

OCTOBER 2020

ABB RoomTouch® KNX – Audio and Scene Control

Rev.:

Online Learning Session – Competence Center Europe – Smart Buildings

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Webinar – Competence Center Europe - Smart Buildings



ABB STOTZ-KONTAKT GmbH Heidelberg / Germany







ABB Busch-Jaeger Luedenscheid / Germany







ABB RoomTouch®

Introduction Control element "Audio Control"

Control element "Scene"



ABB RoomTouch[®] KNX – Audio and Scene Control

Introduction

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 then 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



Introduction

ABB RoomTouch® KNX

- ABB RoomTouch[®] will expand our range by an additional highquality 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



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



Music

Living room

Trainig room

Welcome

Scene

Light

Introduction

ABB RoomTouch® KNX

Maximum of 30 control elements

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

- ...



ABB RoomTouch[®] KNX – Audio and Scene Control

Introduction

ABB RoomTouch® KNX

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

- Presentation \rightarrow Link
- Video recording \rightarrow Link

Homepage

• ...

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





+ PDF

KNXPROD

+ PDF

1 MP4

ABB RoomTouch[®] KNX – Audio and Scene Control

Control Element "Audio Control"

Control Element "Audio Control"

Overview Audio Control with Busch-ControlTouch® and SONOS Speaker



Control Element "Audio Control"

Busch-ControlTouch KNX (6136/APP-500)

- KNX visualisation
- For iOS and Android smart phones/tablets, Apple smart watch and desktop PC/laptop
- Web-based commissioning over "MyBuildings portal"
- Simple app based remote control solution for KNX
- Integration of IP cameras, SONOS (UPnP) and Philips hue
- Creation of own scripts (e.g. if then else)
- Alarm or malfunction messages over e-mail and push notifications
- Weekly timer and scenes adjustable by the end customer
- ... and more



Control Element "Audio Control"

Busch-ControlTouch KNX (6136/APP-500)

Webinars and Online Learning Sessions (Commissioning-Wizard, Sonos integration, scripts, ...)

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

Homepage

• ...

- <u>www.abb.com/knx</u> \rightarrow Visualisation, Display and Signalling \rightarrow ...
 - Product Manual

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Control Element "Audio Control"

- 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

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Control Element "Audio Control"

- 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

Control Element "Audio Control"

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- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
 - Set number of controls on this page to "1"

Control Element "Audio Control"

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- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
 - Set number of controls on this page to "1"
 - Drag the control element "Audio Control" from the task bar to the field of the page

Control Element "Audio Control"

- 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
 - Set number of controls on this page to "1"
 - Drag the control element "Audio Control" from the task bar to the field of the page
 - Set the parameters

Control Element "Audio Control"

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
 - Set number of controls on this page to "1"
 - Drag the control element "Audio Control" from the task bar to the field of the page
 - Set the parameters
 - Link group addresses
 - Download individual address and application

ETS5[™] - RoomTouch 222 ETS Workplace Commissioning Diagnostics Apps Window 📢 Undo 🛝 Redo 🚔 Reports 🔠 Workplace * 🧾 Catalogs 🕎 Diagnostics 🏢 Building 📊 Topology 📑 Group Addresses 🔲 Devices Propertie ð 🗙 Delete 붗 Download 💌 🚯 Info 🕶 🐬 Reset 🤚 Unload 💌 📖 🖗 Comm Topology Backbone 🐚 Export 📰 Preview 📀 Reset Layout 💥 Clear all Version: 1.1.1 (Build 3 Audio - Play Dynamic Folders (1) Switch & Rocker Switch & Dimmer 🔁 Dimmer slider 😚 RGBW Control 🕮 Value slider 🔚 Blind 👃 Fan Switch 🔂 Scene 📾 Display 🐇 RTC Control frame 🖏 Split Unit Control Area 9.xx.xxx Addres (1) Audio control ▲ 🗄 9.3 Line 9.3.xxx 28/4 / 4 \$ Applications Navigation 9.3.0 IP Router IPR/S3. Description Music Name of control elemen RT/U30.0.1 ABB RoomTour Page 1 9.3.1 RT/U30.0.1 ABB... Start pages Number of source 1 932 RT/13001 ARB Page 1 Radio SWR3 Source 1 name 9.3.3 RT/U30.0.1 ABB... Add page Source 1 type O 1 bit 1 byte value [0..255 Group Address Settings 9.3.4 RT/U30.0.1 ABB.. Central 9.3.5 SA/S12.16.5.2 S... Object type play/pause control O 1 bit 1 byte value (0.255) Pass through Line Coupl 9.3.20 ABB RoomTouc... 0 0 Value for play Security 9.3.21 ABB RoomTouc.. 00 Value for pause Automatic 9.3.22 Split Unit Gate... Use skip forward/backward control 1 Data Type 9.3.23 Blower Actuato. Object type skip forward/backward con value 10..255 1.010 start/stop 9.3.24 Blower Actuato. 6 Value for skip forward 9325 Universal Interf. Value for skip backward 9.3.26 UK/S32.2 Unive. Use mute contro 9.3.32 DG/S2.64.5.1 D... Object type mute 9.3.255 USB-Interface alue for unmu lse shuffle contro bject type shuffle cont 1 byte value [ommunication Objects Group Addre JZU, BIDUITI - ITIDUI KH 28/4/3 Audio - Albun 521: Play - output/inpu 28/4/4 Audio - Play 1 28/4/4 Audio - Play ₽ Find and Replace 28/4/5 Audio - Pause 522: Pause - output/input Workspaces 28/4/5 Audio - Pause 88 28/4/6 Audio - Skip forward O Todo Items × Delete 523: Skip forward - output/inpu 1 28/4/7 Audio - Skip bac 28/4/6 Audio - Skip forw Pending Operations 1 of 10 pages used Add X Delet Add to favourit Undo History Parameters Channel PR/S3 1 1 IP-Router REG (192 168 1 114 9.3.3 RT/U30.0.1 ABB RoomTou

• ...

Control Element "Audio Control"

Parameters 1/3

- Name of the control element (max. 36 characters)
- Number of sources [1-8]
- Source x name (max. 40 characters)
- Source x type: 1 bit or 1-byte value [0 255]
 - Source x value: 0 255 (number of playlist or radio station)
- Object type play/pause control: 1 bit or 1-byte value [0 255]
 - Value for play
 - Value for pause
- Use skip forward/backward control
 - Object type skip forward/backward control: 1 bit or 1-byte value
 - Value for skip forward
 - Value for skip backward

arameter		
Name of control element	Audio control	
Number of sources	1	÷
Source 1 name	<source 1=""/>	
Source 1 type	1 bit 0 1 byte value [0255]	
Source 1 value	0	¢
Object type play/pause control	1 bit 1 byte value [0255]	
Value for play	0 0 1	
Value for pause	O 0 ○ 1	
Use skip forward/backward control	\checkmark	
Object type skip forward/backward control	1 bit 1 byte value [0255]	
Value for skip forward	0 0 1	
Value for skip backward	0 0 1	

Control Element "Audio Control"

Parameters 2/3

- Use mute control
 - Object type mute control: 1 bit or 1-byte value
 - Value for mute
 - Value for unmute
- Use shuffle control
 - Object type shuffle control: 1 bit or 1-byte value
 - Value for shuffle
 - Value for no shuffle
- Use repeat control
 - Object type repeat control: 1 bit or 1-byte value
 - Value for repeat
 - Value for no repeat

Parameter	
Use mute control	
Object type mute control	1 bit 1 byte value [0255]
Value for mute	0 0 1
Value for unmute	0 0 1
Use shuffle control	
Object type shuffle control	1 bit 1 byte value [0255]
Value for shuffle	0 0 1
Value for no shuffle	O ○ 1
Use repeat control	
Object type repeat control	1 bit 1 byte value [0255]
Value for repeat	0 0 1
Value for no repeat	O 1

Control Element "Audio Control"

Parameters 3/3

- Use volume control
 - Object type volume control: 2 x 1 bit, 1 x 4 bit or 1-byte value
 - Volume change [%]
- Telegram is repeated every [sec.]
- Use on/off control
 - Object type on/off control: 1 bit or 1-byte value
 - Value for on
 - Value for off
- Enable communication object "Disable" 1-bit

Parameter		
Use volume control		
Object type volume control	1 byte value [0100%]	•
Volume change [%]	5	\$
Telegram is repeated every [s]	0.5s	•
Use on/off control		
Object type on/off control	1 bit 1 byte value [02	255]
Value for on	0 0 1	
Value for off	O ○ 1	
Enable communication object "Disable	e" 1 bit 🛄	

Control Element "Audio Control"

Example: Audio Control with Busch-ControlTouch®

- ...

- ...

- Source 1: 1-byte value "1" (number radio station "Radio Bayern")
- Source 2: 1-byte value "8" (number radio station "Radio SWR3")
- Source 7: 1-byte value "10" (number playlist "PL Relaxing music")
- Play/pause control: 1 bit, value for play "1" and pause "0"
- Forward/backward control: 1 bit, value forw. "1" and backw. "1"
- Mute control: 1 bit, value for mute "1" and unmute "0"
- Shuffle control: 1 bit, value for shuffle "1" and no shuffle "0"
- Repeat control: 1 bit, value for repeat "1" and no repeat "0"
- Volume control: 1-byte value [0...100%]
- Volume change: 5%
- Use on/off control: No

Source 2 name	Radio SWR3				
Source 2 type	1 bit 0 1 byte value [0255]				
Source 2 value	8	÷			
Source 8 name	PL Relaxing music				
Source 8 type	1 bit 0 1 byte value [0255]				
Source 8 value	10	÷			
Object type play/pause control	1 bit 1 byte value [0255]				
Value for play	0 0 1				
Value for pause	0 0 1				
Use skip forward/backward control	\checkmark				
Object type skip forward/backward control	1 bit 1 byte value [0255]				
Value for skip forward	0 0 1				
Value for skip backward	0 0 1				
Use volume control	V 13				
Object type volume control	1 byte value [0100%]	*			
Volume change [%]	5	÷			
Telegram is repeated every [s]	0.5s	*			
Use on/off control					

Control Element "Audio Control"

Example: Audio Control with Busch-ControlTouch®

- ...

- ...

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- Source 2: 1-byte value "8" (number radio station "Radio SWR3")
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- Shuffle control: 1 bit, value for shuffle "1" and no shuffle "0"
- Repeat control: 1 bit, value for repeat "1" and no repeat "0"
- Volume control: 1-byte value [0...100%]
- Volume change: 5%
- Use on/off control: No

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SONOS App

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Control Element "Audio Control"

Example: Audio Control with Busch-ControlTouch®

- ...

- ...

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- Mute control: 1 bit, value for mute "1" and unmute "0"
- Shuffle control: 1 bit, value for shuffle "1" and no shuffle "0"
- Repeat control: 1 bit, value for repeat "1" and no repeat "0"
- Volume control: 1-byte value [0...100%]
- Volume change: 5%
- Use on/off control: No

Busch-ControlTouch® App

Control Element "Audio Control"

Example: Audio Control with Busch-ControlTouch®

- ...

- ...

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- Repeat control: 1 bit, value for repeat "1" and no repeat "0"
- Volume control: 1-byte value [0...100%]
- Volume change: 5%
- Use on/off control: No

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MyBuildings portal

Busch-ControlTouc

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Import project	Group volume			DPT 3.007		
Home 001	Device volume			DPT 3.007		
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Commands	Previous		28/4/7	DPT 1.001		
Data Logger	Shuffle	28/4/29	28/4/9	DPT 1.001		
Presence detection	Repeat	28/4/30	28/4/10	DPT 1.001		
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Sonos KNX linking	Select favorite		28/4/13	DPT 5.010		
Room thermostat	Select next favorite			DPT 1.001		
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Control Element "Audio Control"

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Control Element "Audio Control"

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	173 28.10.2020 1	fr L 1.1.232	Busch-ControlTouch® 2	8/4/28	Audio - Status Mute	Group		\$01 Enable
	214 28.10.2020 11	fr L 9.3.21	ABB RoomTouch RT/U 2	8/4/8	Audio - Mute	Group		\$00 Disable
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Control Element "Audio Control"

Operation and view

Control Element "Audio Control"

Operation and view

Control Element "Scene"

ABB RoomTouch[®] KNX – Audio and Scene Control

Control Element "Scene"

Overview Scenes: 8 bit Scene "Scene Control" (DPT 18.001) – calling and storing up to 64 scenes

Control Element "Scene"

Scenes

Typical applications of scenes

- Training room: Welcome, start, coffee break, end, ...
- Hotel room: Access, insert and remove key card, house keeping, ...
- Residential home: Night, welcome, goodbye, alarm, vacation, ...
- Shutter control: Sunrise, night, rain, ...
- Room: Occupied and not occupied
- RGB control (DALI): Sequencer of colored light

and many more

Control Element "Scene"

Scenes

One touch control

- Lighting
- Curtains, blinds, shutters
- HVAC
- Music
- Security
- Audio and media technology
- ...
- ightarrow Scenes to suit your mood
- \rightarrow More than central on/off
- \rightarrow End-user can call <u>and</u> store scenes

Control Element "Scene"

- 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

ETS5 [™] - RoomTouch		- 🗆 X
ETS Edit Workplace Commissioning Diagnostics	Apps Window	^ . (
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		O Todo Items
		Pending Operations
Group Objects	ali Perameteri DCA	
IP-Router Smoker (v 70) (192 168 1 79 3 + 93 June 93 vo	93.4 RT/U30.01 ABB RoomTouch	Last used workspace

Control Element "Scene"

- 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

Control Element "Scene"

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- Click on the "DCA" tab and start the commissioning
 - Set number of controls on this page to "1" or "2"

Control Element "Scene"

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- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
 - Set number of controls on this page to "1" or "2"
 - Drag the control element "Scene" from the task bar to the field of the page

Control Element "Scene"

- 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
 - Set number of controls on this page to "1" or "2"
 - Drag the control element "Scene" from the task bar to the field of the page
 - Set the parameters

Control Element "Scene"

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
 - Set number of controls on this page to "1" or "2"
 - Drag the control element "Scene" from the task bar to the field of the page
 - Set the parameters
 - Link group addresses
 - Download individual address and application

ETS5™ - RoomTouch ETS Edit Workplace Commissioning Diagnostics Apps Window 🝖 Close Project 💰 Undo 🛝 Redo 🚔 Reports 📰 Workplace 🔹 🔢 Catalogs 📻 Diagnostics 🗐 Building 📊 Topology 🛐 Group Addresses 🛐 Devices 6 🗙 Delete 붗 Download | 🔹 🌒 Info 🔹 💋 Reset 🧳 Unload 🔹 🚞 Pri Comm Topology Backbone Name 🛤 Export 🛒 Preview 🦪 Reset Layout 💥 Clear all Import Version: 1.1.1 (Ruild 3) RT/U30.0.1 ABB RoomT Dynamic Folder 🔱 Switch 👃 Rocker Switch 🔮 Dimmer Z Dimmer Sider 🖗 RGBW Control 😇 Value slider 🖷 Blind 👃 Fan Switch 🔂 Scene 📾 Display 🖉 RTC Control frame 🕮 Split Unit Control Individual Address Area 9.xx.xxx C19 Audio control 9.3 4 ‡ Park ▲ 🗄 9.3 Line 9.3.xxx Applications Navigatio Description 9.3.0 IP Router IPR/.. Training room Name of control element RT/U30.0.1 ABB RoomTouch 9.3.1 RT/U30.0.1 AB. Start the scene as it is selected Start pages 9.3.2 RT/U30.0.1 AB.. Long operation after ... 0.6 s Scene 9.3.3 RT/U30.0.1 AB.. Add page Number of scenes [1.,10 Last Modified 26 10 2020 0 9.3.4 RT/U30.0.1 AB... Last Downloaded Scene number 1 [1..64] 9.3.19 ABB RoomTo. Serial Number Name of scene 1 9.3.20 ABB RoomTo. Store scene 1 by long pres 9.3.22 Split Unit Gat... Status Scene number 2 [1.64] Linknow 9.3.23 Blower Actua Start Presentat 9.3.24 Blower Actua. Name of scene 2 Store scene 2 by long pres 9.3.25 Universal Inte. Scene number 3 [1.64] 9.3.26 UK/S32.2 Uni... 9.3.32 DG/S2.64.5.1. Name of scene 3 9.3.255 USB-Interface Store scene 3 by long pres Scene number 4 [1.64] Name of scene 4 mmunication Objects 518: Scene number 1 6 28/0/1 Training room - Scene control 28 RoomTou 519: Scene number 2 - output/input RR 28/0 Miscellaneou 28/0/1 Training room - Scene control 88 28/0/1 Training room - Scene contro 520: Scene number 3 - output/input 128/0/1 Training room - Scene control 28/0/11 Training room - Temperatur P Find and Replace 21: Scene number 4 - output/input 28/0/21 Training room - CO2 Workspaces 1 28/0/1 Training room - Scene contro 28/0/31 Training room - Electrical 522: Scene number 5 - output/input ⑦ Todo Items 28/0/1 Training room Pending Operations 1 of 10 pages use Add to fay Undo History Group Objects Channel P-Router Smoker (x.79) (192.168.1.79:3... * 9.3 Line 9.3.) 9.3.4 RT/U30.0.1 ABB RoomTour

• ...

Control Element "Scene"

Parameters

- Name of the Control Element (max. 36 characters)
- Start the scene at it is selected
- Long operation after...
- Number of scenes [1 10]
- Name of scene X
- Store scene X by long press
- Enable 1-bit communication object "Disable"

Name of control element	Training room	
Start the scene as it is selected	✓	
ong operation after	0.6 s	•
Number of scenes [110]	5	\$
icene number 1 [164]	1	÷
Name of scene 1	Welcome	
Store scene 1 by long press	V	
Scene number 2 [164]	16	\$
Name of scene 2	Start Presentation	
Store scene 2 by long press	✓	
Scene number 3 [164]	21	\$
Name of scene 3	Break	
Store scene 3 by long press	✓	
icene number 4 [164]	4	\$
Name of scene 4	Stop Presentation	
Store scene 4 by long press	v	
Scene number 5 [164]	5	\$
Vame of scene 5	End and goodbye	
Store scene 5 by long press	~	

Control Element "Scene"

Parameter "Store scene X by long press"

- All information (on, off, brightness values, ...) are stored in the actuators
- The end user can change the situation in the room and save it as new scene values
- The next time the new scene values are called
 - Setting the new values in the actuators (on, up, 65%, ...)
 - Select the desired scene
 - Press and hold your finger on the scene icon or text
 → A blue bar runs on the upper screen
 - A check mark indicates that the telegram "Store scene X" has been sent

Long operation after	0.6 s	•
Number of scenes [110]	5	\$
Name of scene 1	Welcome	
Store scene 1 by long press	\checkmark	

Control Element "Scene"

Example: Assignment of Group Addresses – All scene devices/group objects are linked with the same group address

Control Element "Scene"

Operation and view

Control Element "Scene"

Operation and view

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ABB RoomTouch[®] KNX – Audio and Scene Control

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Homepage

www.www.abb.com/KNX

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

- • • •

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You can view this pag	gein: EN DE SV FI CS DA EL ES FR HU IT JA KO NL NO PL PT RU SK T
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Manual (1)	Release note - German, English - 2020-10-02 - 0,11 MB

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Training Material

Training & Qualification Database

- The database contains extensive training content
 - Presentations
 - Video tutorials
 - Webinar slides and videos
 - and more ...
 - <u>https://go.abb/ba-training</u>
 - <u>ww.abb.com/knx</u> (→ Services & Tools → Training and Qualification → Training Database)
- Training and Qualification

YouTube

- Channel "ABB Home and Building Automation"
 - <u>https://www.youtube.com/user/ABBibusKNX</u>

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Training & Qualification Calendar

 \rightarrow Training and Qualification

 \rightarrow Training Calendar

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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

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Qualification

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