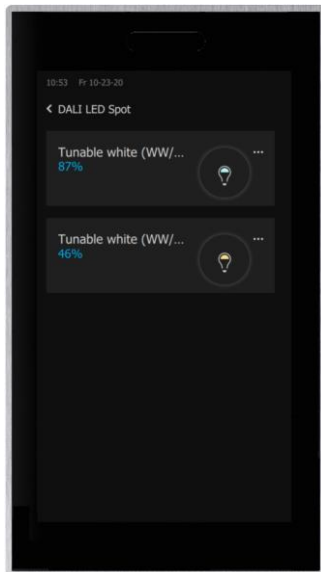


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Parameters: Objects temperature/brightness – “DPT 7.600 2 byte” – Example: Assignment of Group Addresses

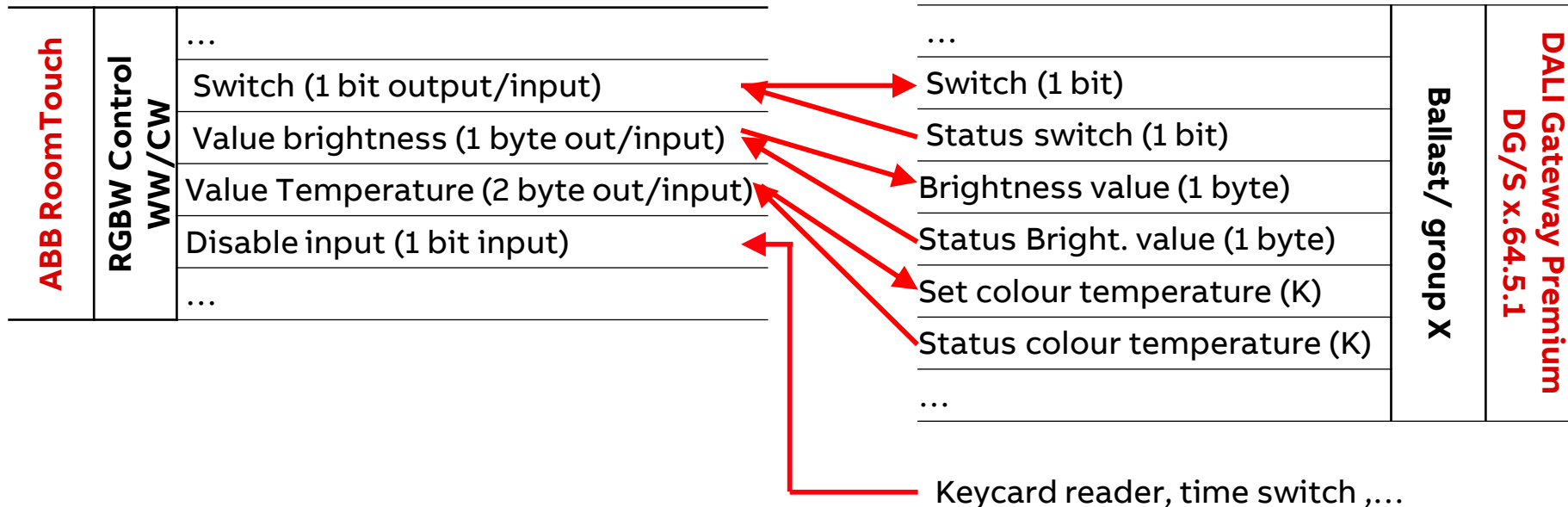
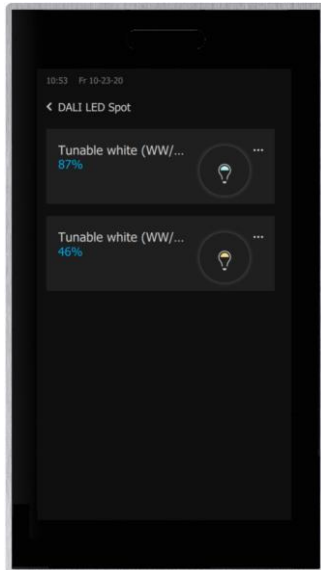


ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Operation and view

The diagram illustrates the user interface for controlling DALI LED Spot lights. It shows two smartphone screens on the left and a tablet screen on the right. The tablet screen is annotated with the following labels:

- Name of page
- Name of control element
- Brightness status
- Status colour temperature

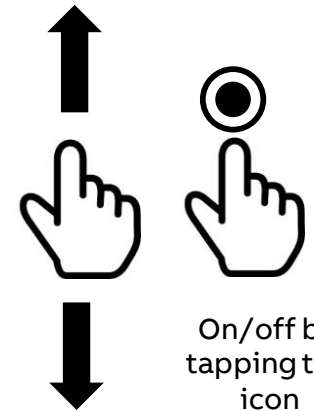
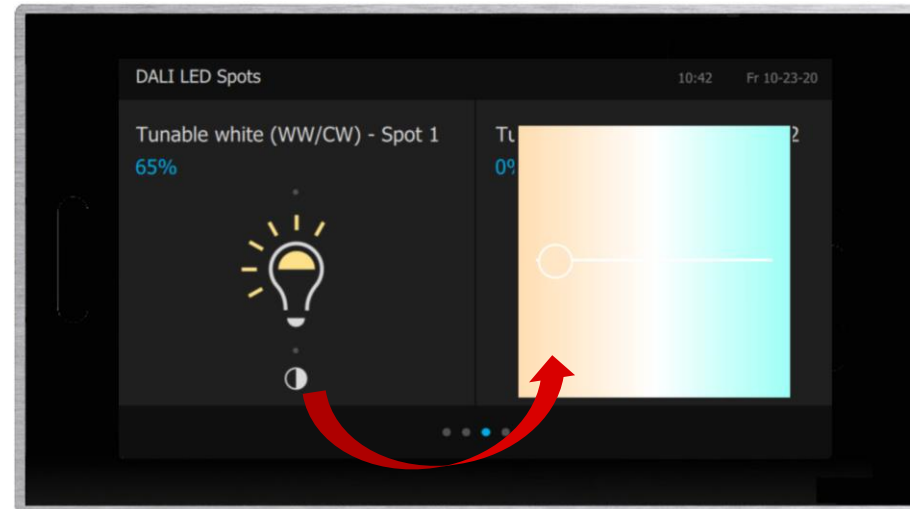
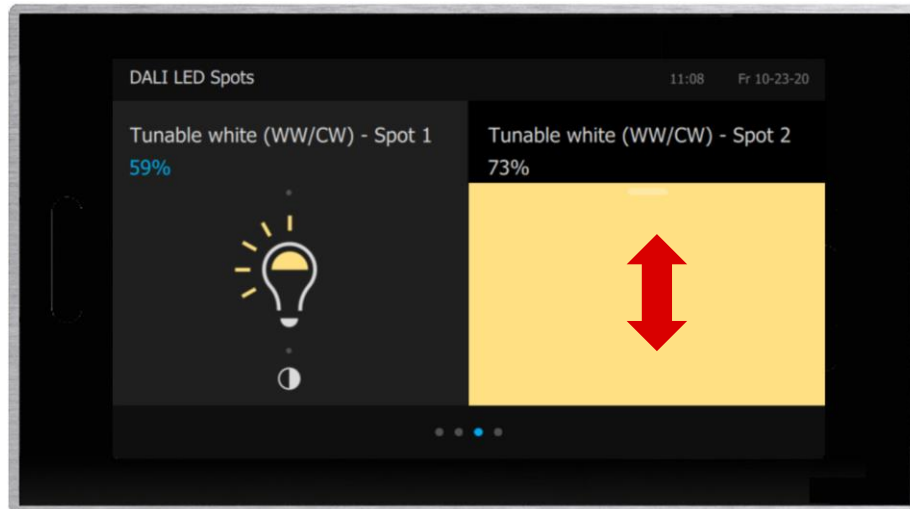
On the right side, there are two hand icons illustrating interaction methods:

- An upward and downward arrow with a hand icon pointing to a light icon, labeled "Change brightness or colour temperature level by swiping".
- A hand icon tapping a light icon, labeled "On/off by tapping the icon".

ABB RoomTouch® KNX and DALI Light Control

Control element “RGBW Control – WW/CW”

Operation and view



On/off by tapping the icon

Change brightness or colour temperature level by swiping

ABB RoomTouch® KNX and DALI Light Control

Online Learning Session

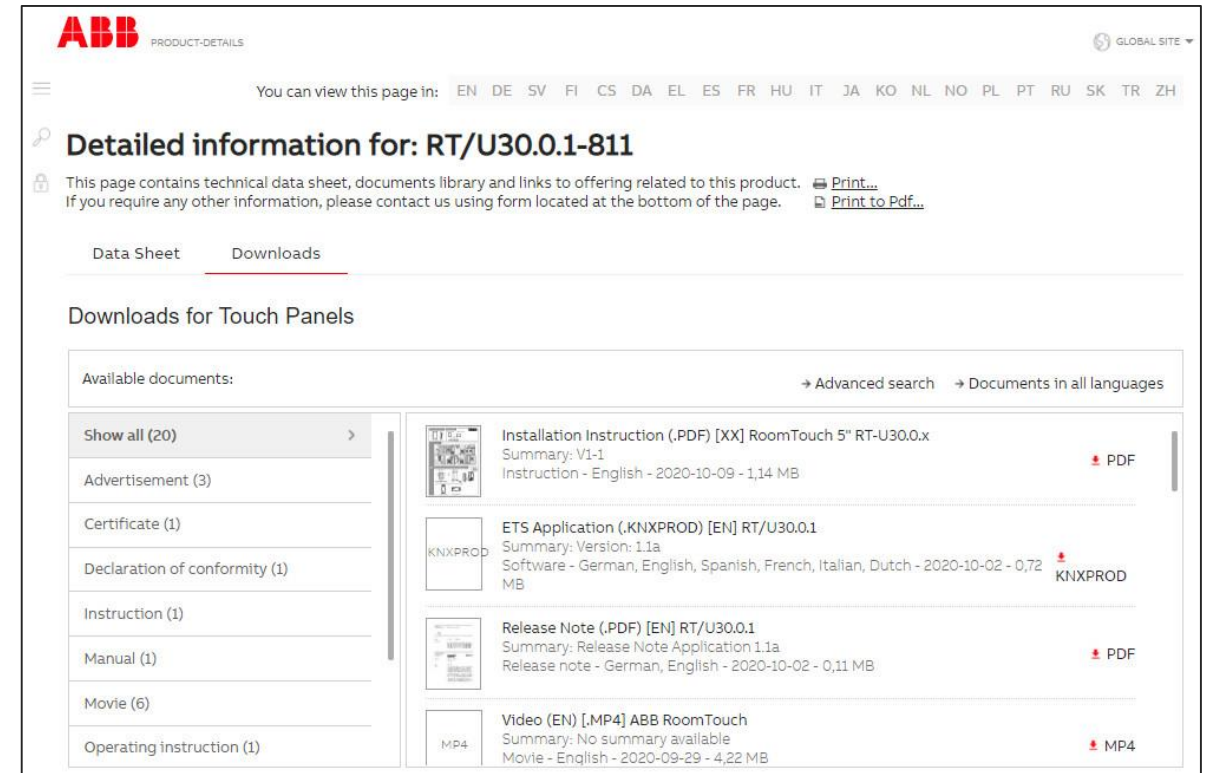
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Homepage

[www. www.abb.com/KNX](http://www.abb.com/KNX)

- Products and Downloads
 - Visualisation, Display and Signalling
 - Touch Panels RT/U
- Product Manual
- Installation and Operating Instructions
- ETS Application (*.knxprod)
- ETS App ABB Touch DCA (*.etsapp)
- Webinar recordings and presentations
- ...



The screenshot shows the ABB product details page for RT/U30.0.1-811. The page is titled "Detailed information for: RT/U30.0.1-811" and includes a language selection menu at the top. Below the title, there is a section for "Downloads for Touch Panels" which lists several documents available for download. The documents listed are:

- Installation Instruction (.PDF) [XX] RoomTouch 5" RT-U30.0.x (1,14 MB)
- ETS Application (.KNXPROD) [EN] RT/U30.0.1 (0,72 MB)
- Release Note (.PDF) [EN] RT/U30.0.1 (0,11 MB)
- Video (EN) [MP4] ABB RoomTouch (4,22 MB)

ABB RoomTouch® KNX and DALI Light Control

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Training Material

Training & Qualification Database

– The database contains extensive training content

- Presentations
- Video tutorials
- Webinar slides and videos
- and more ...

• <https://go.abb/ba-training>

• www.abb.com/knx (→ Services & Tools → Training and Qualification → Training Database)

YouTube

– Channel “ABB Home and Building Automation”

• <https://www.youtube.com/user/ABBibusKNX>

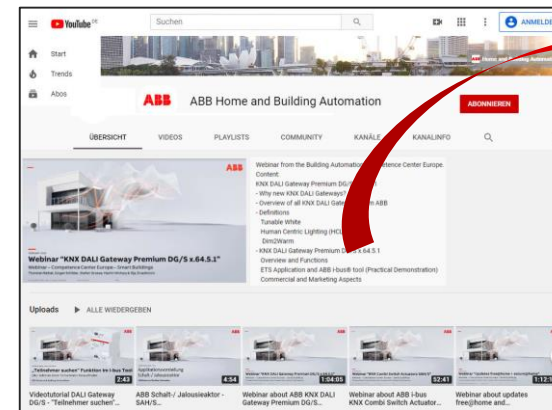
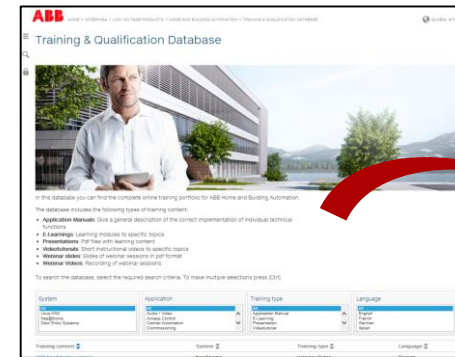


ABB RoomTouch® KNX and DALI Light Control

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Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of on-site trainings conducted by our specialists at different ABB training facilities

In this Training & Qualification Calendar you can find the educational events that are taking place during 2020

If you are interested in a training please click the training und you will be forwarded to register in “ABB MyLearning”

www.abb.com/knx or <https://go.abb/ba-training>

→ Services & Tools

→ Training and Qualification

→ Training Calendar

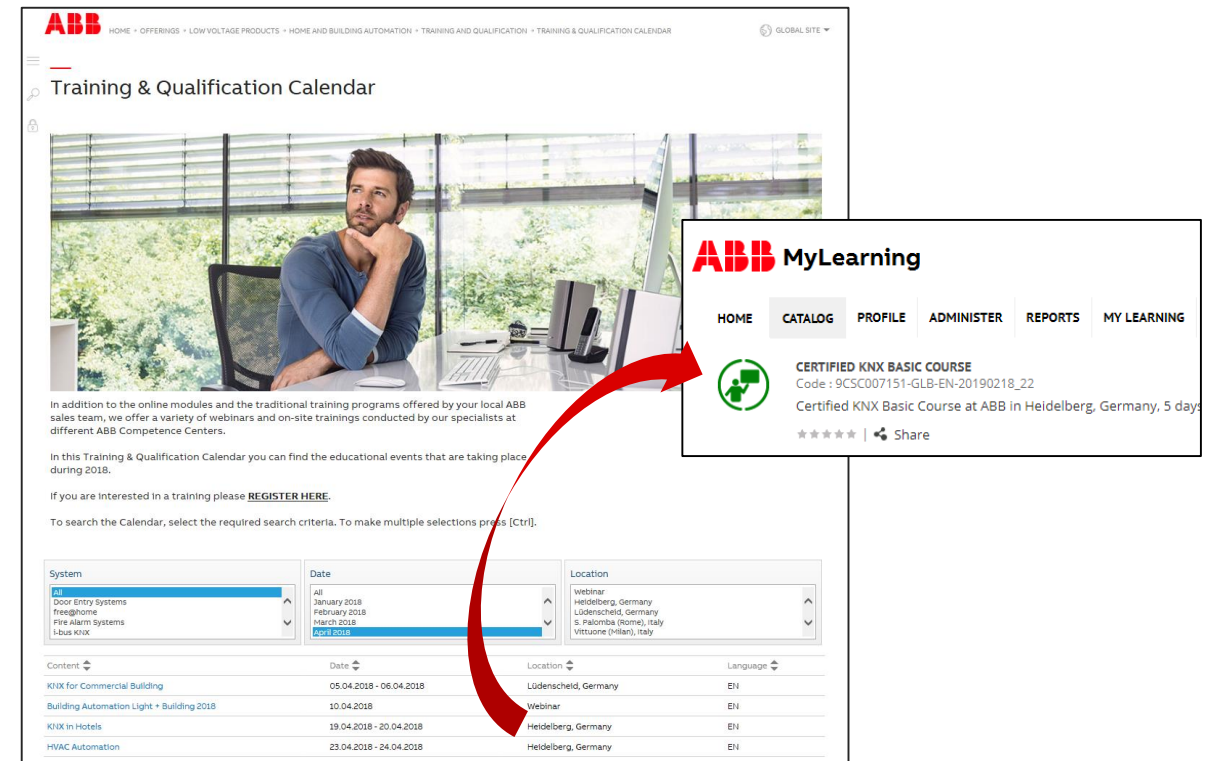


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Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of webinars and on-site trainings conducted by our specialists at different ABB Competence Centers.

In this Training & Qualification Calendar you can find the educational events that are taking place during 2018.

If you are interested in a training please [REGISTER HERE](#).

To search the Calendar, select the required search criteria. To make multiple selections press [Ctrl].

System	Date	Location
All	All	Webinar
Door Entry Systems	January 2018	Heidelberg, Germany
Free@home	February 2018	Lödenscheid, Germany
Fire Alarm Systems	March 2018	s. Palomba (Rome), Italy
I-bus KNX	April 2018	Virtuone (Milan), Italy

Content	Date	Location	Language
KNX for Commercial Building	05.04.2018 - 06.04.2018	Lödenscheid, Germany	EN
Building Automation Light + Building 2018	10.04.2018	Webinar	EN
KNX in Hotels	19.04.2018 - 20.04.2018	Heidelberg, Germany	EN
HVAC Automation	23.04.2018 - 24.04.2018	Heidelberg, Germany	EN

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CERTIFIED KNX BASIC COURSE
Code : 9CSC007151-GLB-EN-20190218_22
Certified KNX Basic Course at ABB in Heidelberg, Germany, 5 days
★★★★★ | Share

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