

FEBRUARY 2020

Webinar “Update Busch-ControlTouch®”

Webinar – Competence Center Europe – Smart Buildings

Thorsten Reibel, Jürgen Schilder, Stefan Grosse, Martin Wichary & Ilija Zivadinovic

Agenda

6136/APP-500 Busch-ControlTouch®:

- Easy commissioning wizard
- New possibilities for the visualisation with room pictures and small control elements
- Implementation of Sonos API with „Works with Sonos“ certificate (text to speech and KNX Bridging)
- Implementation of 16 RTC Controller

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - General Overview

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - General Overview

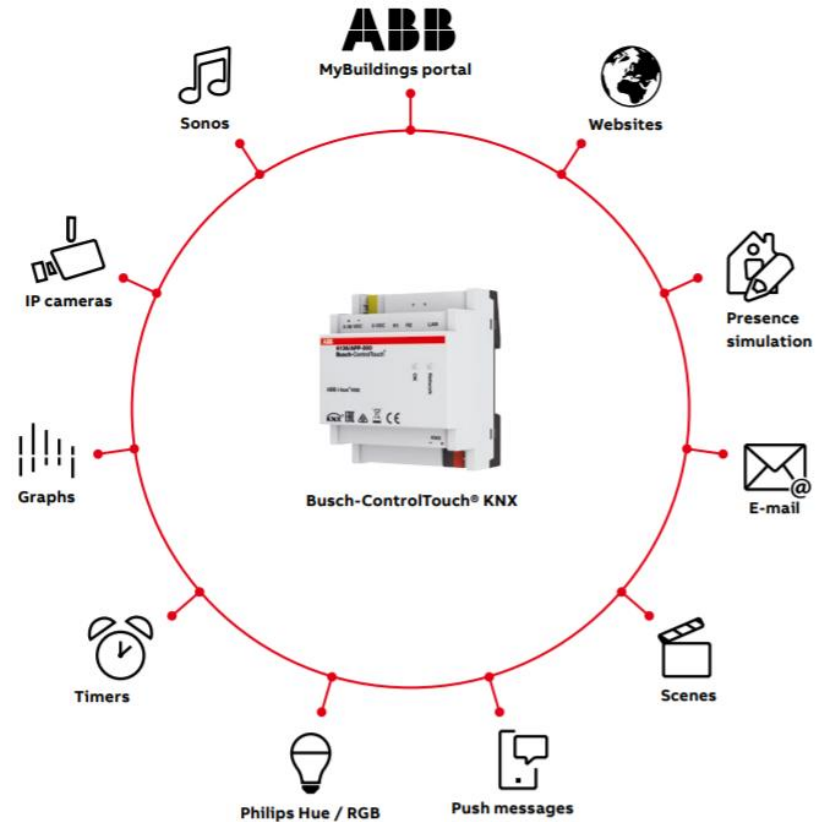
Product Information

The Busch-ControlTouch® KNX IP gateway combines the KNX installation with the IP network (LAN) and controls all KNX functions in the building

The easy-to-use app – for iOS and Android – turns not only smartphones and tablets, but also soon the Apple Watch into practical remote controls for KNX systems

Product advantages

- For smartphones, tablets (iOS and Android), PC client and the Apple Watch
- Implementation and modifications via the Internet
- Intuitive and user-friendly operation
- Integration with IP cameras, Sonos wireless box and Philips Hue lights
- Logic scripts option possible
- Error and alarm messages via push



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - General Overview

Functions and impressions

- Scene editor
- Week timer (with astro)
- Logic scripts (if then else)
- Alarm or malfunction messages over push notifications and e-mail
- Diagrams (zoom function)
- RGB/RGBW support
- IP camera (MJPEG)
- PTZ support (Axis, Mobotix)
- Presence detection option (arp-scan, local network)
- KNXnet/IP Tunnel
- Philips hue bridge
- UPnP audio (e.g. SONOS)



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - General Overview

Update 1.3.0

All installed devices with a firmware older than version 1.3.0 must be updated before **May 2020**, otherwise they will no longer work properly

Claims arising from defects or damage due to a software version that is not up to date cannot be asserted

Product type : 6136/APP-500

Order code : 2CKA006136A0202

Current version : Firmware 1.3.0

Update can be triggered by “MyBuildings” portal in the future!

Settings system

Writing firmware (version 1.3.0)

Preparing for firmware update: ready

Downloading firmware: ready

Preparing firmware for installation: 88 % done, please wait . . .



Firmware update

Request device to update firmware

Request

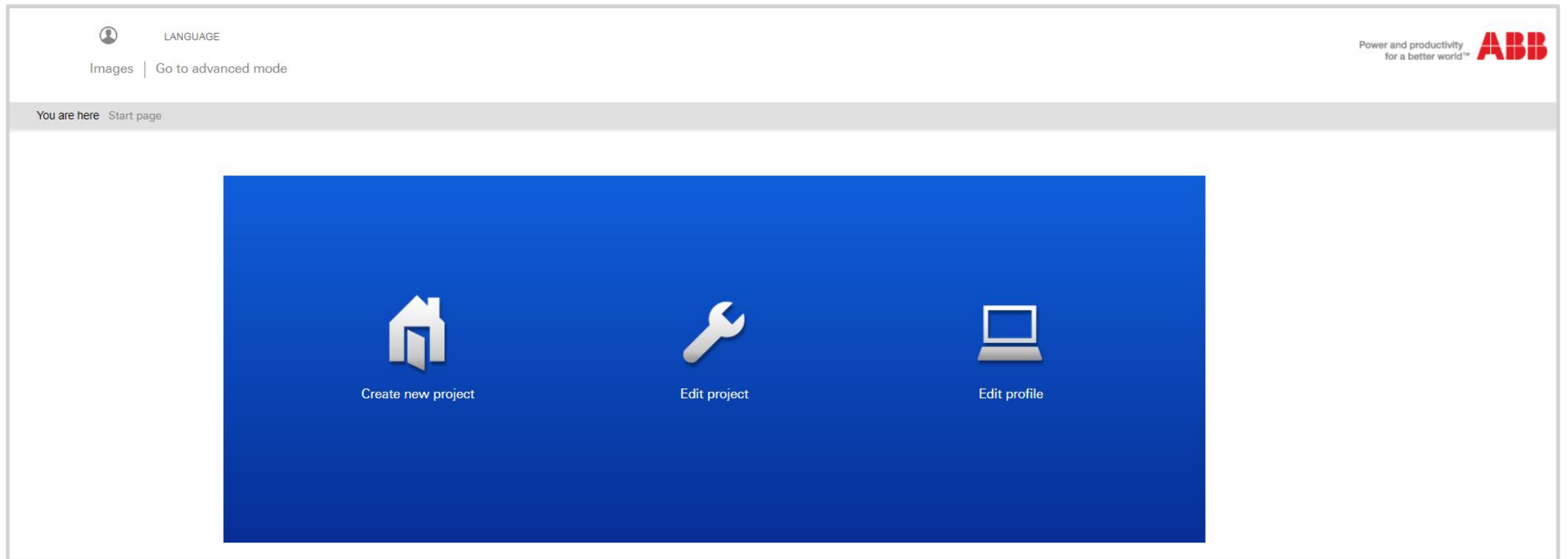
Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Smart Commissioning Wizard

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Smart Commissioning Wizard



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

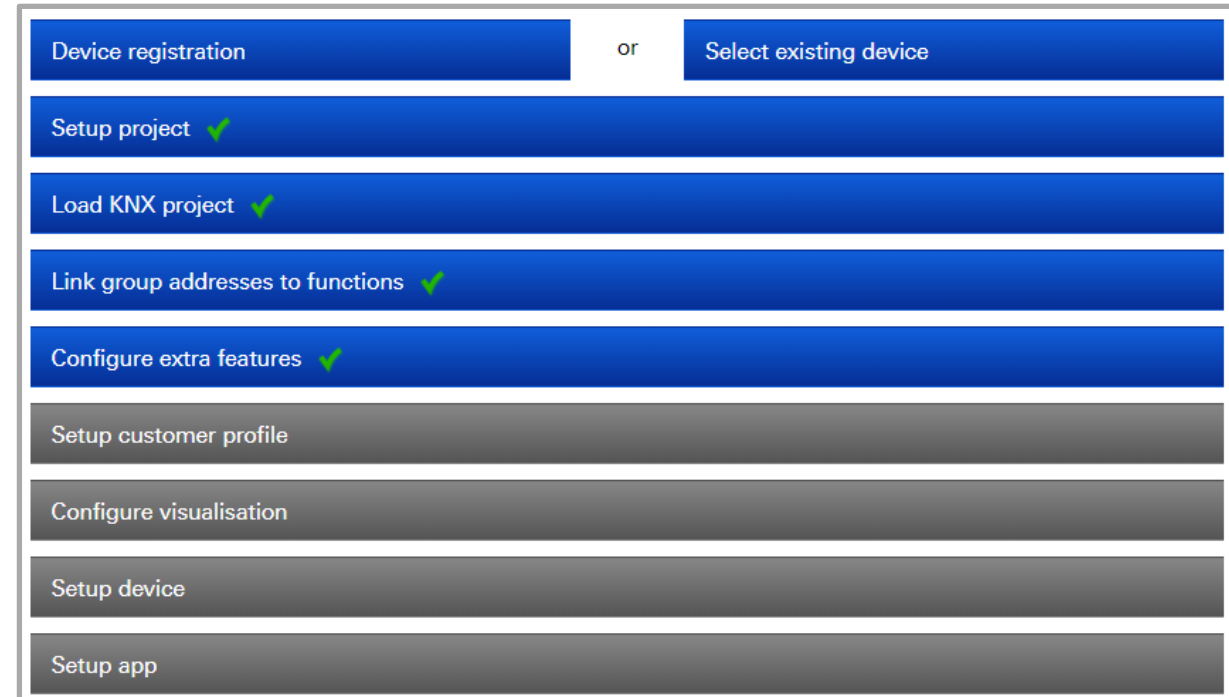
Smart Commissioning Wizard

Smart wizard for a more combatable way of commissioning the Busch-ControlTouch®.

This wizard guides the user/installer through the steps to:

1. Create new project (register device, create and edit project, create and edit profile, setup device)
2. Edit project (edit project, create and edit profile)
3. Create profile (create and edit profile)

Via "go to enhanced mode" the original extensive UI becomes available.



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Room Based Visualisation

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

New visualisation

It's possible to use room pictures for the visualization now. To control functions in a room view small “bubbles” can be used as control element.

Important:

Activate “Prefers fullscreen display” in the settings of each roomview page!

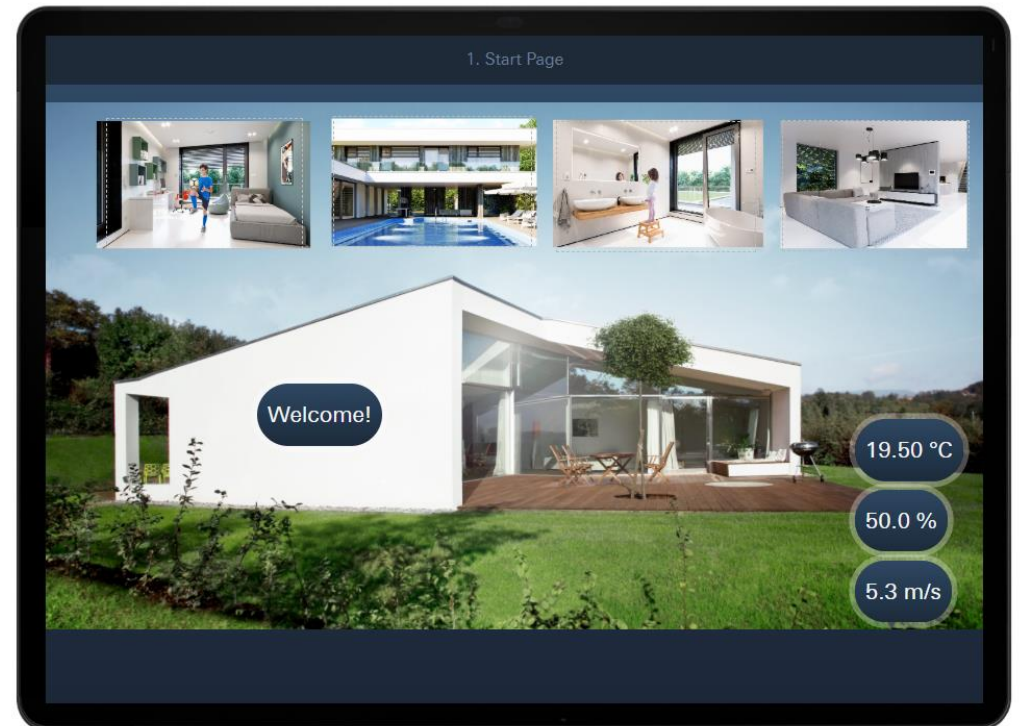
Button color

	47	72	99
--	----	----	----

Prefers fullscreen display

Button type

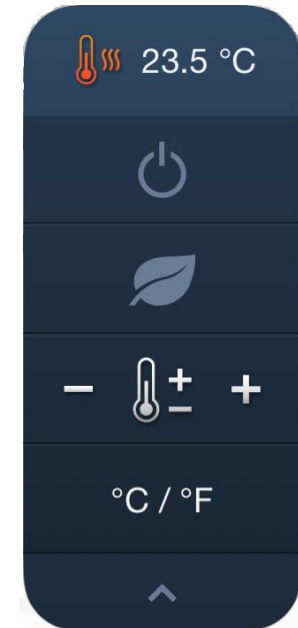
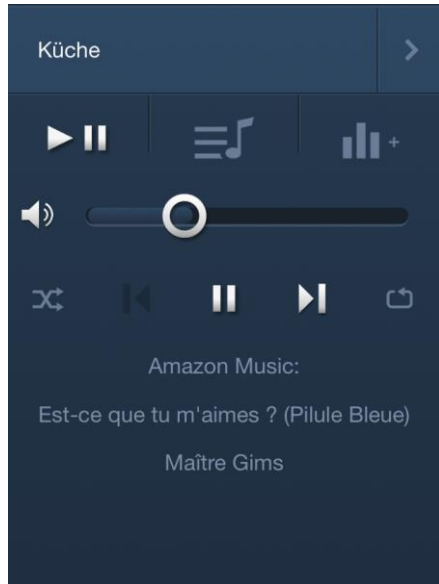
Inherit from profile



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Impressions



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Sonos

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Sonos

The Sonos-API is now implemented into the Busch-ControlTouch®.

This gives it the certificate “Works with Sonos”.

For some devices a new Sonos box is required.

Example functions:

- Control Sonos with KNX devices (Sonos linking)
- Creating groups
- Text-to-speech



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Sonos Linking

KNX group addresses can be used to control a Sonos box now.

Example:

Device volume DPT 3.007 dimming control

3.007 dimming control

Default Value: 1 %
Possible Values:
\$00 = Decrease, Break
\$01 = Decrease, 100 %
\$02 = Decrease, 50 %
\$03 = Decrease, 25 %
\$04 = Decrease, 12 %
\$05 = Decrease, 6 %
\$06 = Decrease, 3 %
\$07 = Decrease, 1 %
\$08 = Increase, Break
\$09 = Increase, 100 %
\$0A = Increase, 50 %
\$0B = Increase, 25 %
\$0C = Increase, 12 %
\$0D = Increase, 6 %
\$0E = Increase, 3 %
\$0F = Increase, 1 %

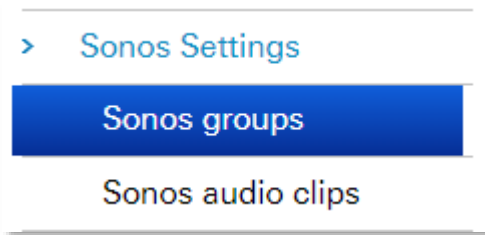
Wohnzimmer	Sending GA	Status GA	
Group volume	<input type="text"/>	<input type="text"/>	DPT 5.001
Device volume	<input type="text"/>	<input type="text"/>	DPT 5.001
Group volume		<input type="text"/>	DPT 3.007
Device volume		<input type="text"/>	DPT 3.007
Device mute	<input type="text"/>	<input type="text"/>	DPT 1.001
Play	<input type="text"/>	<input type="text"/>	DPT 1.001
Next		<input type="text"/>	DPT 1.001
Previous		<input type="text"/>	DPT 1.001
Shuffle	<input type="text"/>	<input type="text"/>	DPT 1.001
Repeat	<input type="text"/>	<input type="text"/>	DPT 1.001
Meta information	<input type="text"/>		DPT 16.000
Info to send	<input type="text"/>		See below
Select favorite		<input type="text"/>	DPT 5.010
Select next favorite		<input type="text"/>	DPT 1.001
Select playlist		<input type="text"/>	DPT 5.010
Join to next playing group		<input type="text"/>	DPT 1.001
Play audio clip (standard)		<input type="text"/>	DPT 5.010
Play audio clip (own)		<input type="text"/>	DPT 5.010

.cn] = container name, [tn] = track name, [ta] = track artist, [an] = album name, [aa] = album artist, [sn] = show name, [si] = stream info

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Sonos settings – Creating groups



Sonos groups

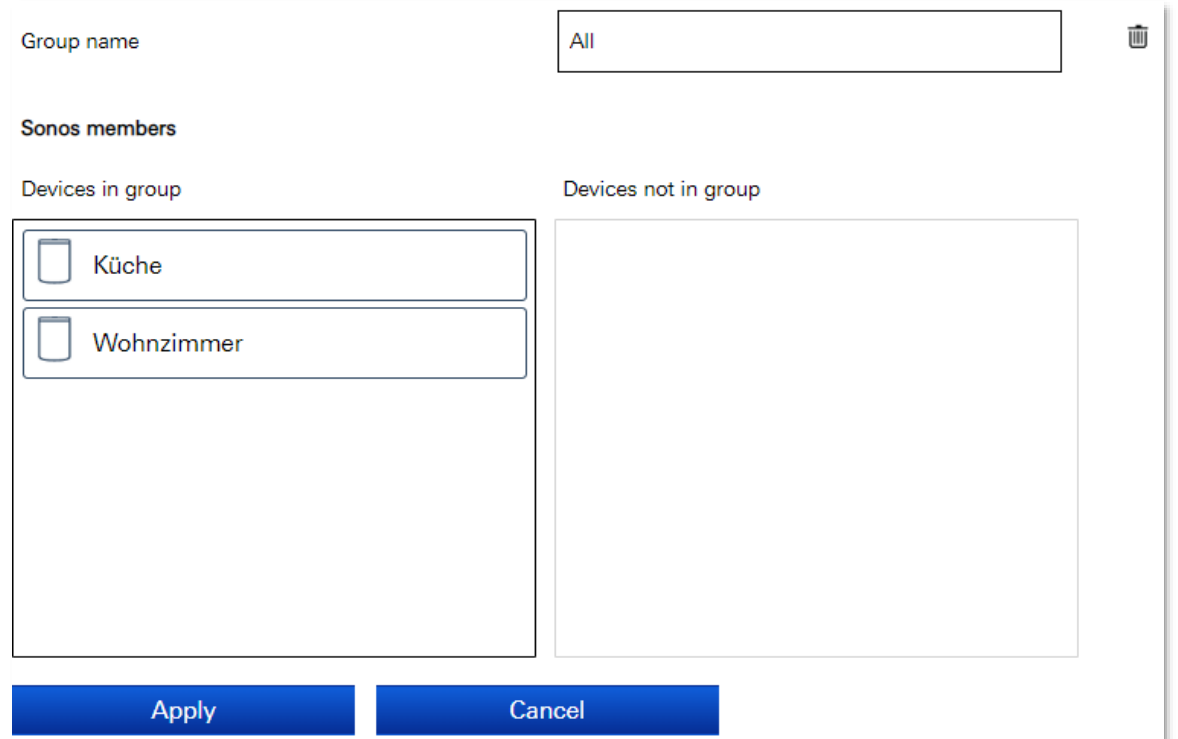
Living Area

Wohnzimmer

All

Wohnzimmer, Küche

Add group



Webinar “Update Busch-ControlTouch®”



6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Sonos settings – Audio clips

For “Text-to-Speech” functionality a new Sonos device is needed.
Compatible devices:

- Sonos One
- Sonos One SL
- Sonos Play:5
- Sonos Beam
- Sonos Move
- Sonos Symfonisk (IKEA)

10 predefined audio clips + 30 own audio clips (mp3 or T2S)

Sonos audio clips		Volume
Sonos standard - 1	Chime	<input type="text" value="20"/>
ControlTouch standard - 1	Ding dong	<input type="text" value="20"/> ▶
ControlTouch standard - 2	Gong	<input type="text" value="20"/> ▶
ControlTouch standard - 3	Gong 2	<input type="text" value="20"/> ▶
ControlTouch standard - 4	Logo	<input type="text" value="20"/> ▶
ControlTouch standard - 5	Tinkerbelle	<input type="text" value="20"/> ▶
ControlTouch standard - 6	Up the stairs	<input type="text" value="20"/> ▶
ControlTouch standard - 7	Xylophone	<input type="text" value="20"/> ▶
ControlTouch standard - 8	Ding dong (long)	<input type="text" value="20"/> ▶
ControlTouch standard - 9	Melody 1 (long)	<input type="text" value="20"/> ▶
ControlTouch standard - 10	Melody 2 (long)	<input type="text" value="20"/> ▶
Own - 1	<input type="text" value="Good Morning"/>	<input type="text" value="20"/> ▶ 
Own - 2	<input type="text" value="Welcome home"/>	<input type="text" value="20"/> ▶ 

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Sonos settings – Audio clips


Integration via Triggers:

Trigger < 🗑️


Enabled:

Name:

Conditions

 = +

Actions

 +

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Sonos settings – Audio clips

Application:



Window closed
GA BI = 0



Window opened
GA BI = 1



Sonos play audio clip with trigger function

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Sonos settings – Audio clips

Application:



Video outdoor station
GA Call started = 0



Someone bells
GA Call started = 1



Sonos play audio clip with trigger function

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Room Temperature Controller

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

RTCs

Up to 16 Master-RTCs for the ControlTouch are now integrated

Room thermostat controllers

[+ Add new project](#)

[Import project](#)

[ABB Training](#)

[Group Addresses](#)

[Cameras](#)

[Commands](#)

[Data Logger](#)

[Presence detection](#)

[Trigger](#)

[Scripts](#)

[Sonos KNX linking](#)

Room thermostat controllers

[Archive](#)

[Backups](#)

[Add](#)

Parameters

Group objects

General

Control heating

Setpoint settings

Changing set values

Temperature reading

Alarm functions

Temperature limiter

Device function: Single device

Control function: Heating

Operating mode after reset: Comfort

Temperature unit °C/°F: Celsius

Additional functions/objects: no yes

Parameters		Group objects	
0	Heating control value	<input type="text"/>	DPT 1.001
6	External actual temperature	<input type="text"/>	DPT 9.001
10	Actual setpoint	<input type="text"/>	DPT 9.001
11	Normal operating mode	<input type="text"/>	DPT 20.102
12	Operation mode override	<input type="text"/>	DPT 20.102

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

RTC – Configuration as Master

Room thermostat controller - Bedroom (Master)

Parameters | Group objects

General

- Control heating
- Basic stage heating
- Setpoint settings
- Changing set values
- Temperature reading
- Alarm functions
- Temperature limiter

Device function: Master device

Control function: Heating

Operating mode after reset: Comfort

Temperature unit °C/°F: Celsius

Additional functions/objects: no yes

Delay time for read telegrams after reset (s): 5

Object 'Current HVAC operating mode' active: no yes

Save

3 - Heating

- ▶ 3/0 - Actual Setpoint
- ▶ 3/1 - Request Setpoint
- ▶ 3/2 - Confirm Setpoint
- ▶ 3/3 - Operating Mode
- ▶ 3/4 - On/Off Request
- ▶ 3/5 - On/Off confirmation
- ▶ 3/6 - Controller-Status HVAC
- ▶ 3/7 - Actual Temp.

Parameters		Group objects
0	Heating control value	DPT 1.001
4	On/off confirmation (Master)	DPT 1.001
6	External actual temperature	DPT 9.001
8	Fault, actual temperature (Master)	DPT 1.001
10	Actual setpoint	DPT 9.001
11	Operation mode normal (Master)	DPT 20.102
12	Operation mode override (Master/Slave)	DPT 20.102
13	Window contact (Master/Slave)	DPT 1.001
14	Presence detector (Master/Slave)	DPT 1.001
15	Status heating	DPT 1.001
27	Basic setpoint	DPT 9.001
34	Units switchover (Master)	DPT 1.003
36	On/off request (Master)	DPT 1.001
37	Setpoint display (Master)	DPT 9.00x
38	Request setpoint (Master)	DPT 6.010
39	Confirm setpoint (Master)	DPT 6.010
44	Controller status RHCC	DPT 22.101
45	Controller status HVAC (Master)	DPT -...

Save

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

RTC – Configuration as Slave

Room thermostat controller - Living Room (Slave) ← | 📄 | 🗑️

Parameters	Group objects
General	Device function <input type="text" value="Slave device"/>
Operating functions	Temperature unit °C/°F <input type="text" value="Celsius"/>
Changing set values	Additional functions/objects <input checked="" type="radio"/> no <input type="radio"/> yes

- ▼ **3 - Heating**
 - ▶ 3/0 - Actual Setpoint
 - ▶ 3/1 - Request Setpoint
 - ▶ 3/2 - Confirm Setpoint
 - ▶ 3/3 - Operating Mode
 - ▶ 3/4 - On/Off Request
 - ▶ 3/5 - On/Off confirmation
 - ▶ 3/6 - Controller-Status HVAC
 - ▶ 3/7 - Actual Temp.

Parameters			Group objects
4	On/off confirmation (Slave)	<input type="text" value="3/5/0"/>	DPT 1.001
6	External actual temperature	<input type="text" value="3/7/0"/>	DPT 9.001
8	Fault, actual temperature (Slave)	<input type="text" value="3/7/1"/>	DPT 1.001
11	Operation mode normal (Slave)	<input type="text" value="3/3/0"/>	DPT 20.102
12	Operation mode override (Master/Slave)	<input type="text" value=""/>	DPT 20.102
36	On/off request (Slave)	<input type="text" value="3/4/0"/>	DPT 1.001
37	Setpoint display (Slave)	<input type="text" value="3/0/2"/>	DPT 9.00x
38	Request setpoint (Slave)	<input type="text" value="3/1/0"/>	DPT 6.010
39	Confirm setpoint (Slave)	<input type="text" value="3/2/0"/>	DPT 6.010
40	Heating/cooling request (Slave)	<input type="text" value="3/7/2"/>	DPT 1.100
45	Controller status HVAC (Slave)	<input type="text" value="3/6/0"/>	DPT -...

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Other new features

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Snapshots

Implement snapshot function for alert service

For the alert service, a camera can be selected to make a snapshot that is to be included in the push message or email. This snapshot is made when the alert service is triggered and:

- shown when the message is received
- stored in the myBuildings-environment of the cloud (maximum number of images is restricted, when reached oldest images are removed)
- available from the apps in the alert log
- the last image is always stored on the device



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Cloud backups

Cloud backup of device configuration

The automatic cloud backup can be enabled/disabled on the device System page. When enabled, 2 slots will be filled with weekly backups and 2 slots with daily backups. Additionally, 3 slots can be filled with manual backups, that can be named individually. When updating the firmware, the user is prompted to create a manual backup, to safeguard the data in case the device update fails. From the device System page, a backup can be selected and restored to the device. Online in the myBuildings environment, the available backups are also shown.

Cloud backups				
	Type	Position	On	Name
+ Register new device				
> 14219-04164-66586	Automatic	2	2020-01-28 09:13:10	Weekly
Profiles	Automatic	3	2020-02-02 10:15:10	Daily
App settings	Automatic	4	2020-02-03 10:15:11	Daily
Local users				
Access rights				
Sonos Settings				
Snapshots				
Cloud backups				

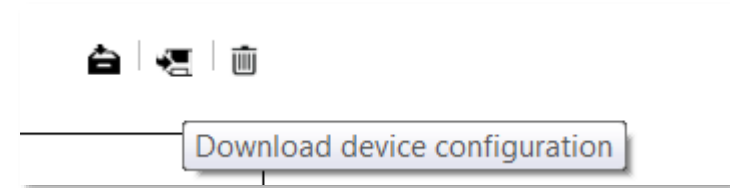
Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Local commissioning

From the myBuildings environment on the device page, a file can be downloaded containing the project and profile information. On the device System page, this file can be uploaded under Configuration. When an app is connected to the device, also the profiles are available for the app. This allows for offline/local commissioning, when the device is unable to connect to the cloud.

The profile information is kept on the device as long as there is no cloud connection.



Configuration

Load personal configuration

Load

Export configuration

Save

Import configuration

Datei auswählen Keine ausgewählt

Load

Delete all configuration

Delete

Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

LUA scripting support

Definition: (Wikipedia)

“Lua [...] is a lightweight, high-level, multi-paradigm programming language designed primarily for embedded use in applications. Lua is cross-platform, since the interpreter of compiled bytecode is written in ANSI C, and Lua has a relatively simple C API to embed it into applications.”

Use for the Busch-ControlTouch®:

Sonos, Timer, Alerts, etc.

Scripts

Add Script

Add LUA Script

```
ct.userlog(text)
ct.startscript(script_id)
ct.stopscript(script_id)
ct.enablescript(script_id, status)
ct.sleep(time)
ct.callscenario(scenario_id)
ct.learnscenario(scenario_id)
ct.callalert(alert_id[, text [,camera_id]])
ct.makesnapshot(camera_id)
ct.enablescheduler(scedule_id, status)
ct.setcomponent(component_id, value [, value_2, value_3])
ct.getcomponent(component_id)
ct.readcomponent(component_id)
ct.httpcommand(http_id)
ct.setupnp(device_id, command[, option_setting])
ct.getupnp(device_id)
ct.tcpcommand(tcp_id)
ct.openKNXtunnel(status)
ct.setsimulation(status)
ct.getsimulation()
ct.connectKNX(status)
ct.setpersistent(varname, value)
ct.getpersistent(varname)
ct.setsonos(device_id, command[, option_setting])
ct.getsonos(device_id, parameter)
```



Webinar “Update Busch-ControlTouch®”

6136/APP-500 Busch-ControlTouch® - Feature Enhancements

Time switch

Enhance scheduler with day/week options

For the scheduler, now three options exist:

- Standard scheduler: schedule one action for one (recurring) time
- day scheduler: schedule up to 5 actions over the 24 hour period, which is performed every day
- week scheduler: schedule up to 5 actions over 7x24 hour periods, which is performed every week

Additionally a scheduler can be enabled only for a certain time period, for instance only May to

	Monday	Tuesday	Wednesday	Thursday
00:00				
01:00				
02:00				
03:00				
04:00	04:00 - DT			
05:00				
06:00				
07:00				
08:00				
09:00				
10:00				
11:00	11:00 - Command			
12:00				
13:00				
14:00				
15:00				
16:00				
17:00				
18:00				
19:00				
20:00				
21:00				
22:00				
23:00				

Disclaimer

The information in this document is subject to change without notice and should not be construed as a commitment by ABB. ABB assumes no responsibility for any errors that may appear in this document.

In no event shall ABB be liable for direct, indirect, special, incidental or consequential damages of any nature or kind arising from the use of this document, nor shall ABB be liable for incidental or consequential damages arising from use of any software or hardware described in this document.

© Copyright [2020] ABB. All rights reserved.

ABB